

SANTA GERTRUDIS

GENOMIC BREEDING VALUE REPORT

September 2026



PINEKLOOF TRUST

Herd Number: 8550006

E-mail: pinnacle.santas@gmail.com



LOGIX



EBVs, EBVi's and GEBVs

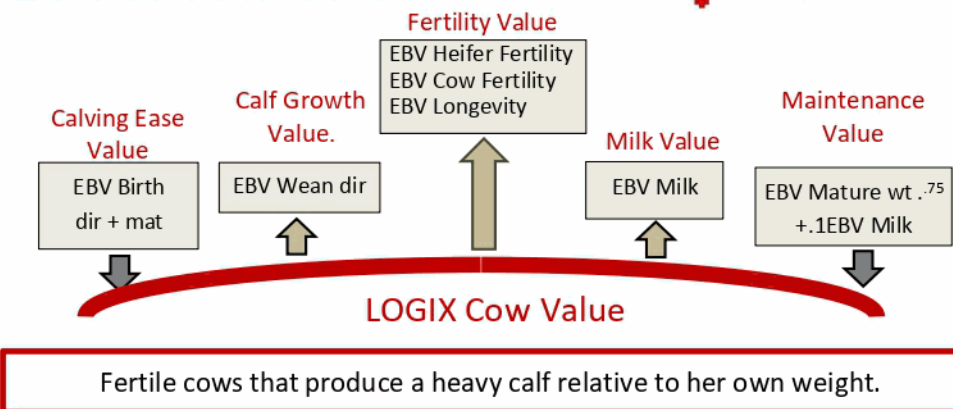
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

EBV (Breeding Value): Genetic potential relative to the average of the animals born in the base year (1990), expressed in the unit of measurement.

GEBV (Genomic Breeding Value) Interpreted like the EBVi. (GEBV = EBV + Genomic information)

LOGIX Selection values combine different breeding values in a logical way. For example, Heifer Fertility (how early a heifer starts calving), Cow Fertility (how regular she calves) and Longevity (retention within the family) are combined to form the Fertility Value.

LOGIX Cow Value



Selection Values

LOGIX Cow Value



Selecting for:

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

LOGIX Growth Value



Select for efficient growers on veld and in feedlot, as measured in Phase C and D Growth Tests.

LOGIX Carcass Value



Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

How to use the Cow Value

Selection values should be compatible with your selection goal.

AVERAGE ANIMALS

(NO GROWTH EXTREMES)

- Selection Values 90 to 110
 - Cow Value and Fertility Value average to high
- A safe choice, as animals are profitable in most environments.

GROWERS

(GOOD ENVIRONMENT)

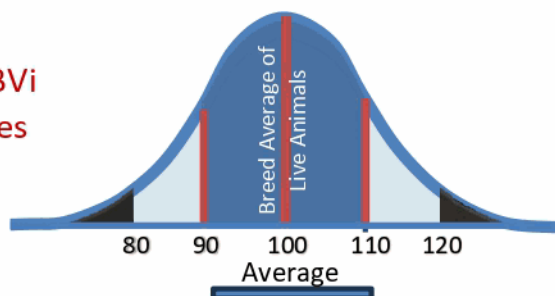
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

LOW- MAINTENANCE ANIMALS

(HARSH ENVIRONMENT)

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

Interpretation of EBVi and Selection Values



Examples

Type of Animal	Cow Value	Calving Ease V	Weaner Calf V	Milk Value	Maint. Value	Fertility Value
Average	Med-High	Avg	Avg	Avg	Avg	Med-High
Grower	Med-High		High			Med-High
Low Maintenance	Med-High				High	Med-High

Contemporary Groups

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

1. Animals at the same time, place and treatment

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

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

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

3. Larger groups stabilise Breeding Values

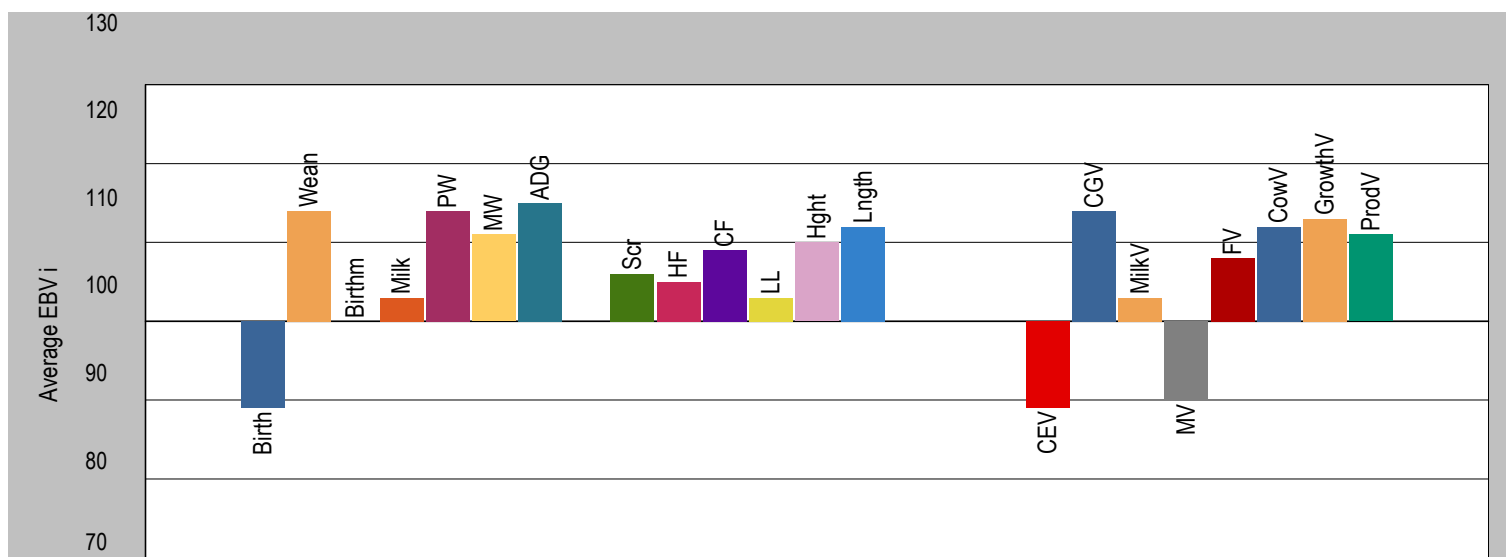
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for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

4. Measure all animals in the contemporary group

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



Herd and Breed Averages



Breeding Values:

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

Selection Values:

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

	Trait	EBV Herd	EBV Index	EBV Breed
Prewrite Growth	Birth Weight	2.06	89	1.11
	Wean Weight	22.2	114	14.7
	Birth Mat.	-0.05	100	-0.07
	Milk (Wn.Mat.)	1.7	103	0.7
Postwean Growth	Postwean Wt	33.9	114	23.1
	Mature Weight	29	111	19
	ADG	161	115	95
	FCR			
Fertility	Scrotal Circumf.	13.9	106	10.4
	Heifer Fertility	-7.8	105	-3.8
	Cow Fertility	-7.6	109	-5.8
	Longevity	35.2	103	33.0
Frame	Height	18	110	12
	Length	37	112	24
Carcass	Dressing%			
	RedMeatYield			
	Marbling			

Selection Value	Ave. Herd
Calving Ease	89
Calf Growth	114
Milk	103
Maintenance	90
Fertility	108
Cow Value	112
Growth Value	113
Production Value	111

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

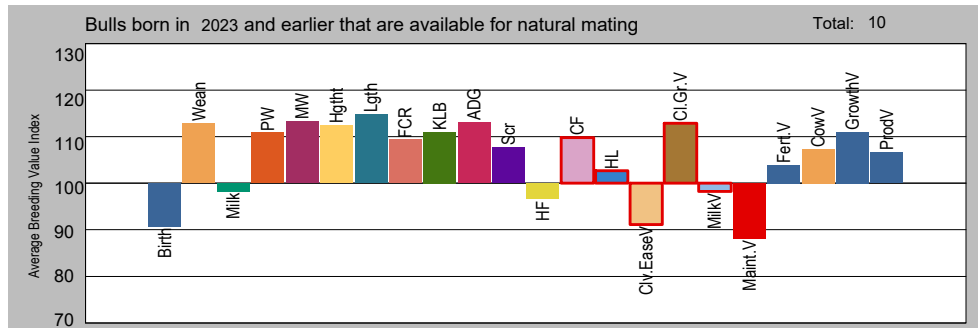
What does a sub-selection value above breed average (100) mean?:

Calving ease:	Smaller calf at birth - easier calving
Calf growth:	Heavier calves at wean due to growth potential of the calf
Milk:	Cows with more milk and better mothering ability
Maintenance:	Animals with low maintenance requirements (lower mature weight).
Fertility:	Cows/daughters that calve

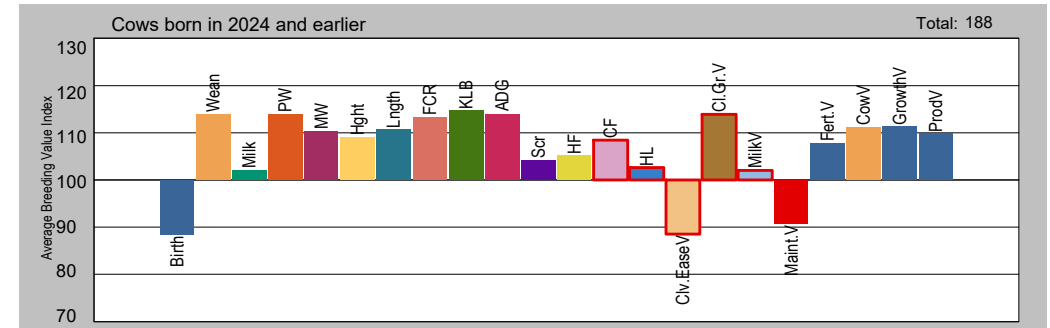
Genetic Windows

Animals available for breeding

Bulls on the farm

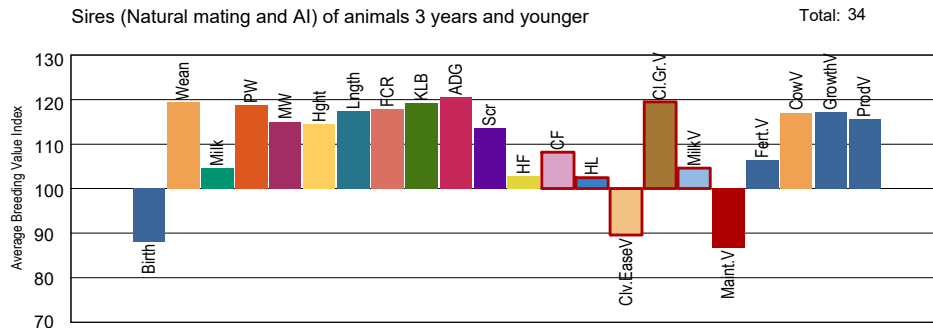


Cow Herd

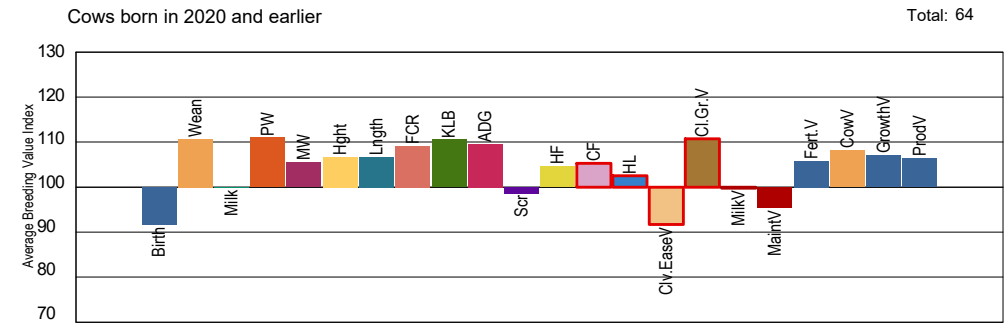


Results of previous selection decisions

Sires of young animals

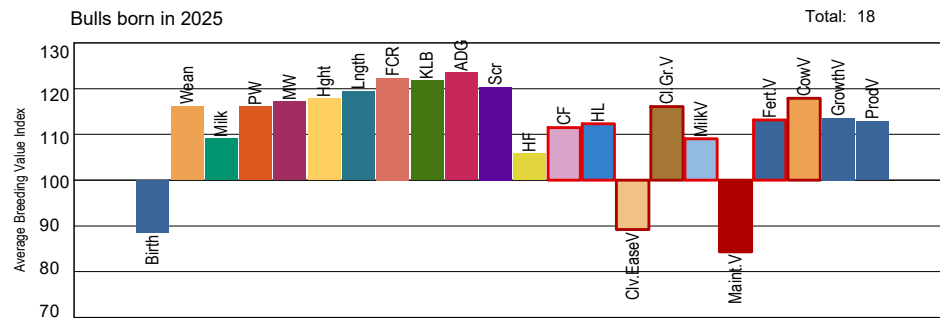


Cows older than 6 years

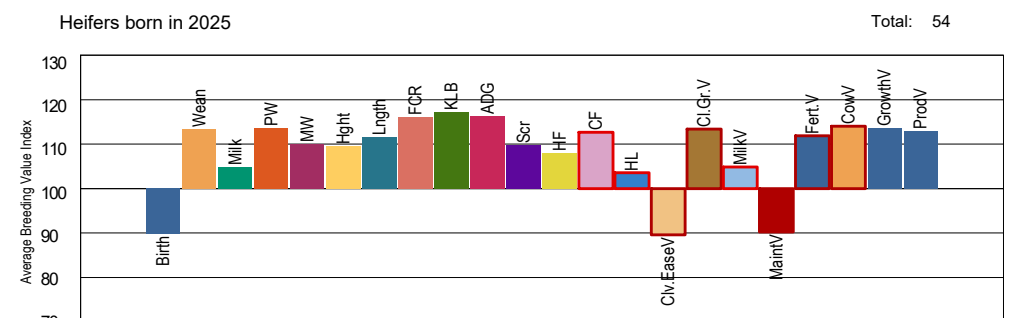


Selection possibilities

Bull calves



Heifer calves

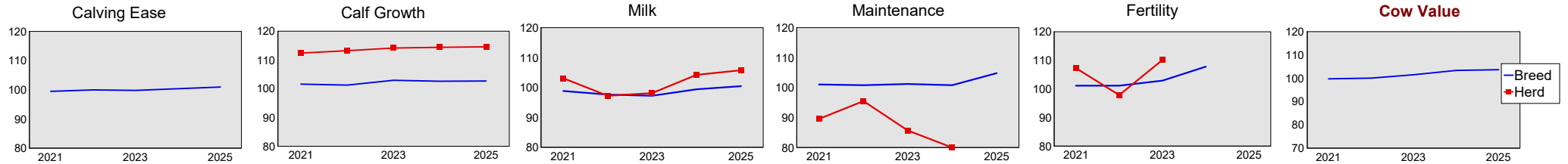


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertiity				Frame	
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
			Cows in Breed Average:									100	100	100	100	100	100	100	99	99	99	100	100	100
2013	1	★★★★★	90	121	85	100	116	118	124	119	93	121	95	85	122	100	128	134	113	111	114	109	118	114
2015	3	★★★★★	93	119	107	83	97	115	124	116	86	119	108	107	118	120	125	122	110	88	103	107	126	124
2016	6	★★★★☆	89	112	105	92	100	106	111	106	88	112	101	105	115	108	113	114	100	95	101	106	108	108
2017	10	★★★★☆	92	109	98	95	111	107	103	105	92	109	101	98	109	105	106	108	96	109	109	104	101	102
2018	8	★★★★☆	98	104	111	99	98	106	100	102	98	104	101	111	104	101	103	104	94	98	96	103	102	103
2019	16	★★★★★	89	113	98	100	116	113	108	111	91	113	97	98	113	100	111	113	101	116	116	100	104	105
2020	20	★★★★☆	92	111	96	93	101	105	107	103	91	111	99	96	111	109	109	109	97	101	100	102	110	109
2021	22	★★★★★	88	116	107	88	111	117	114	116	89	116	99	107	116	113	116	115	110	108	111	103	110	113
2022	26	★★★★☆	86	115	100	88	104	109	111	107	86	115	101	100	116	113	114	114	103	101	104	103	110	113
2023	25	★★★★★	88	119	101	86	110	116	115	115	87	119	101	101	117	117	117	116	113	104	112	105	112	115
2024	51	★★★★★	86	114	104	90	110	112	114	111	86	114	98	104	115	111	117	119	105	107	112	101	109	111
2025	54	★★★★★	90	113	105	90	112	114	114	113	90	113	100	105	114	110	116	117	110	108	113	104	110	112
2026	18	★★★★☆	87	112	105	92	100	106	113	106	88	112	100	105	114	108	116	118	103	98	101	101	110	112
Cows in Herd Average:			90	114	102	92	107	111	112	110	90	114	100	102	114	109	115	116	104	103	107	104	110	111

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.



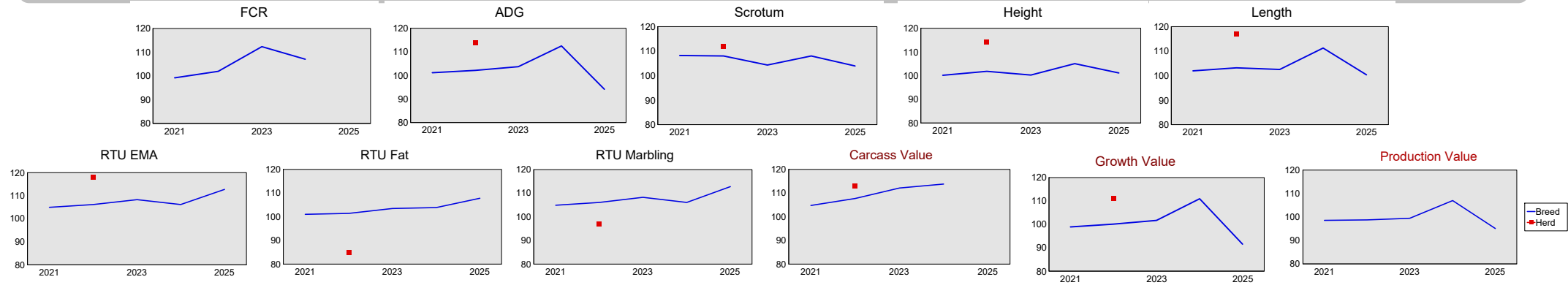
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance						Fertility						Cow Value	
	Birth Weight		Calv. Ease	Dir	Weaning Weight	Calf Growth	Milk (Wn.Mat.)	EBV	Milk	Postwean Weight		Mature Weight		Mainte-nance	Heifer Fert.		Cow Fert.		Longevity		Ferti-lity			
	Number	EBV								Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number		EBV
2021					125	21.5	112		125	1.67	103			29	30	90	48	-8.7	34	-7.8	118	30.4	107	
2022					130	21.9	113		130	-0.11	97	1	26.6	1	21	96	36	-0.2	6	-7.5	55	28.9	98	
2023					128	22.5	114		128	0.17	98			3	35	86	18	-7.4					110	
2024					103	22.6	114		103	2.03	104	2	49.0			76								
2025					82	22.7	115		82	2.46	106													

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility							Cow Value
	Birth Weight		Calv. Ease	Dir	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		Number	EBV	Number	EBV	Number	EBV		Number	EBV	Number	
2016	2689	1.09	-0.07	100	1903	13.7	98	1903	-0.18	97	513	20.0	171	13	105	1226	-3.3	906	-4.7	5869	24.3	94	93
2017	2776	1.13	-0.09	100	2154	14.4	99	2154	-0.17	97	642	20.4	214	14	106	1179	-4.1	871	-4.8	5765	25.8	96	93
2018	2956	1.05	-0.07	101	2127	15.3	101	2127	-0.52	96	545	22.6	259	13	105	1243	-3.8	835	-5.5	6004	26.3	97	98
2019	3205	1.15	-0.07	100	2831	14.6	100	2831	-0.05	97	800	23.6	299	15	102	1189	-3.7	844	-5.7	5985	27.5	98	97
2020	3447	1.14	-0.10	100	3076	14.9	100	3076	0.03	98	695	23.9	286	17	102	1192	-3.4	704	-5.7	6060	28.1	99	97
2021	3337	1.21	-0.16	99	3401	15.6	102	3401	0.37	99	732	22.7	273	17	101	1071	-4.0	641	-6.0	5554	29.9	101	100
2022	3474	1.17	-0.14	100	3746	15.4	101	3746	0.01	98	748	23.3	226	18	101	854	-3.8	274	-6.5	2809	29.7	101	100
2023	3301	1.22	-0.18	100	3337	16.3	103	3337	-0.10	97	702	24.6	48	23	101	435	-2.9	15	-7.5			103	102
2024	3311	1.17	-0.16	100	3379	16.1	103	3379	0.56	99	667	25.1			101	21	-6.0					108	103
2025	3015	1.12	-0.13	101	1920	16.2	103	1920	0.86	100	441	17.5			105								104
2026	1509	1.01	-0.07	102	57	13.1	97	57	1.96	104													98

Genetic Trends for Growth Test Traits



Herd

Birth Year	Growth									Frame						Carcass						Selection Values		
	FCR			ADG			Scrotum			Height			Length			RTU EMA		Fat		Marbling		Carcass Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBV	EBVi	EBV	EBVi			
2021																								
2022				1	155	114	1	16.7	112	1	20	114	1	43	117	1	2.24	118	-1.72	85	0.20	97	113	111
2023																								
2024																								
2025																								

Breed

Birth Year	Growth									Frame						Carcass								Selection Values		
	FCR			ADG			Scrotum			Height			Length			RTU Number	EMA		Fat		Marbling		Cracss Value	Growth Value	Prod Value	
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		EBV	EBVi	EBV	EBVi	EBV	EBVi				
2017	73	-23	102	285	93	100	299	9.4	98	288	11	99	285	24	100	202	0.47	96	-0.03	98	0.58	102	99	97	94	
2018	47	-23	102	220	86	98	275	9.2	98	248	11	98	220	22	98	123	0.85	101	0.10	99	0.72	104	103	95	101	
2019	55	-26	105	256	102	102	338	10.3	100	253	13	101	183	27	103	206	1.00	103	-0.39	95	0.48	101	102	99	96	
2020	30	-25	104	229	95	100	292	10.6	100	170	14	103	138	32	107	206	0.67	99	0.29	101	0.82	105	103	98	100	
2021	35	-19	99	271	100	101	299	14.8	108	278	12	100	271	27	102	196	1.02	103	0.33	101	0.82	105	105	99	99	
2022	22	-22	102	198	104	102	198	14.7	108	198	13	102	198	28	103	83	1.38	107	0.38	101	0.92	106	108	100	99	
2023	28	-34	112	154	111	104	154	12.8	104	154	12	100	154	27	103	99	1.43	108	0.64	103	1.10	108	112	102	99	
2024	28	-28	107	96	148	112	95	14.8	108	135	15	105	135	37	111	104	1.50	109	0.70	104	0.92	106	114	111	107	
2025				94	70	94	94	12.6	104	136	13	101	136	25	100	32	1.90	114	1.19	108	1.46	113		92	95	
2026																										

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	Dgt/Calvs.
20143156	1293527			80	138	118	73	140	148	125	145	80	138	89	118	139	131	129	118	139	148	131	95	130	129	122	113	109	13	13	
1271810	79	81	70																										33	59	67
RED DOC DINERO 4088																															
20164169	189/11			94	130	105	90	124	140			94	130	104	105	135	110			130	120	119	112						8	25	
3167	61	84	62																										37	48	62
RED DOC DIABLO 6306 (P)																															
7457	1292286			84	139	109	71	94	130	135	131	85	139	101	109	140	135	139	127	129	90	109	87	138	139	131	110	111	10	21	
1271810	81	87	78																										75	78	77
RED DOC ET 7457 (NEVER BETER)																															
CJ 130025	SP 060030			80	96	99	125	88	83	98	82	86	96	88	99	103	79	102	103	91	110	65	98	96	97	89	101	97		33	
ER 050064	85	91	87																										78	86	82
13 25																															
CVF02022	3983			93	120	92	104	119	123	112	120	95	120	95	92	124	95	117	115	102	109	124	107	119	126	141	78	103	20	33	
003/99	86	90	87																										45	78	78
BRIGGS MR CVF 2022																															
DG 060046	XY 000075			87	109	95	96	120	109	111	107	94	109	81	95	108	103	100	92	146	109	127	105	103	111	66	68	82	164	67	
JI 030157	95	95	91																										61	86	84
06 46																															
FR 150090	SP 110076			75	105	121	97	104	103	126	105	84	105	75	121	114	100	136	138	100	105	105	97	103	109	126	56	87	127	133	
FR 100039	95	97	90																										79	87	86
GAFFEL																															
FR 150093	SP 110076			85	113	114	87	76	99	125	102	93	113	79	114	126	113	133	116	103	80	78	94	112	124	149	44	86	93	85	
FR 060197	94	95	90																										79	88	86
GEVAARLIK																															
FR 200084	SP 160036			92	107	111	96	97	105	116	105	97	107	87	111	111	103	122	122	93	100	100	92	112	109	100	114	106		4	
FR 110024	39	74	58																										27	48	53
OSBORN																															
FR 210070	FR 170061			96	102	112	100	87	98	101	96	99	102	93	112	103	98	107	109	98	88	92	95	103	105	102	76	99		6	
FR 130091	79	87	81																										77	80	77
PETER																															
HH 130001	JO 080028			106	93	64	127	77	73	95	72	108	93	92	64	95	79	100	97	65	81	80	94	110	100	101	98	106	3	41	
TOL 060006	86	93	89																										83	87	83
KEN																															

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	Grwth	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight			Mat.	wt			Fertility	Fertility	ty					
Name				Value	Value				Value	Value	Value																		Test	
HH 130004		XY 6801-2	HH 100006	87	102	108	130	93	101	79	94	91	102	144	108	96	75	83	100	92	101	95	86	109	106	119	74	115	109	67
KILLER				95	95	92	84	90	87	88	87	1.85	16.0	-1.76	3.2	19.7	-4	23	-20	6.2	-4.5	-4.7	23.7	17	31	2.34	-3.17	1.64	9	26 59
HH 130032		DJW 080041	HH 080015	102	100	100	83	111	101	113	101	97	100	120	100	100	119	108	117	82	123	97	97	85	104	107	97	91	17	41
KNOX				89	92	87	81	87	83	85	83	1.33	14.4	-0.83	0.6	22.8	37	130	-40	0.5	-22.4	-5.2	31.0	3	29	1.36	-0.19	-0.32	7	9 22
HH 160018		HH 130015	HH 110020	79	128	95	73	94	110	127	112	65	128	88	95	128	134	129	128	100	93	96	98	125	129	120	100	107		21
NIKE				81	89	83	79	82	79	79	79	4.13	29.9	0.41	-0.9	45.0	52	218	-52	10.5	1.5	-5.1	31.9	27	56	2.43	0.18	1.01	4	6
HH 170028		SP 140020	VV 020128	112	101	136	83	104	119	110	116	109	101	107	136	104	116	115	136	127	100	112	96	106	102	95	89	130	77	66
OHIO				95	95	90	86	89	87	88	87	0.34	15.3	-0.34	11.6	26.4	34	158	-63	24.8	-3.8	-8.3	30.0	16	26	0.32	-1.27	2.83	14	22
HH 170045		LL 120206	HH 130031	88	118	85	75	85	95	108	95	84	118	112	85	111	132	108	100	107	80	104	85	113	119	107	96	102	11	150
OUTPOST				93	97	93	91	92	88	90	88	2.53	24.3	-0.55	-3.8	32.0	50	129	-20	14.2	12.2	-6.7	23.0	20	45	1.37	-0.36	0.61	17	22
HH 190014		SP 140020	HH 100006	83	113	103	110	132	121	102	117	70	113	98	103	113	88	102	108	103	131	125	107	96	102	94	93	122	11	11
QUANDARY				89	90	87	84	86	82	84	82	3.69	21.6	0.02	1.6	33.2	8	105	-30	12.0	-28.2	-10.9	37.7	10	27	0.29	-0.71	2.23		
HH 190033		SP 060039	RS 140025	88	111	118	82	99	110	130	112	90	111	99	118	114	119	133	140	125	105	93	100	114	110	94	108	87		31
EMBLEM				88	93	88	85	87	84	88	85	1.94	20.9	-0.03	6.1	34.0	37	235	-67	24.2	-7.7	-4.4	32.9	21	36	0.30	1.21	-0.64		
HH 210001		HH 170028	HH 170046	102	113	116	86	109	122	115	120	99	113	112	116	112	114	118	124	133	100	106	118	114	112	111	92	122		14
GUNNER				81	88	81	77	80	78	78	78	1.22	21.9	-0.54	5.5	32.3	33	170	-48	28.3	-3.8	-7.0	45.2	20	37	1.69	-0.84	2.21		
HH 210003		SS 180149	SS 180185	101	142	88	81	114	143	122	140	96	142	118	88	131	123	124	126	130	106	115	111	122	128	155	88	103	18	17
GOLIATH				91	92	87	85	86	84	86	84	1.49	37.9	-0.77	-2.8	47.3	41	198	-50	26.6	-8.8	-8.8	40.4	25	55	5.32	-1.33	0.69		
HJ 980104	MB 950115 GR 950013			86	104	100	95	79	87	127	91	85	104	129	100	107	105	124	125	125	85	85	88	117	111	100	116	105	17	9
HJ 98104				85	80	78	41	70	71	48	66	2.36	16.8	-1.20	0.8	28.9	24	198	-49	24.1	8.3	-2.6	24.5	22	36	0.76	2.26	0.80	1	10 32
IGB 200089	VV 160037 KSS 140022			102	108	82	109	91	98	103	96	100	108	106	82	102	91	108	112	107	85	87	117	87	87	78	154	104	33	12
IGB200089				81	75	51	17	46	59	43	56	1.07	18.9	-0.31	-4.9	24.5	10	131	-34	14.4	8.2	-3.1	44.4	4	10	-1.04	7.13	0.77		

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	Dir	Dir	Mat.	Mat.	wt	weight							Fertility	Fertility	ty						Grwth Test	Dgt/Calvs.	
JC	160095	292796	JC 100145	86	136	80	76	82	111	135	114	63	136	129	80	127	131	134	120	124	60	112	95	152	137	120	102	103	1	20		
16 95 TORNADO				57	85	66	40	58	64	29	57	4.29	34.4	-1.18	-5.4	43.8	49	238	-43	23.3	27.7	-8.2	29.6	43	65	2.41	0.43	0.70		2	5	
JH	120035	DT 060316	ER 030059	100	98	74	126	91	86	76	80	99	98	131	74	84	79	71	46	68	88	105	88	56	80	73	91	88	10	104		
12 35				91	96	92	84	89	86	88	86	1.20	13.4	-1.29	-7.1	11.0	-1	-31	44	-7.0	6.1	-6.9	24.6	-14	3	-1.42	-0.97	-0.57	6	36	78	
JH	140070	KVS 080229	JH 100097	103	107	149	75	66	108	97	104	98	107	121	149	105	126	102	94	90	80	58	95	106	117	132	89	103		18		
1470				69	85	74	38	59	67	70	68	1.26	18.3	-0.87	15.7	26.9	44	104	-13	5.1	12.0	2.9	29.7	15	43	3.43	-1.15	0.63		7	21	
JH	170053	254730	JH 110090	89	106	63	108	97	85	113	87	81	106	119	63	100	93	108	112	107	81	108	112	113	106	101	106	97	71	63		
CHAPMAN				94	95	88	85	87	86	88	86	2.75	17.8	-0.80	-10.5	23.0	13	129	-34	14.1	11.4	-7.3	41.1	20	31	0.89	0.99	0.15	1	7	11	
JH	170074	KTZ 120010	KVS 140210	78	116	111	90	108	113	130	115	86	116	83	111	129	109	136	126	121	105	109	104	110	122	104	148	117	5	31		
KIETZMAN				89	93	86	83	86	83	86	84	2.36	23.6	0.58	4.0	45.8	28	250	-51	21.5	-7.8	-7.7	35.4	18	48	1.12	6.32	1.81	1	4	4	
JH	190022	SS 130048	JH 130085	87	112	100	84	127	114	125	116	86	112	107	100	110	118	127	127	131	120	133	99	113	119	135	94	76	7	85		
1922				89	96	87	84	86	85	84	85	2.28	21.1	-0.33	0.7	30.7	36	211	-51	27.4	-19.7	-12.5	32.1	20	45	3.62	-0.54	-1.51		1	1	
JH	200062	VV 100149	SP 150046	88	144	86	85	89	128	126	128	73	144	112	86	146	118	127	123	130	101	79	97	115	120	130	123	110	2	3		
2062				71	75	61	32	52	61	32	55	3.43	38.9	-0.55	-3.4	58.9	37	212	-48	26.7	-4.3	-1.5	30.8	21	46	3.27	3.16	1.24				
												75	75	56	61	56	32	36	23	72	55	35	65	41	39	64	57	55				
JL	120005	HN 050046	LF 030025	95	126	83	79	120	123	134	125	100	126	88	83	124	126	135	116	113	109	135	95	143	144	136	82	110	68	44		
JL1205				92	92	88	47	79	80	42	72	1.13	28.9	0.41	-4.5	42.0	44	244	-39	17.6	-11.3	-12.9	29.5	38	72	3.74	-2.11	1.20	28	78		
												94	92	83	88	68	47	48	33	66	85	58	93	52	50	39	36	35				
JR	060002	CUMB88J	JR 030028	92	128	108	65	93	119	119	118	94	128	97	108	124	145	119	107	121	91	107	86	116	131	131	120	127	93	158		
06 02 (P)				96	97	94	86	92	89	88	89	1.62	29.8	0.05	3.1	41.5	62	178	-28	22.0	3.6	-7.2	23.5	21	58	3.28	2.80	2.65	16	48	137	
												97	97	92	94	90	86	89	86	91	94	86	97	91	90	84	83	83				
JT	150001	VV 110021	JF 120037	84	110	90	99	85	92	105	91	89	110	147	90	105	101	103	98	96	83	95	91	115	109	97	112	107	29	16		
HERCULES				93	91	89	85	87	84	84	84	2.05	20.4	-1.87	-2.2	26.7	20	107	-17	8.0	10.0	-4.8	27.0	21	34	0.53	1.74	1.00	21	29		
												94	91	90	89	87	85	84	85	85	87	85	90	85	85	84	84	84				
KT	070013	VV 000110	KT 000002	91	110	80	103	94	95	95	92	90	110	109	80	112	97	99	102	81	115	82	85	104	102	92	76	87	172	130		
OBELIX 07 13				98	97	96	90	95	90	90	90	1.97	19.9	-0.41	-5.2	32.8	16	91	-22	0.0	-16.1	-2.1	22.9	14	27	0.12	-2.94	-0.62	1	51	155	
												98	97	96	96	90	90	90	90	91	95	92	97	91	91	90	90	90				

Sires

Bull				Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny			
ID	Index EBV Acc	Sire ID	Dam ID	Calv.	Calf	Milk	Maint.	Fertility	Cow	Growth	Prod	Birth	Wean	Birth	Wean	Post wn	Mature	ADG	FCR	Scrotal	Heifer	Cow	Long-evi	Height	Length	EMA	Fat	Marbling	Birth	Wean	
				Ease Value	Grwth Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight						Fertility	Fertility	ty						Grwth Test	Dgt/Calvs.
KT 100037		KT 070013	KT 080004	102	108	110	85	83	102	105	100	102	108	100	110	110	116	110	107	96	94	78	92	114	113	101	90	101	22	8	
SAVETY				84	78	73	34	63	68	42	63	0.91	18.9	-0.08	3.7	30.6	34	136	-28	8.1	1.3	-1.3	27.7	21	39	0.86	-1.04	0.53	1	7	19
KT 170008		BR 140011	KT 130040	88	117	96	80	114	113	108	110	88	117	106	96	112	125	110	108	114	100	113	123	98	109	106	106	100	122	95	
ZAC				92	95	77	43	63	77	72	76	2.11	24.0	-0.29	-0.6	32.1	43	139	-29	18.1	-3.6	-8.4	48.8	11	35	1.26	0.99	0.46	14	13	22
LL 120206		LL 090075	GR 050047	105	93	96	101	85	85	82	80	105	93	102	96	87	97	85	68	107	84	99	86	111	105	84	110	103	10	90	
LL120206				90	96	93	85	91	87	86	87	0.72	10.6	-0.14	-0.5	13.0	17	30	18	14.2	9.1	-5.6	23.6	19	30	-0.54	1.54	0.70	1	24	69
LL 140017		LL 090075	LL 090113	112	79	100	98	100	81	95	80	109	79	108	100	72	101	96	81	89	100	104	97	106	98	65	133	94	22	19	
STEVE				81	86	77	48	62	72	58	69	0.36	3.3	-0.38	0.9	1.6	20	77	3	4.5	-3.5	-6.6	30.6	16	23	-2.08	4.39	-0.06	5	8	27
LL 170231		J 130008	LL 130195	87	115	100	84	94	103	118	104	92	115	89	100	119	119	120	113	115	95	97	96	128	126	118	102	119	8	62	
LL170231				87	95	88	83	87	84	84	84	1.83	22.8	0.34	0.7	37.5	37	180	-35	18.5	0.1	-5.1	30.1	29	53	2.29	0.48	1.93		4	4
OLG 180018		SP 080037	LL 150218	89	112	89	102	102	103	103	101	88	112	109	89	109	97	105	93	90	101	102	101	109	113	99	132	99		3	
CROWDER				66	65	54	21	47	53	68	56	2.13	21.2	-0.42	-2.5	29.9	17	116	-11	4.9	-4.9	-6.1	33.4	17	39	0.67	4.31	0.38			
RD 170020		VV 120052	SP 140029	86	126	100	76	106	119	128	120	79	126	107	100	122	129	134	127	126	91	113	112	128	128	133	97	100	13	59	
APOLLO				90	94	87	82	87	84	84	84	2.88	28.9	-0.32	0.8	39.9	47	240	-51	24.6	3.0	-8.4	41.2	29	55	3.50	-0.24	0.44	1	9	9
RD 190059		HHH 130004	SP 140063	100	100	86	107	80	85	100	84	96	100	114	86	96	93	99	97	100	85	85	88	95	99	101	92	96	3	19	
RD190059				84	89	79	75	80	78	76	78	1.49	14.7	-0.63	-3.4	20.3	12	93	-16	10.2	7.8	-2.8	25.0	9	24	0.83	-0.85	0.09			
SP 060039		SP 030025	SP 010103	80	121	90	77	95	102	127	105	71	121	90	90	130	129	129	128	88	106	92	90	138	119	75	137	90	103	101	
X-ERCISE				96	97	95	87	94	89	92	90	3.57	26.0	0.31	-2.3	46.0	47	219	-53	3.9	-8.5	-4.1	25.9	35	46	-1.28	4.98	-0.36	27	60	162
SP 080037		CVF02022	SP 050046	91	99	83	130	97	90	91	87	91	99	105	83	97	76	93	91	82	97	104	90	93	97	93	98	97	143	8	
ZAKUMI				94	87	84	40	75	77	62	74	1.89	13.9	-0.28	-4.4	20.6	-3	64	-10	0.6	-1.4	-6.7	25.9	8	21	0.18	-0.09	0.15	3	20	46
SP 100007		CB011562	SP 070040	86	117	70	102	120	107	121	109	93	117	84	70	123	99	127	135	121	118	124	95	111	106	120	112	95	9	74	
BAILIE				77	94	90	37	77	77	53	72	1.75	23.9	0.56	-8.5	41.3	19	209	-61	21.8	-18.1	-10.8	29.8	19	32	2.39	1.71	0.05	2	32	124

Sires

Bull			Selection Values								Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.	
	Name																													
SP 100088		SP 070037 SP 050025	87	117	93	90	78	97	135	102	86	117	110	93	115	111	129	113	126	70	99	89	121	120	126	86	111		20	
BEEFMAKER			54	85	70	24	59	63	38	58	56	85	46	70	34.6	30	221	-35	24.5	20.0	-5.5	25.4	25	47	2.88	-1.57	1.32		4	17
SP 110035		CVF02022 SP 060001	82	121	103	94	99	113	110	111	74	121	97	103	121	105	116	113	101	101	106	88	107	125	135	87	114	3	16	
CONRAD			69	84	72	30	75	69	72	70	70	84	63	72	39.1	24	163	-35	11.1	-4.5	-7.0	24.7	16	51	3.69	-1.53	1.57	1	8	11
SP 110037		SP 060039 SP 050053	83	125	85	80	106	111	120	111	79	125	99	85	129	126	128	136	86	114	102	92	129	107	89	120	95	30	124	
CROMWELL			88	96	93	63	82	83	78	82	91	96	78	93	45.6	44	216	-63	2.6	-15.0	-6.3	27.4	29	32	-0.16	2.77	0.03	2	37	142
SP 110076		KT 080007 SP 060099	85	123	77	85	87	100	124	102	83	123	104	77	128	119	131	123	107	87	88	102	101	116	127	44	74	9	60	
CABANA			84	94	89	42	78	79	70	77	87	94	74	89	45.2	37	229	-47	14.3	6.4	-3.4	34.1	13	42	2.96	-6.96	-1.66	9	26	80
SP 140020		148623 SP 110048	92	108	123	101	150	136	112	132	98	108	82	123	107	96	115	132	119	142	152	100	93	98	69	108	138	35	190	
FIREMAN			94	98	95	91	93	89	90	89	95	98	92	95	28.3	15	157	-57	20.5	-36.9	-16.4	32.7	8	23	-1.74	1.27	3.51	6	54	117
SP 160019		SP 980033 SP 130034	110	94	112	129	66	91	84	86	109	94	101	112	97	75	89	96	82	78	66	84	88	88	60	111	94	2	85	
HALIFAX			84	95	86	80	86	83	82	83	84	95	82	86	20.6	-4	48	-15	0.5	13.4	1.1	22.5	5	11	-2.54	1.66	-0.09		8	12
SP 160036		SP 110037 SP 110081	84	120	99	85	110	115	118	115	90	120	87	99	125	118	126	131	84	111	113	94	117	110	101	115	104		106	
HELSINKI			87	96	90	85	89	85	84	85	1.96	25.8	0.43	0.5	42.4	36	204	-56	1.6	-12.4	-8.4	28.9	22	35	0.89	2.06	0.75		14	26
SP 180045		20143156 SP 110048	87	136	134	69	138	148	133	147	90	136	95	134	134	135	138	139	149	141	129	103	121	129	116	148	137	81	75	
JINERO			94	95	88	85	87	86	87	86	1.97	34.3	0.13	10.9	49.7	53	256	-65	37.2	-36.3	-11.7	35.0	25	56	2.09	6.31	3.46		10	14
SP 210008		SP 180045 DT 180097	82	126	124	76	129	137	120	134	80	126	96	124	124	126	123	124	131	127	131	95	113	120	121	118	122		31	
SP210008			82	91	83	80	82	80	80	80	82	91	80	83	42.0	44	192	-48	27.0	-25.0	-12.2	29.8	20	46	2.52	2.46	2.21			
SP 210076		JH 170074 HH 150041	84	129	113	77	121	133	137	135	80	129	103	113	135	126	140	129	120	115	116	113	136	131	107	128	112	44	33	
SP210076			91	92	85	82	84	83	82	83	93	92	82	85	50.5	44	264	-54	21.0	-16.0	-9.0	41.6	34	58	1.37	3.83	1.39			
SP 210106		VV 040074 SP 110048	88	121	108	85	113	122	119	121	94	121	86	108	118	117	121	116	120	112	115	97	114	119	116	101	108		5	
SP210106			85	89	85	82	84	81	82	81	85	89	84	85	37.1	35	183	-39	21.4	-13.6	-8.9	31.1	21	45	2.08	0.31	1.10			

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.
SP 220039		HH 170045 HH 180035	89	125	110	73	81	113	118	112	83	125	116	110	118	132	120	110	112	72	93	103	119	129	127	95	105		1
SP220039			42	73	56	30	45	52	27	47	2.56	28.6	-0.70	3.9	37.3	50	180	-32	17.0	18.6	-4.3	35.1	23	56	2.97	-0.48	0.84		
SP220039											45	73	30	56	28	30	26	25	29	51	27	56	29	28	24	22	22		
SP 220058		JH 170074 SP 150060	84	124	112	84	101	121	134	123	79	124	103	112	130	117	137	126	118	91	107	108	132	132	120	121	112		1
SP220058			82	87	83	80	82	79	80	79	2.95	27.9	-0.18	4.5	46.1	35	254	-50	20.2	3.1	-7.3	38.4	31	60	2.41	2.84	1.38		
SP220058											82	87	81	83	80	80	81	79	81	82	80	84	81	81	81	80	80		
SP 230010		RD 170020 SP 200014	88	121	103	83	112	119	118	119	84	121	115	103	118	119	122	118	114	99	114	118	124	123	121	106	108		1
SP 230010			81	85	80	77	79	76	78	76	2.53	26.0	-0.63	1.7	37.3	37	188	-42	17.8	-2.7	-8.6	45.2	26	50	2.50	0.99	1.11		
SP 230010											81	85	79	80	78	77	77	77	78	80	77	81	78	78	77	77	77		
SS 130048		SS 090003 ER 050030	96	96	72	103	140	99	106	98	91	96	117	72	103	97	110	126	114	143	137	94	75	84	132	81	56	81	63
MIDNIGHT			93	94	85	72	71	81	74	80	1.85	12.3	-0.74	-7.8	25.8	17	136	-50	17.7	-37.8	-13.3	29.2	-3	8	3.36	-2.22	-3.15	7	15 40
MIDNIGHT											96	94	82	85	84	72	71	71	87	75	48	90	84	76	80	74	73		
VV 040074		VV 970097 VV 980174	105	113	89	101	83	103	103	100	108	113	91	89	116	99	107	100	95	87	90	88	96	103	110	75	75	65	71
04 74			94	94	88	38	79	81	50	75	0.45	21.6	0.29	-2.7	35.3	18	127	-20	7.9	6.6	-3.7	24.7	9	27	1.62	-3.07	-1.62		
04 74											95	94	88	88	50	38	51	44	56	84	61	91	56	54	49	45	44	18	60
VV 080131		JR 060013 VV 060097	87	116	87	105	86	100	93	96	83	116	111	87	110	94	99	88	69	79	98	97	97	113	110	89	87	106	87
08 131			96	97	94	89	92	89	90	89	2.55	23.6	-0.49	-3.3	30.8	14	92	-6	-6.3	13.0	-5.5	31.0	10	38	1.59	-1.21	-0.65		
08 131											97	97	94	94	91	89	90	89	92	92	89	95	92	91	91	90	90	6	19 70
VV 140091		VV 110075 VV 120014	97	104	106	100	70	92	97	89	95	104	108	106	95	98	93	90	104	86	59	96	102	101	93	87	98	45	114
VV140091			94	97	91	85	89	87	85	87	1.51	17.0	-0.37	2.7	19.2	17	67	-8	12.8	7.4	2.6	30.0	13	25	0.15	-1.51	0.23		
VV140091											95	97	88	91	86	85	85	85	85	89	86	93	85	85	85	85	85	13	20
VV 170002		VV 130121 VV 090163	95	114	112	94	126	127	102	122	100	114	87	112	116	104	118	122	104	118	118	119	110	110	116	119	144	131	120
VV170002			97	97	93	91	93	89	91	89	1.14	22.5	0.44	4.4	35.4	23	174	-46	12.5	-17.9	-9.5	46.1	18	36	2.06	2.61	3.96		
VV170002											98	97	93	93	94	91	91	90	92	93	91	94	92	92	93	93	93	4	16 16
VV 170019		VV 130121 VV 120024	97	123	83	87	107	117	110	114	100	123	92	83	117	116	114	107	100	82	126	113	122	126	118	117	113	110	99
VV170019			98	98	96	95	96	91	95	92	1.12	27.6	0.23	-4.4	35.9	34	155	-28	10.2	10.7	-11.2	41.9	25	53	2.21	2.38	1.46		
VV170019											98	98	96	96	95	95	95	95	95	96	95	96	95	95	95	95	95	3	3
VV 170104		VV 130139 VV 100143	99	100	97	93	103	96	104	95	104	100	86	97	103	107	110	105	103	106	90	113	98	106	100	118	93	39	51
VV170104			96	96	94	92	94	89	92	90	0.80	14.5	0.49	-0.2	25.6	26	136	-26	12.2	-8.4	-3.7	42.1	11	31	0.78	2.46	-0.11		
VV170104											96	96	94	94	92	92	92	92	92	94	93	94	92	92	92	92	92	1	1
VV 170149		PZ 120016 VV 110201	101	109	102	90	95	106	110	105	97	109	113	102	105	110	109	99	111	83	96	119	109	116	114	94	101	97	54
VV170149			96	96	94	92	94	89	92	90	1.34	19.7	-0.56	1.4	27.1	29	134	-18	16.5	9.5	-4.9	45.8	17	42	1.94	-0.63	0.51		
VV170149											97	96	94	94	92	92	93	92	93	94	93	94	93	93	92	92	92	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						Dgt/Calvs.			
VV 170225		RH 070008	VV 140086	95	118	117	79	98	118	117	117	95	118	117	117	1.55	24.8	112	124	119	110	105	77	110	116	121	122	105	115	108	130	68	
VV170225				98	97	96	95	96	90	95	91	98	97	96	96	95	95	95	95	95	96	95	96	95	95	95	95	95	95	95	95	2	2
VV 180207		VV 120148	VV 140087	118	106	93	87	105	110	107	107	0.01	17.8	124	93	95	115	110	112	108	89	118	106	107	107	101	92	95	33	19			
VV180207				93	93	89	87	89	85	88	86	94	93	89	89	88	87	88	87	89	89	87	90	89	89	88	88	88	88	88	4	1	1

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-													
Test station		ID	Dam ID		Value	dir	weight	Length	Height	Length/ Height	Scrotum	Intake	ADG	FCR	Growth Value	EMA	Fat	Marbling	Carcass Value	
202001 B12 M																				
0606532SGT																				
HAVEMANN																				
		JH 190022			114	112	123	119	113	118	131	83	127	127	125	135	94	76	118	
		291204055			85	96	48	45	20	1.17	27.4	0.89	211	-51	84	3.62	-0.54	-1.51	84	
							84	84	84	84	88	83	84	83		84	84	84	84	
202103 B22 F																				
8191122SGT																				
BRITS																				
		GB 210008			120	127	135	134	141	108	126	70	133	124	138	128	96	100	132	
		291354017			56	71	60	61	37	1.15	24.7	1.12	235	-48	38	3.10	-0.30	0.40	62	
							40	40	41	40	43	37	36	37		65	59	57		
202301 D11 M																				
8189938SGT																				
SCOTSTON FARMS (PTY) LTD																				
		DJW 220071			110	113	109	109	102	116	89	103	104	105	103	109	77	103	106	
		291420537			80	88	33	35	13	1.17	4.2	0.53	112	-25	83	1.47	-2.73	0.64	84	
							86	86	86	86	86	80	84	80		84	83	83	84	

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																														
JH 190022 291204055 1922	4	SS 130048 JH 130085		87 89	112 96	100 87	84 84	127 86	114 85	125 84	116 85	118 84	86 2.28 90	107 -0.33 85	118 36 84	112 21.1 96	100 0.7 87	104 64 89	110 30.7 87	127 211 84	127 -51 83	131 27.4 88	120 -19.7 86	133 -12.5 83	99 32.1 89	113 20 84	119 45 84	135 3.62 84	94 -0.54 84	76 -1.51 84
DJW 220071 291420537 220071DJW	1	VV 180207 DJW 190076		105 89	113 88	90 83	88 80	101 82	110 80	103 83	107 81	106 84	101 1.04 90	113 -0.59 83	114 32 80	113 22.1 88	90 -2.4 83	99 51 84	105 27.0 82	104 112 84	105 -25 80	89 4.2 86	83 9.5 82	111 -8.0 81	116 43.6 84	102 13 86	109 35 86	109 1.47 84	77 -2.73 83	103 0.64 83
LL 220102 291408896 LL220102	2	LL 170231 LL 120234		80 78	113 85	120 80	80 75	101 78	108 76	125 75	110 76	124 75	84 2.48 79	90 0.33 76	122 40 75	113 21.7 85	120 6.7 80	118 99 80	119 38.0 77	128 216 75	116 -39 75	122 22.4 76	101 -4.4 78	105 -6.7 76	95 29.8 80	128 29 76	127 54 75	118 2.28 75	100 0.20 75	110 1.24 75
SP 220085 291411288 SP220085	1	HH 170045 SP 160051		101 41	103 71	78 56	100 32	95 45	91 51	89 24	87 46	88 21	98 1.32 44	113 -0.59 31	100 19 32	103 16.4 71	78 -6.0 56	84 15 53	95 19.7 25	89 47 25	80 4 21	86 2.6 27	90 3.8 53	104 -6.7 29	94 29.2 53	86 4 27	95 19 26	91 0.05 22	93 -0.76 20	92 -0.25 20
VV 220234 95307484 VV 220234	17	VV 170019 VV 170140		84 87	124 86	95 84	87 82	107 83	116 80	114 82	115 80	119 82	93 1.73 88	78 0.79 84	115 34 82	124 27.8 86	95 -0.8 84	112 83 84	123 40.6 82	120 178 82	115 -37 81	103 12.0 82	87 6.6 84	117 -9.3 82	116 44.0 84	131 31 82	127 53 82	115 1.99 82	115 2.12 82	112 1.43 82
SP 230010 94948502 SP 230010	1	RD 170020 SP 200014		88 81	121 85	103 80	83 77	112 79	119 76	118 78	119 76	123 77	84 2.53 81	115 -0.63 79	119 37 77	121 26.0 85	103 1.7 80	114 88 81	118 37.3 78	122 188 77	118 -42 77	114 17.8 78	99 -2.7 80	114 -8.6 77	118 45.2 81	124 26 78	123 50 78	121 2.50 77	106 0.99 77	108 1.11 77
SP 230034 95259750 SP 230034	1	HH 170045 SP 130032		83 81	118 86	95 82	79 79	92 81	102 78	117 78	103 78	113 78	78 3.00 81	99 -0.04 79	125 43 79	118 24.7 86	95 -0.7 82	104 63 82	115 34.8 78	116 162 78	109 -30 78	112 16.8 79	86 7.0 82	105 -6.9 79	91 27.0 82	123 26 79	124 50 79	107 1.32 78	98 -0.04 78	100 0.40 78
SP 230053 95259941 SP 230053		SP 180045 SP 170084		108 81	111 85	126 82	85 79	107 80	124 77	112 80	122 78	117 79	106 0.63 82	105 -0.25 79	114 33 79	111 20.6 85	126 8.5 82	124 114 82	109 30.3 78	113 153 79	114 -37 79	114 17.7 80	108 -9.9 81	106 -7.1 78	98 31.9 82	99 11 80	108 33 80	95 0.32 79	125 3.39 79	114 1.53 78
SP 230082 95991964 SP 230082	1	HH 170045 HH 200035		89 81	113 86	81 82	89 79	87 81	92 78	107 78	92 78	105 78	90 1.94 81	102 -0.13 79	114 32 79	113 21.6 86	81 -4.9 82	92 34 82	111 31.5 78	108 131 79	99 -19 78	98 9.3 79	84 9.0 82	94 -4.5 79	97 31.1 82	115 21 79	114 40 79	106 1.30 78	98 -0.02 78	106 0.91 78
SP 230122 95992301 SP 230122	1	JH 190022 HH 190024		86 80	101 85	94 80	106 77	110 78	97 76	100 77	95 76	96 77	88 2.14 80	99 -0.02 78	92 12 77	101 15.4 85	94 -1.0 80	99 51 81	103 25.7 78	103 106 77	110 -32 77	108 14.6 79	108 -10.4 78	109 -7.7 77	103 34.9 80	103 14 77	102 27 77	110 1.63 77	89 -1.25 77	90 -0.42 77
SP 240013 97031330 SP 240013	1	JH 190022 SP 150098		86 45	120 71	99 53	81 28	131 41	124 51	127 30	125 47	124 28	79 2.94 48	107 -0.33 35	122 40 28	120 25.9 71	99 0.5 53	109 77 51	122 40.4 39	130 225 30	126 -51 27	117 19.6 44	122 -21.2 45	137 -13.3 27	102 34.2 50	121 25 34	122 48 32	123 2.70 29	102 0.41 27	90 -0.35 26
SP 240042 97031603 SP 240042	1	HH 170045 SP 170063		92 44	113 72	91 56	88 32	101 45	104 52	100 25	101 47	105 23	89 2.07 47	120 -0.86 33	114 33 32	113 21.9 72	91 -2.1 56	99 52 53	107 28.4 28	102 105 25	102 -22 23	103 11.9 28	93 1.5 52	110 -7.8 29	100 32.9 53	113 20 27	116 41 26	111 1.69 24	89 -1.20 22	109 1.15 21

Breeding Values and Accuracies: Bulls

Green: >120 High
White: 80-120 Average
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Inbreeding in red is high

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID	Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																														
SP 240067		HH 210003		88	131	99	79	113	129	127	129	133	89	102	126	131	99	117	128	130	128	126	105	116	108	121	127	133	106	114
97427249		SP 210091		44	66	40	24	31	45	26	41	36	2.05	-0.16	44	31.7	0.6	97	44.8	222	-53	24.3	-7.6	-9.0	38.7	25	54	3.50	0.96	1.54
SP 240067													48	27	24	66	40	43	28	27	23	30	35	18	40	41	40	37	34	33
SP 240070		CVF02022		103	116	97	97	119	124	116	122	118	103	101	102	116	97	111	118	120	119	118	109	121	109	121	122	122	99	106
97379804		SP 210120		81	84	81	78	80	76	78	76	78	0.85	-0.10	21	23.4	-0.3	80	37.3	182	-43	20.2	-11.1	-10.2	39.1	24	48	2.57	0.09	0.88
SP 240070													81	80	78	84	81	81	78	78	78	79	81	78	81	79	79	78	78	77
SP 240071		HH 190033		88	119	129	80	107	126	132	127	134	90	99	121	119	129	132	119	134	135	135	108	99	110	122	123	110	122	101
97379812		SP 210126		80	85	81	79	80	77	80	78	79	1.98	-0.04	39	25.2	9.5	131	37.9	242	-61	29.5	-10.0	-5.5	39.5	25	49	1.62	3.03	0.51
SP 240071													80	79	79	85	81	82	78	79	80	80	80	78	81	80	80	79	79	79
SP 240084		SP 210076		85	113	119	80	131	124	124	124	126	88	96	121	113	119	119	117	127	124	115	130	120	112	118	119	104	109	119
97961460		HH 180032		81	85	81	78	80	77	78	77	78	2.15	0.07	39	22.0	6.5	100	36.0	209	-49	18.5	-27.8	-10.0	41.3	23	45	1.10	1.36	1.99
SP 240084													82	79	78	85	81	81	78	78	78	79	80	78	81	79	79	78	78	78
SP 240090	1	FR 150090		86	101	108	101	105	99	119	101	107	91	89	97	101	108	108	109	124	126	106	102	103	106	105	105	107	81	90
97960959		SP 140073		54	72	60	28	48	55	45	53	41	1.88	0.35	16	15.2	3.3	75	29.9	198	-50	13.5	-5.6	-6.4	36.9	15	30	1.30	-2.25	-0.40
SP 240090													56	48	28	72	60	53	42	43	43	47	52	34	57	48	46	42	40	39
SP 240096	1	FR 150090		82	107	92	99	99	94	115	95	106	87	92	100	107	92	100	112	122	125	87	96	100	103	100	105	114	80	97
97961007		SP 190084		51	71	56	29	44	53	44	51	40	2.27	0.25	19	18.4	-1.6	53	32.2	189	-50	3.3	-0.6	-5.7	35.3	12	30	1.94	-2.38	0.20
SP 240096													53	44	29	71	56	52	38	41	43	45	47	31	54	46	44	42	39	38
SP 240116		SP 210076		88	114	109	81	115	115	121	115	121	90	98	121	114	109	111	119	123	119	110	112	109	110	119	121	104	111	110
97961205		SP 210019		46	68	45	31	35	48	21	43	21	1.95	-0.01	39	22.3	3.3	82	37.5	193	-42	15.6	-13.7	-7.7	39.8	23	47	1.11	1.59	1.26
SP 240116													51	25	31	68	45	48	28	23	17	26	40	22	44	26	25	22	20	19
SP 240119		SP 210008		83	115	103	87	111	111	108	109	111	84	100	114	115	103	111	115	111	118	104	107	114	102	102	102	105	114	112
97961239		HH 150034		36	70	48	23	37	47	32	44	28	2.47	-0.06	33	22.8	1.8	80	34.9	142	-41	12.4	-9.5	-8.6	34.3	13	27	1.20	2.00	1.36
SP 240119													38	29	23	70	48	47	27	30	30	35	39	25	47	33	32	29	26	25
SP 240122		SP 210008		82	119	110	87	120	121	118	120	120	86	95	114	119	110	119	122	121	122	117	118	116	106	105	113	112	120	112
97961262		SP 210069		32	67	41	23	33	44	24	40	24	2.30	0.12	32	24.9	3.7	100	39.8	184	-46	19.4	-18.5	-9.0	36.8	15	38	1.74	2.77	1.43
SP 240122													34	23	23	67	41	44	22	25	21	30	37	20	42	29	28	25	23	22
SP 240138		HH 170045		92	107	103	84	88	96	114	97	111	89	115	117	107	103	103	107	113	113	113	82	97	101	114	115	101	100	101
97961411		HH 160019		45	71	57	31	43	52	23	46	19	2.04	-0.64	36	18.5	1.8	61	28.7	153	-35	17.4	10.8	-5.1	33.7	20	40	0.84	0.24	0.54
SP 240138													48	34	31	71	57	53	28	25	19	28	49	26	54	27	26	20	18	18
SP 250011	1	JH 190022		89	106	113	85	111	108	118	109	116	91	98	116	106	113	110	108	120	116	119	111	113	96	122	120	115	103	92
98819295		FR 200125		42	69	46	25	36	48	26	44	23	1.87	0.02	34	18.1	4.8	79	29.3	179	-39	20.5	-12.8	-8.5	30.1	25	46	1.99	0.62	-0.25
SP 250011													45	32	25	69	46	47	38	27	23	41	39	21	48	30	28	24	22	21
SP 250013	1	JH 190022		86	117	106	79	130	123	122	123	123	87	104	125	117	106	111	115	126	127	125	131	126	101	114	121	124	108	99
98819311		SP 210127		45	68	45	27	37	48	28	44	26	2.25	-0.22	43	24.1	2.5	80	34.4	205	-52	24.1	-28.3	-11.1	33.6	21	47	2.74	1.20	0.35
SP 250013													48	34	27	68	45	47	37	27	26	42	43	22	46	31	29	28	25	25

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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																													
SP 250056 99299125 SP 250056	1	JH 190022 SP 210093	85 43	111 68	103 45	85 26	117 37	110 48	126 28	112 44	123 28	87 2.20 46	100 -0.07 33	117 35 26	111 20.8 68	103 1.5 45	106 69 46	113 33.5 38	127 211 29	124 -48 24	125 23.7 43	114 -15.2 43	116 -9.2 23	103 35.1 46	116 22 33	121 48 31	119 2.36 29	110 1.50 27	95 -0.02 25
SP 250057 99299133 SP 250057	1	JH 190022 FR 190051	93 45	106 71	88 51	101 30	117 39	105 50	117 26	106 45	112 27	94 1.60 47	99 -0.05 35	98 18 30	106 18.1 71	88 -2.8 51	96 45 51	108 29.2 37	120 181 26	121 -45 24	114 18.2 41	112 -13.3 41	120 -9.9 26	102 34.1 49	108 17 32	109 34 28	115 2.02 28	106 0.99 26	84 -0.84 25
SP 250063 99299190 SP 250063	1	FR 150090 SP 230037	80 51	120 69	107 54	76 29	116 44	116 52	127 41	118 50	121 38	77 3.08 53	89 0.36 42	128 46 29	120 25.4 69	107 2.8 54	112 84 51	123 40.8 36	133 235 39	127 -52 40	112 16.8 43	107 -9.5 51	117 -9.2 29	110 39.8 53	118 23 43	123 49 42	130 3.28 40	76 -2.83 37	99 0.38 36
SP 250064 99299208 SP 250064	2	SP 210076 SP 230020	85 43	125 67	106 42	81 18	115 33	125 46	125 22	125 41	128 23	78 3.00 48	105 -0.28 24	122 40 18	125 28.5 67	106 2.5 42	119 100 42	127 43.9 27	127 212 24	123 -47 18	111 16.2 26	106 -8.7 38	111 -8.0 19	118 45.2 41	129 29 27	127 54 26	114 1.88 24	110 1.46 22	112 1.39 21
SP 250069 99303539 SP 250069	1	HH 210001 IGB 220025	109 40	97 67	105 43	93 30	114 31	106 46	98 28	103 42	101 24	106 0.58 42	107 -0.35 34	107 26 30	97 13.1 67	105 2.3 43	99 51 47	99 22.2 27	102 105 27	112 -34 25	103 12.1 30	104 -7.3 34	105 -6.8 18	126 50.4 41	95 9 30	97 21 29	97 0.49 26	94 -0.63 23	112 1.36 23
SP 250076 99303471 SP 250076	2	HH 210001 HH 170039	90 35	118 67	109 47	83 23	107 33	117 45	124 27	118 41	124 24	89 2.07 37	109 -0.41 29	118 36 23	118 24.5 67	109 3.4 47	116 94 46	118 37.0 26	124 196 26	125 -49 25	120 21.5 29	100 -3.9 35	100 -5.8 19	120 46.5 44	119 23 29	120 47 28	114 1.96 25	101 0.28 22	111 1.29 22
SP 250079 99299299 SP 250079	1	FR 210070 SP 220137	82 29	115 64	111 41	88 15	97 33	108 41			114 16	84 2.52 30	96 0.09 25	112 31 15	115 23.2 64	111 3.9 41	118 97 40	115 34.4 21	121 186 21	118 -41 16	112 16.8 22	89 5.2 38	98 -5.4 20	112 41.3 41	118 23 23	119 45 22	116 2.08 17	87 -1.47 16	102 0.55 15
SP 250083 99303497 SP 250083	2	HH 210001 SP 210120	99 37	115 66	115 43	86 31	118 33	125 45	120 27	124 41	123 23	98 1.31 39	106 -0.31 29	114 32 31	115 22.7 66	115 5.2 43	119 101 47	115 34.7 26	123 192 25	125 -50 26	133 28.6 29	109 -10.7 38	112 -8.3 20	120 46.7 41	117 22 29	115 41 28	108 1.41 24	109 1.32 22	118 1.91 21
SP 250084 99299323 SP 250084	1	FR 210070 SP 210051	92 31	108 65	114 43	96 23	103 36	110 43	112 23	109 39	111 21	94 1.61 32	96 0.09 28	102 21 23	108 19.3 65	114 5.0 43	118 98 44	108 29.5 24	116 163 24	118 -41 20	108 14.8 27	94 0.9 40	105 -6.9 24	111 40.3 44	110 18 27	111 37 26	101 0.88 22	89 -1.27 20	111 1.29 20
SP 250086 99303505 SP 250086		HH 210001 SP 160029	84 37	123 69	119 49	79 23	103 36	122 47	129 30	123 44	131 26	82 2.69 39	103 -0.17 31	122 40 23	123 27.2 69	119 6.4 49	126 118 47	125 42.4 29	131 228 29	130 -55 29	128 25.8 32	94 1.3 40	101 -6.1 23	117 44.7 46	130 30 33	124 51 32	112 1.75 27	105 0.84 25	113 1.47 24
SP 250088 99303521 SP 250088	6	HH 210001 HH 170026	89 36	117 69	120 49	80 26	133 36	132 47	122 25	130 43	126 23	91 1.89 38	98 0.00 30	122 40 26	117 24.1 69	120 6.8 49	123 109 48	116 35.4 27	123 194 24	125 -50 23	131 27.2 27	121 -20.7 39	128 -11.5 23	121 47.5 45	118 23 28	119 45 26	110 1.60 24	99 0.04 22	124 2.35 21
SP 250090 6020186273 SP 250090	1	HH 210001 HH 180035	96 35	121 69	126 47	79 19	94 35	124 46	120 29	123 43	127 26	92 1.79 36	116 -0.68 29	122 40 19	121 26.4 69	126 8.7 47	131 130 45	117 36.4 29	123 194 27	121 -44 28	124 23.2 31	83 9.9 38	93 -4.3 23	120 46.5 44	117 22 31	124 50 30	127 2.98 27	93 -0.73 24	114 1.60 23

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID	ID Number Name	Calv. Ease V	Calv Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
SP 250091 6020186281 SP 250091		SP 210106 SP 190007		80 37	132 67	107 50	78 19	124 38	134 46	129 23	134 41	134 20	83 2.59 38	91 0.29 33	126 44 19	132 32.3 67	107 2.9 50	124 113 45	130 46.1 24	132 230 23	122 -46 20	132 27.7 26	118 -18.1 42	122 -10.3 27	110 40.1 46	133 32 27	133 60 26	129 3.12 20	106 0.94 19	114 1.53 18
SP 250092 6020583727 SP 250092		HH 210001 SP 210069		98 34	110 54	106 39	93 24	109 32	113 39	113 26	112 36	114 24	97 1.34 36	103 -0.18 27	106 25 24	110 20.1 54	106 2.7 39	112 82 39	113 33.5 26	116 164 26	121 -44 22	116 18.9 29	105 -8.1 38	103 -6.4 19	113 41.7 40	102 14 30	107 32 28	105 1.15 26	107 1.10 23	112 1.39 22
SP 250102 6020186380 SP 250102	1	SP 210106 GB 210008		84 44	125 67	102 45	81 24	111 33	121 47	131 27	123 43	130 36	85 2.42 46	102 -0.15 35	121 40 24	125 28.5 67	102 1.5 45	116 94 45	120 39.0 36	129 220 26	122 -45 25	126 24.4 30	98 -2.3 33	115 -8.9 22	114 42.2 44	131 31 29	129 56 28	125 2.83 37	99 0.04 34	105 0.81 32
SP 250107 6020186430 SP 250107	1	JH 190022 SP 200018		85 43	124 71	106 49	75 35	118 38	123 50	127 24	124 45	127 23	79 2.96 46	105 -0.25 33	130 48 35	124 27.7 71	106 2.5 49	114 89 52	120 38.5 36	130 222 24	125 -50 21	129 26.1 39	108 -10.5 44	122 -10.3 21	108 38.1 48	124 26 27	130 57 25	133 3.46 24	96 -0.30 22	96 0.10 22
SP 260002 6020186737 SP 260002	2	VV 170225 VV 230024		94 57	111 55	111 42	88 14	110 38	115 44	112 22	113 40	114 19	96 1.48 60	98 0.02 44	112 30 14	111 20.8 55	111 4.2 42	115 90 37	110 30.7 22	114 156 21	109 -31 20	108 14.6 23	96 -0.6 43	114 -8.6 25	115 43.3 46	113 20 24	113 39 23	102 0.96 20	118 2.49 18	107 0.98 17
SP 260005 6020186760 SP 260005	1	FR 150090 SP 210019		79 52	113 61	109 55	88 34	105 45	107 50	120 42	108 48	114 39	84 2.49 54	87 0.44 43	113 31 34	113 21.7 61	109 3.6 55	114 88 50	116 35.7 36	126 208 39	126 -51 41	105 13.0 43	105 -7.6 51	106 -7.0 30	99 32.5 53	109 17 44	116 41 42	119 2.35 40	75 -2.98 38	99 0.36 37
SP 260007 6020186786 SP 260007	2	FR 150090 SP 210021		81 52	114 59	125 50	89 22	108 44	117 48	119 42	117 47	116 40	87 2.22 54	89 0.37 44	109 28 22	114 22.3 59	125 8.5 50	129 125 44	118 37.3 36	126 208 39	124 -49 42	107 14.3 43	110 -11.5 50	105 -6.7 30	101 33.8 52	107 16 45	113 39 43	122 2.61 41	84 -1.82 38	99 0.35 37
SP 260008 6020186794 SP 260008	1	FR 150090 SP 180071		90 53	99 61	118 57	103 27	112 46	106 50	110 44	105 49	103 42	96 1.48 55	85 0.50 45	94 13 27	99 14.1 61	118 6.3 57	116 94 48	102 24.7 39	118 171 42	128 -53 43	105 13.3 47	112 -13.6 51	110 -7.8 32	100 32.8 54	96 9 48	99 23 46	101 0.89 43	80 -2.37 40	101 0.53 39
SP 260011 6020571326 SP 260011	6	JR 060002 SP 210080		89 54	120 58	104 56	80 42	113 51	120 51	116 44	118 50	121 34	93 1.75 55	94 0.17 49	123 41 42	120 25.8 58	104 1.9 56	112 84 52	120 38.2 45	118 173 45	115 -38 39	114 18.1 49	109 -11.0 56	121 -10.1 39	94 29.0 57	105 15 49	116 42 47	109 1.47 35	99 0.10 32	119 1.94 31
SP 260017 6020571383 SP 260017	4	SP 210076 SP 220038		82 50	120 56	114 42	79 21	114 36	120 44	127 28	121 41	126 27	81 2.72 54	96 0.10 32	123 41 21	120 25.4 56	114 4.9 42	119 101 40	126 43.0 31	129 218 30	123 -47 25	106 13.6 32	116 -16.6 39	105 -6.8 24	108 38.3 44	131 31 32	123 50 31	96 0.48 28	123 3.12 26	105 0.87 25
SP 260019 6020571409 SP 260019	4	FR 210070 HH 150032		99 27	105 54	98 49	99 14	82 34	94 38	111 23	95 35	106 18	100 1.14 28	100 -0.07 25	99 19 14	105 17.3 54	98 0.1 49	102 60 39	103 25.8 23	113 151 24	109 -30 20	100 10.3 26	76 15.1 37	89 -3.6 22	101 34.0 44	101 13 26	108 33 25	109 1.54 18	84 -1.83 17	105 0.84 17
SP 260020 6020571417 SP 260020	1	FR 210070 HH 190032		96 31	102 52	104 44	98 27	108 36	105 39	100 24	101 36	98 22	99 1.21 32	95 0.14 28	100 20 27	102 15.9 52	104 2.0 44	105 66 41	101 23.8 25	103 109 25	110 -32 22	96 8.5 28	110 -11.5 40	111 -8.0 24	93 28.5 43	92 7 28	97 21 26	93 0.20 23	86 -1.64 22	106 0.91 21

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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			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
SP 260023 6020571441 SP 260023	1	FR 210070 SP 200023	91 31	107 53	111 46	99 23	117 36	114 39	104 24	111 36	104 22	95 1.52 32	90 0.33 28	99 18 23	107 18.4 53	111 4.1 46	115 92 41	108 29.0 25	110 137 25	118 -41 21	102 11.2 27	117 -17.7 40	116 -9.0 25	100 32.9 43	102 13 28	101 26 26	91 0.05 23	92 -0.81 21	108 1.03 21						
SP 260024 6020573843 SP 260024	1	FR 210070 SP 200070	106 31	99 52	98 43	100 22	91 36	96 39	93 25	92 36	92 18	107 0.51 31	95 0.14 29	98 18 22	99 14.3 52	98 0.2 43	98 49 39	98 21.7 27	97 82 27	97 -16 22	91 5.4 28	95 0.5 40	91 -4.0 26	97 31.0 43	91 7 28	96 20 28	99 0.68 19	90 -1.12 18	99 0.36 17						
SP 260028 6020571482 SP 260028	4	FR 210070 HH 130016	93 31	112 55	99 50	100 17	102 37	108 40	113 22	107 36	110 22	96 1.47 31	94 0.17 29	99 18 17	112 21.1 55	99 0.3 50	110 78 41	112 32.8 24	118 171 23	120 -43 20	106 13.4 26	100 -3.5 40	103 -6.3 25	102 34.3 46	110 18 28	110 35 25	109 1.50 23	96 -0.30 21	102 0.56 20						
SP 260030 6020571508 SP 260030		JH 190022 SP 220015	82 45	112 59	96 41	90 25	103 36	102 44	122 27	104 41	118 28	85 2.36 48	95 0.12 33	111 30 25	112 21.5 59	96 -0.5 41	104 63 42	116 35.4 38	125 203 29	125 -49 23	115 18.8 43	100 -3.6 42	107 -7.3 22	99 32.2 45	109 17 33	114 39 31	115 2.03 30	110 1.52 27	92 -0.25 27						

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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																														
HH 130016 290872621 KELLY	 SP 100007  FR 100030	90 79	121 87	85 89	100 76	116 81	118 78	124 76	119 78	122 77	93 1.69 79	95 0.13 79	100 20 76	121 26.3 87	85 -3.7 89	107 71 84	122 40.2 77	128 216 77	130 -55 76	113 17.6 77	111 -12.7 82	114 -8.6 77	109 38.9 84	118 23 78	114 40 77	115 2.04 77	116 2.28 77	104 0.73 77		
HH 150032 291004059 MAXI	 SP 100088  HH 090008	103 80	107 87	84 88	99 77	76 81	91 78	121 78	94 78	114 78	101 1.05 80	108 -0.36 79	101 20 77	107 18.7 87	84 -4.1 88	93 37 84	104 26.1 78	119 175 78	108 -30 78	102 11.3 79	64 24.5 81	87 -3.2 78	108 38.3 83	99 12 79	110 36 79	116 2.11 78	92 -0.78 77	111 1.31 77		
HH 150041 291019487 MALUTI	 SP 110037  JF 090150	87 84	137 89	124 89	61 81	120 83	145 81	143 81	147 81	146 80	69 3.74 85	111 -0.49 82	148 65 81	137 35.1 89	124 8.0 89	132 132 86	139 53.3 82	145 287 81	136 -63 81	116 19.3 81	114 -15.2 84	118 -9.4 81	109 39.3 85	157 46 81	139 66 81	120 2.44 81	114 1.98 80	112 1.39 80		
SP 150058 291001972 GRANDEE	 LL 120206  SP 990086	88 82	113 88	113 89	88 78	96 83	109 80	107 79	107 80	114 78	88 2.12 82	104 -0.24 80	111 30 78	113 21.8 88	113 4.6 89	117 97 85	112 32.2 80	110 140 79	101 -21 79	111 16.5 79	86 7.7 84	104 -6.6 80	105 36.5 85	123 26 79	122 48 79	107 1.38 78	109 1.33 78	117 1.81 78		
HH 160019 291053403 NESTLE	 HJ 980104  VV 020128	90 82	108 85	119 88	92 77	88 80	103 78	124 78	105 78	118 77	87 2.26 82	119 -0.81 80	106 25 77	108 18.8 85	119 6.4 88	119 101 83	112 32.1 78	123 192 78	127 -52 77	123 22.6 79	81 11.6 80	92 -4.1 78	108 38.2 83	119 23 79	114 40 79	99 0.67 77	105 0.88 77	102 0.57 77		
OLG 160006 291050169 AGIE	 KT 100037  OLG 110003	87 83	102 83	139 86	83 76	104 79	109 77	108 76	107 77	105 76	92 1.77 84	87 0.43 79	116 34 76	102 15.6 83	139 12.5 86	126 117 82	104 26.0 76	110 139 76	106 -27 76	99 10.1 76	102 -5.8 79	98 -5.4 76	111 40.4 82	116 22 76	115 41 76	100 0.81 76	98 -0.10 76	109 1.15 75		
SP 160029 291031656 HIBISCUS	2 SP 110037 SP 070085	80 52	117 79	126 82	84 35	93 58	113 62	128 48	115 59	124 42	77 3.13 54	90 0.33 45	116 34 35	117 23.7 79	126 8.6 82	129 125 65	125 42.9 42	130 222 47	127 -52 46	109 15.1 52	92 2.9 65	93 -4.4 39	104 35.9 69	129 29 52	118 44 51	96 0.43 43	117 2.35 40	99 0.38 39		
SP 160034 291038784 HAWAII	1 SP 110037 SP 090010	86 52	119 79	85 84	95 41	120 60	114 63	107 44	112 59	109 40	88 2.12 53	97 0.03 46	106 25 41	119 24.9 79	85 -3.7 84	103 61 68	123 40.9 41	114 155 43	120 -44 41	90 4.9 48	109 -10.7 66	126 -11.0 46	107 37.9 69	111 19 48	104 29 46	101 0.82 41	104 0.69 38	94 -0.04 37		
SP 160068 291076321 HALLOWEEN	1 SP 110076 SP 110039	83 51	120 75	81 74	90 31	93 58	100 59	118 51	102 57	108 48	81 2.73 52	98 -0.01 46	112 31 31	120 25.6 75	81 -4.9 74	98 51 60	126 43.1 43	123 193 49	118 -41 48	99 9.9 54	88 5.5 65	96 -4.9 41	106 37.3 67	101 13 56	108 33 53	108 1.40 50	48 -6.44 46	83 -0.98 45		
SP 160069 291076339 HYUNDAI	JH 120035 SP 100008	105 53	104 76	80 75	110 35	99 54	98 60	82 44	92 57	83 40	100 1.09 54	115 -0.63 50	90 10 35	104 16.9 76	80 -5.3 75	90 30 62	97 20.7 41	80 8 47	68 18 38	77 -1.9 51	100 -3.6 55	100 -5.7 39	99 32.5 68	71 -5 51	88 12 49	75 -1.26 41	98 -0.07 38	110 1.20 37		
HH 170016 291095461 ODE	SP 110037 HH 130021	84 51	119 75	98 76	84 36	100 55	108 59	111 45	107 56	111 42	79 2.89 52	102 -0.15 46	118 37 36	119 24.9 75	98 0.1 76	108 74 62	118 37.0 39	115 158 43	119 -43 43	87 3.3 48	101 -5.0 59	104 -6.5 39	92 27.9 66	110 18 47	104 29 46	102 0.93 43	102 0.44 40	93 -0.14 39		
HH 170026 291108983 OPAL	SP 140020 HH 140038	82 49	113 79	126 82	80 42	150 55	136 62	119 34	133 56	122 34	89 2.05 51	83 0.60 41	120 39 42	113 21.9 79	126 8.7 82	125 114 68	114 33.8 36	120 179 34	121 -45 31	120 21.2 39	145 -39.3 64	148 -15.6 38	113 41.6 64	110 18 40	115 41 37	99 0.71 35	105 0.83 32	123 2.29 31		

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ID Number Name																													
HH 170039 291111755 OCTANE		HH 130032 HH 140001	88 47	110 69	106 77	89 35	101 49	105 55	120 40	106 52	114 35	89 2.10 49	103 -0.17 38	110 29 35	110 20.1 69	106 2.4 77	109 77 60	114 34.0 32	118 171 40	119 -42 36	96 8.2 44	104 -6.9 54	91 -3.9 30	110 39.7 62	109 17 44	115 40 42	104 1.12 36	108 1.26 34	96 0.10 33
SP 170013 291091619 IBIS	1	LL 120206 SP 120001	87 48	106 76	100 78	90 28	101 54	98 59	97 32	95 54	101 26	89 2.06 49	99 -0.03 42	110 29 28	106 18.2 76	100 0.6 78	102 58 61	105 27.1 36	102 101 31	92 -11 28	114 17.9 36	96 -1.0 55	105 -6.8 41	102 34.4 65	117 23 36	115 41 34	98 0.64 27	107 1.11 24	102 0.57 23
SP 170050 291098101 IMPALA		SP 110037 SP 070045	82 52	114 78	94 81	93 32	103 58	104 62	104 42	102 58	105 36	87 2.22 53	92 0.26 48	107 26 32	114 22.5 78	94 -1.0 81	105 67 64	117 36.0 38	110 140 41	122 -45 39	92 5.8 45	111 -12.4 65	93 -4.3 42	101 33.5 67	108 17 45	96 21 44	92 0.12 38	108 1.25 35	93 -0.11 34
SP 170063 291109155 ICON	1	HH 130004 SP 150022	101 82	103 87	98 87	108 78	114 82	109 79	85 80	103 79	92 79	98 1.27 82	127 -1.12 81	90 10 78	103 16.6 87	98 0.0 87	105 65 84	98 21.6 80	90 51 79	98 -18 79	92 5.9 80	108 -10.2 83	115 -8.8 80	108 38.4 84	104 14 80	103 28 80	107 1.38 79	82 -2.12 79	114 1.54 79
SP 170074 291111672 IMPULSE		SP 110037 SP 140006	98 47	105 75	78 77	96 37	107 58	97 59	91 40	93 55	90 37	99 1.23 48	98 -0.01 41	105 24 37	105 17.7 75	78 -6.0 77	85 17 63	105 26.8 36	97 83 39	105 -25 39	72 -4.9 43	111 -12.7 66	100 -5.7 44	103 35.0 64	94 9 43	83 6 42	82 -0.73 38	104 0.71 36	85 -0.83 35
SP 170078 291111714 IBEX		HH 130032 SP 070040	106 47	101 76	76 77	105 28	108 57	97 59	98 40	95 55	91 36	104 0.76 49	106 -0.30 40	95 15 28	101 15.3 76	76 -6.5 77	82 11 60	104 25.9 32	99 93 40	111 -33 37	82 0.8 44	115 -16.0 65	98 -5.3 39	103 34.7 66	80 0 45	88 11 43	99 0.67 38	97 -0.18 35	88 -0.56 34
SP 170087 291117398 IVORY	1	SP 140020 SP 140079	90 49	100 74	107 72	100 38	101 56	98 58	105 35	97 53	99 34	96 1.47 51	85 0.53 43	97 17 38	100 14.9 74	107 2.9 72	107 70 61	97 20.7 37	104 114 36	113 -35 30	111 16.4 41	95 0.2 65	108 -7.4 39	101 33.6 64	89 6 42	92 16 40	77 -1.10 36	96 -0.38 33	121 2.12 32
SP 170099 291147346 IMBIZO		JH 120035 SP 090007	97 85	117 89	93 89	101 81	120 85	121 81	104 82	117 81	105 82	93 1.72 85	115 -0.65 83	98 17 81	117 23.8 89	93 -1.3 89	110 79 86	114 33.7 82	105 119 83	94 -13 82	92 6.1 83	107 -9.1 86	127 -11.4 83	107 37.9 87	92 7 83	107 32 83	111 1.64 82	93 -0.67 82	100 0.45 82
HH 180010 291156248 PANACHE		CJ 130025 HH 100006	104 83	82 88	90 88	140 79	95 83	82 80	77 80	76 80	69 80	103 0.87 83	104 -0.24 82	67 -12 79	82 5.0 88	90 -2.2 88	85 17 85	91 16.4 80	79 6 80	84 -1 80	71 -5.3 81	107 -9.2 84	74 -0.5 81	110 40.0 85	73 -4 80	79 1 80	81 -0.83 80	90 -1.08 80	98 0.24 79
HH 180020 291175792 PARMA	1	LL 140017 JH 150067	112 82	96 86	104 87	93 78	105 81	102 78	98 78	99 78	92 80	112 0.08 82	98 0.02 80	107 26 78	96 12.3 86	104 2.0 87	97 46 84	95 19.5 80	101 97 78	93 -11 78	82 0.7 79	93 1.4 82	111 -8.0 79	109 38.9 82	121 24 79	105 30 79	89 -0.14 80	112 1.79 79	100 0.45 79
HH 180035 291187979 PINNAQUIN		JH 140070 HH 090008	100 80	116 86	140 86	84 77	74 81	119 78	109 79	116 78	117 78	95 1.51 80	117 -0.72 78	115 33 77	116 23.7 86	140 12.9 86	141 153 83	112 32.6 78	113 150 79	107 -29 79	98 9.6 79	70 20.3 82	76 -1.0 78	109 39.3 82	101 13 79	116 42 79	126 2.88 78	92 -0.80 78	103 0.64 78
HH 180039 291188019 PIPER	1	JH 140070 HH 100021	93 42	108 73	111 71	91 23	69 52	94 55	93 38	90 52	99 32	93 1.74 44	106 -0.30 34	108 26 23	108 19.1 73	111 4.0 71	113 85 56	108 29.0 38	97 84 37	95 -14 35	92 6.0 43	85 8.4 58	59 2.6 37	94 28.6 60	97 10 43	102 27 41	106 1.27 34	95 -0.39 31	99 0.35 30

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ID Number Name																															
HH 180048 291188100 PRIMROSE		SP 140020 GJV 080048		90 54	101 76	131 77	96 40	141 56	126 61	105 38	121 56	103 36	95 1.52 57	87 0.43 43	100 20 40	101 15.4 76	131 10.2 77	126 118 64	98 21.9 38	107 125 38	115 -38 34	110 15.7 44	138 -34.0 65	142 -14.4 39	97 31.3 64	103 14 45	102 27 42	75 -1.30 37	112 1.74 34	118 1.90 33	
SP 180049 291175545 JINGLES	1	JL 120005 SP 130005		81 53	132 76	81 78	92 38	93 55	112 61	129 30	114 55	126 24	85 2.40 54	92 0.23 48	109 28 38	132 32.0 76	81 -4.9 78	110 79 64	129 45.4 38	132 232 32	119 -42 25	106 13.5 40	81 11.4 56	107 -7.2 43	100 33.1 65	130 30 35	132 60 34	131 3.29 25	89 -1.19 23	106 0.91 23	
SP 180065 291175743 JAZZ		JH 140070 SP 110019		99 46	105 74	116 75	88 33	84 52	101 57	96 42	98 54	100 37	97 1.39 47	109 -0.43 40	111 30 33	105 17.6 74	116 5.6 75	113 86 61	106 27.8 40	99 92 41	98 -18 40	83 1.3 45	88 5.8 55	80 -1.6 39	104 35.6 61	101 12 46	102 27 44	99 0.67 39	102 0.45 35	100 0.42 34	
SP 180071 291188142 JEZABEL		SP 140020 SP 070100		107 50	93 76	116 76	110 38	119 56	111 60	94 39	105 56	95 35	107 0.47 52	96 0.09 42	87 7 38	93 10.9 76	116 5.5 76	111 82 63	90 15.3 38	99 93 40	117 -40 34	111 16.3 46	119 -19.1 64	115 -8.8 41	102 34.4 64	88 5 46	89 13 44	77 -1.12 37	104 0.69 33	116 1.71 33	
FR 190051 291223683 OLIVIA	1	SP 100007 FR 130094		90 47	113 75	73 76	119 36	106 54	103 58	115 34	103 53	111 34	93 1.71 48	95 0.13 42	83 3 36	113 21.9 75	73 -7.4 76	95 43 62	115 35.1 32	119 176 32	119 -42 31	103 12.1 37	100 -3.8 56	110 -7.9 41	102 34.1 64	109 18 41	106 31 35	101 0.88 35	119 2.58 33	94 -0.05 32	
FR 190086 291224020 OXANA	3	FR 150093 FR 140040		93 52	112 73	93 69	94 36	92 54	101 58	113 44	101 55	110 36	98 1.30 54	88 0.38 42	106 25 36	112 21.2 73	93 -1.4 69	103 61 59	117 36.2 38	118 172 41	106 -27 42	101 10.8 45	92 2.2 62	90 -3.7 37	103 35.1 62	109 17 46	115 41 44	127 3.03 38	71 -3.56 35	100 0.45 34	
HH 190010 291212900 QUADRI		KT 070013 FR 130001		85 54	116 69	85 76	94 23	100 54	102 57	104 32	100 52	100 26	82 2.62 54	105 -0.27 52	107 26 23	116 23.5 69	85 -4.0 76	99 53 56	117 36.3 34	107 127 32	111 -33 29	95 7.7 36	105 -7.6 58	98 -5.3 37	97 31.0 66	104 14 37	103 27 35	96 0.48 28	84 -1.89 25	94 -0.06 25	
HH 190024 291233641 QUAINT		HH 130004 HH 100021		94 52	97 74	99 70	129 40	95 53	95 58	78 41	88 55	81 36	92 1.79 54	109 -0.44 45	76 -4 40	97 13.2 74	99 0.4 70	105 66 61	98 21.5 43	82 18 41	94 -13 38	87 3.4 45	103 -6.5 53	90 -3.8 42	93 28.4 64	93 8 44	89 13 43	92 0.14 37	86 -1.56 35	104 0.72 34	
HH 190032 291233724 QUILT		SP 140020 HH 130021		97 50	102 72	97 69	96 48	129 54	111 58	98 38	107 54	98 38	99 1.19 52	96 0.07 44	103 22 48	102 15.9 72	97 -0.2 69	98 49 63	99 22.2 37	99 93 38	111 -33 34	95 7.7 44	131 -28.6 64	130 -12.0 36	92 27.4 62	82 1 43	89 13 41	84 -0.58 39	95 -0.40 36	112 1.43 35	
HH 190039 291238236 QUIP		SP 140020 HH 170016		88 50	111 73	105 70	95 40	130 55	120 58	108 38	117 54	109 38	92 1.82 52	93 0.21 44	104 23 40	111 20.6 73	105 2.4 70	113 85 61	110 30.9 38	111 144 38	123 -48 35	100 10.2 43	126 -24.5 63	136 -13.1 39	95 29.6 62	98 11 44	97 21 41	82 -0.74 39	105 0.81 36	115 1.61 35	
SP 190007 291213031 KERRY		20143156 SP 090019		83 47	128 69	110 76	83 22	130 53	136 55	123 27	135 49	125 21	87 2.22 49	93 0.21 40	118 37 22	128 30.3 69	110 3.8 76	126 118 56	130 46.2 27	126 206 27	118 -41 23	127 25.0 31	128 -26.2 63	125 -10.9 37	107 37.5 60	131 31 33	127 54 31	122 2.58 22	109 1.36 20	114 1.57 19	
SP 190016 291213130 KESTREL		SP 140020 SP 140077		83 48	116 76	107 77	89 38	148 57	131 60	117 34	129 55	121 32	89 2.02 50	86 0.45 42	111 30 38	116 23.6 76	107 3.0 77	116 93 64	118 37.3 36	120 182 35	123 -48 29	117 19.8 40	139 -34.9 65	149 -15.9 42	107 37.4 63	107 16 40	111 37 37	102 0.96 34	102 0.45 31	126 2.57 31	

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ID Number Name																													
SP 190040 291232122 KIMBERLEY		SP 140020 SP 160051	99 49	105 76	98 76	133 48	135 55	124 60	92 36	117 55	93 36	100 1.14 51	99 -0.04 43	73 -6 48	105 17.2 76	98 0.2 76	113 87 67	98 21.8 36	93 65 37	98 -17 33	92 6.3 42	126 -24.5 64	138 -13.6 40	105 36.3 62	78 -1 43	86 9 40	73 -1.46 37	99 0.06 35	110 1.22 34
SP 190043 291232155 KEG		JH 120035 SP 150070	93 50	106 74	101 72	101 42	102 55	103 59	96 44	100 56	97 38	90 1.98 51	113 -0.59 46	97 16 42	106 17.9 74	101 1.1 72	107 72 63	103 25.3 38	95 73 44	87 -5 41	79 -1.2 48	103 -6.5 62	103 -6.3 38	96 30.6 64	89 6 49	97 21 47	84 -0.53 40	102 0.51 37	95 0.01 36
SP 190071 291238301 KIT		KT 070013 SP 100009	84 53	112 75	89 75	107 32	108 58	104 60	104 31	102 54	98 26	88 2.14 54	95 0.13 50	92 12 32	112 21.0 75	89 -2.5 75	104 65 61	113 33.6 34	106 122 32	105 -26 26	85 2.1 37	120 -19.8 65	94 -4.5 44	98 31.9 65	99 11 37	102 27 36	96 0.45 28	82 -2.13 25	99 0.33 24
SP 190073 291238327 KSENYA		SP 140020 SP 170048	88 51	117 71	103 65	94 39	136 54	128 57	116 38	126 53	119 38	92 1.82 53	92 0.25 44	105 24 39	117 24.2 71	103 1.7 65	116 94 58	114 34.2 38	120 181 38	131 -56 35	107 14.4 43	138 -34.2 64	133 -12.6 37	95 29.6 61	113 20 44	107 32 42	83 -0.59 39	116 2.31 36	122 2.21 35
SP 190074 291238335 KACE		SP 140020 SP 090007	80 51	132 76	124 77	91 47	150 57	148 61	132 36	147 56	138 34	80 2.85 53	90 0.32 44	107 25 47	132 32.5 76	124 8.0 77	146 167 67	133 48.3 38	137 251 38	134 -60 32	128 25.5 43	141 -36.3 66	152 -16.4 41	110 39.6 64	125 27 44	129 56 41	117 2.20 36	106 0.99 33	130 2.89 32
SP 190075 291257913 MUMARA		LL 120206 SP 110039	97 48	98 74	87 73	102 27	89 55	85 57	92 33	83 52	91 28	98 1.29 49	98 0.02 42	98 17 27	98 13.8 74	87 -3.1 73	88 26 58	99 22.6 37	95 73 34	89 -7 30	93 6.7 37	85 8.3 64	97 -5.3 39	97 30.7 63	103 14 37	98 22 36	79 -0.98 29	110 1.50 26	98 0.29 25
SP 190081 291257970 KEREN		20143156 SP 050095	87 47	126 72	127 68	74 35	122 53	138 56	128 30	137 51	131 21	93 1.71 49	86 0.47 40	129 46 35	126 29.2 72	127 9.1 68	133 135 58	133 48.5 29	135 246 31	129 -55 27	130 26.7 34	131 -28.8 60	108 -7.5 38	101 33.4 61	127 29 35	123 49 34	124 2.78 22	114 1.99 20	110 1.21 20
SP 190084 291258002 KAYLEIGH		HH 130001 SP 130046	90 44	109 74	64 71	103 42	89 49	85 56	104 36	85 52	99 30	89 2.03 45	108 -0.40 39	98 18 42	109 19.5 74	64 -10.1 71	78 2 62	109 30.3 32	107 126 35	111 -33 33	73 -4.0 39	86 7.6 51	95 -4.7 38	99 32.4 59	96 10 38	100 25 36	102 0.92 31	104 0.66 29	107 1.02 28
FR 200053 291289445 OLENA		VV 140091 FR 160052	92 46	113 74	76 71	100 17	97 52	98 56			102 18	92 1.78 49	103 -0.19 36	101 20 17	113 21.8 74	76 -6.6 71	91 33 54	107 28.3 22	102 104 20	100 -20 15	109 15.2 22	104 -6.8 62	84 -2.5 34	108 38.3 59	107 16 23	102 27 22	98 0.61 19	98 -0.10 17	104 0.74 17
FR 200054 291289452 OLINDA	2	VV 140091 FR 160033	90 50	113 73	89 68	90 20	95 51	100 56	107 25	99 50	105 24	90 1.98 53	105 -0.26 39	112 30 20	113 21.8 73	89 -2.6 68	99 51 54	110 30.6 28	107 125 27	102 -22 21	103 12.0 29	112 -13.4 61	76 -0.9 33	101 33.5 58	110 18 30	109 34 29	101 0.89 25	76 -2.86 24	92 -0.20 23
FR 200077 291289676 OTYLIA		SP 160036 FR 140003	95 41	114 73	95 68	90 27	99 53	108 55	107 31	106 50	109 26	97 1.40 42	98 0.01 37	111 30 27	114 22.6 73	95 -0.9 68	104 65 56	116 35.7 32	112 148 32	115 -37 28	86 3.0 35	93 1.9 63	106 -7.1 35	100 32.9 60	103 14 35	105 29 34	98 0.62 28	108 1.22 25	105 0.82 25
FR 200125 291316891 NELLIE		SP 160019 FR 120033	91 40	101 62	127 62	90 23	95 46	103 48	104 32	101 45	106 20	95 1.50 41	89 0.37 34	108 27 23	101 15.5 62	127 8.8 62	120 102 49	107 28.2 34	106 119 34	100 -20 27	99 10.0 36	104 -7.0 50	93 -4.4 29	89 25.2 60	123 26 36	113 39 35	88 -0.26 21	112 1.70 19	105 0.86 16

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Index EBV Acc	% Inbreeding	Sire ID Dam ID	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
HH 200013		HH 130004		87	116	130	86	109	124	111	121	117	81	124	112	116	130	133	115	115	121	106	107	109	104	133	122	118	96	113
291275683		HH 150041		55	74	70	33	55	59	43	56	40	2.72	-1.00	31	23.3	9.8	135	34.5	158	-45	13.5	-9.3	-7.6	35.7	32	49	2.28	-0.28	1.51
RUTH													57	46	33	74	70	59	44	41	42	45	63	39	63	45	44	41	38	38
HH 200014		HH 130001		101	99	75	107	84	82	103	82	95	104	91	93	99	75	80	106	105	105	78	86	78	109	111	101	89	106	99
291275691		HH 140001		40	71	66	51	47	54	34	50	26	0.76	0.27	12	14.2	-6.9	5	27.7	117	-25	-1.5	7.3	-1.3	38.8	18	25	-0.16	0.98	0.33
RITZ													42	34	51	71	66	63	30	33	31	37	49	35	58	38	36	28	25	24
HH 200036		HH 160018		80	123	109	79	105	117	114	115	119	77	91	125	123	109	118	122	117	114	99	102	107	101	114	120	115	103	111
291305373		HH 120025		37	71	65	51	48	54	27	49	21	3.11	0.28	43	27.2	3.4	97	40.2	167	-37	10.0	-5.6	-7.1	33.8	21	46	2.02	0.54	1.28
RYE													38	32	51	71	65	62	30	28	24	30	58	30	55	30	29	22	20	19
JH 200012		DG 060046		87	123	85	67	102	107	112	106	109	91	92	143	123	85	95	122	110	105	129	84	109	119	116	119	97	85	95
291271500		JH 110065		70	75	74	55	54	64	48	61	44	1.87	0.24	60	27.3	-3.7	42	39.8	137	-26	26.1	8.6	-7.6	46.2	22	45	0.51	-1.72	0.03
2012													73	56	55	75	74	68	50	48	45	51	58	41	64	52	50	46	43	42
SP 200007	1	LL 120206		103	99	92	105	84	89	84	84	86	99	112	94	99	92	94	90	86	72	93	81	96	92	91	97	86	103	100
291271203		SP 170085		46	66	68	25	55	53	31	49	26	1.19	-0.55	14	13.9	-1.6	39	15.7	33	13	6.6	11.2	-4.9	27.4	7	21	-0.34	0.63	0.41
LADYBIRD													47	40	25	66	68	53	34	32	27	36	63	40	63	36	35	27	25	24
SP 200010		SP 110035		83	126	99	88	105	119	117	118	121	74	98	113	126	99	118	127	123	121	104	107	105	97	119	121	122	99	108
291271237		SP 170070		42	71	65	23	54	54	42	52	36	3.34	0.01	32	29.1	0.6	99	43.8	193	-45	12.4	-9.2	-6.9	30.8	23	47	2.57	0.04	1.05
LINDA													43	38	23	71	65	53	31	39	40	44	63	39	61	45	43	38	34	33
SP 200014		SP 080037		88	113	93	99	100	104	108	103	108	81	115	100	113	93	106	111	108	106	98	95	103	105	108	110	100	111	105
291271294		SP 170093		53	72	71	24	54	57	36	53	30	2.73	-0.65	19	21.9	-1.5	68	31.8	127	-27	9.4	0.4	-6.3	36.2	17	36	0.74	1.57	0.86
LINDY													55	47	24	72	71	56	34	35	33	38	62	39	62	39	38	32	29	28
SP 200018	1	HH 170045		83	122	115	75	105	119	115	118	119	81	100	129	122	115	120	119	117	115	112	101	109	102	116	124	114	97	112
291271336		SP 140065		44	75	72	55	51	58	22	51	20	2.75	-0.05	46	26.6	5.4	104	37.9	170	-37	16.8	-4.4	-7.5	34.6	22	50	1.94	-0.24	1.38
LIZZY													47	34	55	75	72	67	28	24	19	27	65	28	59	26	25	21	19	17
SP 200023		SP 140020		86	112	111	97	147	130	108	125	110	92	87	101	112	111	119	112	113	127	105	147	140	105	101	97	80	108	116
291271393		SP 170050		51	75	74	39	55	59	38	55	36	1.79	0.45	20	21.0	3.9	100	32.5	149	-51	13.2	-41.1	-13.9	36.1	12	22	-0.86	1.25	1.69
LIMA													53	44	39	75	74	63	37	37	34	42	64	40	62	43	41	38	35	34
SP 200028	2	HH 130001		82	113	93	94	112	106	112	105	110	88	89	106	113	93	103	117	116	109	94	103	115	107	119	116	121	97	112
291275782		SP 140077		38	74	72	30	52	55	31	50	24	2.14	0.36	25	21.6	-1.4	62	36.1	165	-30	7.0	-6.5	-8.9	37.9	24	42	2.54	-0.18	1.36
LUNA													39	33	30	74	72	59	28	30	29	34	61	37	58	33	32	26	23	23
SP 200037		JC 160095		88	122	90	93	84	105	127	108	122	76	113	108	122	90	109	121	125	113	120	72	101	100	134	125	109	105	106
291275873		SP 140036		34	73	70	49	49	54	24	48	18	3.19	-0.57	27	26.9	-2.4	75	39.3	201	-35	21.0	18.8	-6.0	32.8	33	52	1.48	0.78	0.88
LILAC													35	30	49	73	70	64	32	30	16	33	57	35	56	33	32	19	17	17
SP 200052		HH 130032		88	118	101	63	122	116	118	115	116	87	110	148	118	101	100	115	116	112	103	129	112	99	109	118	105	120	103
291296499		SP 110043		48	73	68	40	55	57	44	54	38	2.24	-0.45	65	24.3	1.0	55	34.8	164	-34	12.1	-26.6	-8.2	32.5	17	44	1.17	2.71	0.65
LEGACY													50	42	40	73	68	60	36	43	41	47	64	39	61	47	45	39	36	35

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ID Number Name																													
SP 200054		HH 130001	114	82	71	137	85	73	82	70	69	118	83	71	82	71	65	86	85	83	59	102	73	92	89	78	74	98	88
291305530		JH 110047	46	70	56	28	50	53	32	49	28	-0.43	0.60	-8	4.6	-7.9	-31	12.4	33	0	-12.1	-5.4	-0.3	27.8	6	1	-1.39	-0.08	-0.58
LUCY												48	39	28	70	56	51	38	32	28	36	60	32	57	36	35	29	26	25
SP 200070		JR 060002	116	96	85	101	95	93	84	88	87	115	97	99	96	85	84	93	87	84	84	101	91	99	80	87	95	104	99
291305696		SP 140006	49	71	67	36	57	57	40	54	28	-0.22	0.06	18	12.7	-3.9	15	18.0	38	-1	1.5	-4.6	-3.9	32.2	0	10	0.39	0.65	0.34
LA-DI-DA												50	45	36	71	67	58	42	42	35	45	65	43	62	45	44	29	27	26
SP 200073		HH 130001	104	96	73	117	93	85	90	82	84	106	93	84	96	73	78	101	96	101	66	89	96	105	97	89	88	100	97
291305720		SP 160034	42	73	68	53	52	57	36	53	30	0.57	0.19	4	12.3	-7.3	0	23.9	78	-21	-7.8	5.0	-4.9	36.4	10	12	-0.23	0.19	0.20
LETTISH												43	36	53	73	68	65	32	34	34	38	61	38	58	38	37	32	29	28
SP 200082		HH 160018	82	119	114	79	102	114	123	115	123	77	97	123	119	114	119	123	127	126	102	99	105	101	117	120	116	98	107
291305811	3	SP 130063	33	71	65	48	47	52	29	47	21	3.08	0.06	41	24.9	5.0	100	40.8	208	-51	11.4	-3.3	-6.8	34.0	22	46	2.05	-0.02	0.98
LIDO												34	29	48	71	65	61	28	30	26	33	58	30	54	33	31	22	20	19
GB 210008		JH 170053	89	127	97	82	103	120	138	123	132	78	118	121	127	97	114	121	133	124	126	84	114	114	141	134	128	96	100
291354017		HH 170010	66	71	64	36	36	56	38	52	62	3.02	-0.75	39	29.4	0.0	88	39.3	235	-48	24.7	8.6	-8.7	42.4	37	61	3.10	-0.30	0.40
2108												71	45	36	71	64	57	62	36	37	43	33	19	55	41	40	65	59	57
SP 210007		SP 180045	95	119	105	84	116	123	115	121	121	97	97	118	119	105	114	117	118	118	123	127	104	97	114	116	107	120	118
291319531		HH 180022	52	64	65	28	43	52	37	49	31	1.38	0.04	36	25.0	2.2	88	36.5	174	-41	22.7	-25.4	-6.7	31.0	20	42	1.34	2.71	1.91
SP210007												55	39	28	64	65	52	30	33	36	39	49	27	52	39	37	33	29	28
SP 210010		HH 170045	85	124	94	91	106	117			117	85	105	110	124	94	113	120	114	109	114	103	111	100	116	121	110	106	110
291333680		SP 180048	42	64	65	40	43	50			16	2.41	-0.25	28	27.9	-1.1	86	38.7	155	-30	18.2	-5.9	-8.0	32.8	22	47	1.59	0.96	1.26
SP210010												45	31	40	64	65	56	22	19	17	21	48	25	56	21	20	17	15	15
SP 210011		HH 170045	85	118	86	68	102	101	103	99	104	85	106	142	118	86	92	114	106	105	93	100	107	96	108	105	99	100	95
291333698		SP 170074	42	72	63	42	52	55	25	49	22	2.42	-0.28	59	24.6	-3.5	35	33.8	122	-26	6.7	-3.5	-7.2	30.4	17	30	0.68	0.22	-0.02
SP210011												45	31	42	72	63	59	26	24	23	27	63	36	57	27	26	23	21	21
SP 210017		HH 170045	98	102	96	99	90	93	92	90	93	94	114	99	102	96	98	100	94	97	90	81	104	95	101	102	94	94	103
291333755	1	SP 170062	44	73	66	42	51	56	26	50	24	1.62	-0.61	19	15.7	-0.4	50	23.1	68	-16	5.1	11.2	-6.7	29.5	13	26	0.27	-0.52	0.65
SP210017												47	34	42	73	66	60	29	26	25	29	63	32	58	29	28	25	23	22
SP 210019		HH 170045	83	121	98	79	106	112	115	111	117	84	99	125	121	98	108	118	117	114	110	104	107	101	114	123	113	94	112
291333771	1	SP 140065	44	74	68	55	52	57	22	50	20	2.47	-0.01	43	26.1	0.2	74	37.4	168	-37	15.7	-7.2	-7.2	33.8	21	49	1.81	-0.53	1.36
SP210019												47	34	55	74	68	66	28	24	19	27	63	35	58	26	25	21	19	17
SP 210021		20143156	86	123	130	82	112	132	113	128	121	87	102	118	123	130	137	123	117	110	115	114	104	105	111	118	119	113	111
291333797		HH 180035	46	68	53	20	49	51	28	46	25	2.19	-0.16	36	27.4	9.7	145	40.5	168	-32	18.5	-14.9	-6.7	36.3	18	44	2.33	1.80	1.34
SP210021												48	38	20	68	53	47	27	25	27	29	58	33	55	31	29	26	24	23
SP 210025		HH 170045	84	114	105	72	88	99			110	86	102	134	114	105	105	111	112	105	106	81	97	100	118	121	107	97	106
291333839	1	OLG 160006	49	71	63	42	48	55			16	2.36	-0.14	51	22.5	2.1	65	31.5	146	-26	13.7	11.5	-5.1	33.2	23	47	1.33	-0.20	0.94
SP210025												52	35	42	71	63	59	22	19	16	21	60	28	57	21	20	17	16	15

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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																													
SP 210042 291332203 SP210042	6	SP 080037 SP 170099	94 54	108 70	88 57	113 25	121 55	111 55	97 38	106 52	96 32	92 1.83 56	110 -0.47 47	86 6 25	108 19.0 70	88 -2.8 57	102 59 51	105 27.3 34	98 88 36	92 -10 35	86 2.9 40	113 -14.1 62	129 -11.6 39	99 32.1 63	91 7 41	101 26 39	101 0.82 34	95 -0.39 31	98 0.28 30
SP 210051 291341576 SP210051		SP 140020 SP 150060	90 50	112 73	117 66	98 39	113 54	120 57	116 35	118 53	115 34	92 1.82 51	98 -0.01 44	99 19 39	112 21.3 73	117 5.9 66	125 116 59	112 32.1 36	117 166 35	121 -45 31	110 16.0 40	101 -5.0 64	118 -9.5 37	110 39.8 61	107 16 41	108 33 39	92 0.07 35	100 0.26 32	120 2.02 31
SP 210059 291341659 SP210059	1	SP 140020 SP 150058	86 50	113 73	125 67	93 38	116 55	123 57	110 36	120 53	116 34	90 1.97 52	92 0.22 44	104 23 38	113 21.8 73	125 8.3 67	131 128 59	112 32.2 38	113 150 36	117 -40 32	115 18.7 41	106 -8.5 65	125 -11.0 39	101 33.7 62	108 17 42	110 36 39	89 -0.14 36	109 1.30 33	128 2.67 32
SP 210067 291341733 SP210067		HH 170028 OLG 160012	89 54	111 72	137 66	86 42	99 47	118 57	113 40	116 54	117 32	90 2.01 57	103 -0.17 41	112 30 42	111 20.8 72	137 11.9 66	135 139 60	111 31.8 41	117 168 36	124 -48 39	118 20.2 42	91 3.5 59	107 -7.2 29	102 34.5 54	117 22 42	114 39 40	104 1.12 33	99 0.04 30	116 1.71 29
SP 210069 291341758 SP210069		JH 170074 SP 170078	93 44	107 71	97 59	101 34	109 48	105 53	111 34	104 49	109 38	96 1.46 47	94 0.18 34	98 17 37	107 18.3 71	97 -0.2 59	104 63 55	115 34.7 34	115 159 39	117 -40 26	98 9.6 44	111 -12.5 60	100 -5.8 30	108 38.2 55	91 7 45	101 26 43	98 0.62 39	122 3.03 36	102 0.56 34
SP 210072 291341782 SP210072		SP 140020 HH 140001	85 50	115 73	100 69	113 57	120 53	120 59	114 36	118 54	116 34	91 1.91 52	87 0.43 42	85 5 57	115 22.9 73	100 0.9 69	120 104 66	118 36.8 37	116 163 37	123 -48 32	108 14.7 42	117 -17.3 63	116 -9.0 36	108 38.5 61	106 16 43	105 30 41	79 -0.92 36	113 1.85 33	119 1.94 32
SP 210080 291363737 SP210080		SP 140020 SP 160068	86 50	113 64	100 65	97 47	134 55	121 54	113 40	119 51	110 40	91 1.89 52	91 0.29 44	102 21 47	113 21.9 64	100 0.7 65	111 80 59	115 35.0 38	117 167 40	123 -48 37	107 14.2 45	127 -25.7 64	135 -13.0 40	102 34.6 61	95 9 46	101 25 43	87 -0.34 41	78 -2.61 38	110 1.23 37
SP 210093 291363869 SP210093		JH 170074 SP 170064	81 45	116 71	104 59	87 26	106 49	110 53	124 37	111 50	125 36	85 2.45 47	94 0.15 35	113 32 26	116 23.3 71	104 1.9 59	112 84 52	121 39.5 38	125 201 41	119 -43 29	115 18.7 45	108 -10.4 60	101 -5.9 33	104 35.9 54	116 22 46	121 47 44	101 0.89 38	126 3.50 35	112 1.42 32
SP 210105 291363992 SP210105		SP 060039 HH 170026	78 54	120 74	120 71	69 55	127 57	126 61	127 46	126 58	128 40	75 3.24 55	85 0.52 50	137 55 55	120 25.8 74	120 6.9 71	120 102 67	125 42.7 44	128 213 46	126 -51 43	107 14.3 49	124 -22.6 65	124 -10.7 43	106 37.1 62	128 29 49	121 47 48	90 -0.03 41	121 2.94 39	107 1.03 38
SP 210108 291364024 SP210108		SP 180045 SP 160028	89 51	122 72	109 60	74 42	99 50	116 56	114 40	115 53	120 34	92 1.80 54	95 0.12 37	130 48 42	122 26.5 72	109 3.4 60	115 90 58	124 41.6 32	120 182 36	128 -53 40	113 17.3 42	103 -6.0 61	93 -4.4 32	103 35.3 56	110 18 43	107 32 41	95 0.39 36	131 4.12 33	118 1.93 32
SP 210116 291364107 SP210116		VV 040074 SP 190019	97 54	112 71	98 56	98 27	99 54	108 55	104 32	105 50	104 29	101 1.06 55	91 0.30 50	100 20 27	112 21.0 71	98 0.1 56	108 75 51	112 32.2 32	108 129 32	109 -30 28	103 12.1 36	95 0.5 63	105 -6.9 39	97 31.3 61	101 13 36	104 28 35	95 0.40 30	92 -0.84 28	100 0.39 27
SP 210120 291364149 SP210120		SP 180045 SP 140073	95 52	117 74	113 67	89 53	122 50	129 58	121 40	127 54	122 33	96 1.48 55	101 -0.10 40	110 29 53	117 24.3 74	113 4.7 67	122 108 65	119 38.0 34	123 195 37	125 -49 38	130 26.6 42	118 -17.9 62	118 -9.5 32	110 39.8 55	114 21 43	114 40 41	100 0.80 35	125 3.43 31	114 1.52 30

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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																														
SP 210126 291366169 SP210126		SP 180045 HH 170039		85 50	126 72	124 66	84 51	121 47	136 57	127 39	136 53	131 34	88 2.18 53	99 -0.04 36	116 34 51	126 28.8 72	124 8.2 66	136 142 63	126 43.1 30	129 217 35	129 -54 38	126 24.7 41	120 -19.4 59	112 -8.2 27	112 40.9 54	117 22 42	123 50 40	112 1.79 35	130 3.99 32	116 1.73 31
SP 210127 291366177 SP210127	1	SP 180045 SP 160042		89 50	118 71	113 59	79 31	133 48	130 54	110 38	126 51	117 32	91 1.92 53	100 -0.08 38	124 42 31	118 24.6 71	113 4.6 59	117 96 54	116 35.3 30	115 158 34	122 -46 37	110 15.6 40	144 -38.7 61	118 -9.5 30	100 32.8 54	103 14 40	111 36 38	103 0.99 34	120 2.83 30	119 2.00 29
IGB 220025 94777844 IGB220025	1	KT 170008 K 160040		95 61	107 64	88 66	87 49	113 44	103 55	98 41	100 52	102 38	94 1.65 63	108 -0.38 54	115 34 49	107 18.7 64	88 -3.0 66	91 33 60	106 28.0 37	103 109 42	110 -32 36	89 4.6 46	101 -4.6 50	110 -7.8 27	122 47.8 56	96 10 46	101 25 45	101 0.82 39	97 -0.22 36	106 0.88 35
SP 220003 291389294 SP220003		HH 130004 SP 190034		88 51	111 70	119 62	98 34	90 51	108 55	94 44	104 53	103 40	87 2.21 53	127 -1.13 44	99 19 34	111 20.6 70	119 6.6 62	126 117 55	107 28.2 44	99 90 41	107 -28 43	94 6.9 45	94 1.0 62	87 -3.2 32	99 32.6 58	114 20 45	111 37 44	117 2.15 42	90 -1.14 39	107 1.01 38
SP 220010 291389369 SP220010	1	JR 060002 SP 190071		84 54	126 73	97 65	83 39	102 56	116 58	113 42	114 55	117 30	87 2.26 55	97 0.04 51	120 38 39	126 28.7 73	97 -0.3 65	113 85 59	123 41.1 44	115 158 44	107 -29 37	105 13.0 47	104 -7.1 65	101 -6.1 40	99 32.0 62	109 18 47	119 45 46	115 2.02 31	101 0.36 28	114 1.52 27
SP 220013 291389393 SP220013		VV 040074 SP 190074		87 53	125 71	106 59	95 30	128 53	134 55	118 30	132 50	120 29	92 1.83 54	91 0.28 49	103 22 30	125 28.6 71	106 2.4 59	126 118 53	126 43.5 32	123 193 32	119 -42 27	113 17.2 35	123 -22.4 63	127 -11.4 37	103 35.4 58	111 19 35	117 43 34	115 1.96 30	90 -1.03 28	103 0.65 27
SP 220015 291389419 SP220015		JH 170074 RS 140003		78 51	113 70	92 51	95 22	79 48	90 52	118 36	92 49	118 38	85 2.44 54	84 0.56 37	105 24 22	113 22.0 70	92 -1.7 51	104 63 48	122 40.0 35	123 195 40	123 -47 28	100 10.1 44	79 12.5 58	82 -2.1 30	99 32.3 56	104 14 45	108 34 44	96 0.44 40	126 3.58 37	107 1.01 35
SP 220018 291389443 SP220018		JH 170074 SP 150098		82 45	120 70	105 53	88 26	130 49	126 52	125 36	126 49	126 38	80 2.83 48	95 0.14 35	113 31 26	120 25.9 70	105 2.4 53	118 98 50	130 46.6 36	130 223 40	123 -47 27	106 13.8 44	123 -21.7 60	135 -13.0 32	102 34.0 55	113 20 45	117 43 44	102 0.96 40	128 3.77 36	109 1.19 34
SP 220022 291389484 SP220022		HH 170045 SP 180048		89 42	119 72	93 60	85 31	117 46	116 53			111 16	90 2.01 45	104 -0.22 31	117 36 31	119 24.9 72	93 -1.5 60	104 65 54	116 35.2 22	108 131 19	105 -26 17	109 15.3 21	118 -18.5 60	114 -8.6 25	100 32.9 54	109 18 21	114 40 20	104 1.08 17	105 0.89 15	109 1.13 15
SP 220024 291389500 SP220024		JH 170074 SP 130037		82 47	122 70	103 52	87 26	108 48	117 52	126 35	118 49	126 38	75 3.23 49	96 0.08 37	114 33 26	122 26.9 70	103 1.7 52	117 95 49	129 45.3 36	128 217 40	127 -51 26	106 13.8 45	104 -7.1 61	108 -7.4 27	105 36.2 55	107 16 45	118 44 43	105 1.16 40	126 3.55 36	109 1.13 35
SP 220029 291399764 SP220029		JH 170074 HH 130016		90 45	111 71	100 54	102 23	109 49	111 52	119 33	111 48	118 38	95 1.56 48	88 0.41 35	97 16 23	111 21.0 71	100 0.8 54	112 83 49	120 38.6 34	124 198 38	123 -47 24	109 15.1 42	110 -11.8 60	100 -5.8 31	111 40.5 55	104 14 44	108 33 41	101 0.81 39	131 4.20 36	108 1.08 34
SP 220038 291399855 SP220038		SP 060039 OLG 160006		79 58	110 70	114 61	81 33	108 55	107 57	116 44	107 54	114 38	82 2.62 60	89 0.38 52	120 39 33	110 20.4 70	114 5.1 61	113 86 55	116 35.6 41	118 173 44	116 -39 42	92 6.2 47	117 -17.2 62	94 -4.6 41	103 35.1 62	126 27 47	116 41 46	86 -0.42 39	117 2.42 37	99 0.35 36

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ID Number Name																													
SP 220041 291399889 SP220041	1	HH 170045 OLG 160012	86 46	125 71	102 61	80 30	96 46	115 53	114 24	113 47	118 15	74 3.32 50	108 -0.38 29	124 42 30	125 28.2 71	102 1.3 61	114 89 54	118 37.3 24	116 164 23	108 -29 22	111 16.1 26	90 4.5 60	105 -6.8 24	99 32.3 55	124 26 26	126 52 25	114 1.89 16	103 0.53 14	103 0.66 16
SP 220044 291399913 SP220044	1	JH 170074 SP 130032	82 46	107 70	110 53	95 26	118 49	109 52	114 34	109 48	110 34	89 2.08 48	86 0.47 36	103 22 26	107 18.5 70	110 3.8 53	113 86 50	115 34.5 38	118 171 40	115 -38 25	104 12.7 44	112 -13.6 60	124 -10.6 33	98 31.5 55	103 14 45	108 34 44	93 0.21 36	120 2.73 33	107 1.00 31
SP 220067 291400141 SP220067	2	RD 170020 SP 190035	87 46	120 69	114 56	77 18	100 44	116 51	113 26	115 46	119 24	82 2.63 48	110 -0.46 36	127 45 18	120 25.6 69	114 4.9 56	118 99 48	116 35.3 26	119 175 27	115 -38 23	106 13.8 30	100 -3.8 59	96 -5.0 24	107 37.7 50	116 22 31	120 47 30	126 2.88 26	94 -0.54 23	102 0.59 22
SP 220096 291411395 SP220096	1	HH 170045 SP 150042	89 44	109 71	93 58	91 31	85 49	92 53	102 24	91 47	103 20	90 1.98 46	102 -0.13 34	110 29 31	109 19.5 71	93 -1.3 58	99 51 53	107 28.4 26	106 119 25	101 -21 22	95 7.6 28	82 10.7 62	94 -4.6 28	96 30.4 56	105 15 28	109 35 27	102 0.95 21	99 0.12 19	103 0.70 18
SP 220097 291411403 SP220097		HH 170045 SP 190007	84 42	129 72	98 63	76 30	127 48	130 53	120 20	128 46	123 16	79 2.95 45	103 -0.20 31	130 48 30	129 30.4 72	98 0.1 63	113 85 55	125 42.6 22	122 188 20	112 -35 17	122 22.2 23	127 -25.4 62	124 -10.7 27	101 33.5 55	128 29 23	129 56 22	120 2.43 17	103 0.56 15	110 1.20 15
SP 220100 291411437 SP220100		HH 170045 SP 160010	86 43	120 72	88 56	85 35	103 50	108 53	112 28	107 48	112 23	87 2.27 46	103 -0.20 33	118 36 35	120 25.9 72	88 -2.8 56	103 61 54	121 39.6 28	117 167 28	118 -41 25	99 9.7 30	103 -6.4 63	106 -6.9 30	96 30.5 56	115 21 30	110 35 29	102 0.96 24	103 0.56 22	98 0.23 22
SP 220101 291411445 SP220101	1	HH 170045 JC 160109	86 42	120 71	106 55	71 31	104 49	114 52			112 18	73 3.43 45	109 -0.41 32	136 54 31	120 25.9 71	106 2.7 55	110 79 52	115 35.0 25	110 137 19	102 -23 15	109 15.2 24	96 -0.6 61	116 -9.1 30	95 29.9 56	118 23 22	123 49 20	116 2.05 19	94 -0.51 18	106 0.95 17
SP 220110 94464146 SP 220110		JR 060002 SP 160029	81 54	127 72	116 62	72 39	95 55	119 57	127 46	120 55	132 34	82 2.69 55	94 0.15 49	133 50 39	127 29.5 72	116 5.5 62	123 111 58	129 45.2 46	128 213 47	119 -43 41	118 20.2 50	89 4.9 65	101 -6.1 39	101 33.4 62	126 28 50	128 55 49	116 2.11 35	119 2.61 32	114 1.58 31
SP 220114 94464120 SP 220114	1	HH 170045 HH 190010	87 45	113 72	83 63	88 30	98 48	97 54	101 22	95 48	98 18	87 2.26 47	108 -0.40 35	114 33 30	113 21.6 72	83 -4.4 63	93 37 55	111 31.5 25	102 106 22	102 -22 19	96 8.1 25	97 -1.6 61	101 -6.0 27	97 31.2 55	102 13 24	105 30 23	96 0.44 19	89 -1.19 17	97 0.15 17
SP 220115 94464179 SP 220115	1	HH 170045 SP 100008	90 47	119 74	81 65	85 34	98 50	103 56	101 28	100 50	105 26	89 2.03 49	106 -0.31 38	119 37 34	119 25.0 74	81 -5.1 65	95 42 58	114 33.9 32	102 103 32	98 -17 21	100 10.5 35	92 2.5 63	106 -7.1 31	99 32.5 57	104 15 34	112 38 32	97 0.49 27	101 0.28 24	118 1.87 23
SP 220119 94464021 SP 220119		OLG 180018 HH 170031	96 43	100 66	99 47	101 22	96 38	95 47	100 40	93 46	95 34	95 1.56 45	105 -0.28 35	98 17 22	100 14.9 66	99 0.3 47	100 53 45	101 24.0 29	100 96 37	99 -18 40	79 -1.1 42	102 -5.3 40	92 -4.2 26	97 30.6 47	96 9 43	102 27 41	98 0.60 36	111 1.66 32	99 0.31 32
SP 220128 94471224 SP 220128	3	HH 160018 HH 180010	82 33	103 69	93 50	100 23	90 45	86 48	99 25	85 43	97 22	86 2.34 34	95 0.11 30	99 18 23	103 16.0 69	93 -1.3 50	97 46 47	108 29.2 24	102 102 25	106 -27 23	83 1.3 27	93 1.6 58	83 -2.3 26	106 37.2 52	96 10 27	101 25 26	98 0.59 23	95 -0.48 21	102 0.57 20

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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																													
SP 220132 94464096 SP 220132	1	RD 170020 HH 180009	84 47	111 71	91 59	98 30	94 45	97 53	104 22	96 47	104 20	85 2.38 49	101 -0.13 37	102 21 30	111 20.8 71	91 -1.9 59	102 60 53	110 30.8 26	109 134 23	110 -32 18	104 12.4 27	96 -0.4 59	87 -3.1 24	108 38.5 52	106 15 27	106 31 26	106 1.28 22	99 0.01 19	97 0.16 19
SP 220133 94464104 SP 220133	2	RD 170020 SP 140073	90 49	112 72	90 61	94 25	104 48	104 54	115 26	105 48	111 24	90 2.00 51	107 -0.33 40	107 26 25	112 21.5 72	90 -2.2 61	101 56 53	113 32.9 30	118 174 29	117 -40 21	114 18.1 32	94 1.3 61	106 -7.1 29	114 42.2 54	112 19 33	109 34 32	105 1.17 25	101 0.29 23	95 0.04 22
SP 220137 94712536 SP 220137	2	RD 170020 SP 180026	82 46	106 71	116 59	91 18	102 46	103 52	111 24	102 46	107 21	86 2.33 48	94 0.16 37	108 27 18	106 18.0 71	116 5.5 59	115 90 49	108 29.6 25	115 159 25	114 -36 20	105 13.4 29	95 0.0 60	100 -5.8 26	114 42.8 52	109 17 29	109 34 28	107 1.34 22	96 -0.28 20	98 0.27 19
SP 220140 94712569 SP 220140		RD 170020 DT 170290	93 41	110 59	98 49	91 15	102 39	105 44	108 21	104 39	108 18	93 1.71 43	105 -0.25 32	109 28 15	110 20.3 59	98 0.0 49	104 63 41	107 28.5 24	113 149 25	113 -35 14	108 14.7 29	95 0.4 41	103 -6.4 25	110 39.7 51	108 17 29	109 34 28	111 1.65 19	97 -0.13 17	99 0.33 17
SP 230012 94948528 SP 230012	3	RD 170020 FR 200050	84 45	128 70	92 49	79 19	117 45	122 50	122 24	122 45	126 22	83 2.58 47	101 -0.10 35	125 43 19	128 30.0 70	92 -1.5 49	110 78 46	125 42.3 24	127 210 25	122 -45 19	113 17.3 28	110 -11.9 60	118 -9.6 25	106 37.2 51	123 26 29	122 49 27	123 2.68 23	105 0.88 21	108 1.04 20
SP 230013 94948536 SP 230013		20164169 SP 200018	87 38	135 70	113 57	78 32	126 41	144 50			123 10	88 2.19 42	103 -0.20 22	125 43 32	135 33.8 70	113 4.6 57	133 133 53	134 49.2 21	120 182 12	113 -35 10	126 24.6 34	122 -21.5 57	120 -10.0 19	111 40.7 47	126 28 13	129 55 12	122 2.59 10	101 0.29 9	104 0.78 9
SP 230016 94948569 SP 230016	2	RD 170020 SP 200033	89 47	111 71	109 57	91 22	117 46	115 52	111 25	113 47	114 24	92 1.83 49	97 0.03 37	109 28 22	111 20.6 71	109 3.4 57	113 86 50	110 30.7 26	116 163 26	120 -43 21	110 15.7 30	107 -9.4 60	119 -9.8 26	111 40.7 51	108 17 31	109 34 29	101 0.85 25	104 0.70 23	107 1.03 22
SP 230019 94948593 SP 230019	1	JH 200062 JH 200012	84 50	135 67	85 49	77 32	95 44	118 51	118 28	117 46	120 38	81 2.77 52	103 -0.17 40	130 48 32	135 34.1 67	85 -3.7 49	109 76 49	135 50.4 38	118 170 30	114 -36 25	129 25.9 44	90 3.8 56	94 -4.5 27	110 39.7 50	115 21 33	118 44 32	113 1.81 39	104 0.71 36	102 0.62 35
SP 230020 95103826 SP 230020	2	HH 160018 SP 170063	85 35	114 71	101 59	91 25	105 45	108 50	103 27	105 45	107 25	82 2.65 36	106 -0.30 31	109 27 25	114 22.2 71	101 1.1 59	110 78 52	112 32.4 28	106 121 27	112 -34 25	93 6.4 30	99 -3.0 58	104 -6.6 27	111 40.3 50	110 18 29	112 38 28	110 1.57 26	91 -1.01 24	110 1.20 23
SP 230027 95103891 SP 230027	3	RD 170020 FR 200053	91 46	112 70	90 50	93 15	103 45	104 50	108 20	102 44	107 20	91 1.86 49	103 -0.20 36	108 27 15	112 21.3 70	90 -2.3 50	100 54 45	108 29.7 22	110 140 22	109 -31 15	110 15.9 25	100 -3.7 60	96 -5.1 25	114 42.2 50	108 17 26	106 31 24	107 1.37 20	97 -0.25 19	100 0.42 18
SP 230037 95259784 SP 230037	1	HH 170045 SP 140077	84 40	132 73	94 65	62 43	121 49	126 55	125 20	126 48	128 16	72 3.49 43	102 -0.15 29	150 67 43	132 32.1 73	94 -1.2 65	106 68 60	130 46.0 24	126 206 22	114 -36 16	120 21.4 24	109 -10.7 63	129 -11.6 29	107 37.5 55	128 29 22	133 60 21	131 3.35 16	96 -0.27 15	111 1.32 14
SP 230044 95259859 SP 230044	1	HH 170045 SP 170003	86 43	124 70	87 55	78 31	78 48	100 52	114 26	100 47	112 24	76 3.15 46	109 -0.41 32	127 45 31	124 27.9 70	87 -3.1 55	102 59 52	121 39.2 28	115 161 27	108 -29 23	104 12.7 29	69 20.9 62	92 -4.2 27	99 32.1 55	110 18 29	119 45 28	109 1.50 25	82 -2.18 24	97 0.15 23

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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																														
SP 230068 95689527 SP 230068	1	HH 170045 SP 200057		95 40	105 71	92 51	93 31	89 43	92 50	100 22	91 44	98 18	94 1.64 43	106 -0.29 28	108 27 31	105 17.4 71	92 -1.6 51	95 42 51	101 24.0 24	102 106 23	98 -18 19	95 7.7 25	90 4.1 52	96 -5.0 25	91 26.7 51	108 17 25	108 33 24	101 0.84 18	98 -0.06 17	103 0.70 16
SP 230079 95991931 SP 230079		SP 140020 SP 180065		99 49	105 73	112 65	96 49	124 51	118 57	102 38	114 53	106 36	100 1.07 51	97 0.05 42	102 21 49	105 17.3 73	112 4.4 65	113 87 62	104 26.5 38	105 116 37	114 -36 34	99 9.8 42	121 -20.6 62	119 -9.8 35	108 38.1 57	94 9 43	98 22 41	82 -0.72 38	105 0.83 35	118 1.92 34
SP 230080 95991949 SP 230080	1	SP 180045 SP 200047		86 50	127 69	116 48	69 33	123 45	133 52	118 36	131 49	126 31	88 2.17 53	100 -0.08 36	138 55 33	127 29.6 69	116 5.7 48	122 108 50	125 42.2 29	123 192 32	125 -49 36	120 21.0 38	131 -28.4 60	111 -7.9 24	103 34.7 51	115 21 39	120 46 37	109 1.54 33	120 2.77 29	120 2.08 28
SP 230081 95991956 SP 230081	6	SP 180045 HH 200017		80 53	131 72	130 59	99 50	131 47	148 56	126 40	146 53	133 34	82 2.64 56	91 0.28 39	97 16 50	131 31.5 72	130 10.0 59	152 182 60	129 45.5 33	130 223 36	133 -59 38	130 26.4 42	128 -26.3 62	128 -11.4 27	106 36.8 52	118 23 42	122 49 40	111 1.64 36	123 3.17 32	133 3.08 31
SP 230099 95992137 SP 230099	2	RD 170020 HH 170016		85 47	122 70	99 52	81 22	103 41	113 50	119 28	113 46	120 27	80 2.85 49	104 -0.23 38	123 41 22	122 26.6 70	99 0.5 52	110 79 48	119 38.1 27	124 197 29	123 -47 25	106 13.7 33	97 -1.3 46	108 -7.4 27	103 35.1 51	118 23 33	115 41 31	117 2.14 28	99 0.09 26	96 0.13 25
SP 230102 95992160 SP 230102		RD 170020 SP 190007		83 47	128 69	105 52	79 17	118 41	127 50	127 22	128 44	130 20	81 2.75 49	100 -0.06 37	125 43 17	128 29.8 69	105 2.3 52	119 101 46	126 43.3 23	131 229 24	123 -47 17	128 25.6 27	109 -11.3 48	119 -9.7 26	110 39.6 49	132 31 28	129 56 27	129 3.16 21	103 0.58 19	108 1.03 19
SP 230108 95992228 SP 230108	1	RD 170020 SP 190016		83 47	129 71	102 52	78 23	129 46	132 52	130 24	132 46	134 24	79 2.93 49	98 0.00 37	127 45 23	129 30.3 71	102 1.3 52	117 95 49	126 43.1 26	134 239 26	129 -54 19	128 25.7 30	115 -15.8 60	134 -12.7 27	112 41.2 52	126 27 30	128 54 29	125 2.85 25	100 0.18 23	115 1.66 22
SP 230113 95992277 SP 230113		JH 190022 SP 180090		82 46	116 71	111 51	89 29	110 45	115 52	121 28	115 47	119 28	85 2.44 48	97 0.05 36	110 29 29	116 23.3 71	111 4.1 51	119 101 50	114 33.8 38	124 197 28	126 -50 25	122 22.3 42	93 1.8 58	126 -11.2 26	105 36.3 50	111 19 32	116 42 30	115 2.01 29	101 0.27 26	100 0.45 26
SP 230124 96162953 SP 230124		JH 190022 SP 180074		83 42	116 71	97 50	89 25	118 37	113 49	119 25	113 44	113 24	86 2.28 44	96 0.09 32	112 30 25	116 23.4 71	97 -0.1 50	107 72 49	116 35.4 36	122 189 26	122 -46 22	107 14.4 41	115 -15.8 39	119 -9.7 25	101 33.4 48	108 17 30	111 36 28	116 2.08 25	98 -0.10 23	91 -0.29 23
SP 230125 96162961 SP 230125	1	RD 170020 SP 150022		92 49	117 71	94 54	86 19	91 47	105 52	112 23	104 46	116 22	92 1.81 51	103 -0.18 41	116 35 19	117 24.1 71	94 -1.2 54	104 65 48	113 33.4 26	117 169 27	116 -39 16	112 17.1 30	78 13.6 59	99 -5.5 29	113 41.6 53	116 21 30	117 43 29	115 1.97 23	95 -0.39 21	106 0.90 21
SP 230127 96162987 SP 230127	1	JH 190022 SP 190069		88 45	107 71	110 48	90 32	130 39	117 50	116 26	116 45	112 27	91 1.92 47	97 0.04 35	109 28 32	107 18.7 71	110 3.9 48	111 82 50	107 28.9 38	117 170 27	123 -47 24	119 20.6 42	125 -23.4 44	133 -12.6 24	98 31.9 48	106 15 32	109 34 29	111 1.68 28	99 0.01 26	100 0.41 25
SP 230128 96162995 SP 230128	1	RD 190059 SP 170095		94 41	105 69	88 46	103 14	86 39	91 47			95 14	93 1.68 44	104 -0.23 30	96 16 14	105 17.4 69	88 -3.0 46	95 43 43	101 23.9 22	100 96 20	93 -12 12	99 10.1 22	89 4.9 43	90 -3.8 25	93 28.0 48	100 12 22	102 27 21	97 0.55 15	96 -0.36 13	102 0.56 13

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ID Number Name																													
SP 230130 96163019 SP 230130	1	HH 170045 HH 190010	86 45	117 70	85 56	84 30	93 44	99 52	106 22	98 46	104 18	83 2.59 47	109 -0.41 35	120 38 30	117 24.0 70	85 -3.9 56	96 45 52	114 34.2 25	108 128 22	106 -27 19	101 11.0 25	92 2.3 51	101 -6.0 27	92 27.5 53	109 17 24	111 37 23	102 0.94 19	90 -1.13 17	98 0.28 17
SP 230131 96163027 SP 230131	1	JH 190022 SP 200075	90 43	115 70	91 46	89 29	108 36	108 48	115 23	107 43	110 23	88 2.11 46	109 -0.42 31	113 32 29	115 22.7 70	91 -2.1 46	101 56 48	115 34.5 36	117 169 24	120 -44 21	109 15.2 39	107 -9.0 42	110 -7.8 21	98 31.7 46	100 12 27	108 33 25	115 2.03 24	101 0.35 22	90 -0.38 22
SP 230153 96533286 SP 230153	3	JR 060002 SP 210022	86 53	122 69	114 57	72 40	113 51	124 55	120 43	123 53	125 32	88 2.14 54	101 -0.11 48	134 51 40	122 27.0 69	114 5.1 57	118 99 55	118 37.2 44	120 179 45	115 -38 39	115 18.4 48	110 -11.7 56	117 -9.3 37	98 31.8 59	112 20 48	125 51 47	118 2.22 34	113 1.86 31	118 1.86 30
VV 230024 95432167 230024	1	VV 170104 VV 130145	93 87	104 86	106 85	99 82	122 84	112 80	107 82	109 80	107 82	97 1.41 88	93 0.20 85	100 19 82	104 16.8 86	106 2.6 85	108 74 84	108 29.0 83	110 137 83	108 -30 82	111 16.1 83	115 -15.5 85	118 -9.4 83	114 42.6 85	104 14 83	104 29 83	100 0.73 82	121 2.89 82	106 0.88 82
VV 230252 96543335 VV230252	2	VV 170149 VV 190224	99 67	106 68	108 47	95 15	100 40	107 52			104 12	97 1.35 72	106 -0.31 47	104 23 15	106 17.8 68	108 3.3 47	110 79 43	103 25.6 20	108 127 19	100 -20 11	107 14.3 21	90 3.8 46	101 -6.1 27	114 42.4 48	106 16 19	108 33 19	105 1.20 13	96 -0.30 12	96 0.08 12
SP 240001 96533344 SP 240001		JH 190022 SP 190038	85 43	115 71	106 49	86 30	115 39	115 50	119 26	115 45	117 26	87 2.19 45	98 0.00 33	115 34 30	115 23.0 71	106 2.7 49	113 85 50	115 35.1 38	122 188 27	120 -44 24	114 17.8 41	114 -14.7 44	116 -9.1 24	98 31.5 48	114 20 31	115 41 29	114 1.88 27	111 1.60 25	92 -0.26 24
SP 240002 96533351 SP 240002	1	JH 190022 SP 210011	86 43	121 69	91 46	76 31	114 38	113 49	116 24	113 44	113 24	81 2.72 46	107 -0.35 32	131 48 31	121 26.0 69	91 -1.9 46	101 57 49	116 35.8 36	118 173 24	117 -40 22	114 17.8 39	109 -10.7 44	121 -10.0 24	98 31.6 47	113 20 28	114 40 26	118 2.27 25	97 -0.14 23	86 -0.74 22
SP 240004 97031256 SP 240004		20164169 SP 210067	92 41	129 66	121 46	83 26	111 35	137 46	119 20	134 41	124 16	92 1.82 45	105 -0.26 25	117 36 26	129 30.4 66	121 7.1 46	138 148 46	129 45.6 26	122 188 18	118 -41 19	131 27.1 38	102 -5.6 42	115 -8.9 18	108 38.3 44	128 29 21	125 52 20	119 2.30 16	102 0.44 15	107 0.98 14
SP 240005 97031264 SP 240005		JH 190022 SP 170050	83 46	118 71	96 53	87 28	115 40	113 51	117 29	113 47	114 28	83 2.58 48	100 -0.08 37	115 33 28	118 24.6 71	96 -0.6 53	107 72 51	117 36.5 38	121 186 29	126 -50 27	114 18.0 43	114 -15.2 45	114 -8.6 26	100 33.0 50	114 20 33	111 36 31	116 2.08 29	101 0.39 27	85 -0.76 26
SP 240010 97031306 SP 240010		JH 190022 FR 200050	100 42	101 70	98 48	94 26	123 38	108 49	106 26	106 44	103 25	101 1.02 45	97 0.06 32	106 25 26	101 15.4 70	98 0.0 48	97 47 48	104 25.9 37	110 137 26	113 -35 23	101 11.2 41	124 -23.0 44	122 -10.3 23	97 31.0 48	99 11 30	101 26 28	108 1.42 26	103 0.57 24	92 -0.26 23
SP 240015 97031355 SP 240015	1	JH 190022 SP 200007	92 44	108 69	95 48	94 26	106 39	103 49	105 26	102 44	103 25	91 1.92 46	110 -0.46 34	106 25 26	108 19.1 69	95 -0.7 48	101 56 48	102 25.0 38	107 126 26	101 -22 23	113 17.5 41	100 -3.7 44	115 -8.8 25	96 30.2 49	103 14 30	109 34 28	111 1.70 26	99 0.05 24	88 -0.53 23
SP 240016 97031363 SP 240016		JH 190022 SP 200010	84 43	119 70	100 47	87 25	116 39	117 49	120 29	116 45	118 28	80 2.79 45	102 -0.15 34	114 33 25	119 25.0 70	100 0.7 47	111 81 47	118 37.1 37	124 198 28	123 -48 27	117 19.4 43	113 -14.4 44	119 -9.7 25	98 31.9 48	115 21 33	119 45 31	127 3.01 29	96 -0.26 26	92 -0.25 26

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ID Number Name																													
SP 240017 97031371 SP 240017	4	HH 160018 SP 210047	82 33	111 66	101 44	88 28	103 38	102 45	113 26	102 41	111 24	86 2.31 34	94 0.16 28	112 31 28	111 20.6 66	101 1.0 44	106 69 46	113 33.4 24	115 159 27	122 -46 24	92 6.1 30	106 -8.4 44	100 -5.9 23	99 32.1 47	101 12 29	107 32 28	102 0.95 25	99 0.04 23	103 0.70 23
SP 240023 97031421 SP 240023		SP 060039 OLG 160006	80 58	114 70	114 61	79 33	100 50	106 56	119 44	107 54	119 38	80 2.84 60	89 0.35 52	124 42 33	114 22.3 70	114 4.8 61	114 88 55	119 37.6 41	122 187 44	118 -41 42	96 8.1 47	103 -6.4 52	96 -4.9 39	101 33.9 59	130 30 47	120 46 46	90 -0.09 39	118 2.46 37	100 0.43 36
SP 240024 97031439 SP 240024		HH 160018 HH 180048	79 35	114 69	113 50	84 28	118 40	115 48	116 26	114 44	117 24	80 2.82 37	87 0.42 29	117 36 28	114 22.6 69	113 4.7 50	117 94 49	113 33.4 26	118 171 26	121 -45 23	105 13.1 30	115 -15.9 45	120 -9.8 26	99 32.0 48	114 20 30	116 41 28	97 0.55 25	106 0.96 23	113 1.46 22
SP 240026 97031454 SP 240026		20164169 FS 120281	90 38	119 67	118 50	87 15	109 33	125 45			108 6	91 1.92 42	103 -0.18 22	113 31 15	119 25.4 67	118 6.2 50	129 124 44	118 36.9 20	107 125 17	97 -16 7	122 22.2 37	104 -7.2 36	113 -8.5 15	102 34.2 48	116 22 19	115 41 18	114 1.93 6	103 0.56 5	104 0.76 5
SP 240030 97031488 SP 240030		VV 080131 HH 180010	96 54	98 71	89 59	123 36	91 48	90 55	84 40	85 52	84 40	94 1.61 55	107 -0.35 50	80 0 36	98 13.5 71	89 -2.6 59	95 42 55	99 22.7 44	88 44 42	85 -2 37	69 -6.5 46	93 1.9 52	86 -3.0 35	105 36.5 58	83 2 45	94 18 44	94 0.28 41	89 -1.16 39	92 -0.23 39
SP 240031 97031496 SP 240031		20143156 SP 210080	80 47	124 64	109 48	87 29	138 41	133 48	115 26	130 44	119 25	85 2.38 49	90 0.34 39	113 32 29	124 27.7 64	109 3.4 48	123 110 47	125 42.5 26	119 178 24	118 -42 25	120 21.0 28	138 -34.4 47	132 -12.4 26	101 33.8 50	108 17 30	111 36 28	101 0.82 26	106 0.91 24	115 1.65 23
SP 240033 97031512 SP 240033	1	JH 190022 HH 200006	88 46	108 69	105 48	94 25	113 36	109 49	118 28	110 45	112 26	90 2.02 49	101 -0.12 36	105 24 25	108 19.3 69	105 2.2 48	109 77 47	109 30.1 38	118 173 28	116 -38 25	117 19.7 42	110 -11.7 39	117 -9.3 22	98 31.6 48	111 19 32	115 41 30	118 2.21 27	101 0.39 25	89 -0.47 25
SP 240036 97031546 SP 240036	2	JH 190022 SP 200014	87 46	112 70	96 49	93 25	113 39	109 50	115 27	109 45	111 26	84 2.47 49	111 -0.49 36	107 26 25	112 21.2 70	96 -0.4 49	105 66 48	110 31.0 38	116 163 27	116 -38 25	113 17.6 41	108 -9.8 43	117 -9.4 25	102 34.3 48	109 17 31	113 38 29	115 2.03 27	102 0.50 25	90 -0.36 24
SP 240039 97031579 SP 240039		HH 190014 FR 130001	83 44	121 67	99 51	93 26	115 40	119 49	112 28	117 45	110 22	69 3.79 46	100 -0.06 36	106 25 26	121 26.4 67	99 0.3 51	116 92 48	121 39.0 32	113 152 28	117 -40 24	110 16.0 32	109 -11.1 43	120 -9.9 26	101 33.9 50	105 15 32	108 33 31	102 0.94 23	93 -0.73 21	113 1.45 20
SP 240044 97031629 SP 240044	4	HH 170045 SP 170078	97 42	108 72	81 56	91 31	97 45	95 52	100 24	93 46	97 22	95 1.58 45	109 -0.41 31	111 30 31	108 19.2 72	81 -5.0 56	88 25 53	107 28.3 24	101 100 25	104 -25 22	92 6.1 28	98 -2.3 53	101 -5.9 28	95 29.4 54	93 8 28	100 25 26	100 0.80 23	96 -0.30 21	94 -0.03 21
SP 240045 97031637 SP 240045		HH 170045 HH 150041	88 46	134 72	103 58	66 33	103 44	126 53	129 25	127 47	131 22	71 3.57 49	113 -0.58 32	143 60 33	134 33.4 72	103 1.6 58	116 94 54	130 46.7 28	130 223 25	121 -45 23	115 18.6 28	95 0.0 52	113 -8.3 27	98 31.5 54	139 36 27	133 61 26	118 2.21 23	105 0.85 21	108 1.08 21
SP 240053 97379655 SP 240053	1	JH 190022 SP 200019	92 46	109 71	107 50	92 29	130 40	119 51	119 28	119 46	116 28	94 1.66 48	99 -0.02 36	107 26 29	109 19.4 71	107 2.9 50	111 81 50	107 28.9 40	121 187 29	127 -52 25	119 20.7 43	127 -24.9 44	130 -11.9 26	100 33.3 49	108 17 33	111 37 31	106 1.28 29	103 0.64 27	98 0.28 26

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ID Number Name																													
SP 240054 97379663 SP 240054	1	HH 170045 FR 190051	89 42	113 71	80 56	96 35	96 44	97 52	107 22	97 46	106 21	90 1.98 45	103 -0.19 31	105 24 35	113 21.9 71	80 -5.4 56	93 38 54	112 32.2 24	110 137 22	107 -29 20	101 11.2 25	91 3.7 50	107 -7.2 28	94 29.1 53	107 16 26	108 33 23	101 0.83 22	107 1.07 20	97 0.21 20
SP 240068 97379788 SP 240068		VV 080131 SP 210105	83 54	131 69	100 57	79 44	106 49	124 55	120 44	123 53	126 42	70 3.68 55	100 -0.08 50	125 43 44	131 31.5 69	100 0.8 57	118 98 57	127 44.1 45	123 192 45	114 -37 40	98 9.0 48	97 -1.7 52	114 -8.7 37	103 35.0 57	124 26 48	128 55 47	111 1.64 43	106 0.97 41	100 0.40 41
SP 240074 97483176 SP 240074		SP 210076 SP 210130	86 47	125 67	105 42	89 25	119 33	128 47	124 26	128 43	124 24	86 2.32 52	107 -0.36 26	111 30 25	125 28.6 67	105 2.1 42	122 108 45	128 44.7 29	126 205 27	122 -46 22	119 20.5 30	115 -16.1 38	116 -9.1 19	106 36.8 42	120 24 31	116 42 30	100 0.74 26	125 3.47 23	114 1.55 22
SP 240076 97483192 SP 240076	1	SP 210076 SP 200052	85 47	121 69	108 45	70 25	121 36	122 48	126 28	122 44	126 27	85 2.37 52	106 -0.30 27	136 54 25	121 26.0 69	108 3.1 45	111 81 46	123 41.2 30	126 207 29	120 -43 24	110 15.7 32	122 -21.3 40	114 -8.6 24	106 37.1 44	120 24 32	123 49 31	105 1.17 28	124 3.26 26	107 0.99 25
SP 240078 97483218 SP 240078	1	SP 210076 SP 210129	85 46	127 57	106 41	78 21	113 35	126 43	126 22	126 39	127 22	80 2.79 51	105 -0.25 24	126 43 21	127 29.7 57	106 2.6 41	119 101 40	127 44.2 28	128 214 24	121 -44 17	111 16.4 26	107 -9.2 40	116 -9.0 20	104 35.4 44	125 27 27	125 52 26	113 1.85 23	113 1.84 21	110 1.22 20
SP 240080 97483234 SP 240080	2	FR 150090 HH 170026	80 53	106 72	125 60	92 29	129 46	117 55	118 44	117 53	111 42	89 2.06 55	78 0.78 45	106 25 29	106 17.8 72	125 8.2 60	122 109 54	111 31.9 38	123 195 41	127 -52 42	105 13.4 45	126 -24.6 51	126 -11.0 32	106 37.4 56	101 13 46	107 32 44	107 1.36 43	80 -2.36 40	104 0.71 39
SP 240085 97960900 SP 240085		HH 190014 SP 190043	86 45	116 67	100 49	101 29	117 39	117 49	105 30	114 45	107 27	75 3.28 47	107 -0.34 36	97 17 29	116 23.5 67	100 0.8 49	116 92 48	113 33.4 32	104 113 30	102 -22 27	96 8.4 33	115 -15.5 42	116 -9.0 26	103 35.2 48	100 12 33	106 31 32	95 0.36 28	98 -0.04 26	110 1.24 25
SP 240087 97960926 SP 240087	1	FR 150090 SP 200063	96 51	95 71	93 55	121 33	104 45	94 53	103 44	93 51	92 40	101 0.99 53	83 0.57 44	80 1 33	95 12.0 71	93 -1.3 55	96 45 53	104 26.4 38	112 148 41	120 -43 43	77 -2.2 45	110 -12.0 51	98 -5.4 30	99 32.5 54	93 8 46	90 14 44	99 0.71 42	79 -2.49 39	90 -0.39 38
SP 240089 97960942 SP 240089	3	IGB 200089 IGB 220025	94 51	113 65	83 42	94 26	102 32	103 47	104 30	101 44	106 34	93 1.73 55	108 -0.39 37	107 26 26	113 21.9 65	83 -4.4 42	96 43 44	108 29.7 30	109 135 36	113 -36 20	102 11.5 42	91 3.4 34	100 -5.8 21	120 46.3 42	96 10 43	98 23 40	93 0.22 36	129 3.97 32	106 0.91 31
SP 240094 97960983 SP 240094	1	FR 150090 SP 180065	89 52	101 71	119 57	95 26	95 45	100 53	108 45	99 51	102 42	93 1.71 54	91 0.27 44	103 22 26	101 15.4 71	119 6.6 57	116 92 51	107 28.7 39	114 157 42	117 -40 44	88 4.0 47	98 -1.9 49	92 -4.1 31	102 34.6 55	98 11 48	102 26 46	109 1.50 43	79 -2.53 40	92 -0.19 40
SP 240095 97960991 SP 240095	2	FR 150090 SP 160029	77 53	109 72	124 60	93 26	100 47	106 55	123 47	108 53	113 42	82 2.68 55	82 0.63 46	104 23 26	109 19.4 72	124 8.0 60	125 116 53	118 37.2 40	129 221 44	131 -56 46	101 10.9 49	99 -3.2 52	99 -5.5 32	102 34.5 57	112 19 49	109 34 48	107 1.31 44	86 -1.58 41	92 -0.22 41
SP 240097 97961015 SP 240097		FR 150090 HH 200036	78 50	117 71	114 54	86 33	105 44	113 53	122 42	113 51	117 39	78 3.01 52	84 0.56 43	114 32 33	117 23.9 71	114 4.9 54	121 105 53	120 39.0 38	128 214 40	127 -52 41	101 11.0 44	103 -6.1 49	106 -7.1 29	101 33.8 54	111 18 44	116 42 43	122 2.58 40	80 -2.43 38	99 0.35 37

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ID Number Name																													
SP 240098 97961023 SP 240098	1	FR 150090 SP 200073	91 51	97 71	98 55	110 33	100 45	92 53	103 44	91 51	92 40	97 1.34 53	83 0.57 44	88 8 33	97 13.1 71	98 0.1 55	99 53 53	105 27.1 38	111 144 41	118 -41 43	79 -1.2 45	98 -2.5 50	99 -5.7 31	103 34.9 54	95 9 46	93 17 44	102 0.93 42	78 -2.67 39	91 -0.32 38
SP 240100 97961049 SP 240100	1	SP 210008 JC 160109	84 33	125 69	126 47	72 21	114 34	130 45	116 20	128 40	120 20	71 3.61 34	101 -0.10 27	133 50 21	125 28.4 69	126 8.5 47	129 125 46	122 40.3 23	116 165 20	114 -36 19	120 21.3 27	110 -11.6 35	118 -9.4 22	100 33.3 46	117 22 24	122 48 22	122 2.56 21	105 0.89 19	116 1.74 18
SP 240103 97961072 SP 240103		FR 150090 HH 180044	79 55	109 71	112 57	96 31	109 47	107 55	116 44	107 53	109 42	87 2.27 57	82 0.61 47	102 21 31	109 19.6 71	112 4.3 57	117 95 53	113 33.1 40	123 193 42	129 -55 43	99 9.6 47	105 -8.1 52	115 -8.9 32	97 30.7 56	102 13 48	105 30 46	109 1.47 43	77 -2.78 40	106 0.88 39
SP 240106 97961106 SP 240106		FR 150090 SP 190040	80 53	112 71	108 58	107 31	120 46	116 54	113 44	114 52	106 42	86 2.28 55	89 0.37 45	90 10 31	112 21.2 71	108 3.0 58	121 105 53	112 32.2 38	118 173 42	121 -45 43	100 10.3 46	114 -14.7 51	123 -10.5 32	103 34.9 55	95 9 47	102 26 45	104 1.06 43	78 -2.64 40	99 0.37 39
SP 240107 97961114 SP 240107	1	VV 170002 GB 210008	85 56	127 70	103 51	86 28	114 37	126 52	123 28	125 47	125 50	84 2.48 60	104 -0.21 42	115 34 28	127 29.4 70	103 1.7 51	121 105 50	123 41.1 54	128 216 32	125 -49 20	118 20.0 37	100 -3.5 41	118 -9.4 22	117 44.6 49	129 29 39	125 52 38	125 2.82 52	108 1.19 48	124 2.35 47
SP 240111 97961155 SP 240111		SP 210008 SP 200028	81 29	122 69	108 46	85 21	121 35	124 45	116 24	122 41	118 19	82 2.65 31	93 0.21 23	116 34 21	122 26.6 69	108 3.1 46	120 102 45	123 40.6 20	119 178 22	116 -39 22	112 16.9 27	115 -15.5 38	123 -10.6 23	103 35.3 44	116 22 25	118 44 24	121 2.50 20	107 1.14 18	117 1.78 17
SP 240114 97961189 SP 240114	2	SP 210008 FR 200077	84 30	123 69	108 44	83 20	114 35	123 44	114 24	120 40	118 20	87 2.26 32	97 0.03 24	119 38 20	123 27.0 69	108 3.3 44	119 101 44	122 40.3 22	118 171 22	120 -43 22	109 15.1 27	109 -11.0 39	119 -9.8 22	100 33.0 44	108 17 26	112 38 25	110 1.61 21	113 1.85 19	114 1.53 18
SP 240120 97961247 SP 240120	1	FR 150090 SP 180090	80 53	105 71	123 58	100 27	109 47	109 54	116 44	109 52	110 42	89 2.10 55	80 0.72 46	97 16 27	105 17.6 71	123 7.9 58	125 116 52	110 31.2 38	123 195 42	128 -53 43	101 11.1 46	102 -5.1 52	115 -8.8 32	102 34.1 56	100 12 47	105 30 45	105 1.18 43	81 -2.24 40	104 0.76 39
SP 240123 97961270 SP 240123	1	FR 150090 SP 200082	79 49	112 71	117 54	88 32	104 44	109 53	124 43	110 51	117 39	80 2.79 51	86 0.48 42	111 30 32	112 21.1 71	117 6.0 54	120 103 52	119 37.5 36	131 226 40	132 -57 42	100 10.5 44	102 -5.4 50	105 -6.9 29	101 33.9 53	109 18 45	114 39 43	120 2.42 40	77 -2.73 38	97 0.16 37
SP 240127 97961304 SP 240127	2	FR 150090 SP 180074	80 50	108 71	109 57	98 23	108 44	105 53	116 42	105 51	106 40	88 2.11 52	79 0.74 43	100 19 23	108 19.1 71	109 3.4 57	114 89 50	115 34.4 36	124 196 40	126 -51 41	89 4.2 44	109 -11.2 47	104 -6.7 31	102 34.1 55	99 11 45	102 27 44	108 1.43 41	78 -2.58 38	96 0.08 37
SP 240128 97961312 SP 240128		JH 190022 SP 190016	82 45	118 71	102 51	84 29	138 40	126 51	124 26	125 46	123 27	85 2.43 47	97 0.03 35	117 36 29	118 24.7 71	102 1.5 51	112 83 50	117 36.6 38	126 207 27	127 -51 24	127 24.9 42	128 -26.1 45	142 -14.4 26	103 35.2 49	113 20 31	118 44 29	122 2.54 28	98 -0.01 26	102 0.59 25
SP 240130 97961338 SP 240130		HH 170045 SP 160046	87 43	121 71	90 55	80 32	98 45	107 52	111 26	106 47	111 22	83 2.62 46	111 -0.51 32	125 43 32	121 26.1 71	90 -2.3 55	102 59 53	115 35.1 26	113 151 26	112 -34 23	99 9.9 29	95 0.3 52	107 -7.1 28	94 28.7 54	117 22 29	114 39 28	103 1.01 23	100 0.21 22	100 0.40 21

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ID Number Name																														
SP 240132	1	HH 170045		85	114	92	89	85	95	102	94	102	80	104	112	114	92	102	111	104	102	102	91	86	90	108	111	102	99	100
97961353		HH 180009		42	71	54	30	43	51	20	45	16	2.83	-0.22	31	22.4	-1.6	59	31.7	113	-22	11.5	2.9	-2.9	26.3	17	37	0.96	0.04	0.43
SP 240132													45	31	30	71	54	52	26	20	18	22	51	26	53	22	21	17	16	15
SP 240134		JH 190022		86	116	92	90	123	115	115	114	112	87	102	111	116	92	104	117	119	123	109	114	129	103	111	110	116	99	85
97961379		SP 160034		46	72	53	30	41	52	30	48	29	2.25	-0.15	29	23.4	-1.6	64	36.2	176	-46	15.3	-15.2	-11.7	35.3	18	35	2.09	0.06	-0.81
SP 240134													48	36	30	72	53	52	39	30	28	44	45	28	51	34	32	30	28	27
SP 240135	1	HH 170045		99	101	82	95	86	84	98	83	93	100	100	106	101	82	84	103	99	97	85	85	89	98	103	101	90	100	99
97961387		HH 200014		40	71	53	38	42	51	22	45	18	1.15	-0.07	25	15.0	-4.7	15	25.2	92	-17	2.4	7.9	-3.6	31.6	14	26	-0.06	0.23	0.30
SP 240135													43	29	38	71	53	54	24	22	20	25	48	27	51	25	24	19	17	17
SP 240140	1	HH 170045		101	99	102	95	103	99	95	95	95	101	103	104	99	102	99	95	98	105	104	101	108	95	94	98	86	99	107
97961437		SP 180071		43	72	56	33	45	52	24	46	21	1.07	-0.17	23	13.9	1.4	51	19.6	88	-26	12.3	-4.8	-7.5	29.5	9	22	-0.40	0.10	1.03
SP 240140													46	31	33	72	56	54	27	25	21	28	53	28	53	28	27	22	20	20
SP 240141	4	HH 170045		90	109	105	81	108	106	109	105	106	89	107	122	109	105	104	105	109	109	102	107	114	94	105	112	100	100	104
97961445		SP 210022		43	69	53	34	43	50	24	45	22	2.04	-0.34	40	19.4	2.4	64	27.2	132	-30	11.6	-9.3	-8.6	28.6	15	38	0.77	0.21	0.72
SP 240141													46	30	34	69	53	52	24	24	22	27	52	26	51	27	26	23	21	21
SP 240144	1	JH 190022		90	105	101	96	104	102	111	101	108	92	99	103	105	101	104	106	115	115	107	102	108	99	105	109	116	99	90
98385826		SP 150042		46	71	53	26	40	51	28	46	26	1.83	-0.01	22	17.6	1.0	64	27.4	159	-37	14.2	-5.2	-7.5	32.1	15	34	2.08	0.04	-0.36
SP 240144													48	38	26	71	53	50	38	29	26	43	43	26	50	33	31	27	25	24
SP 240149	1	FR 200084		81	115	107	91	103	109	121	110	120	86	91	108	115	107	116	120	125	125	100	102	104	100	110	113	102	120	107
98385875		SP 220024		30	51	39	19	35	37	24	34	24	2.30	0.26	27	22.8	2.9	92	38.5	203	-49	10.2	-5.6	-6.6	33.3	18	39	0.96	2.78	1.00
SP 240149													31	25	19	51	39	36	25	26	19	29	40	22	43	29	28	25	23	22
SP 240150	2	FR 150090		81	114	125	89	109	118	119	117	116	87	89	109	114	125	129	118	126	124	107	110	105	103	107	113	122	84	99
98385883		SP 210021		52	59	50	22	44	48	42	47	40	2.22	0.37	28	22.3	8.5	125	37.3	208	-49	14.3	-11.5	-6.7	35.2	16	39	2.61	-1.82	0.35
SP 240150													54	44	22	59	50	44	36	39	42	43	50	30	53	45	43	41	38	37
SP 250001	1	HH 170045		100	100	78	99	86	83	95	81	89	101	98	102	100	78	81	99	97	92	83	91	89	91	101	99	91	97	95
98385941		SP 200054		42	60	49	31	42	46	22	41	18	1.05	0.02	21	14.4	-5.9	7	22.2	81	-10	1.0	3.4	-3.5	26.7	13	23	-0.01	-0.22	0.01
SP 250001													45	30	31	60	49	47	26	22	19	24	51	25	51	24	23	19	17	17
SP 250002		HH 170045		91	117	89	87	103	108	106	106	107	88	114	115	117	89	101	113	107	97	100	93	116	98	102	113	109	94	101
98385958		SP 170099		44	61	55	31	45	48	26	44	22	2.12	-0.60	34	24.0	-2.5	57	32.8	124	-17	10.1	1.5	-9.0	31.3	14	39	1.50	-0.51	0.53
SP 250002													47	32	31	61	55	49	26	26	22	29	53	29	54	29	28	23	21	20
SP 250003	1	FR 150090		81	98	113	102	101	94	111	94	99	89	81	95	98	113	110	106	117	121	94	104	97	101	98	101	105	76	92
98385966		SP 180026		51	61	56	24	46	49	43	48	40	2.09	0.66	14	13.5	4.6	79	27.4	169	-44	6.9	-6.9	-5.1	33.7	11	26	1.15	-2.86	-0.24
SP 250003													53	45	24	61	56	47	38	41	42	45	51	31	56	46	44	41	38	37
SP 250004	1	JH 190022		84	116	91	87	110	107	122	108	113	84	103	115	116	91	101	118	125	122	115	104	114	103	107	114	121	71	79
98385974		SP 160068		46	60	49	27	40	46	32	43	32	2.51	-0.17	34	23.3	-2.1	57	36.9	202	-46	18.7	-7.1	-8.7	35.2	16	39	2.51	-3.49	-1.25
SP 250004													48	36	27	60	49	45	40	32	30	46	45	26	50	37	35	33	31	30

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ID Number Name																													
SP 250006 98385990 SP 250006	7	SP 220039 SP 230013	87 29	131 64	112 41	76 22	104 31	129 41			123 12	80 2.80 31	110 -0.46 19	128 46 22	131 31.4 64	112 4.5 41	126 117 42	126 43.6 18	120 180 14	111 -33 13	119 20.6 22	97 -1.2 39	107 -7.2 17	108 38.8 38	122 25 16	128 55 15	124 2.76 13	98 -0.10 12	105 0.80 12
SP 250007 98819253 SP 250007		SP 210076 SP 220010	83 49	127 67	105 44	81 24	112 36	124 48	123 27	124 44	126 24	84 2.52 53	100 -0.07 31	122 40 24	127 29.4 67	105 2.2 44	119 101 45	129 45.6 32	125 204 29	117 -40 23	111 16.1 32	110 -11.7 40	108 -7.5 24	106 36.8 45	121 24 32	123 49 31	109 1.54 25	115 2.07 23	112 1.41 22
SP 250008 98819261 SP 250008		7457 SP 220003	89 40	133 65	114 40	80 22	92 34	128 44	120 22	127 40	128 20	86 2.31 44	116 -0.67 25	122 40 22	133 32.6 65	114 5.0 40	130 127 42	129 45.5 23	124 198 21	121 -44 22	117 19.4 23	90 4.4 41	100 -5.8 18	95 29.5 44	133 32 23	131 58 22	130 3.22 21	100 0.26 20	110 1.26 19
SP 250009 98819279 SP 250009	2	FR 150090 SP 210009	87 51	105 57	105 53	89 29	95 43	96 47	113 42	97 46	105 40	90 1.94 53	94 0.15 43	111 30 29	105 17.3 57	105 2.2 53	104 63 46	107 28.4 36	117 169 40	116 -39 41	96 8.1 44	94 0.9 47	101 -6.0 28	94 29.2 53	99 12 44	106 31 43	108 1.45 41	78 -2.66 38	92 -0.21 37
SP 250012 98819303 SP 250012	1	FR 200084 SP 220022	95 29	107 64	103 42	95 21	108 34	108 42			105 16	98 1.32 30	94 0.16 23	104 23 21	107 18.6 64	103 1.8 42	108 73 42	109 30.0 20	109 133 19	110 -31 16	94 7.4 21	111 -13.0 39	105 -6.9 21	98 31.9 42	103 14 21	104 28 20	95 0.33 17	109 1.38 16	105 0.86 15
SP 250014 98819329 SP 250014	3	SP 210008 SP 200023	81 34	128 69	115 46	82 24	138 36	140 46	121 26	138 42	127 23	79 2.91 36	93 0.19 27	120 38 24	128 30.0 69	115 5.2 46	129 124 46	125 42.9 24	124 199 24	129 -55 24	125 23.7 30	134 -30.5 39	138 -13.6 24	102 34.6 45	115 21 29	117 42 27	108 1.43 24	114 1.93 22	121 2.10 22
SP 250016 98819345 SP 250016		JH 190022 SP 210055	95 46	102 69	103 47	98 29	130 39	113 49	107 28	110 45	104 28	97 1.36 48	96 0.10 36	101 20 29	102 16.0 69	103 1.5 47	103 63 48	103 25.8 38	111 142 28	121 -45 25	110 15.6 42	129 -26.5 44	130 -11.9 24	99 32.3 48	96 10 32	98 22 30	98 0.59 29	100 0.26 27	93 -0.11 26
SP 250019 98819360 SP 250019	2	FR 200084 SP 220023	84 30	113 51	106 38	92 18	94 34	104 37	118 24	105 34	117 24	89 2.05 31	90 0.32 24	107 26 18	113 21.7 51	106 2.6 38	114 88 36	118 37.4 24	124 197 26	120 -44 19	100 10.3 29	93 1.7 39	97 -5.2 21	98 31.4 41	108 17 29	112 37 28	101 0.87 25	111 1.56 23	104 0.76 22
SP 250021 98819386 SP 250021	1	JH 190022 OLG 160006	83 50	113 69	118 51	82 25	115 36	116 50	120 23	115 45	115 24	85 2.41 53	98 0.00 38	119 37 25	113 21.6 69	118 6.1 51	118 98 48	111 32.0 36	122 188 23	118 -41 21	118 20.4 39	110 -11.6 39	116 -9.1 20	106 36.8 49	119 23 27	121 47 25	120 2.46 25	96 -0.29 23	93 -0.12 22
SP 250024 98819410 SP 250024	1	JH 190022 JH 200018	94 51	108 71	91 50	101 33	112 38	106 52	107 30	104 48	104 31	93 1.73 54	106 -0.31 40	98 17 33	108 18.8 71	91 -2.0 50	100 54 51	105 27.3 42	109 132 31	107 -28 27	107 14.2 45	106 -8.4 40	116 -9.1 26	103 34.9 49	101 12 35	108 33 33	113 1.81 32	94 -0.62 30	81 -1.08 30
SP 250030 98819477 SP 250030	1	JH 190022 JH 150067	99 52	115 72	93 52	84 30	112 39	114 52	113 30	112 48	110 38	100 1.13 55	99 -0.04 40	119 37 30	115 22.8 72	93 -1.5 52	101 56 51	116 35.7 46	116 165 30	115 -37 28	103 12.1 44	101 -4.4 42	118 -9.5 24	109 38.8 50	120 24 34	115 41 32	126 2.87 40	90 -1.04 37	90 -0.38 36
SP 250031 98819485 SP 250031		JH 190022 HH 180048	86 46	110 71	115 51	89 30	134 40	122 51	116 28	120 46	112 28	89 2.09 49	98 0.03 35	110 29 30	110 19.9 71	115 5.2 51	116 94 51	106 28.1 39	118 174 28	122 -46 25	122 22.3 43	128 -26.1 45	138 -13.6 25	99 32.2 49	110 18 33	112 38 31	106 1.28 29	103 0.62 26	98 0.23 26

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																														
SP 250034 98819519 SP 250034		JH 190022 SP 170074	100 44	99 71	92 51	97 29	118 40	101 50	98 28	98 46	92 28	100 1.12 47	100 -0.09 34	102 22 29	99 14.0 71	92 -1.8 51	91 31 50	100 22.8 38	103 106 28	110 -31 27	92 6.0 43	119 -18.9 45	114 -8.6 27	102 34.1 49	92 7 32	89 13 30	97 0.55 29	98 -0.03 27	78 -1.39 26	
SP 250035 98819527 SP 250035		SP 210008 SP 200014	86 35	127 69	106 45	84 19	115 35	128 45	118 25	126 41	123 21	75 3.27 37	107 -0.34 28	117 35 19	127 29.6 69	106 2.6 45	123 109 44	124 41.6 23	120 178 23	118 -41 24	119 20.6 28	108 -10.5 38	119 -9.6 23	102 34.7 45	116 22 27	120 46 26	115 2.02 22	115 2.06 20	115 1.63 19	
SP 250036 98819535 SP 250036	3	SP 210008 SP 190086	82 34	126 68	114 45	82 24	125 36	132 45	121 26	131 41	125 24	79 2.88 36	96 0.10 27	120 38 24	126 28.9 68	114 4.8 45	126 118 46	124 41.7 24	123 193 25	125 -49 24	123 22.6 30	123 -22.0 39	126 -11.1 23	100 33.1 45	109 18 29	117 42 27	108 1.44 25	103 0.58 23	119 1.96 22	
SP 250043 98819600 SP 250043	1	JH 190022 HH 180010	90 45	104 71	93 51	104 25	111 39	101 50	104 27	99 45	97 26	90 2.00 47	107 -0.34 36	95 15 25	104 16.6 71	93 -1.3 51	99 52 49	106 27.6 38	106 120 27	109 -30 25	104 12.5 41	112 -13.1 44	105 -6.8 25	105 36.4 49	96 10 30	102 27 28	111 1.66 27	92 -0.77 25	88 -0.57 24	
SP 250046 98819634 SP 250046	3	SP 210008 SP 200019	91 34	111 69	121 46	92 24	132 37	127 46	112 26	124 42	114 24	94 1.59 36	92 0.24 27	106 25 24	111 20.5 69	121 7.0 46	124 112 46	111 31.4 26	115 157 25	123 -47 24	114 17.9 30	131 -28.8 39	128 -11.5 25	101 33.7 46	102 13 29	106 31 28	94 0.26 25	115 2.08 22	120 2.03 22	
SP 250047 98819642 SP 250047		SP 210008 HH 150021	91 33	109 70	103 50	93 20	117 36	112 46	100 23	108 41	101 18	93 1.72 35	97 0.03 26	106 25 20	109 19.4 70	103 1.8 50	108 73 47	107 28.2 23	102 105 23	102 -22 21	108 15.0 27	115 -15.9 38	119 -9.7 22	99 32.5 47	102 13 26	102 27 25	99 0.69 19	108 1.22 17	111 1.31 16	
SP 250048 98822596 SP 250048	1	JH 190022 SP 210010	89 43	113 67	98 47	91 30	117 35	113 47	113 22	112 42	111 22	89 2.04 46	105 -0.25 32	109 28 30	113 21.9 67	98 0.2 47	107 71 48	111 31.8 36	115 159 23	114 -37 20	117 19.8 38	113 -13.8 39	121 -10.0 20	100 33.1 46	108 17 26	113 39 24	116 2.10 23	100 0.15 22	92 -0.25 21	
SP 250051 99299075 SP 250051	1	JH 190022 HH 180020	97 46	107 71	101 51	89 27	116 38	110 50	112 28	109 46	105 30	97 1.40 49	103 -0.18 35	112 31 27	107 18.6 71	101 1.1 51	103 61 50	105 27.2 41	114 154 27	110 -32 25	107 14.1 43	106 -8.5 42	122 -10.4 24	104 35.8 48	117 22 32	112 38 30	112 1.73 31	103 0.63 29	88 -0.53 28	
SP 250055 99299117 SP 250055	1	JH 190022 SP 170063	97 47	108 71	99 51	97 27	121 40	113 51	104 29	110 47	103 28	92 1.78 49	117 -0.72 37	102 21 27	108 18.8 71	99 0.4 51	105 66 50	104 26.1 40	107 123 29	112 -34 27	110 15.7 43	114 -15.2 44	123 -10.6 26	104 35.8 50	106 16 33	109 34 31	119 2.31 29	88 -1.35 27	94 -0.03 27	
SP 250058 99299141 SP 250058		JH 190022 HH 150041	87 47	132 72	110 53	70 28	123 39	137 51	139 29	138 47	138 28	72 3.53 50	110 -0.47 36	137 54 28	132 32.5 72	110 3.7 53	122 108 51	131 46.8 40	141 270 29	134 -60 27	129 26.0 43	115 -15.6 44	127 -11.3 24	104 35.9 50	141 37 32	135 62 30	133 3.47 29	105 0.78 27	95 0.05 26	
SP 250060 99299166 SP 250060	2	SP 210076 SP 220064	84 45	126 67	107 43	78 22	107 34	122 47	124 21	122 42	126 21	81 2.78 50	102 -0.16 23	125 43 22	126 29.0 67	107 2.9 43	119 101 44	128 44.9 26	127 209 23	119 -42 17	111 16.6 25	103 -6.6 39	109 -7.7 19	103 34.7 43	126 28 25	124 51 24	105 1.14 22	120 2.77 20	108 1.11 19	
SP 250061 99299174 SP 250061	1	SP 210076 SP 220114	85 46	118 67	99 43	85 20	109 33	113 46	115 20	112 41	114 21	85 2.38 51	105 -0.27 25	117 36 20	118 24.6 67	99 0.4 43	109 76 43	121 39.4 26	118 171 22	114 -36 16	104 12.8 25	107 -9.5 39	108 -7.4 19	105 36.4 42	115 21 25	114 40 24	98 0.60 22	108 1.28 20	103 0.69 19	

Breeding Values and Accuracies: Cows

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Inbreeding in red is high

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Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
SP 250065		SP 210076	85	116	110	78	105	112	119	112	119	87	101	126	116	110	113	119	121	114	108	99	105	108	121	120	102	112	108
99299216		SP 210025	47	67	43	25	33	47	20	42	21	2.24	-0.12	44	23.5	3.9	85	37.7	185	-37	14.8	-3.3	-6.9	38.2	25	46	0.93	1.76	1.06
SP 250065												52	25	25	67	43	45	26	22	16	24	38	19	43	24	23	22	20	19
SP 250068	3	FR 210070	90	114	95	92	94	103	101	100	101	91	100	108	114	95	106	111	104	103	99	90	99	100	103	108	99	88	109
99299240		SP 220115	30	65	43	20	35	43	20	38	18	1.85	-0.07	27	22.3	-0.7	68	31.7	113	-24	9.7	4.3	-5.6	33.1	14	33	0.70	-1.31	1.12
SP 250068												31	26	20	65	43	43	23	23	17	24	39	22	43	24	23	18	17	16
SP 250071		HH 210001	95	113	108	94	106	115	106	112	108	92	113	105	113	108	116	110	107	106	106	101	105	109	102	105	97	97	108
99303547		SP 190043	37	68	45	26	35	46	28	42	25	1.82	-0.59	24	21.8	3.0	92	30.9	123	-27	13.7	-4.8	-6.7	38.8	13	30	0.56	-0.16	1.11
SP 250071												38	31	26	68	45	46	28	28	27	31	38	23	45	31	30	26	24	23
SP 250073	7	HH 210001	104	101	120	96	99	109	110	107	107	99	114	101	101	120	117	105	111	120	119	93	97	114	105	102	94	98	109
99303554		HH 160019	39	68	49	20	34	46	26	42	22	1.16	-0.60	20	15.5	6.7	95	26.8	142	-43	20.5	1.8	-5.1	42.3	15	27	0.30	-0.09	1.18
SP 250073												40	33	20	68	49	46	29	26	23	29	34	21	46	30	29	23	20	20
SP 250074	1	HH 210001	100	109	110	78	116	116	110	114	111	97	110	126	109	110	107	109	111	114	112	116	108	110	104	108	102	105	111
99303455		SP 200052	36	68	44	26	35	46	28	42	24	1.34	-0.44	44	19.8	3.8	71	29.9	142	-37	17.0	-16.5	-7.4	39.6	14	33	0.92	0.87	1.31
SP 250074												37	30	26	68	44	46	27	27	27	30	39	23	43	31	29	26	23	23
SP 250075	3	HH 210001	84	117	118	77	118	122	121	121	123	87	99	125	117	118	120	119	123	125	120	111	115	113	121	117	100	107	115
99303463		SP 210105	38	67	45	32	36	46	30	43	26	2.27	-0.01	43	24.2	6.2	102	37.8	191	-50	21.3	-12.9	-8.9	41.6	25	42	0.80	1.05	1.61
SP 250075												39	33	32	67	45	48	30	28	28	31	40	25	44	32	31	27	24	24
SP 250078	1	SP 220058	84	122	109	86	110	121	124	121	126	82	101	115	122	109	121	123	128	124	116	98	114	113	122	123	112	112	110
99299281		SP 230016	32	64	39	17	32	42	20	38	21	2.66	-0.11	33	26.6	3.6	106	40.9	216	-48	18.9	-2.2	-8.7	42.0	25	49	1.79	1.79	1.24
SP 250078												34	26	17	64	39	40	22	23	15	26	38	19	40	26	25	22	20	19
SP 250080	2	FR 210070	98	101	103	103	97	99	100	96	95	99	98	95	101	103	104	103	105	108	99	93	97	107	98	98	96	88	95
99299307		SP 220133	30	65	42	17	34	42	20	38	18	1.19	0.00	15	15.0	1.6	65	25.1	118	-30	9.7	1.7	-5.2	37.5	11	22	0.40	-1.38	0.04
SP 250080												31	27	17	65	42	41	23	22	17	24	38	21	42	24	23	18	17	16
SP 250081		JH 190022	89	109	101	101	124	115	115	114	112	92	96	98	109	101	110	110	117	122	115	119	123	105	104	107	102	103	96
99299315		SP 210072	45	69	48	36	39	50	27	45	27	1.81	0.09	17	19.6	1.1	78	31.1	168	-46	18.7	-19.3	-10.6	36.4	15	32	0.96	0.61	0.12
SP 250081												48	35	36	69	48	51	38	28	24	42	44	24	48	32	30	28	26	26
SP 250082	3	HH 210001	94	119	120	85	115	129	120	127	124	94	105	114	119	120	127	118	123	126	129	109	109	115	115	117	111	111	119
99303489		SP 210126	36	66	43	30	32	45	27	41	23	1.66	-0.28	33	25.0	6.9	121	37.3	191	-51	26.2	-11.2	-7.7	43.5	21	43	1.68	1.57	1.96
SP 250082												38	28	30	66	43	46	25	24	26	28	37	18	41	29	27	24	22	21
SP 250094	1	FR 210070	103	101	111	98	103	106	99	103	99	105	93	100	101	111	110	103	104	108	102	110	96	99	98	100	95	97	107
6020186307		SP 210007	32	63	43	18	32	42	24	38	20	0.70	0.20	19	15.3	4.0	78	25.3	114	-29	11.4	-11.8	-5.0	32.5	11	25	0.39	-0.18	0.96
SP 250094												33	26	18	63	43	41	22	23	22	26	34	21	41	26	25	21	19	18
SP 250095	1	FR 210070	97	97	104	107	92	94			90	99	95	91	97	104	104	99	99	103	92	95	87	104	93	94	94	86	96
6020186315		SP 220132	30	64	41	20	33	42			16	1.21	0.12	11	13.2	2.0	63	22.5	90	-24	5.8	0.3	-3.1	35.7	8	18	0.29	-1.54	0.07
SP 250095												31	25	20	64	41	42	22	20	16	22	38	20	41	22	21	17	15	15

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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																													
SP 250096 6020186323 SP 250096		SP 210106 SP 160034	87 39	119 68	97 52	91 26	118 41	119 48	110 29	116 44	112 26	91 1.85 40	91 0.26 35	109 28 26	119 25.2 68	97 -0.2 52	111 82 49	120 38.6 28	115 158 29	117 -39 27	103 11.8 32	111 -12.4 43	120 -9.9 30	105 36.4 49	110 18 32	109 34 31	106 1.22 27	102 0.47 25	101 0.48 24
SP 250097 6020186331 SP 250097		JH 190022 SP 210108	91 45	112 68	106 45	82 31	114 37	113 48	116 28	113 44	115 27	92 1.77 48	100 -0.07 33	120 39 31	112 21.5 68	106 2.4 45	108 73 48	114 33.6 37	120 181 27	125 -50 27	119 20.4 42	112 -13.5 43	112 -8.3 22	103 35.0 46	107 16 32	109 34 30	111 1.68 28	112 1.75 26	96 0.13 25
SP 250104 6020186406 SP 250104	2	SP 210106 HH 190010	85 39	118 67	96 50	90 20	108 38	112 47	110 24	110 42	109 21	88 2.12 40	95 0.11 37	111 29 20	118 24.7 67	96 -0.4 50	109 77 46	117 36.5 26	113 149 25	113 -35 22	106 13.8 28	108 -10.6 40	107 -7.1 27	100 33.2 48	107 16 28	109 35 27	105 1.18 22	92 -0.80 20	101 0.49 20
SP 250105 6020186414 SP 250105	1	SP 210106 SP 200028	86 34	116 68	101 48	91 22	113 38	114 46	113 24	113 42	113 20	92 1.84 35	87 0.43 32	109 28 22	116 23.4 68	101 1.0 48	111 82 46	117 36.1 24	116 165 24	111 -33 22	105 13.1 27	108 -10.3 41	115 -8.8 27	105 36.3 46	114 21 27	115 41 26	116 2.12 21	99 0.04 20	109 1.18 19
SP 250106 6020186422 SP 250106	2	FR 150090 SP 200037	81 49	105 71	107 56	101 32	96 44	97 53	118 42	99 51	107 38	86 2.30 51	92 0.23 43	97 16 32	105 17.5 71	107 3.0 56	112 83 53	111 31.6 38	122 189 40	121 -44 40	101 11.1 44	91 3.5 49	101 -6.0 30	101 33.9 54	109 17 45	107 32 43	108 1.47 40	80 -2.42 37	94 -0.06 37
SP 250109 6020186455 SP 250109		CVF02022 SP 230081	82 51	134 68	109 53	95 34	126 46	142 52	126 37	140 49	133 30	82 2.65 52	95 0.13 45	103 22 34	134 33.4 68	109 3.4 53	137 145 52	134 49.1 36	131 226 37	129 -54 33	123 22.9 42	116 -16.3 52	128 -11.5 33	109 38.9 54	127 29 42	133 60 41	134 3.54 32	101 0.38 29	120 2.02 29
SP 250113 6020186497 SP 250113	1	HH 210001 SP 170013	95 36	110 56	108 47	88 20	105 35	110 41	106 24	108 38	110 20	94 1.64 37	106 -0.28 30	112 31 20	110 20.0 56	108 3.1 47	110 79 41	108 29.7 27	110 136 23	108 -30 22	123 23.1 26	98 -2.4 36	105 -6.9 24	110 39.8 44	116 21 27	113 39 25	105 1.16 21	100 0.14 19	112 1.39 19
SP 250117 6020186539 SP 250117	1	FR 150090 SP 210116	85 53	108 60	109 51	98 24	102 45	105 49	115 43	105 48	108 40	92 1.78 55	83 0.60 47	100 20 24	108 19.2 60	109 3.6 51	115 90 45	113 33.1 38	122 189 41	124 -48 42	101 11.1 45	100 -3.8 51	105 -6.9 31	97 31.2 54	102 13 46	106 31 44	111 1.64 42	74 -3.14 39	93 -0.13 38
SP 250120 6020186562 SP 250120	2	SP 230010 SP 230079	98 35	105 64	110 42	93 26	119 34	115 44	105 22	112 40	108 22	97 1.33 36	104 -0.23 29	105 24 26	105 17.6 64	110 3.7 42	110 79 44	106 27.5 22	108 131 23	113 -35 20	101 11.1 26	112 -13.2 39	115 -8.9 22	116 43.5 40	103 14 26	105 29 25	96 0.43 23	105 0.85 21	112 1.40 20
SP 250124 6020186596 SP 250124		FR 150090 SP 190040	82 53	109 71	108 58	107 31	120 46	115 54	113 44	113 52	106 42	88 2.12 55	88 0.39 45	90 10 31	109 19.8 71	108 3.2 58	119 101 53	110 30.7 38	118 172 42	121 -45 43	100 10.2 46	114 -15.2 51	123 -10.5 32	104 35.6 55	95 9 47	101 26 45	103 1.04 43	78 -2.64 40	99 0.37 39
SP 250126 6020186612 SP 250126		JH 190022 SP 190074	83 45	123 71	112 51	87 33	141 40	137 51	130 28	136 46	129 27	82 2.63 48	99 -0.01 35	113 32 33	123 27.3 71	112 4.3 51	125 115 52	122 40.1 39	133 236 28	131 -57 25	131 27.1 43	130 -27.7 45	145 -15.1 25	106 37.0 49	121 24 32	126 52 30	127 3.00 28	100 0.24 26	104 0.71 26
SP 250128 6020186638 SP 250128	1	JH 190022 SP 190071	85 46	112 71	95 50	95 29	118 40	110 51	114 26	109 46	107 25	87 2.22 48	101 -0.10 37	104 23 29	112 21.1 71	95 -0.9 50	104 65 50	112 32.2 38	116 164 26	116 -39 23	107 14.4 41	120 -20.0 44	113 -8.4 27	100 33.2 50	105 15 30	110 35 28	114 1.96 26	88 -1.34 24	87 -0.61 23

Breeding Values and Accuracies: Cows

Green: >120 High
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Orange: <80 Low

Inbreeding in red is high

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID	Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																														
SP 250130 6020186653 SP 250130		JH 190022 SP 190038		83 43	123 71	104 49	81 30	115 39	121 50	125 26	121 45	125 26	82 2.67 45	100 -0.06 33	122 40 30	123 27.0 71	104 2.1 49	115 92 50	121 39.6 38	128 215 27	124 -48 24	120 21.2 41	112 -13.3 44	118 -9.4 24	99 32.6 48	122 25 31	123 49 29	121 2.49 27	112 1.68 25	93 -0.11 24
SP 250133 6020186687 SP 250133	1	JH 190022 FR 190086		93 45	108 70	97 48	92 29	110 38	106 49	115 30	106 45	110 28	95 1.56 48	97 0.05 35	109 27 29	108 19.2 70	97 -0.1 48	102 59 49	111 31.3 38	119 177 29	114 -37 28	113 17.3 43	107 -9.6 43	110 -7.9 24	103 34.8 48	107 16 33	113 39 31	127 3.01 29	82 -2.09 27	87 -0.61 26
SP 260001 6020186729 SP 260001		FR 150090 SP 220024		78 52	113 60	112 50	91 24	107 44	110 48	126 44	112 47	119 42	80 2.87 54	85 0.49 44	107 26 24	113 22.1 60	112 4.3 50	119 100 45	121 39.6 38	132 233 42	132 -58 42	103 12.0 47	105 -7.6 50	106 -7.1 28	104 35.5 53	105 15 47	113 39 46	115 2.02 44	91 -0.94 41	98 0.24 40
SP 260003 6020186745 SP 260003	1	SP 220058 SP 230125		84 33	121 50	103 38	85 16	96 32	111 36	123 20	112 33	125 21	85 2.38 34	103 -0.18 27	117 35 16	121 26.0 50	103 1.6 38	115 90 35	121 39.7 21	127 212 23	121 -45 14	115 18.6 26	85 8.3 38	103 -6.4 20	110 40.0 38	124 26 26	125 51 25	117 2.19 22	108 1.23 20	109 1.14 19
SP 260004 6020186752 SP 260004	2	FR 150090 SP 220029		81 52	108 60	110 51	99 23	108 44	107 48	122 44	108 47	115 42	89 2.03 54	81 0.66 44	99 18 23	108 19.1 60	110 3.9 51	116 94 45	117 36.3 38	130 223 42	131 -56 41	104 12.7 46	108 -9.9 50	103 -6.3 29	107 37.5 54	104 14 47	108 34 45	113 1.85 43	94 -0.62 41	97 0.22 40
SP 260006 6020186778 SP 260006		FR 150090 SP 190081		77 52	116 60	124 55	85 27	114 45	119 49	127 43	120 48	121 39	85 2.40 54	80 0.69 45	115 33 27	116 23.2 60	124 8.0 55	127 121 47	123 41.3 37	136 248 40	134 -59 42	115 18.4 44	118 -18.4 50	107 -7.2 31	102 34.5 55	115 21 45	116 42 44	125 2.84 40	85 -1.72 38	98 0.28 37
SP 260009 6020186802 SP 260009	2	FR 150090 HH 190024		84 53	101 61	110 55	109 29	100 45	98 50	102 45	96 49	96 42	88 2.14 55	92 0.23 46	88 8 29	101 15.2 61	110 3.7 55	113 87 48	106 27.7 40	109 133 42	118 -41 44	93 6.8 47	104 -7.3 48	98 -5.3 32	95 29.8 54	98 11 47	99 23 46	109 1.52 43	71 -3.50 40	95 0.04 40
SP 260010 6020571318 SP 260010	1	JT 150001 SP 220010		89 52	118 54	94 49	90 26	94 39	106 45	109 23	105 41	111 18	88 2.15 53	127 -1.12 46	110 29 26	118 24.6 54	94 -1.2 49	107 71 43	114 33.9 38	109 132 25	103 -23 20	100 10.5 27	93 1.4 44	98 -5.4 26	95 29.5 48	112 19 27	114 39 26	106 1.28 19	107 1.05 17	110 1.26 17
SP 260012 6020571334 SP 260012		SP 210076 SP 170078		92 46	115 58	95 48	90 19	114 36	114 44	118 27	113 41	114 26	92 1.79 51	104 -0.24 27	111 30 19	115 22.8 58	95 -0.9 48	105 66 42	119 38.2 28	119 178 28	121 -44 23	101 10.9 31	115 -16.0 40	107 -7.2 24	108 38.2 45	108 17 32	109 35 30	103 1.02 27	113 1.83 25	100 0.42 24
SP 260013 6020571342 SP 260013	1	FR 210070 SP 230113		88 29	109 52	111 37	94 19	99 32	106 36	111 20	105 33	109 18	92 1.84 30	95 0.13 25	104 23 19	109 19.6 52	111 4.2 37	116 92 36	108 29.6 26	116 162 21	117 -41 18	110 15.8 27	90 3.7 37	109 -7.6 20	100 33.0 39	107 16 24	111 36 23	109 1.49 19	88 -1.31 18	100 0.41 17
SP 260014 6020571359 SP 260014	1	VV 080131 OLG 160006		86 58	109 58	113 59	93 36	95 46	104 51	100 38	101 48	103 39	88 2.16 60	99 -0.03 51	105 24 36	109 19.6 58	113 4.6 59	116 94 51	107 28.4 42	105 115 40	97 -17 35	84 1.9 43	91 3.6 48	98 -5.4 33	104 35.7 56	106 16 43	114 40 42	105 1.20 40	93 -0.66 38	98 0.25 37
SP 260015 6020571367 SP 260015	1	FR 150090 SP 170050		78 53	109 62	107 59	95 25	104 47	103 51	115 45	103 50	108 42	86 2.36 55	83 0.58 46	104 23 25	109 19.9 62	107 3.0 59	113 86 49	115 35.0 38	123 194 42	130 -55 44	96 8.0 47	108 -10.2 52	99 -5.6 33	99 32.4 56	106 15 48	103 27 46	109 1.51 43	82 -2.09 40	90 -0.38 40

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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																													
SP 260016 6020571375 SP 260016	4	SP 210076 SP 210011	85 45	123 57	100 42	73 25	111 35	117 43	120 22	117 39	121 22	83 2.62	104 -0.23	134 52	123 27.5	100 0.6	108 74	125 42.1	123 193	118 -41	106 13.9	107 -9.7	111 -8.1	104 36.0	122 25	118 44	103 1.03	114 2.03	103 0.68
SP 260018 6020571391 SP 260018	2	FR 210070 FR 200053	94 30	108 53	94 45	100 14	92 35	98 38			100 16	95 1.51	98 0.01	99 18	108 18.8	94 -1.1	102 59	105 26.9	105 115	105 -25	103 12.3	96 -0.6	88 -3.3	102 34.0	105 15	104 28	100 0.79	87 -1.49	102 0.56
SP 260021 6020571425 SP 260021	1	JT 150001 FR 200125	95 48	106 51	109 48	94 20	90 36	101 42			106 14	92 1.78	123 -0.95	104 23	106 18.0	109 3.3	110 80	106 27.5	104 113	99 -19	97 9.0	93 1.5	94 -4.6	90 26.1	119 23	111 36	92 0.14	112 1.72	106 0.93
SP 260022 6020571433 SP 260022	1	FR 210070 SP 200007	99 29	100 50	102 44	102 17	86 36	94 37	92 22	90 34	92 18	99 1.21	103 -0.17	96 15	100 14.9	102 1.4	103 62	97 20.6	96 80	91 -9	95 7.9	85 8.5	94 -4.5	93 28.6	97 10	101 25	94 0.31	90 -1.13	100 0.40
SP 260025 6020571458 SP 260025	7	FR 210070 SP 160068	87 31	111 53	97 46	95 19	90 37	98 39	109 30	98 37	103 27	90 1.99	96 0.10	105 24	111 20.8	97 -0.3	105 67	114 34.3	115 159	113 -36	98 9.6	88 5.6	94 -4.5	101 33.5	102 13	107 32	105 1.18	62 -4.66	91 -0.30
SP 260026 6020571466 SP 260026		JT 150001 JH 200012	93 56	117 55	88 52	82 32	93 39	102 47	108 26	101 43	107 24	90 1.96	124 -1.01	122 40	117 23.8	88 -2.9	98 49	113 33.3	106 122	101 -22	112 17.1	84 9.3	102 -6.2	105 36.6	116 21	114 40	97 0.52	99 0.01	101 0.51
SP 260027 6020571474 SP 260027	1	FR 210070 SP 220101	84 28	111 52	109 39	84 20	96 34	103 37			105 16	86 2.33	101 -0.10	117 35	111 20.9	109 3.5	111 81	109 30.2	109 132	106 -27	103 12.2	92 2.6	104 -6.6	95 29.8	110 18	114 40	109 1.51	85 -1.70	103 0.66
SP 260029 6020571490 SP 260029	1	SP 220058 SP 210010	85 30	124 48	103 42	88 24	104 31	119 36			126 19	82 2.68	104 -0.21	113 32	124 27.9	103 1.7	119 100	125 42.4	126 205	117 -40	116 19.2	97 -1.4	109 -7.6	104 35.6	124 27	127 53	115 2.00	113 1.90	111 1.32

Selection List on Cow Value

Bulls 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID						nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
										★★★★★																
1	SP 230053	SP 230053	SP 180045	SP 170084	0.1	HH	0	0	0	6.4	108	81	111	85	126	82	85	79	107	80	124	77	112	80	122	78
2	SP 240013	SP 240013	JH 190022	SP 150098	0.7						86	45	120	71	99	53	81	28	131	41	124	51	127	30	125	47
3	SP 240067	SP 240067	HH 210003	SP 210091	0.5						88	44	131	66	99	40	79	24	113	31	129	45	127	26	129	41
4	SP 240070	SP 240070	CVF02022	SP 210120	0.0	HH	0	0	0	6.4	103	81	116	84	97	81	97	78	119	80	124	76	116	78	122	76
5	SP 240071	SP 240071	HH 190033	SP 210126	3.6	HH	0	0	0	6.4	88	80	119	85	129	81	80	79	107	80	126	77	132	80	127	78
6	SP 240084	SP 240084	SP 210076	HH 180032	0.2	HH	0	0	0	6.4	85	81	113	85	119	81	80	78	131	80	124	77	124	78	124	77
7	SP 240122	SP 240122	SP 210008	SP 210069	0.3						82	32	119	67	110	41	87	23	120	33	121	44	118	24	120	40
										★★★★★																
1	DJW 220071	220071DJW	VV 180207	DJW 190076	0.8	HH	1	0	0	6.4	105	89	113	88	90	83	88	80	101	82	110	80	103	83	107	81
2	JH 190022	1922	SS 130048	JH 130085	3.8	HH	0	0	0	6.4	87	89	112	96	100	87	84	84	127	86	114	85	125	84	116	85
3	SP 230010	SP 230010	RD 170020	SP 200014	1.4	HH	0	0	0	6.4	88	81	121	85	103	80	83	77	112	79	119	76	118	78	119	76
4	SP 240116	SP 240116	SP 210076	SP 210019	0.5						88	46	114	68	109	45	81	31	115	35	115	48	121	21	115	43
5	SP 240119	SP 240119	SP 210008	HH 150034	0.3						83	36	115	70	103	48	87	23	111	37	111	47	108	32	109	44
6	VV 220234	VV 220234	VV 170019	VV 170140	16.7	HH	1	0	0	6.4	84	87	124	86	95	84	87	82	107	83	116	80	114	82	115	80
										★★★★★																
1	LL 220102	LL220102	LL 170231	LL 120234	2.0	HH	1	0	0	6.4	80	78	113	85	120	80	80	75	101	78	108	76	125	75	110	76
2	SP 230034	SP 230034	HH 170045	SP 130032	1.4	HH	1	0	0	6.4	83	81	118	86	95	82	79	79	92	81	102	78	117	78	103	78
3	SP 240042	SP 240042	HH 170045	SP 170063	0.8						92	44	113	72	91	56	88	32	101	45	104	52	100	25	101	47
										★★★★★																
1	SP 220085	SP220085	HH 170045	SP 160051	0.5						101	41	103	71	78	56	100	32	95	45	91	51	89	24	87	46
2	SP 230082	SP 230082	HH 170045	HH 200035	0.9	HH	1	0	0	6.4	89	81	113	86	81	82	89	79	87	81	92	78	107	78	92	78
3	SP 230122	SP 230122	JH 190022	HH 190024	0.8	HH	1	0	0	6.4	86	80	101	85	94	80	106	77	110	78	97	76	100	77	95	76
4	SP 240090	SP 240090	FR 150090	SP 140073	1.0						86	54	101	72	108	60	101	28	105	48	99	55	119	45	101	53
5	SP 240096	SP 240096	FR 150090	SP 190084	0.6						82	51	107	71	92	56	99	29	99	44	94	53	115	44	95	51
6	SP 240138	SP 240138	HH 170045	HH 160019	0.4						92	45	107	71	103	57	84	31	88	43	96	52	114	23	97	46

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Genomic tested	Calving Ease Value		Calf Growth Value		Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value							
Sorted on ID							nt821	Q204X	F94L		Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc							
											★★★★★★																
1	HH 150041	MALUTI	SP 110037	JF 090150	0.2	HH	0	0	0		87	84	137	89	124	89	61	81	120	83	145	81	143	81	147	81	
2	HH 170026	OPAL	SP 140020	HH 140038	0.2						82	49	113	79	126	82	80	42	150	55	136	62	119	34	133	56	
3	SP 190007	KERRY	20143156	SP 090019	0.0						83	47	128	69	110	76	83	22	130	53	136	55	123	27	135	49	
4	SP 190016	KESTREL	SP 140020	SP 140077	0.1						83	48	116	76	107	77	89	38	148	57	131	60	117	34	129	55	
5	SP 190074	KACE	SP 140020	SP 090007	0.0						80	51	132	76	124	77	91	47	150	57	148	61	132	36	147	56	
6	SP 190081	KEREN	20143156	SP 050095	0.0						87	47	126	72	127	68	74	35	122	53	138	56	128	30	137	51	
7	SP 200023	LIMA	SP 140020	SP 170050	0.3						86	51	112	75	111	74	97	39	147	55	130	59	108	38	125	55	
8	SP 210021	SP210021	20143156	HH 180035	0.0						86	46	123	68	130	53	82	20	112	49	132	51	113	28	128	46	
9	SP 210126	SP210126	SP 180045	HH 170039	0.2						85	50	126	72	124	66	84	51	121	47	136	57	127	39	136	53	
10	SP 210127	SP210127	SP 180045	SP 160042	0.8						89	50	118	71	113	59	79	31	133	48	130	54	110	38	126	51	
11	SP 220013	SP220013	VV 040074	SP 190074	0.2						87	53	125	71	106	59	95	30	128	53	134	55	118	30	132	50	
12	SP 220097	SP220097	HH 170045	SP 190007	0.2						84	42	129	72	98	63	76	30	127	48	130	53	120	20	128	46	
13	SP 230013	SP 230013	20164169	SP 200018	0.0						87	38	135	70	113	57	78	32	126	41	144	50					
14	SP 230080	SP 230080	SP 180045	SP 200047	0.6						86	50	127	69	116	48	69	33	123	45	133	52	118	36	131	49	
15	SP 230081	SP 230081	SP 180045	HH 200017	6.5						80	53	131	72	130	59	99	50	131	47	148	56	126	40	146	53	
16	SP 230108	SP 230108	RD 170020	SP 190016	1.1						83	47	129	71	102	52	78	23	129	46	132	52	130	24	132	46	
17	SP 240004	SP 240004	20164169	SP 210067	0.0						92	41	129	66	121	46	83	26	111	35	137	46	119	20	134	41	
18	SP 240031	SP 240031	20143156	SP 210080	0.0						80	47	124	64	109	48	87	29	138	41	133	48	115	26	130	44	
19	SP 240100	SP 240100	SP 210008	JC 160109	0.6						84	33	125	69	126	47	72	21	114	34	130	45	116	20	128	40	
											★★★★★★☆																
1	GB 210008	2108	JH 170053	HH 170010	0.2						89	66	127	71	97	64	82	36	103	36	120	56	138	38	123	52	
2	HH 180048	PRIMROSE	SP 140020	GJV 080048	0.3						90	54	101	76	131	77	96	40	141	56	126	61	105	38	121	56	
3	HH 190039	QUIP	SP 140020	HH 170016	0.1						88	50	111	73	105	70	95	40	130	55	120	58	108	38	117	54	
4	HH 200013	RUTH	HH 130004	HH 150041	0.1						87	55	116	74	130	70	86	33	109	55	124	59	111	43	121	56	
5	SP 170099	IMBIZO	JH 120035	SP 090007	0.0	HH	1	0	0		97	85	117	89	93	89	101	81	120	85	121	81	104	82	117	81	
6	SP 190040	KIMBERLEY	SP 140020	SP 160051	0.1						99	49	105	76	98	76	133	48	135	55	124	60	92	36	117	55	
7	SP 190073	KSENYA	SP 140020	SP 170048	0.3						88	51	117	71	103	65	94	39	136	54	128	57	116	38	126	53	
8	SP 210007	SP210007	SP 180045	HH 180022	0.3						95	52	119	64	105	65	84	28	116	43	123	52	115	37	121	49	
9	SP 210051	SP210051	SP 140020	SP 150060	0.2						90	50	112	73	117	66	98	39	113	54	120	57	116	35	118	53	
10	SP 210059	SP210059	SP 140020	SP 150058	0.5						86	50	113	73	125	67	93	38	116	55	123	57	110	36	120	53	

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Hommed / 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										
									★★★★★																			
11	SP	210072	SP210072	SP 140020	HH 140001	0.1					85	50	115	73	100	69	113	57	120	53	120	59	114	36	118	54		
12	SP	210080	SP210080	SP 140020	SP 160068	0.4					86	50	113	64	100	65	97	47	134	55	121	54	113	40	119	51		
13	SP	210105	SP210105	SP 060039	HH 170026	0.2					78	54	120	74	120	71	69	55	127	57	126	61	127	46	126	58		
14	SP	210120	SP210120	SP 180045	SP 140073	0.3					95	52	117	74	113	67	89	53	122	50	129	58	121	40	127	54		
15	SP	220018	SP220018	JH 170074	SP 150098	0.5					82	45	120	70	105	53	88	26	130	49	126	52	125	36	126	49		
16	SP	230012	SP 230012	RD 170020	FR 200050	2.7					84	45	128	70	92	49	79	19	117	45	122	50	122	24	122	45		
17	SP	230037	SP 230037	HH 170045	SP 140077	0.7					84	40	132	73	94	65	62	43	121	49	126	55	125	20	126	48		
18	SP	230102	SP 230102	RD 170020	SP 190007	0.2					83	47	128	69	105	52	79	17	118	41	127	50	127	22	128	44		
19	SP	230153	SP 230153	JR 060002	SP 210022	3.4					86	53	122	69	114	57	72	40	113	51	124	55	120	43	123	53		
20	SP	240026	SP 240026	20164169	FS 120281	0.0					90	38	119	67	118	50	87	15	109	33	125	45						
21	SP	240045	SP 240045	HH 170045	HH 150041	0.5					88	46	134	72	103	58	66	33	103	44	126	53	129	25	127	47		
22	SP	240068	SP 240068	VV 080131	SP 210105	0.2					83	54	131	69	100	57	79	44	106	49	124	55	120	44	123	53		
23	SP	240074	SP 240074	SP 210076	SP 210130	0.2					86	47	125	67	105	42	89	25	119	33	128	47	124	26	128	43		
24	SP	240076	SP 240076	SP 210076	SP 200052	0.9					85	47	121	69	108	45	70	25	121	36	122	48	126	28	122	44		
25	SP	240078	SP 240078	SP 210076	SP 210129	0.8					85	46	127	57	106	41	78	21	113	35	126	43	126	22	126	39		
26	SP	240107	SP 240107	VV 170002	GB 210008	0.5					85	56	127	70	103	51	86	28	114	37	126	52	123	28	125	47		
27	SP	240111	SP 240111	SP 210008	SP 200028	0.2					81	29	122	69	108	46	85	21	121	35	124	45	116	24	122	41		
28	SP	240114	SP 240114	SP 210008	FR 200077	1.8					84	30	123	69	108	44	83	20	114	35	123	44	114	24	120	40		
29	SP	240128	SP 240128	JH 190022	SP 190016	0.3					82	45	118	71	102	51	84	29	138	40	126	51	124	26	125	46		
									★★★★★																			
1	HH	130016	KELLY	SP 100007	FR 100030	0.2	HH	0	0	0		90	79	121	87	85	89	100	76	116	81	118	78	124	76	119	78	
2	HH	180035	PINNAQUIN	JH 140070	HH 090008	0.5	HH	0	0	0		100	80	116	86	140	86	84	77	74	81	119	78	109	79	116	78	
3	HH	190032	QUILT	SP 140020	HH 130021	0.1					97	50	102	72	97	69	96	48	129	54	111	58	98	38	107	54		
4	HH	200036	RYE	HH 160018	HH 120025	0.4					80	37	123	71	109	65	79	51	105	48	117	54	114	27	115	49		
5	SP	160029	HIBISCUS	SP 110037	SP 070085	2.4					80	52	117	79	126	82	84	35	93	58	113	62	128	48	115	59		
6	SP	160034	HAWAII	SP 110037	SP 090010	0.7					86	52	119	79	85	84	95	41	120	60	114	63	107	44	112	59		
7	SP	180049	JINGLES	JL 120005	SP 130005	1.0					81	53	132	76	81	78	92	38	93	55	112	61	129	30	114	55		
8	SP	180071	JEZABEL	SP 140020	SP 070100	0.4					107	50	93	76	116	76	110	38	119	56	111	60	94	39	105	56		
9	SP	200010	LINDA	SP 110035	SP 170070	0.2					83	42	126	71	99	65	88	23	105	54	119	54	117	42	118	52		
10	SP	200018	LIZZY	HH 170045	SP 140065	0.7					83	44	122	75	115	72	75	55	105	51	119	58	115	22	118	51		

Selection List on Cow Value

Cows 2 years and older

ID			Name		Sire ID	Dam ID	% Inbreeding	Myostatin	Calving Ease	Calf Growth	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
Sorted on ID								nt821 Q204X F94L Genomic tested	Value Acc	Value Acc	Value Acc	Value Acc	Value Acc	Value Acc	Value Acc	Value Acc	
									★★★★★								
11	SP	200052	LEGACY		HH 130032	SP 110043	0.2		8848	11873	10168	6340	12255	11657	11844	11554	
12	SP	200082	LIDO		HH 160018	SP 130063	2.6		8233	11971	11465	7948	10247	11452	12329	11547	
13	SP	210010	SP210010		HH 170045	SP 180048	0.3		8542	12464	9465	9140	10643	11750			
14	SP	210019	SP210019		HH 170045	SP 140065	0.7		8344	12174	9868	7955	10652	11257	11522	11150	
15	SP	210042	SP210042		SP 080037	SP 170099	6.3		9454	10870	8857	11325	12155	11155	9738	10652	
16	SP	210067	SP210067		HH 170028	OLG 160012	0.5		8954	11172	13766	8642	9947	11857	11340	11654	
17	SP	210093	SP210093		JH 170074	SP 170064	0.4		8145	11671	10459	8726	10649	11053	12437	11150	
18	SP	210108	SP210108		SP 180045	SP 160028	0.2		8951	12272	10960	7442	9950	11656	11440	11553	
19	SP	220010	SP220010		JR 060002	SP 190071	0.7		8454	12673	9765	8339	10256	11658	11342	11455	
20	SP	220022	SP220022		HH 170045	SP 180048	0.3		8942	11972	9360	8531	11746	11653			
21	SP	220024	SP220024		JH 170074	SP 130037	0.4		8247	12270	10352	8726	10848	11752	12635	11849	
22	SP	220029	SP220029		JH 170074	HH 130016	0.2		9045	11171	10054	10223	10949	11152	11933	11148	
23	SP	220041	SP220041		HH 170045	OLG 160012	0.6		8646	12571	10261	8030	9646	11553	11424	11347	
24	SP	220067	SP220067		RD 170020	SP 190035	2.4		8746	12069	11456	7718	10044	11651	11326	11546	
25	SP	220101	SP220101		HH 170045	JC 160109	1.1		8642	12071	10655	7131	10449	11452			
26	SP	220110	SP 220110		JR 060002	SP 160029	0.1		8154	12772	11662	7239	9555	11957	12746	12055	
27	SP	230016	SP 230016		RD 170020	SP 200033	1.8		8947	11171	10957	9122	11746	11552	11125	11347	
28	SP	230019	SP 230019		JH 200062	JH 200012	0.6		8450	13567	8549	7732	9544	11851	11828	11746	
29	SP	230079	SP 230079		SP 140020	SP 180065	0.2		9949	10573	11265	9649	12451	11857	10238	11453	
30	SP	230099	SP 230099		RD 170020	HH 170016	2.1		8547	12270	9952	8122	10341	11350	11928	11346	
31	SP	230113	SP 230113		JH 190022	SP 180090	0.5		8246	11671	11151	8929	11045	11552	12128	11547	
32	SP	230124	SP 230124		JH 190022	SP 180074	0.5		8342	11671	9750	8925	11837	11349	11925	11344	
33	SP	230127	SP 230127		JH 190022	SP 190069	0.6		8845	10771	11048	9032	13039	11750	11626	11645	
34	SP	240001	SP 240001		JH 190022	SP 190038	0.3		8543	11571	10649	8630	11539	11550	11926	11545	
35	SP	240002	SP 240002		JH 190022	SP 210011	0.9		8643	12169	9146	7631	11438	11349	11624	11344	
36	SP	240005	SP 240005		JH 190022	SP 170050	0.5		8346	11871	9653	8728	11540	11351	11729	11347	
37	SP	240016	SP 240016		JH 190022	SP 200010	0.5		8443	11970	10047	8725	11639	11749	12029	11645	
38	SP	240024	SP 240024		HH 160018	HH 180048	0.4		7935	11469	11350	8428	11840	11548	11626	11444	
39	SP	240039	SP 240039		HH 190014	FR 130001	0.3		8344	12167	9951	9326	11540	11949	11228	11745	
40	SP	240053	SP 240053		JH 190022	SP 200019	0.5		9246	10971	10750	9229	13040	11951	11928	11946	
41	SP	240080	SP 240080		FR 150090	HH 170026	1.8		8053	10672	12560	9229	12946	11755	11844	11753	
42	SP	240085	SP 240085		HH 190014	SP 190043	0.1		8645	11667	10049	10129	11739	11749	10530	11445	

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																	
													★★★★													
43	SP 240097	SP 240097	FR 150090	HH 200036	0.5					78	50	117	71	114	54	86	33	105	44	113	53	122	42	113	51	
44	SP 240106	SP 240106	FR 150090	SP 190040	0.3					80	53	112	71	108	58	107	31	120	46	116	54	113	44	114	52	
45	SP 240134	SP 240134	JH 190022	SP 160034	0.5					86	46	116	72	92	53	90	30	123	41	115	52	115	30	114	48	
46	SP 240150	SP 240150	FR 150090	SP 210021	1.8					81	52	114	59	125	50	89	22	109	44	118	48	119	42	117	47	
47	VV 230024	230024	VV 170104	VV 130145	1.2	HH	0	0	0	93	87	104	86	106	85	99	82	122	84	112	80	107	82	109	80	
													★★★★☆													
1	FR 190051	OLIVIA	SP 100007	FR 130094	0.7					90	47	113	75	73	76	119	36	106	54	103	58	115	34	103	53	
2	FR 190086	OXANA	FR 150093	FR 140040	3.4					93	52	112	73	93	69	94	36	92	54	101	58	113	44	101	55	
3	FR 200054	OLINDA	VV 140091	FR 160033	1.5					90	50	113	73	89	68	90	20	95	51	100	56	107	25	99	50	
4	FR 200077	OTYLIA	SP 160036	FR 140003	0.2					95	41	114	73	95	68	90	27	99	53	108	55	107	31	106	50	
5	FR 200125	NELLIE	SP 160019	FR 120033	0.1					91	40	101	62	127	62	90	23	95	46	103	48	104	32	101	45	
6	HH 160019	NESTLE	HJ 980104	VV 020128	0.0	HH	0	0	0	90	82	108	85	119	88	92	77	88	80	103	78	124	78	105	78	
7	HH 170016	ODE	SP 110037	HH 130021	0.0					84	51	119	75	98	76	84	36	100	55	108	59	111	45	107	56	
8	HH 170039	OCTANE	HH 130032	HH 140001	0.4					88	47	110	69	106	77	89	35	101	49	105	55	120	40	106	52	
9	HH 180020	PARMA	LL 140017	JH 150067	0.6	HH	0	0	0	112	82	96	86	104	87	93	78	105	81	102	78	98	78	99	78	
10	HH 190010	QUADRI	KT 070013	FR 130001	0.3					85	54	116	69	85	76	94	23	100	54	102	57	104	32	100	52	
11	IGB 220025	IGB220025	KT 170008	K 160040	1.2					95	61	107	64	88	66	87	49	113	44	103	55	98	41	100	52	
12	JH 200012	2012	DG 060046	JH 110065	0.5					87	70	123	75	85	74	67	55	102	54	107	64	112	48	106	61	
13	OLG 160006	AGIE	KT 100037	OLG 110003	0.5	HH	1	0	0	87	83	102	83	139	86	83	76	104	79	109	77	108	76	107	77	
14	SP 150058	GRANDEE	LL 120206	SP 990086	0.4	HH	0	0	0	88	82	113	88	113	89	88	78	96	83	109	80	107	79	107	80	
15	SP 160068	HALLOWEEN	SP 110076	SP 110039	0.6					83	51	120	75	81	74	90	31	93	58	100	59	118	51	102	57	
16	SP 170050	IMPALA	SP 110037	SP 070045	0.1					82	52	114	78	94	81	93	32	103	58	104	62	104	42	102	58	
17	SP 170063	ICON	HH 130004	SP 150022	0.6	HH	0	0	0	101	82	103	87	98	87	108	78	114	82	109	79	85	80	103	79	
18	SP 180065	JAZZ	JH 140070	SP 110019	0.4					99	46	105	74	116	75	88	33	84	52	101	57	96	42	98	54	
19	SP 190043	KEG	JH 120035	SP 150070	0.1					93	50	106	74	101	72	101	42	102	55	103	59	96	44	100	56	
20	SP 190071	KIT	KT 070013	SP 100009	0.4					84	53	112	75	89	75	107	32	108	58	104	60	104	31	102	54	
21	SP 200014	LINDY	SP 080037	SP 170093	0.5					88	53	113	72	93	71	99	24	100	54	104	57	108	36	103	53	
22	SP 200028	LUNA	HH 130001	SP 140077	1.8					82	38	113	74	93	72	94	30	112	52	106	55	112	31	105	50	
23	SP 200037	LILAC	JC 160095	SP 140036	0.3					88	34	122	73	90	70	93	49	84	49	105	54	127	24	108	48	
24	SP 210011	SP210011	HH 170045	SP 170074	0.2					85	42	118	72	86	63	68	42	102	52	101	55	103	25	99	49	

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						
										★★★★★																	
25	SP	210069	SP210069	JH 170074	SP 170078	0.4					93	44	107	71	97	59	101	34	109	48	105	53	111	34	104	49	
26	SP	210116	SP210116	VV 040074	SP 190019	0.2					97	54	112	71	98	56	98	27	99	54	108	55	104	32	105	50	
27	SP	220003	SP220003	HH 130004	SP 190034	0.3					88	51	111	70	119	62	98	34	90	51	108	55	94	44	104	53	
28	SP	220038	SP220038	SP 060039	OLG 160006	0.5					79	58	110	70	114	61	81	33	108	55	107	57	116	44	107	54	
29	SP	220044	SP220044	JH 170074	SP 130032	0.8					82	46	107	70	110	53	95	26	118	49	109	52	114	34	109	48	
30	SP	220100	SP220100	HH 170045	SP 160010	0.4					86	43	120	72	88	56	85	35	103	50	108	53	112	28	107	48	
31	SP	220115	SP 220115	HH 170045	SP 100008	1.0					90	47	119	74	81	65	85	34	98	50	103	56	101	28	100	50	
32	SP	220133	SP 220133	RD 170020	SP 140073	2.0					90	49	112	72	90	61	94	25	104	48	104	54	115	26	105	48	
33	SP	220137	SP 220137	RD 170020	SP 180026	1.6					82	46	106	71	116	59	91	18	102	46	103	52	111	24	102	46	
34	SP	220140	SP 220140	RD 170020	DT 170290	0.5					93	41	110	59	98	49	91	15	102	39	105	44	108	21	104	39	
35	SP	230020	SP 230020	HH 160018	SP 170063	1.7					85	35	114	71	101	59	91	25	105	45	108	50	103	27	105	45	
36	SP	230027	SP 230027	RD 170020	FR 200053	2.8					91	46	112	70	90	50	93	15	103	45	104	50	108	20	102	44	
37	SP	230044	SP 230044	HH 170045	SP 170003	0.6					86	43	124	70	87	55	78	31	78	48	100	52	114	26	100	47	
38	SP	230125	SP 230125	RD 170020	SP 150022	1.0					92	49	117	71	94	54	86	19	91	47	105	52	112	23	104	46	
39	SP	230131	SP 230131	JH 190022	SP 200075	1.4					90	43	115	70	91	46	89	29	108	36	108	48	115	23	107	43	
40	SP	240010	SP 240010	JH 190022	FR 200050	0.4					100	42	101	70	98	48	94	26	123	38	108	49	106	26	106	44	
41	SP	240015	SP 240015	JH 190022	SP 200007	0.5					92	44	108	69	95	48	94	26	106	39	103	49	105	26	102	44	
42	SP	240017	SP 240017	HH 160018	SP 210047	4.5					82	33	111	66	101	44	88	28	103	38	102	45	113	26	102	41	
43	SP	240023	SP 240023	SP 060039	OLG 160006	0.5					80	58	114	70	114	61	79	33	100	50	106	56	119	44	107	54	
44	SP	240033	SP 240033	JH 190022	HH 200006	0.9					88	46	108	69	105	48	94	25	113	36	109	49	118	28	110	45	
45	SP	240036	SP 240036	JH 190022	SP 200014	1.8					87	46	112	70	96	49	93	25	113	39	109	50	115	27	109	45	
46	SP	240089	SP 240089	IGB 200089	IGB 220025	2.7					94	51	113	65	83	42	94	26	102	32	103	47	104	30	101	44	
47	SP	240094	SP 240094	FR 150090	SP 180065	1.4					89	52	101	71	119	57	95	26	95	45	100	53	108	45	99	51	
48	SP	240095	SP 240095	FR 150090	SP 160029	2.0					77	53	109	72	124	60	93	26	100	47	106	55	123	47	108	53	
49	SP	240103	SP 240103	FR 150090	HH 180044	0.3					79	55	109	71	112	57	96	31	109	47	107	55	116	44	107	53	
50	SP	240120	SP 240120	FR 150090	SP 180090	0.7					80	53	105	71	123	58	100	27	109	47	109	54	116	44	109	52	
51	SP	240123	SP 240123	FR 150090	SP 200082	0.6					79	49	112	71	117	54	88	32	104	44	109	53	124	43	110	51	
52	SP	240127	SP 240127	FR 150090	SP 180074	1.6					80	50	108	71	109	57	98	23	108	44	105	53	116	42	105	51	
53	SP	240130	SP 240130	HH 170045	SP 160046	0.3					87	43	121	71	90	55	80	32	98	45	107	52	111	26	106	47	
54	SP	240141	SP 240141	HH 170045	SP 210022	3.7					90	43	109	69	105	53	81	34	108	43	106	50	109	24	105	45	
55	SP	240144	SP 240144	JH 190022	SP 150042	0.6					90	46	105	71	101	53	96	26	104	40	102	51	111	28	101	46	
56	SP	240149	SP 240149	FR 200084	SP 220024	1.4					81	30	115	51	107	39	91	19	103	35	109	37	121	24	110	34	

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
Sorted on ID							nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc	
										★★★★☆								
57	VV 230252	VV230252	VV 170149	VV 190224	2.4						99 67	106 68	108 47	95 15	100 40	107 52		
										★★★★								
1	FR 200053	OLENA	VV 140091	FR 160052	0.2						92 46	113 74	76 71	100 17	97 52	98 56		
2	HH 150032	MAXI	SP 100088	HH 090008	0.2	HH	0	0	0	6.4	103 80	107 87	84 88	99 77	76 81	91 78	121 78	
3	HH 180039	PIPER	JH 140070	HH 100021	0.9						93 42	108 73	111 71	91 23	69 52	94 55	93 38	
4	HH 190024	QUAINT	HH 130004	HH 100021	0.5						94 52	97 74	99 70	129 40	95 53	95 58	78 41	
5	SP 160069	HYUNDAI	JH 120035	SP 100008	0.2						105 53	104 76	80 75	110 35	99 54	98 60	82 44	
6	SP 170013	IBIS	LL 120206	SP 120001	0.9						87 48	106 76	100 78	90 28	101 54	98 59	97 32	
7	SP 170074	IMPULSE	SP 110037	SP 140006	0.1						98 47	105 75	78 77	96 37	107 58	97 59	91 40	
8	SP 170078	IBEX	HH 130032	SP 070040	0.5						106 47	101 76	76 77	105 28	108 57	97 59	98 40	
9	SP 170087	IVORY	SP 140020	SP 140079	0.6						90 49	100 74	107 72	100 38	101 56	98 58	105 35	
10	SP 200070	LA-DI-DA	JR 060002	SP 140006	0.1						116 49	96 71	85 67	101 36	95 57	93 57	84 40	
11	SP 210017	SP210017	HH 170045	SP 170062	0.7						98 44	102 73	96 66	99 42	90 51	93 56	92 26	
12	SP 210025	SP210025	HH 170045	OLG 160006	0.7						84 49	114 71	105 63	72 42	88 48	99 55		
13	SP 220015	SP220015	JH 170074	RS 140003	0.3						78 51	113 70	92 51	95 22	79 48	90 52	118 36	
14	SP 220096	SP220096	HH 170045	SP 150042	0.6						89 44	109 71	93 58	91 31	85 49	92 53	102 24	
15	SP 220114	SP 220114	HH 170045	HH 190010	0.8						87 45	113 72	83 63	88 30	98 48	97 54	101 22	
16	SP 220119	SP 220119	OLG 180018	HH 170031	0.2						96 43	100 66	99 47	101 22	96 38	95 47	100 40	
17	SP 220132	SP 220132	RD 170020	HH 180009	1.0						84 47	111 71	91 59	98 30	94 45	97 53	104 22	
18	SP 230068	SP 230068	HH 170045	SP 200057	0.9						95 40	105 71	92 51	93 31	89 43	92 50	100 22	
19	SP 230128	SP 230128	RD 190059	SP 170095	1.2						94 41	105 69	88 46	103 14	86 39	91 47		
20	SP 230130	SP 230130	HH 170045	HH 190010	0.8						86 45	117 70	85 56	84 30	93 44	99 52	106 22	
21	SP 240030	SP 240030	VV 080131	HH 180010	0.3						96 54	98 71	89 59	123 36	91 48	90 55	84 40	
22	SP 240044	SP 240044	HH 170045	SP 170078	3.5						97 42	108 72	81 56	91 31	97 45	95 52	100 24	
23	SP 240054	SP 240054	HH 170045	FR 190051	0.5						89 42	113 71	80 56	96 35	96 44	97 52	107 22	
24	SP 240087	SP 240087	FR 150090	SP 200063	0.7						96 51	95 71	93 55	121 33	104 45	94 53	103 44	
25	SP 240098	SP 240098	FR 150090	SP 200073	0.7						91 51	97 71	98 55	110 33	100 45	92 53	103 44	
26	SP 240132	SP 240132	HH 170045	HH 180009	0.7						85 42	114 71	92 54	89 30	85 43	95 51	102 20	
27	SP 240140	SP 240140	HH 170045	SP 180071	0.9						101 43	99 72	102 56	95 33	103 45	99 52	95 24	

Selection List on Cow Value

Cows 2 years and older

ID Name Sorted on ID		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	HH 180010	PANACHE	CJ 130025	HH 100006	0.2	HH	0	0	0		104 83	82 88	90 88	140 79	95 83	82 80	77 80	76 80
2	HH 200014	RITZ	HH 130001	HH 140001	0.2						101 40	99 71	75 66	107 51	84 47	82 54	103 34	82 50
3	SP 190075	MUMARA	LL 120206	SP 110039	0.3						97 48	98 74	87 73	102 27	89 55	85 57	92 33	83 52
4	SP 190084	KAYLEIGH	HH 130001	SP 130046	0.2						90 44	109 74	64 71	103 42	89 49	85 56	104 36	85 52
5	SP 200007	LADYBIRD	LL 120206	SP 170085	0.7						103 46	99 66	92 68	105 25	84 55	89 53	84 31	84 49
6	SP 200073	LETTISH	HH 130001	SP 160034	0.2						104 42	96 73	73 68	117 53	93 52	85 57	90 36	82 53
7	SP 220128	SP 220128	HH 160018	HH 180010	2.9						82 33	103 69	93 50	100 23	90 45	86 48	99 25	85 43
8	SP 240135	SP 240135	HH 170045	HH 200014	0.9						99 40	101 71	82 53	95 38	86 42	84 51	98 22	83 45
											★★★							
1	SP 200054	LUCY	HH 130001	JH 110047	0.1						114 46	82 70	71 56	137 28	85 50	73 53	82 32	70 49

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	SP	250088	SP 250088	HH 210001	HH 170026	6.5				89	36	117	69	120	49	80	26	133	36	132	47	122	25	130	43	
2	SP	250091	SP 250091	SP 210106	SP 190007	0.0				80	37	132	67	107	50	78	19	124	38	134	46	129	23	134	41	
										★★★★★☆																
1	SP	250013	SP 250013	JH 190022	SP 210127	1.1				86	45	117	68	106	45	79	27	130	37	123	48	122	28	123	44	
2	SP	250064	SP 250064	SP 210076	SP 230020	1.7				85	43	125	67	106	42	81	18	115	33	125	46	125	22	125	41	
3	SP	250083	SP 250083	HH 210001	SP 210120	2.0				99	37	115	66	115	43	86	31	118	33	125	45	120	27	124	41	
4	SP	250086	SP 250086	HH 210001	SP 160029	0.4				84	37	123	69	119	49	79	23	103	36	122	47	129	30	123	44	
5	SP	250090	SP 250090	HH 210001	HH 180035	0.8				96	35	121	69	126	47	79	19	94	35	124	46	120	29	123	43	
6	SP	250102	SP 250102	SP 210106	GB 210008	0.7				84	44	125	67	102	45	81	24	111	33	121	47	131	27	123	43	
7	SP	250107	SP 250107	JH 190022	SP 200018	1.3				85	43	124	71	106	49	75	35	118	38	123	50	127	24	124	45	
8	SP	260011	SP 260011	JR 060002	SP 210080	6.5				89	54	120	58	104	56	80	42	113	51	120	51	116	44	118	50	
9	SP	260017	SP 260017	SP 210076	SP 220038	3.8				82	50	120	56	114	42	79	21	114	36	120	44	127	28	121	41	
										★★★★★																
1	SP	250056	SP 250056	JH 190022	SP 210093	0.5				85	43	111	68	103	45	85	26	117	37	110	48	126	28	112	44	
2	SP	250063	SP 250063	FR 150090	SP 230037	0.5				80	51	120	69	107	54	76	29	116	44	116	52	127	41	118	50	
3	SP	250076	SP 250076	HH 210001	HH 170039	2.0				90	35	118	67	109	47	83	23	107	33	117	45	124	27	118	41	
4	SP	250084	SP 250084	FR 210070	SP 210051	0.8				92	31	108	65	114	43	96	23	103	36	110	43	112	23	109	39	
5	SP	250092	SP 250092	HH 210001	SP 210069	0.3				98	34	110	54	106	39	93	24	109	32	113	39	113	26	112	36	
6	SP	260002	SP 260002	VV 170225	VV 230024	2.2				94	57	111	55	111	42	88	14	110	38	115	44	112	22	113	40	
7	SP	260007	SP 260007	FR 150090	SP 210021	1.8				81	52	114	59	125	50	89	22	108	44	117	48	119	42	117	47	
8	SP	260023	SP 260023	FR 210070	SP 200023	0.5				91	31	107	53	111	46	99	23	117	36	114	39	104	24	111	36	
										★★★★★☆																
1	SP	250011	SP 250011	JH 190022	FR 200125	0.7				89	42	106	69	113	46	85	25	111	36	108	48	118	26	109	44	
2	SP	250057	SP 250057	JH 190022	FR 190051	0.9				93	45	106	71	88	51	101	30	117	39	105	50	117	26	106	45	
3	SP	250069	SP 250069	HH 210001	IGB 220025	1.3				109	40	97	67	105	43	93	30	114	31	106	46	98	28	103	42	
4	SP	250079	SP 250079	FR 210070	SP 220137	1.3				82	29	115	64	111	41	88	15	97	33	108	41					

Selection List on Cow Value

Bull Calves younger than 2 years

ID Name Sorted on ID		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									
										★★★★☆								
5	SP 260005	SP 260005	FR 150090	SP 210019	0.8					79 52	113 61	109 55	88 34	105 45	107 50	120 42	108 48	
6	SP 260008	SP 260008	FR 150090	SP 180071	0.6					90 53	99 61	118 57	103 27	112 46	106 50	110 44	105 49	
7	SP 260020	SP 260020	FR 210070	HH 190032	0.5					96 31	102 52	104 44	98 27	108 36	105 39	100 24	101 36	
8	SP 260028	SP 260028	FR 210070	HH 130016	4.0					93 31	112 55	99 50	100 17	102 37	108 40	113 22	107 36	
9	SP 260030	SP 260030	JH 190022	SP 220015	0.5					82 45	112 59	96 41	90 25	103 36	102 44	122 27	104 41	
										★★★★								
1	SP 260019	SP 260019	FR 210070	HH 150032	4.1					99 27	105 54	98 49	99 14	82 34	94 38	111 23	95 35	
2	SP 260024	SP 260024	FR 210070	SP 200070	1.4					106 31	99 52	98 43	100 22	91 36	96 39	93 25	92 36	

Selection List on Cow Value
Heifers younger than 2 years

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin		Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc									
										★★★★★★																
1	SP	250014	SP 250014	SP 210008	SP 200023	3.3				81	34	128	69	115	46	82	24	138	36	140	46	121	26	138	42	
2	SP	250036	SP 250036	SP 210008	SP 190086	3.4				82	34	126	68	114	45	82	24	125	36	132	45	121	26	131	41	
3	SP	250058	SP 250058	JH 190022	HH 150041	0.3				87	47	132	72	110	53	70	28	123	39	137	51	139	29	138	47	
4	SP	250109	SP 250109	CVF02022	SP 230081	0.0				82	51	134	68	109	53	95	34	126	46	142	52	126	37	140	49	
5	SP	250126	SP 250126	JH 190022	SP 190074	0.2				83	45	123	71	112	51	87	33	141	40	137	51	130	28	136	46	
										★★★★★★☆																
1	SP	250006	SP 250006	SP 220039	SP 230013	6.5				87	29	131	64	112	41	76	22	104	31	129	41					
2	SP	250007	SP 250007	SP 210076	SP 220010	0.4				83	49	127	67	105	44	81	24	112	36	124	48	123	27	124	44	
3	SP	250008	SP 250008	7457	SP 220003	0.0				89	40	133	65	114	40	80	22	92	34	128	44	120	22	127	40	
4	SP	250031	SP 250031	JH 190022	HH 180048	0.4				86	46	110	71	115	51	89	30	134	40	122	51	116	28	120	46	
5	SP	250035	SP 250035	SP 210008	SP 200014	0.2				86	35	127	69	106	45	84	19	115	35	128	45	118	25	126	41	
6	SP	250046	SP 250046	SP 210008	SP 200019	3.4				91	34	111	69	121	46	92	24	132	37	127	46	112	26	124	42	
7	SP	250060	SP 250060	SP 210076	SP 220064	2.3				84	45	126	67	107	43	78	22	107	34	122	47	124	21	122	42	
8	SP	250075	SP 250075	HH 210001	SP 210105	3.3				84	38	117	67	118	45	77	32	118	36	122	46	121	30	121	43	
9	SP	250078	SP 250078	SP 220058	SP 230016	0.9				84	32	122	64	109	39	86	17	110	32	121	42	124	20	121	38	
10	SP	250082	SP 250082	HH 210001	SP 210126	2.6				94	36	119	66	120	43	85	30	115	32	129	45	120	27	127	41	
11	SP	250130	SP 250130	JH 190022	SP 190038	0.3				83	43	123	71	104	49	81	30	115	39	121	50	125	26	121	45	
										★★★★★★																
1	SP	250016	SP 250016	JH 190022	SP 210055	0.4				95	46	102	69	103	47	98	29	130	39	113	49	107	28	110	45	
2	SP	250021	SP 250021	JH 190022	OLG 160006	0.9				83	50	113	69	118	51	82	25	115	36	116	50	120	23	115	45	
3	SP	250030	SP 250030	JH 190022	JH 150067	0.8				99	52	115	72	93	52	84	30	112	39	114	52	113	30	112	48	
4	SP	250047	SP 250047	SP 210008	HH 150021	0.4				91	33	109	70	103	50	93	20	117	36	112	46	100	23	108	41	
5	SP	250048	SP 250048	JH 190022	SP 210010	1.1				89	43	113	67	98	47	91	30	117	35	113	47	113	22	112	42	
6	SP	250051	SP 250051	JH 190022	HH 180020	0.8				97	46	107	71	101	51	89	27	116	38	110	50	112	28	109	46	
7	SP	250055	SP 250055	JH 190022	SP 170063	1.1				97	47	108	71	99	51	97	27	121	40	113	51	104	29	110	47	
8	SP	250061	SP 250061	SP 210076	SP 220114	0.7				85	46	118	67	99	43	85	20	109	33	113	46	115	20	112	41	
9	SP	250065	SP 250065	SP 210076	SP 210025	0.4				85	47	116	67	110	43	78	25	105	33	112	47	119	20	112	42	
10	SP	250071	SP 250071	HH 210001	SP 190043	0.5				95	37	113	68	108	45	94	26	106	35	115	46	106	28	112	42	

Selection List on Cow Value

Heifers younger than 2 years

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									
Sorted on ID							nt821	Q204X										F94L	Genomic tested						
									★★★★★																
11	SP 250074	SP 250074	HH 210001	SP 200052	1.2				100	36	109	68	110	44	78	26	116	35	116	46	110	28	114	42	
12	SP 250081	SP 250081	JH 190022	SP 210072	0.4				89	45	109	69	101	48	101	36	124	39	115	50	115	27	114	45	
13	SP 250096	SP 250096	SP 210106	SP 160034	0.3				87	39	119	68	97	52	91	26	118	41	119	48	110	29	116	44	
14	SP 250097	SP 250097	JH 190022	SP 210108	0.4				91	45	112	68	106	45	82	31	114	37	113	48	116	28	113	44	
15	SP 250104	SP 250104	SP 210106	HH 190010	1.8				85	39	118	67	96	50	90	20	108	38	112	47	110	24	110	42	
16	SP 250105	SP 250105	SP 210106	SP 200028	0.7				86	34	116	68	101	48	91	22	113	38	114	46	113	24	113	42	
17	SP 250113	SP 250113	HH 210001	SP 170013	0.8				95	36	110	56	108	47	88	20	105	35	110	41	106	24	108	38	
18	SP 250120	SP 250120	SP 230010	SP 230079	1.6				98	35	105	64	110	42	93	26	119	34	115	44	105	22	112	40	
19	SP 250124	SP 250124	FR 150090	SP 190040	0.3				82	53	109	71	108	58	107	31	120	46	115	54	113	44	113	52	
20	SP 250128	SP 250128	JH 190022	SP 190071	1.2				85	46	112	71	95	50	95	29	118	40	110	51	114	26	109	46	
21	SP 260001	SP 260001	FR 150090	SP 220024	0.4				78	52	113	60	112	50	91	24	107	44	110	48	126	44	112	47	
22	SP 260003	SP 260003	SP 220058	SP 230125	0.9				84	33	121	50	103	38	85	16	96	32	111	36	123	20	112	33	
23	SP 260006	SP 260006	FR 150090	SP 190081	0.4				77	52	116	60	124	55	85	27	114	45	119	49	127	43	120	48	
24	SP 260012	SP 260012	SP 210076	SP 170078	0.4				92	46	115	58	95	48	90	19	114	36	114	44	118	27	113	41	
25	SP 260016	SP 260016	SP 210076	SP 210011	3.5				85	45	123	57	100	42	73	25	111	35	117	43	120	22	117	39	
26	SP 260029	SP 260029	SP 220058	SP 210010	0.6				85	30	124	48	103	42	88	24	104	31	119	36					
									★★★★☆																
1	SP 250002	SP 250002	HH 170045	SP 170099	0.4				91	44	117	61	89	55	87	31	103	45	108	48	106	26	106	44	
2	SP 250004	SP 250004	JH 190022	SP 160068	0.9				84	46	116	60	91	49	87	27	110	40	107	46	122	32	108	43	
3	SP 250012	SP 250012	FR 200084	SP 220022	0.6				95	29	107	64	103	42	95	21	108	34	108	42					
4	SP 250019	SP 250019	FR 200084	SP 220023	1.5				84	30	113	51	106	38	92	18	94	34	104	37	118	24	105	34	
5	SP 250024	SP 250024	JH 190022	JH 200018	0.7				94	51	108	71	91	50	101	33	112	38	106	52	107	30	104	48	
6	SP 250034	SP 250034	JH 190022	SP 170074	0.2				100	44	99	71	92	51	97	29	118	40	101	50	98	28	98	46	
7	SP 250043	SP 250043	JH 190022	HH 180010	0.9				90	45	104	71	93	51	104	25	111	39	101	50	104	27	99	45	
8	SP 250068	SP 250068	FR 210070	SP 220115	2.8				90	30	114	65	95	43	92	20	94	35	103	43	101	20	100	38	
9	SP 250073	SP 250073	HH 210001	HH 160019	6.6				104	39	101	68	120	49	96	20	99	34	109	46	110	26	107	42	
10	SP 250094	SP 250094	FR 210070	SP 210007	1.4				103	32	101	63	111	43	98	18	103	32	106	42	99	24	103	38	
11	SP 250117	SP 250117	FR 150090	SP 210116	1.4				85	53	108	60	109	51	98	24	102	45	105	49	115	43	105	48	
12	SP 250133	SP 250133	JH 190022	FR 190086	0.7				93	45	108	70	97	48	92	29	110	38	106	49	115	30	106	45	
13	SP 260004	SP 260004	FR 150090	SP 220029	1.9				81	52	108	60	110	51	99	23	108	44	107	48	122	44	108	47	

Selection List on Cow Value
Heifers younger than 2 years

ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID							nt821	Q204X	F94L	Genomic tested	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
											★★★★☆															
14	SP	260010	SP 260010	JT 150001	SP 220010	1.0					89	52	118	54	94	49	90	26	94	39	106	45	109	23	105	41
15	SP	260013	SP 260013	FR 210070	SP 230113	1.3					88	29	109	52	111	37	94	19	99	32	106	36	111	20	105	33
16	SP	260014	SP 260014	VV 080131	OLG 160006	1.0					86	58	109	58	113	59	93	36	95	46	104	51	100	38	101	48
17	SP	260015	SP 260015	FR 150090	SP 170050	0.5					78	53	109	62	107	59	95	25	104	47	103	51	115	45	103	50
18	SP	260021	SP 260021	JT 150001	FR 200125	1.1					95	48	106	51	109	48	94	20	90	36	101	42				
19	SP	260026	SP 260026	JT 150001	JH 200012	0.4					93	56	117	55	88	52	82	32	93	39	102	47	108	26	101	43
20	SP	260027	SP 260027	FR 210070	SP 220101	1.2					84	28	111	52	109	39	84	20	96	34	103	37				
											★★★★															
1	SP	250003	SP 250003	FR 150090	SP 180026	1.2					81	51	98	61	113	56	102	24	101	46	94	49	111	43	94	48
2	SP	250009	SP 250009	FR 150090	SP 210009	2.2					87	51	105	57	105	53	89	29	95	43	96	47	113	42	97	46
3	SP	250080	SP 250080	FR 210070	SP 220133	1.6					98	30	101	65	103	42	103	17	97	34	99	42	100	20	96	38
4	SP	250095	SP 250095	FR 210070	SP 220132	1.2					97	30	97	64	104	41	107	20	92	33	94	42				
5	SP	250106	SP 250106	FR 150090	SP 200037	1.8					81	49	105	71	107	56	101	32	96	44	97	53	118	42	99	51
6	SP	260009	SP 260009	FR 150090	HH 190024	1.5					84	53	101	61	110	55	109	29	100	45	98	50	102	45	96	49
7	SP	260018	SP 260018	FR 210070	FR 200053	2.3					94	30	108	53	94	45	100	14	92	35	98	38				
8	SP	260022	SP 260022	FR 210070	SP 200007	0.6					99	29	100	50	102	44	102	17	86	36	94	37	92	22	90	34
9	SP	260025	SP 260025	FR 210070	SP 160068	7.1					87	31	111	53	97	46	95	19	90	37	98	39	109	30	98	37
											★★★★☆															
1	SP	250001	SP 250001	HH 170045	SP 200054	0.9					100	42	100	60	78	49	99	31	86	42	83	46	95	22	81	41

	EBVi	Description / Measurement	Goal	Low Value	High Value
Selection Values	Calving Ease Value	Difficult calving due to high birth weight	Average birth weight	High	Low
	Calf Growth Value	Calf's genetic ability for prewean growth	Heavy weaner	Light	Heavy
	Milk Value	Cow's genetic mothering and milking ability	Enough milk for calf	Less	More
	Maintenance Value	Maintenance requirement of cow (weight and milk)	Low cow maintenance	High	Low
	Fertility Value	Fertility and retention of cows and heifers	Fertile cows	Low	High
	Cow Value	Combination of calving ease, calf growth, milk, maintenance and fertility values (Rand-value per Ha)	Profitable cows	Loss	Profit
	Weaner Calf Value	Heavier weaners and more milk, with lower birth and cow weights	Heavy weaner	Light	Heavy
	Growth Value	Efficient growth on veld and in feedlot (Rand-value per animal)	Profitable growth	Loss	Profit
	Production Value	Combination of Cow- and Growth Values (Rand-value)	Profitable animals	Loss	Profit
	Carcass Value	Meat on carcass (Weight and RTU EBVs)	Meat on carcass	Less	More
Birth	Cow weight - birth	Cow weight at birth of calves	Mature cow weight	Light	Heavy
	Birth weight direct	Birth weight (Calf's genetic ability)	Average birth weight	Heavy	Light
	Cow-Calf birth	EBV Birth dir / EBV Mature cow weight	Average	Low	High
Wean	Cow Weight wean	Cow weight at weaning of calves	Mature cow weight	Light	Heavy
	Weaning weight direct	Weaning weight (Calf's genetic ability)	Heavy weaners	Light	Heavy
	Weaning weight mat	Weaning weight (Dam's genetic ability)	Good mothers	Poor	Good
	Cow-Calf Wean	EBV Wean dir / EBV Mature cow weight	High cow-calf ratio	Low	High
Growth & Adaptation	Post-Wean weight	12- and 18mth weights	Post-wean growth	Low	High
	Ave. Daily Gain	Average daily gain in growth test (Phase C and D)	Good growth	Poor	Good
	Veld Growth	ADG on veld (Phase B)	Good adaptation	Poor	Good
	Feed Conversion Ratio	100g feed intake /g weight gain	Feed Efficiency	Poor	Good
	Final Test Weight	Final weight in growth test (Phase C and D)	Heavy Carcasses	Light	Heavy
	Skin Thickness	Measured in growth tests	Thicker skin	Thin	Thick
Fertility	Scrotal Circumference	Scrotal circumference in growth test	Fertile bulls	Less	More
	Heifer Fertility	Age at first calving	Fertile heifers	Less	More
	Cow Fertility	First 3 inter-calving periods (ICPs)	Fertile cows	Less	More
	Longevity	Retention of progeny	Acceptable progeny	Poor	Good
Frame	Height	Shoulder / Hip height in growth test	Average height	Short	Tall
	Length	Length in growth test	Longer (more meat)	Short	Long
	Length:Height	EBV Length / EBV Height	Longer, not higher	Less desirable	More desirable
Carcass	Eye Muscle Area	RTU Eye muscle area	Muscle in carcass	Small	Big
	Fat	RTU P8 Backfat Thickness	Carcass quality & adaptability	Thin	Thick
	Marbling	RTU % Marbling	Juicy meat	Low	High
	Dressing%	Carcass weight / Live weight	High dressing %	Low	High

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

EBVi (EBVindex) is the breeding value index and is easier to interpret than the breeding value, especially for commercial farmers buying from stud farmers. The base of a breeding value index is 100, which is the average of all the live animals in the breed, and all values are expressed relative to this value. Values above 100 are always in a more desirable direction: an index of 105 for AFC indicates a genetic potential to calve earlier. Note that a very high index is not always desirable. For certain traits, such as birth weight, average values can be better.

EBV: (Estimated Breeding Value) indicates the genetic potential of the animal for a specific trait. It is presented in the unit of measurement and relative to the average of animals born in the base year (1990 for most breeds and traits). Higher values for certain traits are better while lower values for other traits are better, for example, an EBV of -2 for AFC (age at first calving) indicates that the animal has the genetic potential to calve 2 days earlier than the average heifer in 1990 (the base year). Earlier calving is better and therefore low breeding values (high breeding value indices) are better. For weaning weight, higher values are better.

Sub-values combine similar breeding values in a scientific manner to simplify the selection of animals. For example, AFC (age at first calving) and ICP (inter-calving period) are combined to form the sub-value Fertility by taking the heritability and economic importance in consideration. The sub-value is expressed in an index format, thus an animal with a sub-value of 110 for Fertility will genetically be above average compared to the live animals in the breed.

Selection Values (Cow Value and Growth Value) combine the sub-values into a single value. This gives a quick and easy indication of the combined genetic value of an animal compared to the breed. It is advised to still look at the sub-values to see where the strengths and weaknesses lie.

How to use breeding values to select animals

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

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

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

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

How to improve the herd genetically

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

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

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

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

Conclusion

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

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

