

SANTA GERTRUDIS

GENOMIC BREEDING VALUE REPORT

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LOGIX



EBVs, EBVi's and GEBVs

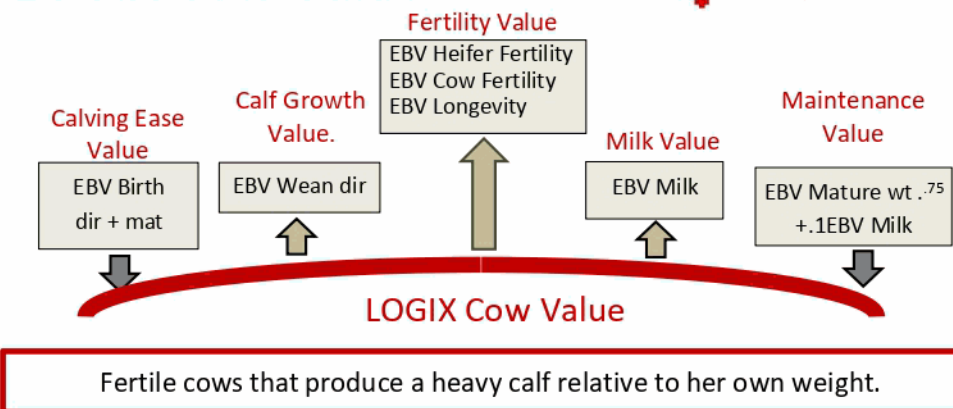
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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)

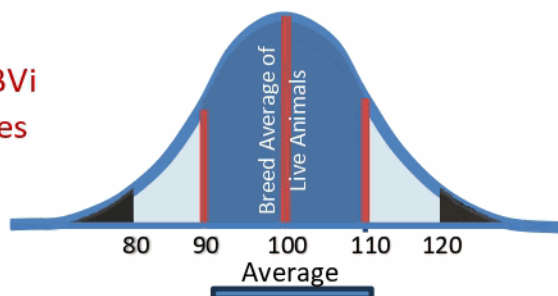
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

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

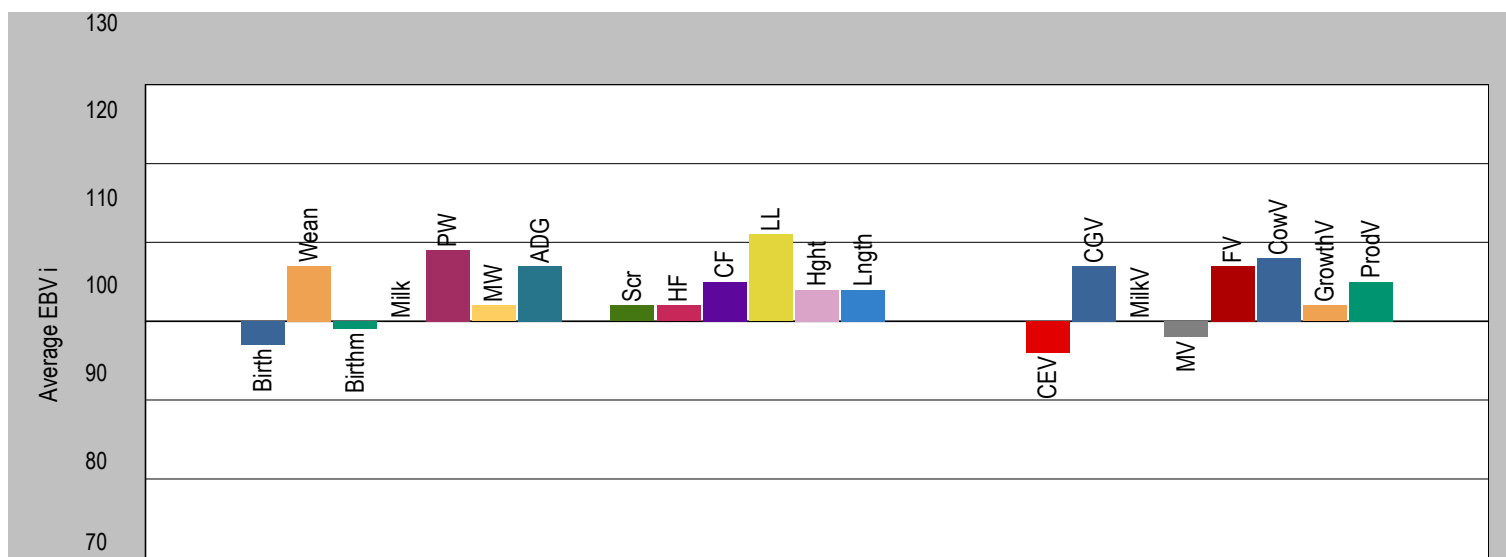
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for 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	1.39	97	1.11
	Wean Weight	18.8	107	14.7
	Birth Mat.	-0.04	99	-0.07
	Milk (Wn.Mat.)	0.9	100	0.7
Postwean Growth	Postwean Wt	30.1	109	23.1
	Mature Weight	21	102	19
	ADG	124	107	95
	FCR			
Fertility	Scrotal Circumf.	11.2	102	10.4
	Heifer Fertility	-5.7	102	-3.8
	Cow Fertility	-6.8	105	-5.8
	Longevity	40.3	111	33.0
Frame	Height	15	104	12
	Length	29	104	24
Carcass	Dressing%			
	RedMeatYield			
	Marbling			

Selection Value	Ave. Herd
Calving Ease	96
Calf Growth	107
Milk	100
Maintenance	98
Fertility	107
Cow Value	108
Growth Value	102
Production Value	105

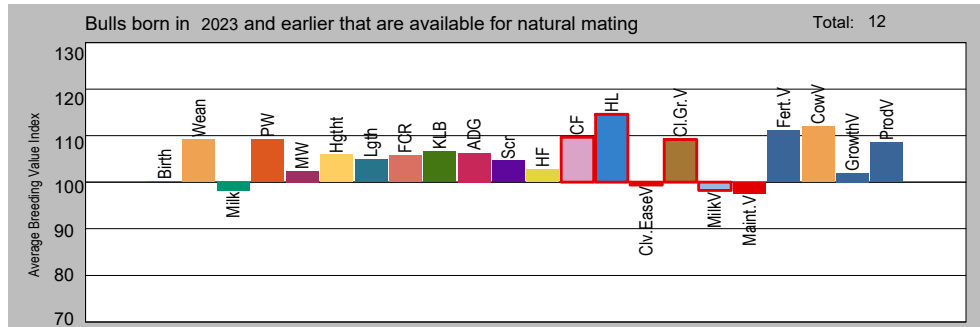
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

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

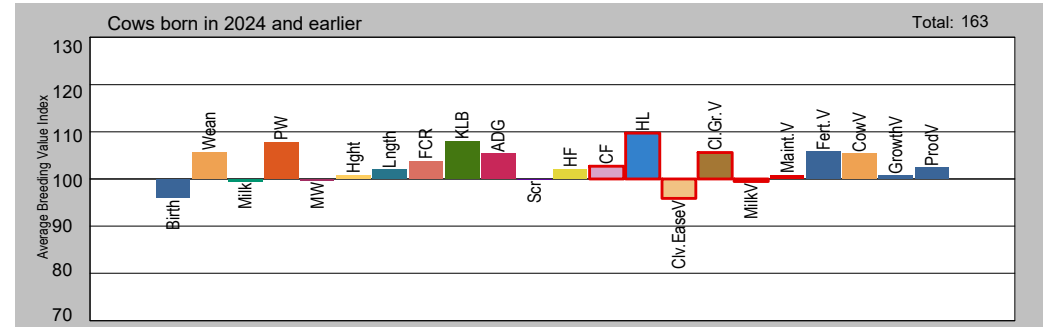
Genetic Windows

Bulls on the farm



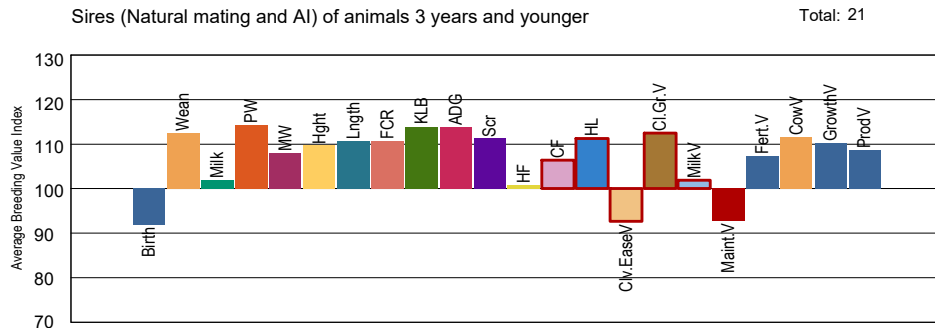
Animals available for breeding

Cow Herd

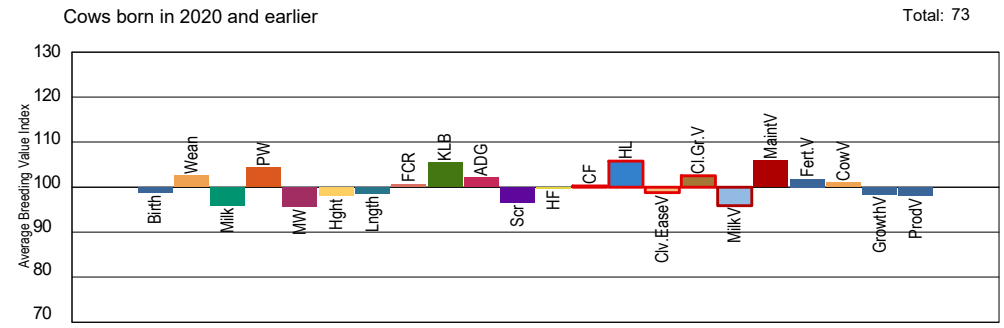


Results of previous selection decisions

Sires of young animals

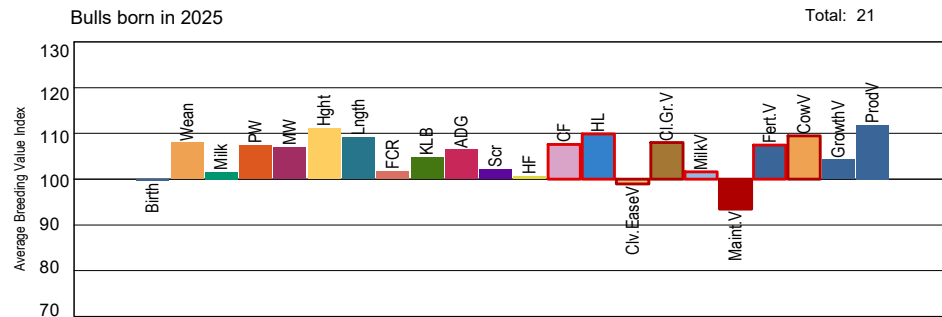


Cows older than 6 years

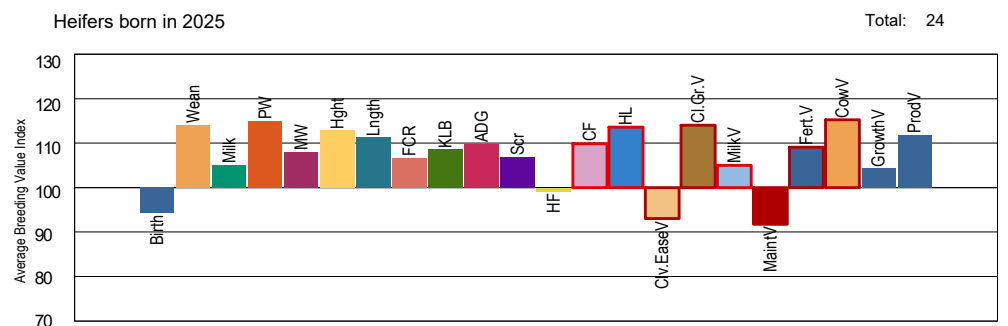


Selection possibilities

Bull calves



Heifer calves

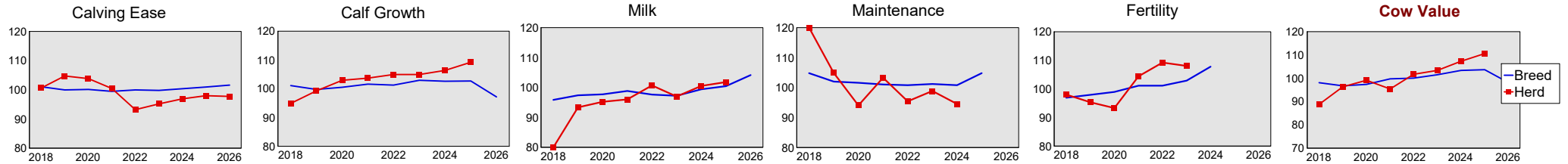


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertility				Frame	
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
		Cows in Breed Average:	100	100	100	101	100	100	100	99	99	100	100	100	100	100	100	99	99	99	100	100	100	99
2011	1	★★★★☆	107	90	115	88	114	101	86	96	107	90	97	115	91	112	99	101	90	111	108	112	94	99
2012	2	★★★★	96	96	95	104	106	94	89	90	94	96	107	95	96	95	96	98	97	104	108	102	92	96
2013	2	★★★★☆	97	95	93	110	92	88	92	84	99	95	97	93	99	89	99	109	97	102	82	100	76	88
2014	1	★★★★	106	88	90	122	119	97	72	89	101	88	120	90	86	80	75	77	95	115	116	110	74	76
2015	9	★★★★☆	89	110	105	95	103	107	104	104	91	110	96	105	113	104	108	109	102	101	107	99	105	106
2016	10	★★★★	95	106	90	112	92	97	101	95	93	106	101	90	106	90	102	104	100	82	100	106	97	100
2017	14	★★★★☆	101	102	90	113	104	102	99	99	99	102	106	90	104	90	102	106	103	100	104	107	92	96
2018	10	★★★★☆	99	102	94	108	108	103	98	100	97	102	103	94	100	93	100	101	97	107	105	106	97	97
2019	14	★★★★	103	99	95	107	102	99	97	96	105	99	93	95	103	95	102	107	90	104	95	108	100	97
2020	10	★★★★☆	102	105	104	97	98	105	101	102	104	105	94	104	108	106	105	107	88	98	93	108	108	103
2021	13	★★★★☆	94	104	105	103	104	105	100	102	95	104	97	105	108	96	104	107	101	102	99	109	100	100
2022	25	★★★★☆	93	109	103	93	109	109	102	106	92	109	102	103	110	107	107	108	104	104	106	112	104	106
2023	29	★★★★★	92	110	101	95	111	110	104	107	91	110	103	101	112	105	109	111	105	104	106	116	101	105
2024	24	★★★★☆	96	107	102	99	108	109	102	106	98	107	95	102	110	101	109	113	99	104	104	112	105	105
2025	24	★★★★★	93	114	105	92	109	115	104	112	94	114	98	105	115	108	110	109	107	99	110	114	113	111
2026	25	★★★★★	95	110	104	98	110	113	101	109	96	110	97	104	110	101	109	110	103	105	107	112	106	106
Cows in Herd Average:			97	103	99	102	106	103	97	100	97	103	100	99	104	98	102	105	99	103	103	108	98	99

Genetic Trends for On-Farm Traits

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



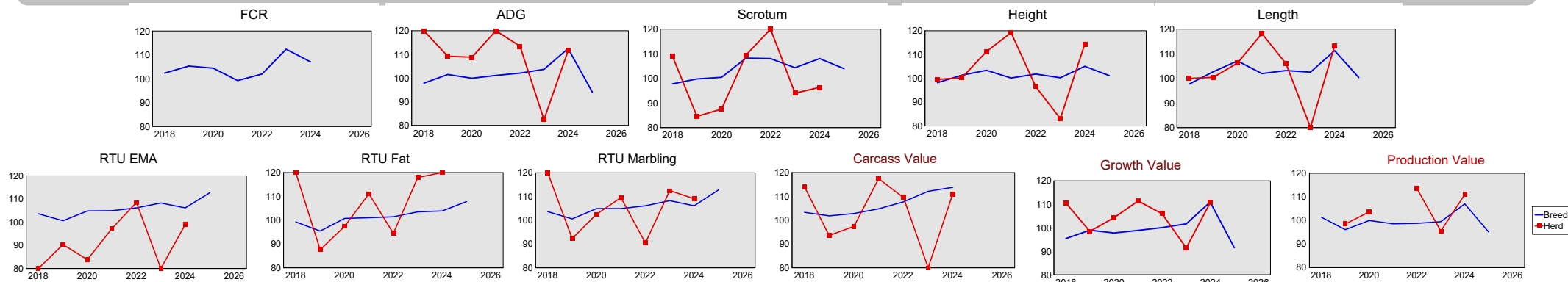
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility								Cow Value
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Mainte-nance	Heifer Fert.		Cow Fert.		Longevity		Ferti-lity			
	Number	Dir EBV			Number	EBV		Number	EBV	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number		EBV		
2018	29	1.13	-0.20	101	17	11.9	95	17	-7.38	73	10	25.2	9	-7	130	6	-0.6	6	-5.8	28	29.9	98	89	
2019	43	0.53	0.31	105	28	14.3	99	28	-1.30	93	24	26.3	14	10	105	15	-2.1	13	-3.7	44	33.9	95	96	
2020	67	0.57	0.27	104	55	16.3	103	55	-0.69	95	35	32.7	17	23	94	14	0.7	13	-3.0	67	33.0	93	99	
2021	45	0.89	0.20	100	73	16.7	104	73	-0.48	96	54	29.5	21	14	103	14	-4.4	11	-6.6	73	36.3	104	95	
2022	92	1.74	-0.19	93	81	17.4	105	81	0.91	101	35	29.5	17	24	95	15	-7.6	1	-6.6	31	36.1	109	102	
2023	139	1.58	-0.14	95	121	17.4	105	121	-0.15	97	42	28.4	2	9	99	6	-4.4					108	103	
2024	120	1.33	-0.03	97	108	18.2	106	108	0.86	101	65	30.5			95								107	
2025	97	1.23	-0.04	98	93	19.8	109	93	1.27	102													111	
2026	52	1.22	0.00	98																				

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility							Cow Value
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity		
	Number	Dir EBV			Number	EBV		Number	EBV	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number		EBV	
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			EMA			Fat		Marbling		Carcass Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	RTU Number	EBV	EBVi	EBV	EBVi	EBV	EBVi			
2018				2	186	122	2	15.3	109	2	12	100	2	25	100	2	-1.99	67	7.13	154	2.89	130	114	111	
2019				4	134	109	7	2.1	85	8	12	100	4	25	101	8	-0.04	90	-1.38	88	-0.20	92	94	99	99
2020				12	133	109	12	3.6	88	12	19	111	12	31	106	27	-0.56	84	-0.12	97	0.64	103	97	104	104
2021				5	191	123	5	15.5	109	5	24	119	5	44	118	46	0.53	97	1.62	111	1.19	109	117	111	
2022				2	152	114	2	21.7	121	2	10	97	2	31	106	2	1.46	109	-0.55	95	-0.35	91	110	106	114
2023				2	21	83	2	7.1	94	2	2	83	2	-1	77	2	-2.08	66	2.54	118	1.42	113	74	92	96
2024				3	145	112	3	8.3	96	3	21	114	3	39	113	3	0.71	99	3.23	123	1.14	109	111	111	111
2025																									
2026																									

Breed

Birth Year	Growth									Frame						Carcass						Selection Values			
	FCR			ADG			Scrotum			Height			Length			RTU Number	EMA		Fat		Marbling		Cracss Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		EBV	EBVi	EBV	EBVi					
2017	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. 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.
20164169		189/11		94	130	105	90	124	140			94	130	104	105	135	110			130	120	119	112						8	25
RED DOC DIABLO 6306 (P)				61	84	62	37	48	62			1.63	31.3	-0.21	2.4	50.0	29			26.8	-19.5	-9.6	41.3						8	14
BR 160002		D551		86	118	127	86	79	111	131	114	76	118	107	127	134	112	133	136	99	72	92	96	133	117	122	111	114	6	31
FREEMAN				79	89	74	31	64	71	35	64	3.18	24.8	-0.36	8.9	49.3	31	235	-62	10.1	18.3	-4.1	30.3	32	43	2.62	1.67	1.57	11	14
												82	89	66	74	55	31	42	26	45	68	42	82	45	44	33	29	28		
CJ 160015		ER 100015		86	116	101	108	76	101	99	98	83	116	109	101	115	90	105	106	112	74	84	96	98	102	80	139	97	41	4
CJ1615				87	65	61	45	61	63	29	56	2.58	23.3	-0.41	1.0	35.0	10	118	-27	16.9	16.8	-2.5	30.3	11	27	-0.90	5.16	0.15	1	9
												91	65	70	61	39	45	37	16	43	69	35	80	45	43	38	34	33		
DJW 100077		DJW 070061		119	97	109	105	93	105	90	100	121	97	86	109	98	93	97	109	92	104	87	92	80	96	92	84	112	6	49
10077DJW				92	94	91	84	89	86	84	86	-0.73	13.0	0.47	3.4	22.0	12	81	-30	6.2	-7.2	-3.2	27.2	0	20	0.13	-1.87	1.40		
												92	94	90	91	86	84	84	83	85	88	85	93	85	84	84	84	84	17	50
DT 060316		DT 030062		118	107	47	147	106	103	86	97	114	107	111	47	95	63	80	72	80	104	110	99	68	85	57	115	95	85	70
MNR PERFEK 06 316				93	94	88	64	77	82	74	80	-0.05	18.4	-0.48	-15.4	19.2	-16	11	14	-0.6	-6.6	-7.8	32.4	-7	8	-2.74	2.15	0.01	22	55
												95	94	85	88	87	64	87	57	91	82	57	92	91	90	81	82	76		
ER 070040		VV 030132		96	90	108	124	78	83	97	82	101	90	85	108	92	79	100	101	101	101	66	83	89	95	81	103	93	21	
WILLIE				83	64	60	27	61	60	32	54	1.03	9.0	0.50	3.0	17.2	-1	95	-21	11.0	-4.6	1.2	21.4	5	19	-0.82	0.57	-0.16		
												87	64	65	60	46	27	34	25	39	61	41	80	39	37	30	28	26	1	2
ER 100015		JO 060210		87	125	106	85	90	115	113	114	75	125	111	106	124	117	114	109	126	92	91	97	114	115	107	128	112	53	4
WILLIAM				91	77	74	38	70	71	34	64	3.23	28.3	-0.51	2.7	41.8	35	153	-30	24.7	2.7	-4.0	30.8	20	41	1.37	3.83	1.36		
												94	77	80	74	53	38	37	26	42	79	44	88	42	40	33	30	29	11	21
HHB 080008		AB 970081		114	93	122	88	118	112	91	107	109	93	112	122	90	110	102	100	111	125	108	102	104	105	94	114	106	27	
IAN 08/08				87	57	65	35	58	59	32	54	0.36	10.9	-0.54	7.5	15.8	29	105	-20	16.5	-23.7	-7.4	34.3	14	30	0.30	1.97	0.91		
												90	57	76	65	42	35	42	19	47	61	31	82	48	46	32	28	27	3	11
HHB 140020		KSS 100022		107	89	56	161	91	79	83	75	106	89	102	56	95	46	87	89	91	89	101	91	72	76	42	143	122	24	11
ORION 14/20				85	78	72	62	61	70	29	62	0.63	8.9	-0.16	-12.5	19.4	-32	38	-7	5.4	5.3	-6.0	27.1	-5	-1	-4.02	5.66	2.24		
												89	78	70	72	62	62	36	19	39	64	41	79	40	39	44	40	39	6	20
HHB 180009		KSS 100022		82	122	83	94	100	106	123	108	83	122	96	83	132	108	131	126	128	85	114	105	118	119	82	148	127	11	35
ALASTAIR				80	88	65	50	56	70	30	62	2.58	26.6	0.08	-4.5	48.1	26	225	-50	25.7	8.0	-8.7	36.3	23	45	-0.67	6.38	2.63		
												84	88	64	65	69	50	38	19	42	62	35	72	43	42	58	53	51	2	3
HHB 190021		JH 170046		90	113	100	102	115	115	112	113	91	113	101	100	113	97	114	116	118	104	120	111	87	102	103	130	109	46	42
HHB1921				94	94	89	87	88	86	88	86	1.88	21.7	-0.11	0.8	33.1	16	154	-39	20.0	-6.8	-9.8	40.3	4	26	0.98	4.05	1.19		
												95	94	89	89	90	87	87	87	90	88	87	90	90	88	89	89	89		

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	Fertility	ty					
HHB 200006 HHB2006		JH 150098 HHB 110013	106	80	117	129	94	89	79	83	109	80	89	117	84	75	79	85	76	111	72	105	80	67	56	106	88	56	27
			93	92	85	84	85	84	84	84	0.37	3.7	0.37	6.0	11.0	-5	7	-2	-2.6	-12.2	0.0	36.5	0	-12	-2.84	1.02	-0.59	2	
HHB 200033 HHB2033		JH 170069 FR 170003	86	119	86	97	91	103	112	103	90	119	92	86	124	103	119	117	112	85	88	115	122	118	116	97	110	1	1
			68	71	54	32	43	56	39	53	1.97	25.3	0.24	-3.4	41.8	22	175	-40	16.6	7.8	-3.4	43.1	25	44	2.06	-0.16	1.21		
HHB 200064 HHB2064		JH 160047 LL 160124	128	104	100	88	95	111	100	107	131	104	81	100	107	113	98	89	70	91	90	114	113	106	87	97	97	34	25
			91	91	85	82	83	82	82	82	-1.57	16.7	0.66	0.8	28.6	32	87	-7	-5.9	3.4	-3.7	42.2	20	31	-0.32	-0.23	0.21	1	
HHB 210076 2176		VV 170002 HHB 150026	80	120	109	99	109	119	122	119	86	120	90	109	129	99	141	132	111	101	109	111	128	127	120	148	144	7	7
			86	87	83	80	81	79	82	80	2.31	25.6	0.33	3.4	45.2	18	268	-58	16.5	-4.8	-7.7	40.2	29	54	2.38	6.38	3.96		
HHB 210079 2179		VV 170002 LL 150212	97	120	123	82	117	133	112	129	100	120	92	123	122	119	123	119	126	97	121	124	129	124	135	125	126	34	29
			90	92	86	82	84	83	84	83	1.10	25.7	0.23	7.6	40.1	37	192	-42	24.8	-1.8	-10.0	49.6	29	51	3.63	3.45	2.55	1	
HHB 220017 HHB2217		JH 180069 FR 170003	100	119	90	95	122	124	122	123	97	119	111	90	118	106	125	124	122	112	118	121	113	116	143	99	87	10	2
			87	86	81	79	80	78	78	78	1.35	25.1	-0.51	-2.3	37.0	25	201	-49	22.5	-13.1	-9.4	47.1	20	42	4.27	0.11	-0.63		
IGB 200022 IGB200022		KVS 150194 K 160040	86	109	118	86	109	110	102	107	80	109	108	118	113	114	112	115	96	105	102	114	98	107	112	94	94	9	5
			77	68	54	34	48	58	38	54	2.80	19.4	-0.39	6.1	33.3	32	147	-37	8.3	-8.1	-6.2	42.8	11	32	1.75	-0.52	-0.06		
J 140019 J140019		LL 110081 J 120006	85	126	112	77	114	127			87	126	101	112	132	126	114	108	115	102	122	108	124	121	116	106	136	1	46
			54	90	76	33	63	67			2.25	28.9	-0.11	4.3	47.8	44	156	-30	18.3	-5.1	-10.2	38.8	26	48	2.09	0.92	3.34		
JC 020058 02 58 CALGA WEST		GR 930021 JC 990118	105	88	74	117	108	83	72	77	101	88	125	74	85	84	80	96	78	106	122	81	62	75	67	97	99	128	
			95	83	85	53	78	77	39	69	1.01	8.1	-1.05	-7.1	11.8	4	12	-15	-1.8	-9.0	-10.2	20.3	-11	-2	-1.94	-0.15	0.35		
JC 140099 14 099		292796 JC 110148	95	112	73	83	90	91	113	92	94	112	130	73	110	123	114	108	101	71	110	105	117	110	103	89	96	2	31
			65	88	71	48	59	68	30	60	1.61	21.2	-1.22	-7.5	31.2	41	155	-29	10.7	19.3	-7.8	36.5	22	35	1.05	-1.24	0.13		
JC 150146 15 146 ANDRE		JR 110035 JC 120030	89	94	124	77	88	88	82	83	76	94	116	124	91	125	66	50	92	95	78	106	108	101	88	98	113	81	66
			90	93	78	61	64	77	40	70	3.15	11.6	-0.67	8.1	16.3	43	-49	39	6.2	0.3	-1.2	37.2	17	26	-0.23	-0.09	1.45	5	15 24

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						
JH 120101		ER 090048		101	103	113	89	91	102	110	101	106	103	84	113	104	110	116	108	100	96	85	101	121	128	103	102	93	7	5
12 101		JH 090003		74	73	58	36	47	60	40	56	0.60	16.4	0.54	4.6	26.4	29	165	-29	10.2	-0.8	-2.7	33.9	25	54	1.01	0.51	-0.17		
												79	73	56	58	52	36	58	13	71	45	28	67	72	67	64	58	55	2	8
JH 140084		KVS 080229		110	83	137	107	88	96	74	88	105	83	122	137	92	88	89	106	102	103	73	99	81	88	96	84	84	16	19
BARON		ER 060004		82	85	69	46	60	70	45	65	0.67	5.4	-0.92	12.0	16.6	8	49	-27	11.6	-6.4	-0.3	32.0	1	12	0.42	-1.90	-0.83	1	5
												86	85	68	69	72	46	52	33	63	63	36	80	58	56	56	51	49		11
JH 140101		DT 060316		110	115	64	117	112	113	106	111	104	115	119	64	117	85	106	100	100	107	115	103	81	96	73	110	79	93	49
KORTMAN		ER 050002		94	92	85	62	71	80	71	78	0.79	23.1	-0.79	-10.1	36.5	5	119	-20	10.2	-9.7	-8.9	34.8	0	20	-1.47	1.48	-1.24	7	27
												96	92	85	85	78	62	70	67	80	80	46	88	77	75	71	68	66		47
JH 150098		JL 110044		111	92	91	135	87	91	89	87	119	92	71	91	96	72	93	93	76	104	66	104	100	88	88	99	93	55	49
MAJOOR		KVS 110348		94	94	90	87	87	86	83	85	-0.53	10.2	1.06	-2.1	20.4	-7	63	-12	-2.8	-7.2	1.1	35.8	12	12	-0.23	0.03	-0.15	1	17
												95	94	88	90	90	87	83	82	84	87	83	90	84	84	89	87	86		42
JH 160047		JL 110044		113	118	105	72	89	117	118	116	121	118	71	105	132	135	124	113	59	89	88	104	138	119	93	82	96	80	67
JACK		ER 060085		92	93	84	74	69	80	59	76	-0.66	24.7	1.04	2.3	47.7	52	196	-35	-11.8	5.0	-3.3	36.0	35	45	0.23	-2.06	0.11	10	20
												95	93	82	84	85	74	72	40	83	77	47	84	84	78	86	83	81		49
JH 170046		254730		98	108	111	95	107	113	109	111	98	108	104	111	110	103	115	134	116	98	113	105	102	101	119	121	118	57	50
ATOOM		JH 120155		95	96	93	91	93	88	92	89	1.31	19.0	-0.23	4.1	31.2	22	161	-60	19.2	-2.3	-8.5	36.5	13	25	2.35	2.93	1.89		
												96	96	93	93	92	91	92	92	93	93	91	94	93	92	92	92	92	13	21
JH 170053		254730		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		JH 110090		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
												96	95	87	88	90	85	87	88	90	86	84	90	89	88	90	89	87		11
JH 180069		SS 130048		93	102	97	88	127	106	114	106	91	102	109	97	108	114	116	118	119	127	117	110	106	107	143	94	71	98	87
1869		JH 100083		96	96	91	90	91	88	90	88	1.86	15.8	-0.42	-0.1	28.9	32	165	-41	20.4	-25.1	-9.3	39.6	16	32	4.31	-0.53	-1.94	1	3
												97	96	91	91	94	90	90	89	92	90	89	93	90	90	91	90	90		3
JH 190022		SS 130048		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		JH 130085		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		
												90	96	85	87	87	84	84	83	88	86	83	89	84	84	84	84	84	1	1
JH 220025		JH 180069		86	120	90	91	119	116	120	116	89	120	96	90	123	110	124	122	126	103	118	125	120	120	145	89	93	7	6
2225		JH 170040		88	88	84	81	82	80	81	80	2.09	25.5	0.08	-2.2	40.6	29	197	-46	24.6	-6.2	-9.5	49.8	24	46	4.48	-1.18	-0.14		
												89	88	83	84	85	81	81	81	82	82	81	84	84	84	83	83	83		
JO 080028		JO 010138		89	93	102	138	82	85	101	85	96	93	83	102	96	69	108	104	71	93	80	90	105	104	97	96	99	9	93
08 28		JO 020086		92	96	94	84	91	87	86	87	1.49	10.8	0.60	1.2	19.8	-11	128	-25	-5.3	1.8	-1.7	26.1	15	29	0.52	-0.37	0.34	6	38
												92	96	90	94	86	84	86	85	88	92	86	96	88	87	85	84	84		109

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	Value	Dir	Dir	Mat.	Mat.	wt	weight					Fertility	Fertility	ty						Grwth
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
KSS 100022		KVS 040108	KSS 060030	94	111	69	129	85	93	113	94	96	111	98	69	120	78	115	112	121	80	98	91	102	101	57	154	144	69	7
10 22				94	88	89	75	77	81	50	75	1.45	20.7	0.03	-8.7	38.6	-1	161	-34	21.7	12.1	-5.4	27.1	13	26	-2.77	7.13	3.96	2	27 91
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
KVS 070172		DJW 020020	SP 020003	86	91	74	111	75	63	92	63	90	91	92	74	102	89	98	100	83	81	89	75	80	83	67	98	91	106	
07 172				94	84	86	60	73	77	49	71	1.96	9.7	0.24	-7.2	24.8	9	87	-20	1.2	11.2	-3.6	15.7	0	6	-1.92	-0.04	-0.27		17 65
KVS 110137		DO 070028	CTR 030068	120	105	87	94	108	110	98	106	123	105	85	87	105	106	99	99	95	97	127	89	105	104	103	107	118	19	35
KVS110137				84	88	74	42	66	73	24	63	-0.85	17.6	0.51	-3.3	26.7	25	89	-19	7.6	-1.2	-11.3	25.7	15	29	1.01	1.06	1.87		8 25
KVS 150194		KVS 120146	JR 030028	88	117	133	75	108	125	118	123	83	117	113	133	122	126	130	119	128	108	101	110	103	123	130	101	79	125	89
KVS150194				96	96	90	88	90	87	88	87	2.58	24.1	-0.56	10.7	40.1	44	222	-42	25.6	-9.8	-6.0	39.9	14	49	3.22	0.36	-1.31	9	16 23
KVS 160043		KVS 130164	KVS 120148	82	120	99	87	128	122	127	122	92	120	76	99	124	114	122	121	135	124	116	120	118	116	94	81	94	30	18
KVS160043				85	82	71	39	61	69	52	66	1.82	25.5	0.87	0.3	41.7	33	187	-45	29.2	-22.8	-9.0	46.5	23	42	0.30	-2.24	-0.02	1	13 15
LL 110153		LL 080127	LL 060017	85	117	102	82	59	90	103	89	82	117	106	102	112	120	105	97	98	60	73	85	113	118	115	107	106		85
LL110153				69	95	87	38	76	75	30	66	2.69	23.9	-0.29	1.4	32.6	39	116	-17	9.3	27.9	-0.3	23.0	20	44	2.00	1.05	0.92	1	20 61
LL 110167		LL 080109	LL 070056	101	99	91	96	94	91	113	93	99	99	107	91	98	104	114	103	114	113	79	92	124	116	123	102	132		17
LL110167				48	85	68	23	57	61	24	54	1.19	14.2	-0.36	-1.9	21.5	23	154	-23	17.9	-14.3	-1.5	27.6	26	42	2.67	0.49	2.99		3 11
LL 120127		DT 080045	LL 060096	88	93	128	87	107	98	105	97	94	93	86	128	101	112	106	105	93	104	117	91	118	109	104	97	107	3	16
LL120127				68	88	85	28	70	71	32	63	1.63	11.0	0.48	9.1	24.2	30	122	-25	6.4	-7.1	-9.2	26.5	23	34	1.14	-0.20	1.00		16 64
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

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						Dgt/Calvs.	
LL 140164		LL 070070	LL 060035	92	102	91	94	102	94	105	93	94	102	99	91	100	106	98	81	99	97	106	104	114	105	97	113	124		72	
LL140164				56	94	84	48	70	72	30	64	56	94	57	84	60	48	44	13	55	79	44	86	63	49	0.51	1.90	2.39		23	47
LL 150251		LL 120021	LL 120151	85	112	108	82	117	113	112	112	78	112	106	108	108	119	108	99	107	122	109	99	115	117	110	112	108		16	
LL150251				49	85	67	29	52	61	23	53	52	85	38	67	38	29	30	13	37	50	31	76	35	33	1.55	1.69	1.10		4	7
LL 170304		LL 120014	LL 070049	97	111	99	94	88	102	115	102	94	111	113	99	111	106	115	107	115	85	89	105	111	110	96	108	103	121	59	
LL170304				96	95	90	88	90	87	88	87	97	95	90	90	88	88	88	87	88	90	88	93	88	88	88	88	88	1	1	1
LL 170313		LL 140108	LL 120081	108	101	115	94	112	114	106	111	102	101	118	115	97	104	103	95	109	113	100	114	113	107	99	96	112		37	
LL170313				85	94	88	84	87	83	84	83	0.92	15.3	-0.77	5.3	21.1	23	109	-14	15.2	-14.4	-5.8	42.4	20	32	0.65	-0.34	1.39		4	5
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
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	2.90	28.1	-0.02	-3.7	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 110067		KT 080007	SP 090010	86	121	82	95	103	108	109	107	84	121	107	82	121	106	112	107	110	94	116	96	111	117	105	85	90		29	
CALIBRE				57	89	81	23	69	68	39	62	2.49	26.2	-0.36	-4.6	39.5	25	146	-28	16.1	0.9	-9.0	30.2	18	42	1.15	-1.75	-0.42	1	14	42
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	2.62	27.4	-0.23	-6.2	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	1.26	19.1	0.61	7.8	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 160058		SP 110076	SP 080066	86	125	70	80	81	95	128	99	74	125	107	70	130	127	129	115	118	73	90	103	101	121	124	54	109	84	74	
HOTSPUR				94	95	89	85	88	86	87	86	3.33	28.3	-0.32	-8.3	46.5	45	217	-38	20.4	17.5	-3.7	35.1	13	47	2.71	-5.70	1.16	3	7	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.
	Name																												
SS 130031	 VV 080131 SS 100004	CHAMP	95	114	111	87	119	122	102	117	93	114	110	111	103	113	100	86	129	131	102	103	121	120	78	139	102	161	108
			98	98	96	95	95	91	96	92	1.69	22.1	-0.45	4.1	25.8	32	95	-3	26.1	-28.7	-6.2	35.1	25	46	-1.06	5.24	0.60	17	47 109
SS 130048	SS 090003 ER 050030	MIDNIGHT	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
			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
VV 080131	 JR 060013 VV 060097	08 131	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
			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	6	19 70
VV 100040	 VV 060027 VV 070024	VV100040	88	98	98	114	73	81	82	77	87	98	110	98	90	85	82	79	88	62	94	93	88	94	88	93	93	184	170
			98	98	97	94	96	91	94	92	2.25	13.7	-0.47	0.0	15.5	5	20	5	4.0	26.4	-4.6	28.3	5	18	-0.19	-0.67	-0.16		46 127
VV 120161	VV 020194 VV 080093	VV120161	97	93	92	98	84	79	85	75	94	93	113	92	86	102	89	93	98	85	88	95	71	80	85	80	63	63	37
			92	91	83	53	72	78	62	75	1.66	10.7	-0.57	-1.7	12.5	21	49	-11	9.4	8.2	-3.4	29.9	-6	2	-0.49	-2.37	-2.60	4	17 42
VV 130121	 JL 050119 VV 080139	VV130121	100	117	116	86	122	131	109	127	104	117	88	116	113	114	114	114	107	96	134	121	124	120	109	124	121	116	102
			98	98	96	94	96	91	94	92	0.77	24.0	0.39	5.7	32.9	32	155	-37	14.4	-1.0	-12.8	47.1	26	46	1.54	3.34	2.13		22 54
VV 170002	 VV 130121 VV 090163	VV170002	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
			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	4	16 16
VV 200028	 VV 100040 VV 170015	VV200028	91	121	97	88	97	112	107	110	87	121	117	97	110	113	98	84	112	82	110	108	135	126	116	94	108	47	35
			93	93	88	84	86	85	86	85	2.26	26.0	-0.75	-0.2	30.6	32	88	-1	17.0	10.2	-7.8	38.4	33	53	2.10	-0.60	1.07	2	
VV 200169	 VV 120148 VV 170200	VV200169	91	108	101	91	97	100	110	100	94	108	96	101	106	109	114	109	107	91	100	107	106	107	111	83	81	32	3
			91	88	85	81	85	82	82	82	1.67	18.8	0.10	1.0	27.5	28	155	-31	14.2	3.0	-5.7	37.7	16	32	1.65	-2.01	-1.13		

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 Value	Wean dir	End-weight	Length	Height	Length/Height	Scrotum	Intake	ADG	FCR	Growth Value	EMA	Fat	Marbling	Carcass Value
Test station	ID	Dam ID															
201803 B22 F	0606532SGT																
HAVEMANN	JH 170001	DT 060316	121	110	109	103	85	128	104	86	108	96	110	69	116	97	104
	291081891	ER 070002	66	77	33	28	3	1.20	12.8	0.84	130	-15	44	-1.80	2.28	0.20	68
					59	59	65	62	65	30	55	30		71	66	64	
202003 B12 M	8424150SGT																
HARDING	HHB 190021	JH 170046	115	113	112	102	87	122	118	96	114	116	112	103	130	109	122
	291232841	JH 170001	86	94	36	26	4	1.18	20.0	0.66	154	-39	88	0.98	4.05	1.19	89
					88	88	90	89	90	87	87	87		89	89	89	
202004 B22 F	0606532SGT																
HAVEMANN	JH 180098	SP 140020	123	111	102	91	83	106	96	117	105	122	100	58	154	144	129
	291178218	SP 150091	66	77	27	15	2	1.14	8.4	0.28	117	-45	38	-2.65	7.13	3.96	62
					42	42	74	58	46	34	39	34		65	59	57	
	JH 190010	SS 130048	104	105	109	109	116	95	110	90	116	115	114	109	82	76	90
	291204162	JC 140069	63	74	34	34	22	1.11	15.8	0.75	165	-38	39	1.54	-2.12	-1.52	62
					41	40	74	57	46	37	38	37		65	59	58	
202007 B12 F	0606532SGT																
HAVEMANN	JH 190073	SP 110076	92	104	102	97	85	114	85	95	111	110	102	109	66	78	95
	291230829	JH 140105	64	74	26	21	3	1.16	2.2	0.67	142	-31	39	1.49	-4.17	-1.34	62
					44	44	74	59	45	34	41	34		65	59	57	
202106 B22 F	8424150SGT																
HARDING	HHB 210016	JH 150098	91	86	80	77	86	75	80	117	91	94	84	87	96	76	74
	291328680	HHB 110013	61	71	5	0	3	1.06	-0.7	0.27	55	-13	30	-0.31	-0.37	-1.50	63
					37	36	38	37	37	22	33	22		66	60	58	
	HHB 210019	BR 160002	108	110	112	110	119	94	102	86	119	115	120	132	98	116	118
	291328797	J 180086	60	71	37	35	23	1.11	11.7	0.83	175	-38	21	3.42	-0.06	1.70	56
					28	28	30	29	29	14	26	14		60	53	51	
	HHB 210027	LL 180284	98	101	96	96	104	87	98	101	95	86		82	96	87	86
	291338085		47	48	20	20	14	1.09	9.1	0.56	76	-4		-0.74	-0.33	-0.64	56
					17	17	17	17	18	8	16	8		59	52	50	
202108 B22 F	8424150SGT																
HARDING	HHB 210029	JC 150146	84	91	88	96	101	92	89	117	81	75	87	84	96	78	71
	291341378	FR 170089	60	66	12	21	13	1.10	4.2	0.27	15	10	26	-0.57	-0.35	-1.35	62
					36	36	38	37	39	17	33	17		65	59	57	
	HHB 210037	JH 150098	89	92	86	87	91	87	84	116	88	86	83	84	108	120	87
	291341428	HHB 120005	62	72	10	10	7	1.09	1.5	0.30	43	-4	26	-0.59	1.26	2.08	63
					30	30	31	30	31	21	27	21		66	60	57	
	HHB 210038	JH 160047	113	112	105	105	112	94	85	92	109	104	108	79	119	144	106
	291373645	HHB 170011	61	71	29	30	19	1.11	2.5	0.72	135	-25	34	-0.94	2.64	3.96	65
					46	46	49	48	48	22	42	22		68	62	61	
202110 B22 F	8424150SGT																

Growth Tests

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

Animal				Weight		Frame				Growth				Carcass			
Test Code	Sex	Test no	Sire ID	Cow	Wean	End-	Length	Height	Length/	Intake	ADG	FCR	Growth	EMA	Fat	Marbling	Carcass
Test station		ID	Dam ID	Value	dir	weight			Height				Value				Value
202110 B22 F			8424150SGT														
HARDING		HHB 210045	HHB 180009	131		126	123	119	117	112	129		119	83	122	110	115
		291373710	LL 170083	59		72	47	45	23	1.15	26.2		24	-0.59	2.98	1.20	60
		HHB 210053	VV 170002	107		105	100	100	98	101	97		95	96	114	116	95
		291373793	HHB 190010	59		71	25	24	11	1.13	8.5		27	0.40	1.97	1.72	63
		HHB 210055	VV 170002	106		108	95	92	90	99	95		93	91	132	144	105
		291373819	HHB 180027	59		71	20	16	6	1.12	7.6		24	0.04	4.25	3.96	63
202201 B12 F			8424150SGT														
HARDING		HHB 200046	JH 160047	97		104	95	95	103	87	70		98	72	105	114	91
		291295020	HHB 160003	65		74	19	19	14	1.09	-6.0		34	-1.57	0.79	1.57	66
		HHB 200060	JH 160047	91		92	87	87	96	81	64		89	48	98	100	72
		291316529	HHB 180002	61		70	11	11	10	1.08	-9.1		31	-3.47	-0.09	0.42	64
		HHB 200063	JH 160047	110		108	111	114	121	100	80		105	83	96	108	98
		291316560	HHB 130001	63		72	35	40	25	1.12	-0.3		33	-0.65	-0.26	1.09	64
202201 B22 F			8424150SGT														
HARDING		HHB 200019	JH 160047	116		107	106	109	116	96	79		102	104	88	101	100
		291278497	HHB 120005	64		73	30	34	22	1.11	-1.0		31	1.07	-1.40	0.52	64
		HHB 200022	JH 150098	88		96	92	93	99	89	86		89	88	96	99	88
		291278513	OLG 170007	61		71	17	17	11	1.10	2.9		26	-0.18	-0.32	0.38	62
		HHB 200023	JH 150098	87		96	86	84	90	83	78		88	63	101	95	78
		291278521	SP 150045	63		72	11	8	6	1.08	-1.7		32	-2.29	0.32	0.06	62
		HHB 200032	LL 150251	102		101	95	98	98	100	99			105	109	103	94
		291294882	J 150021	54		71	19	23	11	1.12	9.7			1.19	1.36	0.69	56
		HHB 200034	JH 160047	120		124	119	122	130	103	90		113	101	111	98	111
		291294908	HHB 060014	64		73	43	49	30	1.13	4.8		36	0.83	1.55	0.26	66
202401 D21 M			0560190MIX														
DIE ERIKA KLEYNHANS TRUST		HHB 230058	HHB 200006	104		94	81	77	92	65	90		88	62	115	103	73
		95656872	FR 150055	77		85	5	-1	7	1.03	5.2		80	-2.33	2.14	0.66	82
202501 D21 M			0628446MIX														
SANTARIFIC SANTA STOET		HHB 240046	JH 180069	124		124	127	128	129	114	111		122	131	116	91	121
		97508097	HHB 200034	78		85	51	55	30	1.16	16.2		82	3.31	2.30	-0.31	84

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

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																														
VV 170002 291083269 VV170002	1	VV 130121 VV 090163		95 97	114 97	112 93	94 91	126 93	127 89	102 91	122 89	111 93	100 1.14 98	87 0.44 93	104 23 91	114 22.5 97	112 4.4 93	121 106 94	116 35.4 94	118 171 91	122 -46 90	104 12.5 92	118 -17.9 93	118 -9.5 91	119 46.1 94	110 18 92	110 36 92	116 2.06 93	119 2.61 93	144 3.96 93
HHB 190021 291232841 HHB1921		JH 170046 JH 170001		90 94	113 94	100 89	102 87	115 88	115 86	112 88	113 86	122 89	91 1.88 95	101 -0.11 89	97 16 87	113 21.7 94	100 0.8 89	113 86 90	113 33.1 90	114 154 87	116 -39 87	118 20.0 90	104 -6.8 88	120 -9.8 87	111 40.3 90	87 4 90	102 26 88	103 0.98 89	130 4.05 89	109 1.19 89
HHB 200064 291316578 HHB2064		JH 160047 LL 160124		128 91	104 91	100 85	88 82	95 83	111 82	100 82	107 82	94 82	131 -1.57 93	81 0.66 84	113 32 82	104 16.7 91	100 0.8 85	99 51 86	107 28.6 84	98 87 82	89 -7 80	70 -5.9 83	91 3.4 82	90 -3.7 81	114 42.2 86	113 20 83	106 31 83	87 -0.32 83	97 -0.23 82	97 0.21 82
VV 200028 291270833 VV200028	5	VV 100040 VV 170015		91 93	121 93	97 88	88 84	97 86	112 85	107 86	110 85	111 86	87 2.26 95	117 -0.75 87	113 32 84	121 26.0 93	97 -0.2 88	111 82 88	110 30.6 86	98 88 85	84 -1 85	112 17.0 86	82 10.2 86	110 -7.8 85	108 38.4 88	135 33 86	126 53 86	116 2.10 86	94 -0.60 85	108 1.07 85
HHB 210079 291374056 2179	1	VV 170002 LL 150212		97 90	120 92	123 86	82 82	117 84	133 83	112 84	129 83	121 86	100 1.10 92	92 0.23 84	119 37 82	120 25.7 92	123 7.6 86	128 123 87	122 40.1 86	123 192 85	119 -42 81	126 24.8 87	97 -1.8 84	121 -10.0 82	124 49.6 86	129 29 88	124 51 87	135 3.63 86	125 3.45 85	126 2.55 85
HHB 220017 291390300 HHB2217	1	JH 180069 FR 170003		100 87	119 86	90 81	95 79	122 80	124 78	122 78	123 78	120 79	97 1.35 89	111 -0.51 80	106 25 79	119 25.1 86	90 -2.3 81	107 71 82	118 37.0 80	125 201 79	124 -49 78	122 22.5 80	112 -13.1 80	118 -9.4 78	121 47.1 82	113 20 79	116 42 79	143 4.27 79	99 0.11 79	87 -0.63 79
HHB 220031 291404085 HHB2231	1	VV 170002 HHB 120010		96 87	105 87	89 85	103 81	116 83	106 80	93 81	101 80	95 82	97 1.34 88	99 -0.03 84	96 16 81	105 17.7 87	89 -2.5 85	97 47 84	111 31.3 86	106 122 81	110 -31 80	96 8.4 82	110 -11.7 83	113 -8.5 81	112 41.0 84	100 12 82	100 24 82	94 0.28 82	113 1.91 82	122 2.24 82
HHB 220032 291404093 HHB2232	1	VV 170002 HHB 170017		96 85	112 85	71 82	106 80	108 81	102 78	97 79	99 78	101 80	100 1.12 86	90 0.34 81	94 14 80	112 21.1 85	71 -7.9 82	89 27 82	114 33.8 84	106 122 79	107 -28 78	102 11.7 80	94 0.7 81	113 -8.4 79	114 42.4 82	95 9 80	100 25 80	96 0.44 81	119 2.64 80	132 3.06 80
LL 220208 94636776 LL220208	1	LL 170313 LL 150050		96 30	111 70	102 52	89 17	108 39	111 46			104 12	91 1.87 31	118 -0.78 27	111 30 17	111 20.6 70	102 1.5 52	107 72 46	103 25.1 42	106 122 16	100 -20 11	110 15.7 20	104 -6.8 41	106 -7.1 26	109 39.2 51	115 21 19	109 34 18	97 0.54 13	106 0.93 12	107 0.97 12
HHB 230014 94904059 SANBOD2314		VV 170002 LL 160124		97 86	105 87	101 84	91 81	107 83	104 80	95 80	100 80	101 82	101 1.03 87	87 0.42 83	109 28 81	105 17.6 87	101 0.9 84	102 59 84	107 28.2 84	102 104 81	103 -23 80	98 9.6 82	103 -6.5 83	103 -6.3 81	111 40.2 84	105 15 82	104 29 81	104 1.13 82	111 1.65 82	124 2.39 82
HHB 230042 95492989 2342		HHB 190021 HHB 170001		99 86	92 86	97 83	119 81	107 81	95 79	94 80	92 79	97 81	99 1.18 87	100 -0.07 83	81 2 81	92 10.5 86	97 -0.2 83	96 45 83	96 19.9 82	97 81 80	102 -22 80	107 14.4 82	105 -7.5 81	102 -6.1 80	110 40.0 83	77 -2 82	85 8 80	77 -1.16 81	127 3.72 81	109 1.13 81
HHB 230058 95656872 HHB 230058	1	HHB 200006 FR 150055		108 84	94 85	97 80	113 78	116 79	104 77	88 80	98 78	73 82	108 0.41 85	96 0.08 79	86 6 78	94 11.4 85	97 -0.2 80	96 45 81	93 18.0 80	83 22 82	92 -11 77	90 5.2 84	113 -14.3 79	102 -6.2 78	122 47.9 80	92 7 85	77 -1 84	62 -2.33 82	115 2.14 81	103 0.66 81

Breeding Values and Accuracies: Bulls

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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 240001 96533377 HH 240001		SP 140020 SP 180029	81 83	110 84	106 83	98 80	120 82	112 78	116 80	111 78	112 80	89 2.04 83	82 0.64 81	100 20 80	110 20.1 84	106 2.6 83	114 87 82	113 33.3 80	120 182 80	124 -48 80	108 14.9 81	114 -15.3 82	122 -10.2 80	103 35.0 83	96 10 81	103 27 81	94 0.25 81	82 -2.16 80	114 1.58 80
HBB 240035 97149439 2435		JH 180069 LL 160124	98 67	108 71	96 53	86 25	108 39	106 55	111 26	105 49	110 32	97 1.36 72	106 -0.28 46	116 34 25	108 19.3 71	96 -0.6 53	98 50 50	109 29.8 48	110 138 29	106 -27 19	113 17.7 43	105 -8.2 40	105 -6.8 25	108 38.3 52	114 21 36	114 40 33	130 3.22 34	98 -0.09 31	91 -0.27 30
HBB 240046 97508097 HBB240046	1 	JH 180069 HHB 200034	88 85	124 85	103 82	67 80	120 81	124 78	122 82	123 79	121 84	90 2.01 86	99 -0.05 81	142 59 80	124 28.0 85	103 1.7 82	109 75 82	129 45.5 83	123 194 83	114 -36 79	111 16.2 86	116 -16.2 81	112 -8.3 79	115 43.2 82	129 30 86	128 55 85	131 3.31 84	116 2.30 83	91 -0.31 82
HBB 240054 97508154 HBB240054		JH 180069 J 180086	93 66	108 71	95 52	85 36	114 38	106 55	118 25	107 49	113 34	91 1.88 71	111 -0.49 44	117 35 36	108 19.1 71	95 -0.7 52	97 48 53	107 28.6 55	117 167 28	110 -31 19	118 20.4 42	115 -15.7 40	106 -7.1 24	108 38.2 51	113 20 36	113 38 33	134 3.53 36	98 -0.07 33	94 -0.09 32
HBB 240064 98032311 2464	1	JH 180069 HHB 200036	94 67	106 69	95 50	88 38	110 38	103 54	110 28	102 49	102 37	96 1.44 72	96 0.10 45	114 32 38	106 18.2 69	95 -0.9 50	96 45 52	116 35.5 58	114 154 31	113 -35 21	100 10.5 44	109 -10.9 42	105 -6.7 23	108 38.7 49	110 18 38	106 31 35	113 1.81 38	99 0.13 36	86 -0.69 35
HBB 240066 98032337 2466		JH 180069 HHB 130001	101 69	91 70	102 53	95 32	125 40	100 55	93 26	96 49	91 36	99 1.19 74	108 -0.38 51	105 24 32	91 9.8 70	102 1.2 53	91 33 52	93 17.4 58	99 89 30	103 -23 20	100 10.6 43	125 -23.4 44	115 -8.9 23	111 40.7 53	93 8 37	97 21 35	108 1.41 38	102 0.42 35	90 -0.39 34
HBB 240067 98032345 2467	1	JH 180069 HHB 110010	105 69	95 70	106 53	87 28	121 37	104 55	101 28	101 50	99 38	104 0.80 74	103 -0.19 50	113 32 28	95 11.8 70	106 2.5 53	95 42 50	98 21.3 56	108 131 34	110 -32 19	105 13.3 47	119 -18.7 38	112 -8.3 21	112 40.9 52	101 13 41	104 29 39	117 2.16 39	96 -0.33 36	80 -1.19 35
HBB 240078 98032428 2478	13	HHB 210079 HHB 210067	104 62	104 67	106 43	93 24	117 34	113 50	94 24	108 45	99 40	109 0.38 68	85 0.53 36	107 25 24	104 16.8 67	106 2.6 43	106 68 45	109 29.8 54	105 118 35	107 -28 9	103 11.9 40	110 -11.5 39	112 -8.3 20	117 44.3 42	105 15 42	102 27 40	109 1.51 41	117 2.37 38	122 2.23 37
HBB 240114 98032782 24114		HHB 190021 HHB 190032	101 86	114 86	104 83	91 81	117 82	122 79	110 80	119 79	116 82	99 1.23 87	108 -0.39 83	109 27 81	114 22.4 86	104 1.8 83	112 84 83	111 31.6 84	113 151 81	109 -31 80	105 13.2 82	104 -6.7 82	121 -10.0 80	115 43.3 83	106 16 82	113 39 81	96 0.42 82	115 2.10 81	103 0.71 81
HBB 250015 98604630 2515	1	JH 180069 HHB 200063	98 67	107 69	103 49	81 36	113 38	109 54	113 28	108 49	108 44	98 1.29 72	103 -0.20 45	121 40 36	107 18.4 69	103 1.6 49	101 56 51	108 29.7 54	118 172 31	115 -38 21	103 12.2 44	107 -9.5 43	110 -7.8 21	111 40.7 50	118 23 38	116 41 35	117 2.20 45	96 -0.34 42	91 -0.33 41
HBB 250020 98604689 2520	1	JH 180069 HHB 120010	87 69	112 70	92 53	86 31	114 39	107 55	116 28	107 50	111 34	83 2.58 74	112 -0.53 50	116 35 31	112 21.5 70	92 -1.7 53	99 52 51	115 34.8 50	120 181 31	116 -39 22	118 20.3 43	111 -12.9 41	112 -8.3 24	105 36.4 53	114 20 37	116 42 35	124 2.74 36	103 0.56 33	89 -0.47 32
HBB 250042 98914302 2542		HHB 210079 HHB 220071	85 64	131 67	109 43	76 25	118 33	133 50	122 24	132 45	131 37	87 2.25 70	102 -0.13 38	128 46 25	131 31.8 67	109 3.4 43	124 112 45	129 45.8 46	131 228 34	123 -48 8	133 28.1 39	99 -3.0 38	123 -10.6 18	119 46.0 42	135 33 40	134 61 38	125 2.85 39	128 3.86 35	127 2.61 34

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Index EBV Acc	% Inbreeding	Sire ID Dam ID		Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																														
HHB 250054 6020136526 2554	1	HHB 210079 HHB 220059		102 63	112 67	119 44	81 20	104 34	118 50	108 24	115 45	110 38	101 1.05 70	103 -0.20 36	120 38 20	112 21.2 67	119 6.4 44	118 97 44	112 32.5 46	110 136 35	103 -24 8	119 20.5 41	95 0.2 39	102 -6.1 20	117 44.7 42	124 26 42	118 45 40	122 2.60 40	112 1.77 36	116 1.72 36
HHB 250061 6020137169 2561	1	HHB 200064 JH 180095		116 66	93 68	97 48	103 29	98 33	96 52	91 25	92 47	85 30	118 -0.43 72	89 0.35 43	96 15 29	93 10.9 68	97 -0.2 48	92 34 48	92 17.1 38	90 52 29	79 5 18	75 -2.9 34	96 -0.5 32	95 -4.8 20	108 38.7 46	99 12 34	96 20 32	75 -1.29 31	110 1.46 29	97 0.17 28
HHB 250066 6020137201 2566	13	HHB 200064 HHB 200017		122 65	104 56	98 45	93 35	99 33	110 47	100 24	106 42	92 40	125 -1.00 71	84 0.54 43	107 26 35	104 16.7 56	98 0.2 45	99 52 45	110 30.9 40	102 105 31	96 -16 15	74 -3.8 35	96 -0.3 33	97 -5.1 22	110 39.8 44	112 19 36	103 28 33	78 -1.08 42	100 0.24 39	104 0.73 38
HHB 250068 6020137227 2568	1	VV 200028 JH 220002		89 66	116 69	89 46	96 31	107 36	109 53	113 30	108 48	115 31	85 2.37 72	116 -0.69 42	104 23 31	116 23.5 69	89 -2.7 46	104 63 49	103 25.5 43	106 122 29	97 -16 27	115 18.6 34	95 0.4 39	114 -8.7 24	108 38.6 45	130 30 34	123 50 33	111 1.69 32	103 0.55 30	106 0.91 28
HHB 250069 6020137474 2569	4	HHB 190021 JH 180077		98 67	99 70	91 49	102 31	116 35	100 54	96 28	97 49	98 38	99 1.22 73	98 0.01 44	97 17 31	99 14.2 70	91 -2.1 49	92 34 50	98 21.9 48	97 83 28	97 -16 25	95 7.7 43	112 -13.7 37	113 -8.4 21	109 39.4 47	86 4 44	92 16 31	83 -0.66 39	123 3.10 36	99 0.31 35
HHB 250070 6020137482 2570	5	VV 200028 HHB 220040		96 64	111 67	91 45	90 23	97 36	102 51	97 24	99 46	101 30	95 1.55 70	106 -0.29 40	111 30 23	111 20.8 67	91 -1.9 45	99 51 45	106 27.6 42	98 85 26	94 -13 19	102 11.6 30	89 5.1 40	100 -5.7 23	110 40.0 44	112 20 31	108 33 30	107 1.31 31	99 0.13 28	113 1.50 27
HHB 250075 6020137516 2575	2	VV 170002 JH 170001		99 69	112 72	104 55	105 33	122 41	123 57	106 30	119 52	108 52	102 0.94 74	92 0.26 51	92 12 33	112 21.2 72	104 1.9 55	117 96 53	113 33.1 56	114 154 39	109 -31 17	105 12.9 45	115 -15.5 45	117 -9.3 26	114 42.8 53	98 11 46	107 33 44	92 0.14 54	118 2.45 50	122 2.19 49
HHB 250080 6020137540 2580		VV 200028 LL 160124		93 67	113 70	99 51	89 16	93 38	104 53	103 24	102 47	106 26	92 1.83 72	108 -0.40 46	112 30 16	113 21.7 70	99 0.3 51	106 69 46	106 28.1 36	97 81 27	86 -3 19	106 13.6 33	85 8.1 38	100 -5.7 27	106 36.9 50	123 26 32	119 45 30	111 1.71 27	97 -0.17 24	109 1.13 23
HHB 250082 6020137565 2582	1	VV 200028 HHB 190015		105 66	106 68	96 48	102 27	97 37	104 53	101 25	101 47	101 29	103 0.83 71	106 -0.29 44	97 16 27	106 17.7 68	96 -0.6 48	102 60 48	103 25.3 43	99 91 26	90 -8 21	104 12.6 30	94 1.0 40	97 -5.2 25	105 36.3 47	119 23 30	111 37 29	102 0.96 30	100 0.19 28	105 0.83 26
HHB 250083 6020137573 2583		VV 200028 J 180086		92 65	110 70	98 50	90 30	99 38	104 54	109 24	102 48	108 28	89 2.06 70	114 -0.60 44	110 29 30	110 20.4 70	98 0.2 50	104 64 50	103 25.2 36	102 104 26	89 -7 19	110 15.6 31	95 0.1 39	101 -5.9 27	106 36.8 48	121 24 32	115 41 30	114 1.89 30	97 -0.17 26	111 1.28 25
HHB 250084 6020137581 2584	1	VV 170002 HHB 110010		95 70	107 70	113 56	86 28	119 40	115 56	100 26	111 50	107 46	98 1.27 74	93 0.21 54	114 32 28	107 18.4 70	113 4.7 56	111 82 51	107 28.6 51	114 155 36	115 -38 10	103 11.8 42	112 -13.7 44	115 -8.8 24	115 43.1 53	109 17 44	111 37 42	108 1.46 47	109 1.29 44	119 1.98 43
HHB 250085 6020137599 2585	1	VV 200028 HHB 220045		93 65	113 67	99 45	90 24	102 37	109 51	105 28	106 46	109 29	90 1.97 71	121 -0.88 42	111 30 24	113 21.7 67	99 0.5 45	107 71 45	107 28.4 42	104 112 29	96 -16 22	117 19.4 33	92 2.3 42	106 -7.1 24	110 40.1 46	114 21 34	116 42 33	112 1.78 30	104 0.70 28	101 0.47 27

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ID Number Name																													
HHB 250086 6020138191 2586	1	VV 170002 HHB 200036	96 67	110 70	103 54	92 38	109 41	111 56	102 26	108 50	103 45	101 1.06 72	87 0.44 49	108 27 38	110 20.2 70	103 1.5 54	108 73 54	116 35.5 54	113 152 34	114 -36 14	91 5.7 38	105 -7.6 48	105 -6.8 26	112 41.0 50	110 18 40	106 31 39	97 0.55 46	112 1.68 44	124 2.34 43
HHB 250087 6020138209 2587	1	VV 170002 LL 150302	93 66	116 72	107 57	95 23	112 43	120 56	105 23	117 49	109 44	96 1.42 71	94 0.18 47	103 22 23	116 23.5 72	107 2.8 57	119 100 51	119 37.6 50	116 163 31	115 -38 12	108 15.0 35	98 -1.9 49	121 -10.1 28	110 39.7 53	114 20 37	113 39 36	112 1.79 46	102 0.46 43	122 2.24 41
HHB 250088 6020138217 2588	13	HHB 210079 HHB 220085	101 63	108 67	126 44	84 23	113 32	121 50	109 28	118 46	114 38	102 0.92 70	98 0.02 37	116 34 23	108 18.8 67	126 8.7 44	121 106 45	113 33.0 41	118 171 37	113 -35 14	119 20.5 43	99 -2.9 35	113 -8.5 20	121 47.1 42	116 21 44	116 42 42	124 2.78 40	113 1.82 37	108 1.06 36
HHB 250089 6020138225 2589	1	HHB 200064 JH 180098	117 66	102 70	103 50	95 36	114 35	114 54	98 26	110 48	108 40	120 -0.60 72	85 0.50 44	104 23 36	102 15.6 70	103 1.7 50	102 59 52	102 24.7 38	99 92 30	104 -25 20	81 -0.1 35	109 -11.0 35	110 -7.9 25	111 40.3 46	95 9 46	96 20 33	69 -1.77 41	127 3.66 38	142 3.79 37
HHB 250090 6020138233 2590	1	VV 170002 HHB 200046	103 67	100 70	105 54	96 38	112 42	107 56	95 26	102 50	95 51	108 0.43 72	82 0.62 49	103 22 38	100 14.8 70	105 2.3 54	103 62 54	109 30.3 54	107 124 34	109 -31 14	82 0.8 39	108 -10.6 49	104 -6.6 27	114 42.4 50	101 13 41	97 21 39	88 -0.18 53	111 1.64 49	129 2.77 48
HHB 250091 6020470511 HHB 250091		HHB 180023	98 57	86 59	92 38	131 28	98 27	83 45			69 16	99 1.23 63	99 -0.03 35	75 -4 28	86 6.9 59	92 -1.7 38	87 23 42	84 10.8 27	81 14 13	76 8 6	86 3.1 17	100 -3.5 29	105 -6.9 17	87 24.4 34	84 2 17	79 2 15	72 -1.55 16	96 -0.38 15	79 -1.24 14
HHB 260001 6020248271 2601	1	VV 170002 HHB 190025	99 68	115 61	102 54	88 40	112 42	118 53	106 27	115 48	108 48	104 0.80 73	87 0.43 50	113 32 40	115 22.8 61	102 1.5 54	110 79 52	121 39.2 55	117 168 36	116 -39 14	91 5.6 41	104 -6.7 49	107 -7.2 27	118 45.4 50	113 20 43	109 34 41	98 0.56 49	114 2.04 46	130 2.83 45
HHB 260002 6020251515 2602	1	HHB 210079 HHB 230011	94 62	119 56	103 39	86 23	108 32	119 45	114 23	117 41	120 36	96 1.45 69	97 0.03 35	115 33 23	119 25.2 56	103 1.8 39	114 89 39	122 39.8 45	122 188 33	117 -40 8	122 22.3 39	94 1.1 37	110 -7.9 20	118 45.0 40	124 26 40	121 47 38	117 2.13 38	125 3.40 34	124 2.38 33
HHB 260003 6020248289 2603	3	HHB 200064 JH 180020	118 66	104 57	95 48	92 33	107 34	111 48			96 26	120 -0.57 72	90 0.33 43	108 27 33	104 17.1 57	95 -0.7 48	97 47 46	109 30.2 42	100 93 25	93 -12 11	83 1.3 30	99 -2.9 38	105 -6.9 20	114 42.4 44	107 16 30	104 28 27	91 0.04 27	96 -0.37 25	105 0.85 25
HHB 260004 6020248297 2604	1	HHB 210079 HHB 170004	104 67	110 56	95 49	100 32	111 37	113 49	105 27	110 45	109 40	104 0.80 72	100 -0.08 45	99 18 32	110 19.9 56	95 -0.9 49	104 65 46	115 35.1 42	114 156 38	114 -36 11	117 19.4 44	96 -0.8 40	119 -9.6 25	111 40.3 45	108 17 45	107 32 43	96 0.42 42	139 5.23 38	126 2.51 37
HHB 260007 6020248321 2607	1	VV 170002 HHB 150026	88 70	113 59	104 55	100 34	107 42	111 52	107 27	109 47	114 46	91 1.87 74	95 0.14 52	98 17 34	113 21.5 59	104 1.8 55	115 91 49	116 35.8 52	119 175 37	117 -40 13	108 14.7 41	101 -4.3 48	109 -7.6 26	107 37.6 52	109 17 44	111 36 42	96 0.40 47	141 5.49 44	142 3.87 44
HHB 260008 6020248339 2608	1	HHB 220017 HHB 230016	102 62	111 50	95 38	101 24	113 31	115 43			108 27	101 1.05 69	105 -0.26 36	97 17 24	111 20.8 50	95 -0.9 38	106 70 37	112 32.8 36	115 160 21	116 -39 14	109 15.5 27	104 -7.0 36	109 -7.6 18	118 44.9 38	104 14 26	108 34 25	114 1.92 28	108 1.22 26	107 0.99 26

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HHB 260010 6020470503 2610	1	HHB 200064 HHB 180002		131 65	91 53	83 47	118 35	91 33	94 47	90 20	90 42	84 32	129 -1.39 70	95 0.11 44	83 3	91 9.6 53	83 -4.5 47	81 9 45	94 18.5 37	93 63 26	91 -9 12	79 -1.0 30	94 1.0 34	87 -3.2 21	103 35.1 43	95 9 31	92 16 29	70 -1.74 34	105 0.78 31	103 0.69 30
HHB 260013 6020248354 2613	1	VV 170002 HHB 230008		96 67	110 59	114 48	92 29	111 40	118 50	104 26	114 45	112 44	97 1.35 72	100 -0.06 46	107 26 29	110 20.4 59	114 5.1 48	118 99 45	112 32.2 54	117 166 33	117 -40 16	108 14.8 37	103 -6.1 48	106 -7.0 23	118 45.4 48	104 15 39	109 35 38	112 1.74 45	114 1.94 42	121 2.10 41
HHB 260015 6020248362 2615	5	VV 200028 HHB 210055		97 64	114 57	90 44	98 24	103 37	109 47	100 24	105 42	108 38	96 1.45 70	106 -0.29 42	102 21 24	114 22.2 57	90 -2.3 44	103 62 42	110 30.6 43	101 100 27	97 -16 19	104 12.3 31	92 2.8 41	108 -7.4 25	113 41.6 44	112 19 32	109 34 31	104 1.07 40	113 1.83 36	139 3.61 35
HHB 260016 6020251564 2616	1	HHB 220017 HHB 230040		105 63	117 51	102 38	83 26	117 29	124 43	117 24	123 39	117 27	102 0.93 69	109 -0.41 37	119 38 26	117 23.8 51	102 1.5 38	110 78 38	118 36.8 34	124 195 26	118 -41 19	111 16.6 32	108 -9.9 31	110 -7.7 18	122 48.2 38	113 20 30	118 44 28	127 2.98 28	95 -0.44 26	87 -0.61 25
HHB 260017 6020248370 2617	1	HHB 220017 HHB 230035		98 61	117 50	100 36	93 23	118 27	123 41	117 20	121 37	117 28	97 1.39 68	107 -0.34 34	107 26 23	117 23.9 50	100 0.8 36	113 85 36	118 36.8 34	120 179 21	117 -40 17	111 16.4 30	107 -9.3 27	114 -8.6 17	122 47.8 36	110 18 29	114 39 23	126 2.91 30	99 0.10 27	94 -0.09 26
HHB 260022 6020338429 2622		HHB 220017 HHB 230037		100 62	113 50	89 36	97 21	122 28	118 42	110 20	115 38	112 26	97 1.34 69	111 -0.48 36	103 22 21	113 22.0 50	89 -2.5 36	102 59 36	112 32.8 32	115 158 21	117 -40 17	110 15.7 30	109 -11.3 28	120 -9.8 17	119 46.2 38	98 11 28	107 32 23	118 2.23 27	103 0.56 24	94 -0.07 24
HHB 260023 6020338437 2623	1	VV 170002 HHB 210064		94 66	110 60	112 50	103 32	111 41	117 51	102 26	113 46	107 44	96 1.49 71	98 0.00 47	94 14 32	110 20.0 60	112 4.4 50	121 106 47	113 33.3 52	114 153 33	114 -36 16	107 14.5 38	102 -5.7 48	110 -7.9 25	114 42.5 49	99 12 40	105 30 38	101 0.82 45	120 2.74 43	122 2.23 42
HHB 260024 6020338445 2624	1	VV 170002 HHB 170001		96 70	101 59	91 56	109 40	111 42	101 53	93 24	97 47	95 42	99 1.21 74	94 0.15 52	90 10 40	101 15.4 59	91 -1.9 56	97 47 52	104 26.5 52	104 110 32	108 -30 13	99 9.9 36	110 -11.5 49	104 -6.6 27	110 39.9 51	94 9 38	94 18 37	88 -0.25 44	122 3.06 41	125 2.48 40
HHB 260025 6020338452 2625	1	VV 170002 HHB 220009		93 67	110 60	114 50	94 32	121 41	121 51	101 27	116 46	108 43	95 1.58 72	100 -0.05 48	104 24 32	110 20.4 60	114 4.9 50	119 100 47	111 31.9 50	113 152 34	114 -36 16	110 15.8 38	119 -18.6 49	111 -8.1 26	116 43.6 49	104 15 40	109 34 39	111 1.67 44	112 1.72 42	117 1.84 41
HHB 260026 6020338460 2626	1	HHB 200064 JH 160041		115 68	103 56	91 49	99 34	87 35	99 49	97 28	95 45	90 36	112 0.07 73	105 -0.26 46	100 20 34	103 16.2 56	91 -2.1 49	94 40 46	101 23.9 41	96 76 31	90 -9 21	82 0.5 40	82 10.2 36	89 -3.5 23	109 38.8 46	98 11 35	99 23 33	80 -0.84 37	97 -0.19 35	84 -0.88 32
HHB 260027 6020338478 2627	1	HHB 220017 JH 220004		101 64	105 51	97 41	90 30	110 31	106 44			97 27	99 1.22 70	107 -0.33 38	111 29 30	105 17.5 51	97 -0.1 41	98 51 41	104 26.6 40	99 90 22	97 -17 14	104 12.5 29	105 -7.6 35	107 -7.2 18	113 41.6 40	103 14 27	104 29 24	116 2.08 28	94 -0.51 26	97 0.19 25
HHB 260028 6020338486 2628	1	VV 200028 JH 220007		89 66	117 57	88 43	92 27	107 35	109 48	112 30	108 44	111 31	84 2.46 72	117 -0.72 42	109 28 27	117 24.0 57	88 -2.8 43	102 60 42	110 30.7 38	107 127 29	102 -22 27	114 18.0 34	95 0.3 39	113 -8.4 23	111 40.2 44	122 25 34	118 44 32	118 2.23 32	96 -0.31 30	99 0.35 28

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																													
HHB 260030 6020338502 2630	1	VV 170002 HHB 170012	84 69	107 59	102 55	102 39	112 42	106 52	99 24	102 46	102 46	89 2.03 74	90 0.32 51	97 16 39	107 18.6 59	102 1.3 55	109 76 51	110 30.6 51	110 139 33	114 -36 12	102 11.4 37	109 -10.9 48	106 -7.1 28	113 41.5 51	96 9 40	96 20 39	87 -0.33 47	131 4.23 44	134 3.20 43
HHB 260032 6020338528 2632	1	VV 170002 HHB 160014	103 70	107 59	89 56	111 37	110 42	109 53	98 24	105 47	103 44	102 0.90 74	101 -0.13 52	88 8 37	107 18.5 59	89 -2.5 56	101 57 51	110 31.2 50	109 135 33	113 -35 12	100 10.5 37	105 -7.9 49	107 -7.2 26	111 40.5 51	96 10 39	99 23 37	90 -0.06 45	129 3.90 42	137 3.44 41
HHB 260033 6020338536 2633	1	VV 170002 HHB 200060	100 67	104 59	102 52	103 37	110 41	109 51	96 25	104 46	92 50	105 0.70 72	85 0.49 48	95 15 37	104 17.0 59	102 1.3 52	107 71 49	110 30.6 54	107 125 33	110 -31 13	84 1.7 38	109 -11.3 48	102 -6.2 26	111 40.3 48	103 14 40	99 23 38	82 -0.71 52	108 1.26 49	123 2.30 48
HHB 260034 6020338544 2634		VV 170002 SP 150046	95 69	115 61	103 57	92 33	122 42	122 53	106 30	118 48	113 44	98 1.30 73	94 0.14 52	107 26 33	115 22.9 61	103 1.6 57	113 86 50	118 37.4 50	117 170 35	123 -46 22	98 9.1 41	121 -20.7 46	114 -8.7 27	109 39.2 52	106 16 41	105 30 40	106 1.24 46	122 2.96 43	126 2.57 43
HHB 260037 6020338577 2637	1	VV 170002 HHB 200054	102 67	107 60	94 52	93 38	100 40	103 52	94 25	99 47	95 50	106 0.61 72	86 0.46 48	108 26 38	107 18.7 60	94 -1.1 52	99 51 50	112 32.7 52	105 118 33	109 -30 13	83 1.4 38	98 -2.3 47	93 -4.4 25	113 41.6 48	103 14 40	98 23 38	99 0.71 52	101 0.27 48	118 1.91 42
HHB 260039 6020621436 2639	1	VV 200028 HHB 210069	97 65	112 56	99 43	93 23	99 37	108 47	103 28	105 43	105 29	95 1.58 70	111 -0.48 43	107 26 23	112 21.1 56	99 0.3 43	107 71 41	108 29.7 43	103 110 29	95 -14 22	108 14.8 33	92 2.9 41	103 -6.4 25	106 37.1 45	114 20 34	115 41 33	111 1.68 30	92 -0.88 28	94 -0.03 27
HHB 260040 6020621444 2640	1	VV 170002 JH 220017	92 68	110 60	107 50	94 26	122 40	118 51	98 24	113 46	104 43	94 1.63 73	97 0.04 46	104 23 26	110 20.2 60	107 2.8 50	113 85 45	112 32.2 54	109 133 31	116 -38 13	102 11.6 37	121 -20.2 47	113 -8.4 25	114 42.3 48	96 9 38	101 26 36	116 2.11 44	103 0.52 42	117 1.83 41
HHB 260041 6020621451 2641	1	VV 200028 HHB 210037	93 66	107 57	92 47	102 30	99 35	100 48	95 25	96 43	99 38	94 1.63 71	101 -0.11 45	97 16 30	107 18.6 57	92 -1.6 47	101 56 45	101 24.1 43	93 65 25	85 -2 21	98 9.3 29	94 1.2 36	99 -5.6 24	108 38.5 45	113 20 30	106 31 28	100 0.76 40	101 0.33 36	114 1.57 35
HHB 260042 6020621469 2642	1	VV 200028 HHB 210038	99 66	116 57	98 45	93 29	99 36	113 48	107 28	110 44	108 38	98 1.26 71	103 -0.17 45	107 26 29	116 23.3 57	98 0.2 45	110 79 44	115 34.6 42	104 111 30	94 -13 21	99 9.8 35	89 4.6 37	106 -7.1 25	107 37.7 45	123 26 35	115 41 33	98 0.58 40	106 1.02 37	128 2.69 36
HHB 260045 6020621485 2645		VV 170002 FR 150071	88 68	111 61	106 56	93 25	128 43	119 52	107 26	116 47	110 42	95 1.54 72	82 0.64 50	106 25 25	111 20.7 61	106 2.6 56	112 85 47	116 35.1 49	116 164 32	117 -40 16	106 13.7 36	127 -25.5 50	121 -10.0 28	108 38.5 52	116 21 40	110 35 37	110 1.63 43	115 2.11 41	125 2.43 40
HHB 260198 6020621535 26198	2	HHB 200064 HHB 210019	110 64	106 56	108 43	90 30	95 34	109 47	110 20	107 42	106 38	111 0.20 70	95 0.11 41	110 29 30	106 17.8 56	108 3.3 43	108 73 43	110 31.1 42	108 131 26	103 -23 12	86 2.9 30	93 2.1 37	94 -4.5 22	107 37.9 43	116 22 31	108 33 29	110 1.55 39	97 -0.14 36	107 0.96 35

Breeding Values and Accuracies: Cows

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White: 80-120 Average
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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																													
HHB 110010 73663908 LILLY 11/10		HHB 080008 JP 040024	107 83	90 67	115 80	88 36	114 48	101 62	86 33	96 56	89 46	107 0.50 83	97 0.04 81	112 30 36	90 9.4 67	115 5.4 80	99 52 61	91 16.2 52	99 89 49	101 -21 11	90 5.2 56	111 -12.3 48	108 -7.4 27	112 40.9 69	94 8 58	99 24 55	89 -0.15 49	97 -0.15 43	89 -0.48 42
HHB 120005 4000077604 MARYN 12/05		JC 020058 HHB 020009	105 83	89 70	96 81	110 45	110 53	93 65	79 20	87 56	86 42	103 0.81 83	103 -0.20 82	89 9 45	89 8.7 70	96 -0.6 81	89 28 65	85 11.2 58	85 31 22	81 2 14	94 6.9 26	105 -7.8 55	112 -8.2 35	106 37.0 70	84 3 27	88 12 24	90 -0.03 45	107 1.06 40	116 1.68 39
HHB 120010 290809730 MACHO 12/10		KVS 070172 HHB 050013	87 90	103 86	93 88	98 80	102 82	94 80	99 79	92 80	94 80	85 2.38 90	110 -0.47 88	101 20 80	103 16.4 86	93 -1.4 88	96 45 85	107 28.9 82	106 123 80	103 -23 78	100 10.6 80	102 -5.7 82	103 -6.3 80	98 31.9 85	100 12 81	103 28 80	85 -0.47 80	110 1.44 79	102 0.60 79
CJ 130005 290848555 13 05	1	ER 070040 CJ 090001	81 87	101 79	123 81	105 75	91 79	98 75	105 76	96 75	105 76	89 2.09 87	82 0.62 86	92 11 75	101 15.5 79	123 7.6 81	123 111 78	106 27.9 76	111 144 76	115 -38 76	119 20.8 77	114 -14.8 78	74 -0.5 76	88 24.9 82	85 3 77	99 23 77	95 0.38 76	110 1.53 76	104 0.73 75
HHB 130003 290923192 NARA 13/3		KVS 070172 HHB 090023	113 83	89 74	63 83	115 49	93 59	77 68	79 28	72 60	72 42	108 0.40 83	112 -0.54 81	86 6 49	89 8.7 74	63 -10.4 83	61 -39 69	92 17.2 49	87 41 34	93 -12 20	75 -3.4 37	89 4.5 66	89 -3.6 40	112 41.0 70	66 -9 38	76 -2 36	74 -1.38 44	86 -1.64 40	100 0.43 38
HHB 140013 290923549 ONA 14/13		JC 020058 HHB 080026	106 90	88 86	90 88	122 82	119 84	97 81	72 81	89 81	70 82	101 1.03 90	120 -0.83 89	80 0 82	88 8.4 86	90 -2.2 88	87 22 85	86 12.4 83	75 -11 81	85 -2 80	95 7.8 82	115 -15.9 85	116 -9.0 82	110 39.5 86	74 -3 82	76 -1 82	73 -1.43 82	116 2.25 81	107 0.99 81
FR 150055 290988922 15 55		JR 060002 FR 100022	107 69	111 77	89 80	95 36	103 60	110 65	102 46	107 61	102 46	106 0.63 69	103 -0.19 69	105 24 36	111 21.0 77	89 -2.5 80	100 54 64	108 29.3 56	100 97 51	103 -23 38	104 12.6 55	97 -1.7 66	109 -7.5 46	100 33.2 69	101 13 55	103 28 54	96 0.41 48	114 2.01 44	107 0.96 42
FR 150071 290989086 15 71		SP 100007 FR 120033	81 67	108 76	100 79	91 29	131 57	111 63	112 32	109 57	108 32	90 1.94 67	76 0.84 69	109 28 29	108 18.9 76	100 0.8 79	104 63 61	115 34.8 43	114 154 34	113 -35 28	108 14.9 38	137 -33.0 66	123 -10.5 38	97 31.0 68	121 25 43	110 35 37	105 1.21 33	111 1.61 31	103 0.68 30
HHB 150001 290976786 PAM 15/01		KVS 070172 HHB 010004	74 80	99 65	110 76	97 33	97 48	88 60	89 28	84 54	89 28	81 2.71 81	72 1.03 77	101 21 33	99 14.0 65	110 3.7 76	106 68 58	103 25.5 42	95 75 33	92 -10 22	93 6.5 35	102 -5.3 46	99 -5.5 29	92 27.3 68	92 7 35	94 18 34	85 -0.47 29	113 1.87 26	109 1.19 25
HHB 150026 291030070 PETRA 15/26	1	KSS 100022 HHB 120010	84 80	112 68	95 76	107 50	88 54	99 63	113 38	99 58	116 48	80 2.86 81	102 -0.16 76	92 11 50	112 21.2 68	95 -0.8 76	110 78 65	118 36.9 58	119 175 49	112 -34 20	112 17.0 55	83 9.3 61	100 -5.7 35	94 29.2 67	108 17 56	111 36 54	75 -1.25 51	154 7.13 46	139 3.56 45
J 150038 291017424 J150038	1	LL 110167 J 090046	89 58	105 67	118 73	93 22	93 51	102 56	111 25	102 50	112 32	89 2.02 57	104 -0.23 60	105 24 22	105 17.3 67	118 6.2 73	117 95 54	108 29.4 44	114 153 36	106 -27 9	104 12.5 44	102 -5.2 59	89 -3.5 28	93 28.4 66	124 27 44	119 45 41	121 2.46 33	104 0.72 30	135 3.29 29
LL 150212 291005346 LL150212	1	LL 120127 LL 110124	103 85	95 88	135 88	93 78	105 82	110 80	101 80	106 80	96 80	104 0.74 85	97 0.05 84	104 23 78	95 12.0 88	135 11.2 88	122 107 85	103 25.8 80	104 113 80	101 -21 78	101 11.1 81	89 5.2 83	114 -8.7 80	112 41.2 84	112 19 81	104 29 81	107 1.36 80	99 0.12 80	103 0.63 79

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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																														
LL 150302 291018646 LL150302		SP 110067 LL 080058		85 60	121 79	102 82	97 22	99 57	114 63	107 26	112 56	105 43	87 2.25 60	101 -0.09 62	102 21 22	121 25.9 79	102 1.3 82	120 102 61	124 41.7 51	112 145 29	107 -29 19	111 16.5 34	77 14.8 63	125 -10.9 40	101 33.8 67	115 21 34	114 40 32	108 1.40 45	85 -1.69 41	98 0.27 32
SP 150033 290984798 GLENAFTON		DJW 100077 SP 050047		97 86	115 88	102 89	90 80	96 82	111 80	91 78	105 80	104 80	95 1.53 86	107 -0.34 87	110 29 80	115 22.9 88	102 1.4 89	111 82 86	110 30.8 81	97 80 79	109 -31 78	97 8.9 79	99 -2.8 81	94 -4.7 79	99 32.2 85	74 -4 80	95 19 79	107 1.38 80	79 -2.44 79	110 1.23 79
SP 150046 290993922 GENEVA	4 	SP 110037 SP 080022		84 86	120 86	95 88	90 80	119 81	118 79	110 80	115 79	114 80	84 2.49 86	103 -0.17 86	111 29 80	120 25.8 86	95 -0.9 88	110 78 85	125 42.4 80	116 165 79	123 -47 79	92 5.8 81	125 -23.5 81	110 -7.9 79	99 32.3 84	102 14 80	100 24 80	96 0.43 80	124 3.31 79	107 0.96 79
CJ 160008 291035756 CJ1608		ER 100015 CJ 080006		79 88	120 82	96 83	93 78	87 82	102 78	112 78	102 78	113 78	68 3.84 88	88 0.38 86	108 27 78	120 25.5 82	96 -0.6 83	111 82 81	119 37.8 80	113 149 79	108 -29 78	117 19.5 79	70 19.8 84	102 -6.2 79	108 38.2 84	105 15 79	110 35 79	103 1.01 79	113 1.92 78	110 1.25 78
HHB 160003 291030021 QUARTA 16/03	1 	KSS 100022 HHB 110023		85 89	105 86	81 89	117 83	99 82	92 81	97 79	90 81	99 81	89 2.10 89	96 0.09 87	84 4 83	105 17.4 86	81 -5.1 89	93 38 86	115 35.0 84	103 107 80	102 -23 78	99 10.0 80	87 6.4 84	104 -6.6 79	113 41.5 84	90 6 80	93 17 80	57 -2.74 81	148 6.34 81	132 3.00 81
HHB 160011 291083962 QUINTA 16 11	1	KSS 100022 HHB 110021		96 78	97 68	76 78	148 61	88 54	87 64	92 29	85 57	84 43	95 1.55 79	106 -0.32 74	59 -19 61	97 13.3 68	76 -6.7 78	90 30 69	101 24.3 58	94 71 36	94 -13 19	110 11.0 39	81 11.3 59	101 -5.9 37	96 30.5 66	82 1 40	85 8 39	49 -3.39 45	141 5.47 41	120 2.03 40
HHB 160014 291083996 QARA 16 14		KSS 100022 HHB 130003		117 79	98 69	66 78	136 60	94 55	93 65	95 29	90 58	94 38	111 0.19 80	116 -0.68 75	73 -7 60	98 13.4 69	66 -9.7 78	76 -4 69	103 25.5 46	100 97 36	102 -23 19	97 8.6 39	92 2.2 63	95 -4.8 35	103 34.9 67	83 2 40	87 11 39	64 -2.18 40	139 5.20 37	128 2.70 36
JH 160024 291042869 JH1624	1 	JH 120101 JH 130127		99 87	102 85	101 87	108 81	94 81	99 79	103 78	98 79	106 80	104 0.75 87	84 0.54 85	90 10 81	102 15.7 85	101 1.0 87	106 68 84	103 25.2 81	105 117 79	97 -16 77	98 9.4 82	89 4.6 82	92 -4.3 78	111 40.3 83	106 16 81	112 37 79	99 0.68 80	121 2.95 80	94 -0.06 79
JH 160032 291042943 JH1632		VV 080131 JC 070025		85 89	119 87	124 88	112 83	107 84	128 81	108 82	124 81	107 82	70 3.67 89	105 -0.26 87	85 5 83	119 25.2 87	124 8.1 88	146 166 86	117 36.2 84	114 156 81	102 -23 81	97 8.7 83	95 -0.1 84	114 -8.6 82	109 39.2 86	118 23 83	117 43 82	114 1.92 83	83 -2.02 82	91 -0.29 82
JH 160041 291052496 JH1641	2 	VV 120161 JH 110090		86 89	105 87	82 88	112 84	80 84	84 81	94 82	82 81	87 83	84 2.45 89	129 -1.20 87	88 8 84	105 17.4 87	82 -4.8 88	93 38 86	98 21.5 84	93 65 82	91 -10 81	93 6.8 84	74 16.9 84	87 -3.2 81	104 35.4 86	82 1 82	91 15 82	74 -1.36 83	97 -0.16 83	70 -1.97 82
JH 160069 291061604 1669	1 	VV 120161 LL 110176		96 88	97 87	86 87	107 83	82 82	81 80	101 80	81 80	93 81	98 1.28 88	95 0.11 86	92 12 83	97 13.3 87	86 -3.5 87	88 25 86	94 18.5 84	108 130 80	106 -27 79	99 9.8 82	65 23.8 83	95 -4.9 80	110 39.7 84	91 7 81	94 18 81	87 -0.29 81	87 -1.53 81	92 -0.20 80
JH 160084 291067544 JH1684	1	KVS 110137 JC 130190		112 78	103 77	86 80	96 56	99 50	100 67			89 42	116 -0.23 79	86 0.49 74	105 24 56	103 16.1 77	86 -3.6 80	89 26 71	106 27.4 64	89 50 21	88 -6 13	89 4.2 34	86 7.5 50	114 -8.6 35	101 33.5 66	90 6 42	95 19 24	101 0.88 45	82 -2.08 40	104 0.78 39

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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																														
LL 160124 291050714 LL160124	3	LL 110153	LL 110046	95 87	112 88	97 88	86 80	89 83	101 81	103 80	99 81	108 80	96 1.48 87	101 -0.11 86	115 34 80	112 21.2 88	97 -0.1 88	103 61 85	108 29.5 82	100 95 80	91 -9 79	105 12.9 81	85 8.1 83	92 -4.1 81	104 35.5 86	118 23 81	117 43 81	112 1.79 80	101 0.31 80	111 1.32 80
CJ 170006 291088128 CJ1706	1	ER 100015	CJ 090001	107 89	109 83	110 84	86 80	114 83	120 79	113 80	118 79	115 80	104 0.75 89	108 -0.38 87	115 33 80	109 19.9 83	110 3.7 84	111 80 82	108 29.2 80	114 154 80	111 -32 79	127 25.1 81	114 -15.2 84	107 -7.3 80	108 38.3 85	106 16 81	111 37 81	111 1.69 80	113 1.83 80	111 1.31 80
CJ 170008 291097145 CJ1708	1	ER 100015	ER 110020	98 88	114 81	100 81	97 78	103 82	114 77	99 78	110 77	106 78	95 1.54 89	111 -0.49 86	102 21 78	114 22.5 81	100 0.9 81	113 85 80	112 32.7 79	100 95 78	98 -18 78	113 17.5 79	89 5.2 83	106 -7.0 79	119 45.6 84	96 10 79	104 29 78	105 1.14 78	121 2.91 78	115 1.62 78
FR 170003 291081289 IMMEUL	1	JO 080028	FR 120015	111 71	105 76	100 79	139 48	99 54	115 65	106 40	112 60	105 32	108 0.43 71	108 -0.39 70	67 -12 48	105 17.6 76	100 0.6 79	118 99 68	103 25.2 38	111 143 41	109 -31 37	90 5.1 44	98 -2.1 54	94 -4.6 40	109 39.4 67	104 15 44	105 30 43	105 1.20 33	105 0.83 31	104 0.78 30
FR 170115 291134211 KIMI	1	SP 110076	FR 120042	91 69	112 75	75 77	106 42	102 53	99 63	101 40	97 58	94 46	91 1.87 69	103 -0.19 70	94 14 42	112 21.2 75	75 -6.7 77	92 35 65	113 33.0 48	108 128 41	109 -30 36	93 6.6 44	97 -1.8 55	103 -6.4 38	105 36.5 65	87 4 45	96 20 43	94 0.25 47	59 -5.03 44	93 -0.18 43
HHB 170001 291124584 RAGEL 17/1	1	KVS 070172	HHB 150008	98 88	88 85	70 88	131 83	96 82	77 80	83 78	73 80	78 79	98 1.27 88	102 -0.13 86	76 -3 83	88 8.2 85	70 -8.2 88	69 -20 85	93 17.4 82	89 46 79	93 -12 78	94 7.3 79	102 -5.2 83	90 -3.8 79	101 33.7 84	78 -1 80	78 0 79	60 -2.55 79	126 3.51 79	104 0.78 79
HHB 170004 291124618 RIKIE 17/4	1	KSS 100022	HHB 110023	103 79	101 69	67 77	126 59	104 57	95 65	98 34	92 59	98 47	101 1.05 80	108 -0.40 74	79 0 59	101 15.5 69	67 -9.2 77	79 4 68	111 31.7 52	106 119 45	109 -30 19	107 14.0 50	95 0.3 63	117 -9.3 42	97 31.0 66	87 4 51	90 13 49	57 -2.80 49	153 7.00 45	125 2.47 44
HHB 170011 291124683 RIENIE 17/11		KSS 100022	HHB 140013	97 79	104 67	93 76	120 61	112 56	108 64	101 34	105 58	101 50	95 1.52 80	107 -0.35 75	81 1 61	104 17.1 67	93 -1.4 76	105 67 68	107 28.3 54	98 86 44	96 -16 18	115 18.4 50	104 -7.1 63	118 -9.5 39	103 35.0 66	90 6 51	94 18 49	73 -1.49 52	152 6.85 47	144 3.96 46
HHB 170012 291124709 RUSHA 17/12	1	KSS 100022	HHB 110013	87 89	95 86	90 88	110 84	99 83	85 81	96 80	84 81	93 82	91 1.89 89	92 0.23 87	89 9 84	95 12.1 86	90 -2.2 88	91 31 86	99 22.6 82	102 104 81	105 -26 79	100 10.4 81	100 -4.0 83	95 -4.7 81	106 37.0 85	81 1 82	82 5 81	58 -2.71 82	144 5.85 81	122 2.23 81
HHB 170016 291124725 RON 17/16		KSS 100022	HHB 130001	95 78	102 68	81 78	112 61	105 56	94 64	92 29	91 57	98 39	95 1.51 79	102 -0.13 73	88 8 61	102 15.6 68	81 -5.1 78	89 27 69	104 26.2 48	98 89 37	100 -20 18	102 11.4 41	100 -4.1 63	108 -7.4 38	102 34.5 66	92 7 42	94 18 40	66 -2.05 41	151 6.72 37	133 3.12 36
HHB 170017 291124733 RORY 17/17	7	HHB 140020	HHB 130003	108 75	91 65	54 74	143 50	100 52	81 61	80 20	76 53	73 30	106 0.56 77	103 -0.17 68	67 -12 50	91 9.9 65	54 -13.1 74	60 -43 63	95 19.1 48	85 30 25	88 -6 14	83 1.1 27	93 1.8 59	106 -7.0 35	103 35.3 62	67 -8 27	74 -3 26	57 -2.73 31	115 2.11 28	112 1.37 27
JH 170001 291081891 TJOKLITS	1	DT 060316	ER 070002	104 78	110 77	95 76	125 46	118 51	121 66	110 44	119 62	104 68	105 0.66 80	96 0.07 72	79 -1 46	110 20.0 77	95 -0.7 76	113 86 66	110 30.9 70	108 130 55	96 -15 30	104 12.8 65	111 -12.7 50	116 -9.1 35	111 40.7 67	85 3 65	103 28 59	69 -1.80 71	116 2.28 66	97 0.20 64

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ID Number Name																													
JH 170050 291104909 1750	1	LL 140017 JH 120022	105 77	100 75	119 77	77 43	115 50	111 64	108 33	109 58	100 34	100 1.11	119 -0.82	126 44	100 14.8	119 6.5	106 68	101 23.8	104 113	89 -7	109 15.5	107 -9.7	114 -8.6	111 40.7	114 20	110 36	94 0.27	113 1.93	99 0.32
JH 170056 291104974 1756	2	VV 120161 JH 100083	100 78	102 76	120 77	88 42	100 54	108 66	105 36	105 60	101 38	96 1.44	114 -0.61	110 29	102 16.0	120 6.9	114 89	99 22.0	109 131	104 -25	112 16.9	102 -5.4	94 -4.6	106 37.0	105 15	106 31	111 1.65	87 -1.45	83 -0.99
OLG 170007 291089076 OHANNA		KT 100037 HHB 140010	107 74	99 63	92 73	115 50	90 47	95 59	93 26	91 52	95 35	105 0.71	107 -0.34	85 5	99 13.9	92 -1.7	97 46	98 21.2	99 93	101 -22	98 9.5	84 9.1	90 -3.7	111 40.6	98 11	99 24	92 0.14	100 0.14	108 1.05
CJ 180024 291192284 CJ1824	2	JH 140101 CJ 150010	105 88	120 86	95 86	101 82	102 84	121 80	118 81	120 80	112 81	102 0.97	109 -0.42	98 17	120 25.7	95 -0.8	115 90	119 38.2	115 159	106 -27	109 15.1	97 -1.5	104 -6.6	105 36.4	108 17	111 36	87 -0.31	116 2.31	88 -0.53
HG 180036 291177319 HG180036		SS 130031 HG 140039	86 78	129 75	102 78	87 69	116 51	130 67	131 46	130 63	135 48	76 3.20	109 -0.41	114 33	129 30.4	102 1.4	122 108	104 26.5	127 210	111 -33	135 29.4	115 -15.4	113 -8.5	106 36.9	143 38	143 71	117 2.14	118 2.46	113 1.47
HHB 180002 291160232 SANBOD SARA	1	HHB 140020 HHB 040022	122 70	81 61	66 72	155 56	88 46	79 57	80 21	74 50	73 42	117 -0.37	110 -0.46	52 -26	81 4.4	66 -9.5	64 -32	84 11.0	87 39	92 -11	88 3.9	97 -1.5	84 -2.6	93 28.0	78 -1	79 1	52 -3.16	112 1.79	109 1.17
HHB 180023 291178663 SUNA		HHB 140020 HHB 140008	97 76	87 72	74 73	144 56	118 51	88 64	76 22	81 56	66 30	94 1.59	111 -0.49	65 -14	87 7.5	74 -7.2	74 -8	90 15.5	81 12	86 -3	81 0.3	112 -13.8	117 -9.2	108 38.2	72 -5	74 -4	50 -3.36	108 1.25	105 0.85
J 180086 291198026 J180086	2	LL 140164 J 110014	95 84	103 87	98 87	92 82	101 82	98 80	111 78	98 80	104 80	93 1.70	111 -0.48	108 27	103 16.4	98 0.0	98 49	98 21.4	106 120	94 -13	107 14.1	107 -9.2	93 -4.3	103 35.1	106 16	104 29	111 1.63	100 0.25	113 1.48
JH 180020 291148435 1820	2	J 140019 LL 120187	93 72	110 75	92 75	96 49	119 49	111 63			98 18	94 1.61	99 -0.03	103 23	110 20.3	92 -1.8	101 57	116 35.5	101 98	97 -16	96 8.4	107 -9.2	120 -10.0	114 42.7	101 13	101 26	95 0.39	94 -0.52	113 1.50
JH 180023 291148468 1823	1	JH 140084 JH 120079	80 75	98 75	147 75	97 57	98 45	106 64	91 26	100 56	91 45	86 2.34	91 0.29	98 17	98 13.5	147 15.0	137 145	108 29.0	101 98	109 -31	104 12.5	103 -6.0	85 -2.8	111 40.7	97 10	99 23	96 0.42	95 -0.39	89 -0.51
JH 180077 291168300 1877		LL 140017 JH 130014	111 76	81 76	82 77	105 53	118 51	85 65	78 36	79 59	70 37	112 0.10	94 0.14	95 14	81 4.5	82 -4.8	68 -23	81 8.2	78 1	74 11	70 -6.1	122 -21.0	106 -7.0	110 39.5	82 1	80 2	59 -2.57	115 2.12	87 -0.64
JH 180097 291178200 1897		JC 140099 JC 150117	103 73	97 75	78 76	105 53	92 42	86 63			87 15	102 0.90	103 -0.19	95 15	97 13.2	78 -5.8	80 7	96 20.3	94 69	95 -14	84 1.9	88 5.7	95 -4.8	103 35.3	97 10	91 15	85 -0.45	97 -0.23	93 -0.16

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ID Number Name																													
JH 180098 291178218 1898		SP 140020 SP 150091	94 75	111 77	104 78	97 59	132 52	123 66	100 38	118 60	129 62	97 1.35 77	92 0.25 69	101 21 59	111 20.6 77	104 1.9 78	112 84 71	106 27.7 50	105 117 39	122 -45 34	96 8.4 46	123 -22.5 53	133 -12.6 40	107 37.4 64	83 2 74	91 15 42	58 -2.65 65	154 7.13 59	144 3.96 57
HHB 190007 291211852 TAMMY	1	JH 150098 HHB 060014	99 68	95 72	100 71	108 59	91 53	90 62	95 28	88 55	92 48	104 0.75 69	83 0.57 66	90 10 59	95 12.0 72	100 0.9 71	99 51 67	100 22.8 68	100 93 31	100 -20 22	93 6.3 35	108 -10.0 60	67 1.1 38	109 39.4 61	105 15 36	99 23 34	99 0.65 50	102 0.45 46	87 -0.62 42
HHB 190009 291221133 TYLA	1	JH 150098 HHB 150028	100 74	95 73	82 71	118 62	88 52	84 64	89 27	81 57	84 48	104 0.76 76	88 0.41 65	83 3 62	95 11.9 73	82 -4.8 71	85 17 69	97 21.0 68	94 68 29	93 -12 22	84 1.6 33	103 -6.4 60	71 0.1 37	102 34.7 60	93 8 33	89 12 31	87 -0.34 50	109 1.39 47	87 -0.64 44
HHB 190010 291221141 TRACY		SP 080037 HHB 170001	98 76	94 74	95 75	127 68	101 55	94 66	90 34	90 60	85 40	96 1.48 78	109 -0.40 70	78 -2 68	94 11.5 74	95 -0.8 75	98 49 72	97 20.6 62	93 67 34	94 -13 31	91 5.4 37	101 -4.9 64	99 -5.5 37	103 34.8 64	89 5 38	91 14 37	79 -0.96 42	111 1.67 38	98 0.28 37
HHB 190011 291221158 TIA		JH 150098 HHB 120005	116 76	83 72	100 69	131 50	92 50	90 63	80 26	84 56	80 44	118 -0.46 78	88 0.41 69	74 -5 50	83 5.5 72	100 0.9 69	92 36 64	83 9.9 66	85 32 27	85 -2 21	81 0.1 31	98 -2.1 58	86 -3.0 33	101 33.9 60	88 5 31	84 7 30	85 -0.49 45	102 0.50 42	103 0.68 39
HHB 190013 291221174 THELMA	1	JH 150098 HHB 160011	107 87	92 87	85 86	153 83	84 82	89 80	92 80	86 80	83 81	110 0.22 88	88 0.41 85	52 -26 83	92 10.3 87	85 -3.8 86	96 45 85	95 19.4 84	93 65 79	92 -10 79	94 7.0 80	85 8.1 83	82 -2.0 80	104 35.9 84	90 6 80	86 10 80	71 -1.63 81	116 2.23 81	106 0.88 80
HHB 190014 291221182 TRUDI	1	JH 150098 HHB 120010	110 75	93 75	83 75	105 62	105 53	92 66	89 29	88 59	81 48	111 0.16 77	94 0.17 68	95 14 62	93 10.9 75	83 -4.3 75	81 7 71	99 22.2 66	94 72 32	95 -13 23	83 1.2 35	116 -16.4 61	90 -3.8 36	104 35.5 62	94 8 36	90 13 34	78 -1.05 49	104 0.75 46	92 -0.25 43
HHB 190015 291221190 TANYA	1	JH 150098 HHB 140004	119 75	97 73	92 72	116 49	96 51	101 63	98 27	98 56	96 41	118 -0.45 77	96 0.10 66	84 4 49	97 13.0 73	92 -1.8 72	95 43 65	101 23.7 64	103 107 30	98 -18 22	99 10.0 33	103 -6.6 59	86 -2.9 32	102 34.4 61	107 16 33	101 25 32	92 0.14 42	106 1.01 40	103 0.68 36
HHB 190016 291221208 TARYN	1	JH 150098 HHB 050016	115 75	84 72	108 71	128 58	91 50	92 63	81 27	86 56	83 40	119 -0.56 77	81 0.66 69	76 -3 58	84 5.8 72	108 3.3 71	100 54 67	85 11.6 66	87 41 30	85 -2 21	93 6.8 34	95 -0.2 60	83 -2.3 29	106 37.3 60	93 8 34	88 11 33	87 -0.28 41	106 0.98 38	106 0.95 35
HHB 190020 291232833 TULA	1	JH 160047 HHB 110010	103 76	108 74	114 75	73 57	110 45	114 64	103 34	110 58	97 48	108 0.46 78	86 0.49 70	132 50 57	108 18.9 74	114 4.8 75	106 69 69	115 34.4 52	112 144 44	106 -27 21	74 -3.6 50	100 -4.1 45	104 -6.6 31	123 48.6 60	115 21 51	109 35 48	93 0.16 49	86 -1.60 47	92 -0.19 46
HHB 190025 291237246 TANI	1	JH 160047 HHB 160003	98 76	117 74	93 73	81 65	98 53	109 65	111 37	108 59	105 54	102 0.95 78	87 0.42 70	123 41 65	117 24.2 74	93 -1.4 73	102 59 71	128 44.4 67	116 162 47	110 -32 22	78 -1.4 54	90 4.5 62	95 -4.8 37	117 44.7 61	117 22 55	108 33 51	79 -0.93 55	110 1.47 52	113 1.48 51
HHB 190032 291237311 TESS		JH 160047 HHB 100013	96 89	113 88	110 88	83 86	118 84	120 82	105 81	116 82	103 82	100 1.10 89	87 0.42 87	118 37 86	113 21.8 88	110 3.8 88	113 85 87	120 38.9 86	113 151 82	107 -29 80	83 1.1 83	102 -5.6 85	121 -10.0 81	120 46.7 85	124 27 83	115 40 82	91 0.03 83	103 0.56 82	100 0.40 82

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ID Number Name																													
JH 190010 291204162 1910	1	SS 130048 JC 140069	95 73	105 74	83 74	110 59	118 47	104 63	114 39	104 58	90 62	91 1.88 75	117 -0.72 66	90 9 59	105 17.4 74	83 -4.4 74	93 38 69	103 25.6 64	116 165 38	115 -38 37	110 15.8 46	116 -16.4 46	119 -9.6 32	99 32.4 62	116 22 74	109 34 40	109 1.54 65	82 -2.12 59	76 -1.52 58
JH 190029 291204121 1929	2	SS 130048 JH 130090	95 76	101 75	100 76	96 63	138 52	113 66	107 40	111 61	98 46	93 1.68 78	109 -0.43 70	103 22 63	101 15.0 75	100 0.9 76	99 53 71	104 26.4 67	110 137 40	117 -40 37	110 15.9 51	139 -34.9 62	124 -10.6 31	112 40.9 63	87 5 48	95 19 43	121 2.52 47	89 -1.18 44	80 -1.22 42
JH 190073 291230829 1973	1	SP 110076 JH 140105	93 74	104 74	89 73	73 45	104 53	92 64	102 39	91 59	95 62	98 1.28 76	88 0.41 67	135 53 45	104 16.7 74	89 -2.6 73	84 15 64	114 34.2 57	111 142 41	110 -31 34	85 2.2 45	105 -7.5 55	97 -5.1 39	110 39.5 64	85 3 74	97 21 44	109 1.49 65	66 -4.17 59	78 -1.34 57
CJ 200030 291298404 CALLA	13	CJ 160015 CJ 170006	108 86	106 81	102 82	100 80	98 81	109 77	100 78	105 77	105 79	103 0.89 87	119 -0.81 84	98 17 80	106 18.1 81	102 1.4 82	108 74 81	103 25.8 79	104 112 79	104 -25 78	117 19.8 79	93 2.1 81	96 -5.1 79	111 40.8 83	99 12 79	104 29 79	91 0.01 79	125 3.42 79	99 0.36 79
HHB 200019 291278497 ULMA		JH 160047 HHB 120005	106 75	107 73	117 73	88 58	105 51	116 64	102 31	112 57	100 64	108 0.43 77	92 0.24 68	111 29 58	107 18.4 73	117 5.8 73	115 91 68	111 32.0 66	108 129 38	100 -20 21	79 -1.0 43	99 -3.4 59	100 -5.9 35	115 43.1 60	116 22 44	109 34 41	104 1.07 67	88 -1.40 62	101 0.52 60
HHB 200022 291278513 ULRIKE	1	JH 150098 OLG 170007	105 72	96 71	92 67	137 58	74 48	88 61	89 26	85 54	88 62	107 0.50 75	92 0.22 61	70 -9 58	96 12.5 71	92 -1.6 67	100 55 65	96 20.3 64	95 75 28	97 -16 23	86 2.9 31	78 14.0 58	65 1.4 30	111 40.5 57	99 11 31	93 17 30	88 -0.18 65	96 -0.32 59	99 0.38 36
HHB 200023 291278521 UNIQUE	1	JH 150098 SP 150045	102 74	96 72	77 68	149 57	86 50	87 63	88 32	84 57	78 62	107 0.54 76	86 0.49 65	59 -20 57	96 12.3 72	77 -6.3 68	89 28 66	98 21.2 64	94 71 32	100 -20 28	78 -1.7 36	105 -7.8 57	65 1.3 35	100 32.8 58	90 6 36	84 8 35	63 -2.29 65	101 0.32 59	95 0.06 36
HHB 200032 291294882 UDELL	1	LL 150251 J 150021	92 49	101 71	113 65	80 46	108 38	102 54			94 56	92 1.82 49	105 -0.27 50	122 40 46	101 15.3 71	113 4.8 65	104 63 61	101 23.9 38	92 61 22	92 -11 8	99 9.7 26	116 -16.4 38	99 -5.5 20	99 32.1 57	98 11 26	98 23 24	105 1.19 60	109 1.36 53	103 0.69 52
HHB 200034 291294908 UDELIA	1	JH 160047 HHB 060014	83 75	124 73	118 71	64 58	102 53	120 64	113 36	118 58	111 66	89 2.08 77	89 0.36 67	144 61 58	124 28.1 73	118 6.2 71	119 100 67	133 48.6 60	118 173 47	110 -32 22	90 4.8 53	102 -5.5 61	95 -4.8 37	110 39.8 60	130 30 54	122 49 51	101 0.83 68	111 1.55 63	98 0.26 47
HHB 200046 291295020 ULANDI	1	JH 160047 HHB 160003	100 75	104 74	92 73	91 61	97 53	97 65	98 34	94 59	91 66	106 0.58 77	82 0.65 67	110 29 61	104 16.9 74	92 -1.6 73	94 39 69	116 35.9 63	104 111 41	102 -22 22	70 -6.0 47	94 0.6 62	94 -4.6 37	110 39.5 60	103 14 48	95 19 45	72 -1.57 68	105 0.79 63	114 1.57 61
HHB 200060 291316529 UMI	1	JH 160047 HHB 180002	113 73	92 70	91 67	113 59	94 49	91 61	89 31	87 55	72 64	117 -0.32 75	84 0.56 65	86 6 59	92 10.0 70	91 -1.9 67	88 26 65	101 24.1 64	96 76 38	96 -16 21	64 -9.1 44	101 -4.7 58	86 -2.9 34	102 34.5 56	96 10 45	87 11 41	48 -3.47 67	98 -0.09 61	100 0.42 60
HHB 200063 291316560 ULANI		JH 160047 HHB 130001	108 75	108 72	109 69	80 59	98 50	110 63	105 33	107 57	98 64	108 0.43 77	97 0.04 68	122 40 59	108 19.2 72	109 3.5 69	106 70 67	107 28.2 65	112 145 40	107 -28 22	80 -0.3 47	90 4.5 62	101 -5.9 29	111 40.5 60	121 25 48	114 40 44	83 -0.65 67	96 -0.26 62	108 1.09 60

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ID Number Name																													
VV 200120 291273993 VV200120	4	VV 130121 VV 150165	101 88	115 88	130 86	68 82	117 84	129 81	121 81	127 81	123 81	101 0.99 88	98 -0.01 86	137 54 82	115 22.7 88	130 9.7 86	122 107 85	112 32.2 82	123 193 81	113 -35 81	118 20.0 81	98 -2.5 84	126 -11.2 83	115 43.1 85	123 26 82	123 50 82	112 1.79 81	116 2.28 81	113 1.45 81
HHB 210016 291328680 2116	1	JH 150098 HHB 110013	99 73	86 71	117 67	118 59	96 43	91 61	84 30	86 55	74 63	103 0.86 76	88 0.40 63	81 1 59	86 6.8 71	117 5.9 67	108 73 66	87 13.0 54	91 55 33	94 -13 22	80 -0.7 37	107 -9.3 43	80 -1.6 27	107 37.6 59	86 3 38	77 0 36	87 -0.31 66	96 -0.37 60	76 -1.50 58
HHB 210019 291328797 2119		BR 160002 J 180086	87 71	110 71	117 61	91 45	96 49	108 60	120 21	108 52	118 56	83 2.57 73	110 -0.45 61	107 26 45	110 20.3 71	117 5.9 61	120 103 59	116 35.4 60	119 175 26	115 -38 14	102 11.7 29	94 0.7 57	98 -5.3 31	101 33.7 58	119 23 30	110 35 28	132 3.42 60	98 -0.06 53	116 1.70 51
HHB 210027 291338085 2127		LL 180284	105 66	101 48	103 58	89 53	94 28	98 47			86 56	105 0.67 69	98 0.01 56	112 30 53	101 15.0 48	103 1.7 58	99 51 53	100 22.8 46	95 76 16	86 -4 8	98 9.1 18	90 3.8 23	99 -5.6 17	100 33.1 43	104 14 17	96 20 17	82 -0.74 59	96 -0.33 52	87 -0.64 50
HHB 210029 291341378 2129	1	JC 150146 FR 170089	84 72	91 66	111 70	103 66	95 44	84 60	87 26	81 53	71 62	87 2.26 75	97 0.05 62	94 14 66	91 9.8 66	111 4.0 70	102 59 67	94 18.7 52	81 15 33	75 10 17	89 4.2 39	101 -4.6 48	84 -2.4 26	107 37.7 58	101 13 38	96 21 36	84 -0.57 65	96 -0.35 59	78 -1.35 57
HHB 210037 291341428 2137		JH 150098 HHB 120005	101 75	92 72	87 69	120 58	100 44	89 62	83 26	84 55	87 63	106 0.58 77	85 0.53 67	81 1 58	92 10.2 72	87 -3.2 69	87 23 66	91 16.2 64	88 43 27	86 -4 21	84 1.5 31	105 -7.7 45	89 -3.5 28	108 38.6 59	91 7 31	87 10 30	84 -0.59 66	108 1.26 60	120 2.08 57
HHB 210038 291373645 2138	1	JH 160047 HHB 170011	102 75	112 71	100 63	97 54	101 46	113 61	108 34	111 56	106 65	105 0.66 77	88 0.39 66	101 21 54	112 21.5 71	100 0.8 63	111 80 63	122 39.8 65	109 135 42	104 -25 22	85 2.5 48	96 -1.0 50	103 -6.4 30	106 36.9 59	112 19 49	105 30 46	79 -0.94 68	119 2.64 62	144 3.96 61
HHB 210045 291373710 2145		HHB 180009 LL 170083	83 63	126 72	102 65	109 58	122 43	131 59	119 24	129 52	115 60	73 3.40 64	99 -0.04 61	89 9 58	126 28.8 72	102 1.5 65	131 129 65	134 49.1 63	126 206 27	120 -43 17	129 26.2 32	116 -16.8 55	119 -9.7 21	111 40.6 54	117 23 34	119 45 30	83 -0.59 64	122 2.98 57	110 1.20 56
HHB 210053 291373793 2153		VV 170002 HHB 190010	98 66	105 71	103 62	110 47	102 49	107 59	95 27	103 53	95 63	98 1.25 67	101 -0.11 60	88 8 47	105 17.6 71	103 1.5 62	111 81 60	106 27.5 66	105 117 32	108 -30 18	97 8.5 36	98 -2.2 61	96 -5.0 31	115 43.5 56	98 11 38	100 24 37	96 0.40 66	114 1.97 60	116 1.72 58
HHB 210055 291373819 2155	1	VV 170002 HHB 180027	98 65	108 71	83 62	109 43	109 50	106 59	93 24	101 52	105 63	101 1.06 66	94 0.16 59	91 10 43	108 19.3 71	83 -4.4 62	97 46 59	111 31.8 66	104 112 33	109 -30 12	95 7.6 37	101 -4.7 61	106 -7.0 32	117 44.7 56	90 6 39	92 16 37	91 0.04 66	132 4.25 60	144 3.96 59
HHB 210064 291373900 2164	1	KVS 150194 HHB 160011	91 66	106 71	112 62	113 49	97 50	107 59	102 34	104 54	102 41	90 2.02 67	110 -0.45 62	85 5 49	106 17.9 71	112 4.4 62	122 107 61	111 31.6 56	109 132 39	105 -26 26	111 16.4 43	87 6.5 61	102 -6.2 31	109 38.8 58	88 5 44	100 24 42	86 -0.42 43	121 2.87 39	98 0.28 38
HHB 210069 291373959 2169	2	KVS 150194 HHB 130011	92 66	107 70	101 59	97 42	100 50	102 58	100 35	99 53	98 40	92 1.84 67	104 -0.24 63	101 21 42	107 18.5 70	101 1.2 59	107 70 57	111 31.6 64	108 131 41	106 -27 26	104 12.5 45	101 -4.5 60	96 -5.0 31	104 35.8 58	92 8 46	104 29 44	106 1.26 42	89 -1.17 38	81 -1.13 38

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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																													
HHB 210077		KVS 150194	93	104	122	83	118	114	96	109	103	91	110	118	104	122	115	102	107	104	107	116	107	116	93	106	103	105	94
291383982		HHB 130001	74	71	63	45	51	61	34	56	41	1.86	-0.46	36	16.8	7.5	90	24.6	123	-25	13.9	-16.6	-7.2	43.5	8	31	0.98	0.87	-0.05
2177												76	64	45	71	63	60	66	39	26	44	62	31	59	44	43	43	39	38
IGB 210037	13	KVS 160043	88	110	106	100	119	114	114	113	106	96	81	98	110	106	114	114	111	110	133	113	114	113	113	113	89	88	96
291348464		JH 180001	71	61	64	51	43	56	36	52	32	1.50	0.67	18	19.9	2.5	88	34.2	142	-31	28.2	-14.4	-8.6	42.1	20	39	-0.15	-1.36	0.09
IGB210037												74	59	51	61	64	59	48	36	33	39	45	29	56	40	39	34	31	30
HHB 220009	1	KVS 150194	90	107	116	93	117	115	100	110	105	88	112	105	107	116	117	107	108	106	116	120	104	112	99	107	106	105	89
291384071		HHB 080026	74	71	62	46	51	61	36	56	37	2.18	-0.55	24	18.6	5.4	95	28.8	129	-26	19.1	-19.4	-6.6	41.2	11	32	1.28	0.83	-0.49
HHB2209												76	64	46	71	62	60	48	41	27	45	62	32	59	45	44	38	36	35
HHB 220013	1	VV 170002	102	98	89	123	103	98	85	93	85	107	85	80	98	89	95	100	96	102	83	104	92	115	93	89	87	104	116
291390268		HHB 190012	70	71	61	42	46	59	25	52	44	0.54	0.52	0	13.5	-2.5	43	22.8	77	-22	1.4	-7.1	-4.1	43.4	8	12	-0.31	0.76	1.71
HHB2213												74	55	42	71	61	58	55	32	14	36	60	25	54	39	37	46	43	42
HHB 220014	1	VV 170002	93	117	117	90	118	127	106	123	110	98	88	109	117	117	125	121	118	116	96	102	119	122	120	115	106	111	124
291390276		HHB 190032	70	71	62	47	47	59	26	52	46	1.30	0.38	28	24.0	5.8	115	39.4	173	-39	8.1	-5.4	-9.6	48.3	24	41	1.26	1.61	2.34
HHB2214												74	56	47	71	62	60	55	34	14	39	61	27	54	41	39	47	44	43
HHB 220021	1	VV 170002	90	118	106	88	112	120	104	116	106	96	84	112	118	106	117	124	115	115	89	103	107	121	111	107	95	114	129
291403988		HHB 190025	70	71	61	47	43	59	27	53	48	1.45	0.53	31	24.6	2.6	95	41.8	160	-38	4.6	-6.2	-7.3	47.2	19	32	0.38	2.02	2.78
HHB2221												74	56	47	71	61	60	55	36	14	41	49	27	53	43	41	49	46	45
HHB 220028		VV 170002	93	105	103	100	133	117	99	112	101	100	81	98	105	103	107	109	109	113	99	134	120	112	106	101	102	114	123
291404051		FR 150071	69	73	63	33	48	59	26	52	42	1.12	0.66	17	17.3	1.5	71	30.4	132	-35	9.6	-30.7	-9.9	41.2	16	25	0.94	2.02	2.26
HHB2228												73	55	33	73	63	56	64	32	16	36	61	28	54	40	37	43	41	40
HHB 220030	1	VV 170002	94	111	91	104	120	113	96	108	96	98	89	95	111	91	104	115	108	112	93	116	112	116	92	97	99	89	118
291404077		FR 170115	69	72	62	39	47	59	28	53	45	1.28	0.34	15	20.5	-2.0	63	34.5	128	-34	6.7	-16.4	-8.2	43.8	7	21	0.65	-1.27	1.88
HHB2230												73	55	39	72	62	58	64	34	20	38	59	27	54	40	39	46	44	43
HHB 220036	1	VV 170002	104	101	109	107	114	112	92	107	98	108	84	91	101	109	111	102	103	105	99	113	103	116	102	100	102	112	127
94599669		HHB 190016	70	71	61	42	46	59	24	52	44	0.39	0.56	11	15.4	3.3	82	24.9	110	-25	9.9	-14.1	-6.4	43.9	13	24	0.94	1.80	2.58
SANBOD2236												74	55	42	71	61	58	66	31	13	35	60	25	52	37	36	45	42	41
HHB 220040	1	VV 170002	100	104	84	91	97	94	86	89	91	102	95	111	104	84	87	104	97	104	93	94	91	113	91	91	97	105	119
94599677		LL 170087	68	71	61	41	45	58	21	51	42	0.94	0.14	29	17.1	-4.0	24	26.2	82	-25	6.4	0.9	-3.9	42.0	6	15	0.56	0.86	1.95
SANBOD2240												72	54	41	71	61	58	64	29	9	34	58	23	54	36	34	43	40	37
HHB 220041		VV 170002	80	118	117	93	102	116	106	113	110	87	85	105	118	117	128	118	118	119	108	93	105	110	110	113	103	111	113
94599685		HHB 100012	71	70	61	31	47	58	24	51	44	2.23	0.51	24	24.7	5.8	123	37.3	172	-42	14.5	1.9	-6.8	39.7	18	39	1.02	1.65	1.51
SANBOD2241												75	57	31	70	61	54	64	33	11	37	60	24	56	40	38	45	42	41
HHB 220043		VV 170002	93	113	110	94	114	119	110	116	115	96	92	104	113	110	119	114	120	116	107	112	106	112	122	119	122	112	142
94599693		J 150038	68	71	61	31	46	58	23	51	42	1.43	0.26	23	21.9	3.9	99	34.1	179	-39	14.4	-13.3	-7.0	41.4	25	45	2.54	1.70	3.80
SANBOD2243												72	53	31	71	61	54	64	33	9	38	60	25	54	40	38	43	41	40

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ID Number Name																													
HHB 220045 94599701 SANBOD2245	1	 KVS 150194  HHB 140013	102 87	101 87	102 85	95 82	108 83	104 80	97 81	100 80	100 81	99 1.24 88	124 -0.99 84	104 23 82	101 15.3 87	102 1.4 85	101 56 85	101 23.8 84	104 114 81	105 -25 80	116 18.9 82	103 -6.5 84	102 -6.2 80	114 42.3 84	87 4 82	99 24 82	102 0.97 81	114 1.94 81	92 -0.24 81
HHB 220059 94599727 SANBOD2259	1	JC 150146 FR 120073	92 68	103 71	118 63	85 32	91 48	99 58	98 24	96 51	89 40	90 2.02 72	114 -0.59 53	115 34 32	103 16.4 71	118 6.2 63	111 82 55	102 25.1 62	90 52 32	82 2 12	104 12.6 38	94 1.3 61	82 -2.1 27	110 40.1 56	111 19 37	105 30 35	102 0.92 41	99 0.02 38	104 0.73 38
HHB 220061 94599891 SANBOD2261	1	KVS 150194 HHB 110010	86 74	109 71	132 63	78 45	121 47	121 60	105 36	117 55	111 42	87 2.24 76	103 -0.19 64	122 40 45	109 19.6 71	132 10.3 63	124 113 60	113 33.0 64	117 167 43	112 -34 25	112 16.8 47	119 -18.9 59	110 -7.8 25	117 44.5 58	102 13 48	114 40 47	112 1.75 44	99 0.13 40	84 -0.84 39
HHB 220065 94599909 SANBOD2265	1	JC 150146 LL 150302	86 68	112 72	102 64	94 41	91 48	101 59	95 24	97 52	88 42	77 3.14 72	107 -0.34 53	106 25 41	112 21.2 72	102 1.4 64	110 79 59	111 31.7 64	90 51 32	81 2 13	102 11.7 38	78 13.3 60	100 -5.7 28	110 39.8 57	112 19 38	109 34 36	98 0.64 44	92 -0.88 41	106 0.88 38
HHB 220071 94599776 SANBOD2271	3	HHB 180009 HHB 130001	86 70	117 70	104 60	84 44	119 46	118 58	111 21	115 51	116 35	86 2.32 73	105 -0.26 57	117 36 44	117 24.0 70	104 1.8 60	112 82 58	117 36.5 62	119 174 26	116 -38 13	118 20.2 30	107 -9.5 58	121 -10.1 25	113 42.1 54	115 21 31	118 44 29	92 0.13 37	130 4.02 33	122 2.20 32
HHB 220072 94599784 SANBOD2272	1	JC 150146 HHB 160003	84 72	102 72	108 64	88 50	90 49	90 61	89 26	87 54	84 45	80 2.85 75	103 -0.18 58	113 31 50	102 15.6 72	108 3.3 64	103 62 62	107 28.7 65	84 28 35	78 7 13	95 7.9 41	84 9.2 61	89 -3.5 28	115 43.1 57	99 11 40	97 21 38	72 -1.51 47	123 3.12 43	122 2.22 42
HHB 220082 94599826 SANBOD2282	1	KVS 150194 HHB 160014	99 72	109 71	100 62	95 48	103 45	108 60	106 34	106 55	109 40	94 1.60 75	115 -0.67 59	105 24 48	109 19.6 71	100 0.8 62	106 69 60	114 33.7 48	114 155 39	110 -32 26	111 16.5 43	100 -3.5 51	98 -5.5 27	112 41.2 56	92 7 44	104 29 42	96 0.41 41	120 2.77 38	103 0.67 38
HHB 220085 94685641 SANBOD2285	1	KVS 150194 LL 150212	99 70	106 73	127 63	83 40	108 45	116 59	111 35	114 54	112 40	98 1.31 73	105 -0.28 56	117 35 40	106 18.1 73	127 8.8 63	120 103 59	112 32.5 46	118 171 41	111 -32 25	115 18.8 46	98 -1.9 51	108 -7.4 29	117 44.4 56	109 17 46	114 40 45	119 2.32 42	100 0.25 39	91 -0.33 38
JH 220002 291383297 222	1	JH 170053 HG 180036	88 72	107 72	83 66	111 59	116 45	103 61	113 42	103 57	111 46	81 2.75 75	114 -0.59 59	89 9 59	107 18.6 72	83 -4.3 66	96 45 66	94 18.2 64	109 132 40	106 -27 41	112 17.1 46	109 -10.6 55	117 -9.3 26	109 39.2 55	118 23 46	114 40 44	99 0.72 48	111 1.63 45	102 0.61 41
JH 220004 291383313 224	1	JC 150146 JH 160084	100 72	92 72	105 63	86 51	98 47	88 61	79 22	82 53	74 42	99 1.16 75	102 -0.14 60	115 34 51	92 10.1 72	105 2.2 63	91 32 62	91 16.5 66	73 -21 30	66 21 10	85 2.5 39	98 -2.2 58	96 -4.9 26	105 36.2 57	93 8 40	92 16 34	89 -0.11 44	90 -1.14 41	107 1.01 40
JH 220007 291388874 227	2	JH 170053 JH 190029	89 72	113 71	80 60	96 51	116 46	106 60	118 42	106 56	112 46	83 2.62 75	116 -0.70 58	105 24 51	113 21.9 71	80 -5.5 60	93 38 61	110 30.6 52	116 165 38	119 -42 40	116 19.1 47	107 -9.6 56	115 -8.9 25	113 42.0 56	110 18 45	109 35 42	119 2.36 47	98 -0.01 45	90 -0.37 40
JH 220008 291388882 228		JH 190022 JH 180020	86 69	116 71	104 59	84 43	134 45	123 58	114 22	121 51	111 23	88 2.17 72	100 -0.07 56	118 36 43	116 23.2 71	104 2.0 59	110 80 58	120 38.7 62	116 164 23	114 -36 19	116 19.1 39	123 -22.1 57	136 -13.1 25	110 39.6 52	110 18 28	113 38 25	118 2.22 24	95 -0.50 22	95 0.05 21

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ID Number Name																													
JH 220017 291390771 2217	1	JH 180069 SP 150033	92 72	105 72	101 61	94 29	119 47	108 59	95 26	104 52	97 36	91 1.91 75	108 -0.37 59	105 24 29	105 17.3 72	101 1.2 61	103 62 54	107 28.4 64	99 91 30	109 -30 21	101 10.7 42	124 -22.5 55	107 -7.2 30	108 38.5 55	81 1 38	92 16 33	117 2.17 38	86 -1.57 35	88 -0.52 34
JH 220036 291401180 2236		SP 160058 JH 160032	86 70	129 71	95 62	91 43	95 43	117 58	121 36	118 54	117 46	70 3.69 74	108 -0.37 55	109 28 43	129 30.3 71	95 -0.8 62	118 98 59	128 45.1 50	125 201 37	111 -33 31	111 16.4 45	82 10.5 44	104 -6.5 30	109 39.4 55	114 20 43	123 49 40	122 2.61 47	69 -3.82 44	101 0.51 43
LL 220057 291389831 LL220057		JC 140099 LL 120081	99 47	106 72	81 63	89 40	96 43	93 54	109 20	93 47	101 16	95 1.51 47	122 -0.91 45	114 32 40	106 17.7 72	81 -5.0 63	85 18 58	105 26.8 32	109 134 26	103 -23 11	96 8.3 30	89 4.7 43	104 -6.6 29	100 33.2 57	111 19 29	105 30 28	99 0.71 17	93 -0.66 15	103 0.70 15
CJ 230021 95670287 LEVI	1	LL 170304 CJ 190010	88 67	114 57	94 42	102 19	104 39	108 48	110 24	107 43	108 25	87 2.22 72	107 -0.35 45	96 16 19	114 22.3 57	94 -1.0 42	109 77 39	116 35.5 28	112 145 27	105 -26 18	113 17.2 31	97 -1.2 42	107 -7.2 23	108 38.5 52	104 14 30	108 33 29	90 -0.04 26	103 0.63 24	92 -0.20 22
CJ 230022 95670139 AMALIA	1	LL 170304 CJ 170008	87 68	116 52	100 39	95 14	97 41	109 46			109 20	85 2.41 73	112 -0.54 47	104 23 14	116 23.6 52	100 0.9 39	113 87 35	115 34.6 22	108 127 22	103 -23 9	114 17.9 25	87 6.5 46	97 -5.2 23	116 44.0 53	104 14 25	107 32 24	100 0.80 21	115 2.08 18	109 1.15 16
HHB 230004 94903994 SANBOD2304	1	VV 170002 HHB 170008	102 85	108 85	89 83	113 81	120 81	114 78	99 78	110 78	103 80	101 1.04 86	105 -0.28 82	86 6 81	108 18.8 85	89 -2.6 83	102 60 83	113 33.5 84	109 135 79	113 -35 78	104 12.6 79	118 -18.2 83	115 -8.9 78	107 37.8 82	97 10 80	102 26 79	88 -0.26 80	136 4.83 80	138 3.54 80
HHB 230007 94904018 SANBOD2307	1	VV 170002 HHB 150011	97 71	112 71	94 61	107 39	121 47	119 59	100 25	114 52	107 46	99 1.16 75	95 0.11 56	91 11 39	112 21.2 71	94 -1.1 61	109 77 57	113 32.9 66	112 144 33	113 -36 13	108 14.7 37	115 -16.1 59	115 -8.8 27	115 43.5 54	106 16 40	105 30 38	94 0.29 47	129 3.86 44	139 3.60 43
HHB 230008 94904026 SANBOD2308	1	KVS 150194 OLG 170007	99 85	106 85	117 81	89 79	96 81	108 78	107 78	106 78	112 79	95 1.52 86	113 -0.56 82	110 28 79	106 18.2 85	117 5.7 81	115 91 82	107 28.9 83	115 159 79	112 -34 78	112 17.1 79	88 5.7 82	93 -4.4 78	117 44.7 82	99 11 79	109 34 79	108 1.42 79	108 1.28 79	95 0.03 79
HHB 230011 94904042 SANBOD2311		HHB 180009 LL 170151	84 82	121 83	85 78	91 76	98 78	106 75	116 74	106 75	118 76	85 2.41 83	103 -0.17 78	111 30 76	121 26.2 83	85 -3.9 78	102 60 79	124 41.4 80	121 185 75	115 -37 74	118 19.9 75	90 4.0 79	100 -5.8 75	111 40.5 79	119 24 75	117 43 75	98 0.63 76	125 3.35 75	122 2.21 75
HHB 230016 95243218 SANBOD2316	1	VV 170002 HHB 170018	101 85	104 85	100 81	109 79	103 81	106 78	94 78	102 78	96 80	101 0.99 86	98 -0.01 82	89 9 79	104 17.0 85	100 0.7 81	107 72 82	108 29.2 82	106 120 79	108 -29 78	97 8.5 79	96 -1.0 82	100 -5.7 78	114 42.8 82	94 9 79	100 25 79	86 -0.42 80	117 2.33 80	127 2.62 80
HHB 230018 94951449 HHB 230018	2	JH 180069 JH 180023	81 84	102 85	126 81	93 78	121 79	111 77	107 78	109 77	102 78	83 2.57 85	94 0.16 80	104 23 78	102 15.8 85	126 8.6 81	121 105 81	109 29.8 84	112 148 78	117 -40 77	113 17.2 79	118 -18.2 79	109 -7.6 77	120 46.5 81	107 16 78	106 31 78	119 2.34 79	98 -0.10 78	82 -1.06 78
HHB 230020 94937521 2320	1	KVS 150194 HHB 190032	94 86	110 86	124 84	83 81	110 83	118 79	108 81	115 79	108 82	94 1.60 87	103 -0.17 84	117 35 81	110 20.1 86	124 8.1 84	122 107 84	115 34.7 84	117 166 81	112 -34 80	96 8.0 82	96 -0.9 84	108 -7.5 80	122 47.9 84	102 13 82	109 34 82	107 1.36 82	99 0.09 81	86 -0.69 81

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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																														
HHB 230025 95026324 HHB 230025	2	 JH 180069  JH 160024		96 87	104 87	89 84	98 81	105 82	98 80	108 80	98 80	106 82	99 1.16	90 0.31	102 21	104 17.0	89 -2.6	94 39	108 29.0	109 135	104 -24	103 12.2	102 -5.1	101 -6.1	109 38.9	105 15	109 34	118 2.25	104 0.74	81 -1.15
HHB 230029 95068904 HHB 230029	1	 JH 180069  JH 170050		92 85	108 85	109 82	75 79	121 80	113 78	117 78	112 78	109 79	89 2.07	115 -0.63	129 47	108 19.2	109 3.5	104 65	113 32.9	114 156	105 -26	117 19.6	115 -15.7	118 -9.4	112 40.9	116 22	114 40	127 3.02	101 0.38	84 -0.88
HHB 230035 95237228 2335		 HHB 190021  HHB 200019		96 85	114 85	111 81	91 79	114 80	122 78	112 78	119 78	114 80	96 1.42	103 -0.17	108 27	114 22.6	111 4.0	118 99	117 36.7	115 158	110 -31	100 10.4	102 -5.4	110 -7.8	123 48.5	106 16	111 36	109 1.55	99 0.09	100 0.45
HHB 230037 95259107 2337		 HHB 190021  HHB 090023		95 87	109 86	89 83	99 80	121 81	111 79	99 80	107 79	103 81	93 1.70	110 -0.46	101 20	109 19.7	89 -2.5	99 52	109 29.7	105 114	109 -31	97 8.8	107 -9.6	121 -10.2	118 45.4	83 2	97 22	93 0.19	106 1.00	101 0.50
HHB 230040 95492963 2340	2	 KVS 150194  HHB 190020		107 85	115 85	115 82	72 79	111 80	124 78	112 79	122 78	115 80	104 0.73	106 -0.30	133 51	115 23.1	115 5.3	113 86	118 37.4	122 190	112 -34	101 10.7	104 -6.7	101 -6.1	124 49.3	112 19	119 45	111 1.70	91 -0.99	88 -0.59
HHB 230045 95493011 2345		 HHB 190021  HHB 140008		97 85	99 84	81 80	111 78	128 79	103 77	90 78	98 77	90 79	94 1.60	111 -0.49	89 8	99 14.3	81 -4.9	87 22	94 18.7	94 70	97 -17	97 8.8	122 -21.4	124 -10.6	113 41.8	79 -1	89 13	85 -0.48	97 -0.19	100 0.44
HHB 230046 95493029 2346		 HHB 190021  HHB 200034		86 84	115 85	108 80	87 79	112 79	114 77	106 78	112 77	112 80	87 2.23	102 -0.16	114 32	115 22.7	108 3.2	114 89	118 36.9	112 147	112 -33	100 10.6	106 -8.6	106 -7.0	116 44.1	101 13	108 33	101 0.85	118 2.53	100 0.45
HHB 230050 95763454 2350	1	 VV 170002  HHB 200022		86 85	116 86	95 82	106 80	96 81	107 78	98 80	103 78	103 82	91 1.86	89 0.35	92 12	116 23.5	95 -0.7	114 87	116 35.6	111 141	112 -34	99 9.7	93 1.7	90 -3.7	114 42.6	110 18	107 33	106 1.30	101 0.34	122 2.23
HHB 230053 95625216 HHB 230053	1	 SP 160058  JH 180020		84 84	114 85	77 80	94 77	108 79	100 77	106 78	98 77	100 78	85 2.44	102 -0.15	107 26	114 22.3	77 -6.3	91 32	121 39.5	109 132	105 -26	100 10.5	99 -3.1	108 -7.5	113 41.7	89 5	101 26	101 0.83	73 -3.32	108 1.06
HHB 230056 95656864 HHB 230056		 20164169  JH 180051		101 82	117 83	84 78	87 76	146 76	128 75	107 74	124 75	103 75	97 1.35	114 -0.61	116 34	117 23.8	84 -4.2	96 46	126 42.9	110 137	111 -32	115 18.5	138 -33.8	131 -12.2	126 50.6	99 12	102 27	108 1.47	106 0.98	87 -0.63
HHB 230057 95763496 2357		 VV 170002  HHB 140013		101 87	98 87	112 84	110 81	121 83	113 80	81 80	105 80	84 82	102 0.95	97 0.05	87 7	98 13.7	112 4.5	113 87	103 25.3	89 48	94 -13	97 8.5	116 -16.3	110 -7.9	120 46.8	84 2	87 10	85 -0.44	117 2.35	124 2.40
HHB 230065 96054382 2365	2	 HHB 200006  HHB 110010		106 84	85 84	122 80	106 77	113 78	101 77	83 77	95 77	73 78	108 0.44	93 0.19	91 10	85 6.4	122 7.5	107 72	90 15.7	92 61	99 -18	81 0.2	114 -15.0	95 -4.7	123 48.4	81 1	80 3	73 -1.44	99 0.05	87 -0.67

Breeding Values and Accuracies: Cows

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White: 80-120 Average
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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																														
HHB 230067		JH 170053		89	107	71	103	108	93	108	93	101	80	116	98	107	71	83	104	103	103	100	101	104	117	95	99	96	97	108
95852232		JH 200074		85	86	81	79	80	78	80	78	80	2.81	-0.70	18	18.5	-8.0	12	26.5	108	-23	10.5	-4.3	-6.7	44.4	9	23	0.43	-0.16	1.11
HHB 230067													86	80	79	86	81	82	82	80	80	81	80	78	82	80	80	81	80	80
HHB 230078		IGB 200022		82	108	117	93	116	112	106	109	105	86	93	105	108	117	119	111	111	111	117	106	112	118	107	110	102	91	97
96061940	1	IGB 210037		83	82	78	77	77	75	76	75	76	2.31	0.18	24	19.1	5.9	100	31.9	141	-33	19.4	-8.9	-8.2	45.4	17	36	0.95	-1.02	0.16
2378													84	78	77	82	78	79	80	76	76	76	77	76	78	76	76	76	76	76
HHB 230083		HHB 190021		89	112	92	90	111	107	109	105	109	91	100	111	112	92	101	110	108	107	110	95	115	117	103	103	90	116	103
96061981	1	HHB 210027		84	84	80	79	79	77	78	77	80	1.93	-0.07	29	21.3	-1.6	56	30.9	129	-28	15.8	0.1	-9.0	44.7	14	28	-0.02	2.20	0.65
2383													85	80	79	84	80	81	82	78	78	79	78	78	80	80	80	80	80	79
HHB 230084		JC 150146		86	95	109	91	102	91	90	87	85	87	104	108	95	109	100	95	85	80	99	106	88	113	97	93	72	132	122
96061999	1	HHB 170012		85	85	82	80	80	78	78	78	80	2.23	-0.24	27	12.2	3.6	55	19.1	30	4	9.9	-8.5	-3.4	41.5	10	17	-1.52	4.32	2.24
2384													86	81	80	85	82	82	83	79	77	79	80	78	82	79	79	80	79	79
HHB 230085		SP 160058		82	114	82	91	95	95	111	95	108	86	95	111	114	82	94	120	114	117	109	93	94	107	94	102	114	77	108
96054051	1	LL 180174		84	86	82	79	80	78	80	78	80	2.34	0.12	30	22.3	-4.6	40	38.5	155	-40	15.2	1.5	-4.5	37.6	9	27	1.93	-2.74	1.09
HHB 230085													85	80	79	86	82	82	79	79	79	80	80	79	82	80	80	80	80	80
HHB 230104		KVS 150194		88	133	125	85	118	144	128	143	132	66	115	115	133	125	143	129	136	120	132	106	116	121	132	135	133	100	87
96122817	1	JH 160032		87	87	84	81	82	80	81	80	82	4.08	-0.64	33	32.5	8.3	159	45.6	249	-43	27.8	-8.4	-9.0	47.0	31	63	3.45	0.14	-0.63
HHB 230104													88	84	81	87	84	84	85	81	80	82	83	80	84	82	82	82	81	81
HHB 230114		HHB 190021		99	110	93	96	104	107	106	105	105	101	94	104	110	93	102	115	111	111	93	96	102	117	96	101	89	111	102
96160791		HHB 190029		65	68	47	34	36	53	27	48	40	1.03	0.15	23	20.2	-1.2	59	34.6	142	-33	6.8	-0.3	-6.1	44.7	10	25	-0.14	1.61	0.55
23114													71	43	34	68	47	50	63	29	22	43	37	22	48	44	32	42	39	38
HHB 230127		JC 150146		85	113	114	81	87	103	107	101	100	79	105	121	113	114	115	108	98	89	114	86	82	110	120	113	110	100	108
96233283	1	FR 120073		83	83	80	76	78	76	76	76	77	2.91	-0.27	39	21.6	5.1	90	29.5	85	-7	17.8	7.1	-2.2	40.0	24	39	1.57	0.17	1.07
HHB 230127													84	78	76	83	80	80	78	76	75	77	79	76	80	77	77	77	77	77
HHB 240007		VV 170002		98	115	119	89	119	128	107	124	112	102	86	110	115	119	125	120	119	116	98	102	120	122	118	116	105	114	120
96504618	1	HHB 190032		86	87	84	82	83	80	80	80	82	0.91	0.47	29	23.0	6.6	115	38.8	176	-39	9.4	-5.5	-9.9	48.0	23	42	1.21	1.96	2.08
2407													87	83	82	87	84	84	84	81	80	82	83	81	84	82	82	82	82	82
HHB 240014		VV 170002		105	108	103	103	109	115	97	110	103	108	89	95	108	103	111	106	108	108	98	105	105	113	106	104	107	111	126
96922323	1	HHB 190011		68	69	53	34	41	55	24	49	44	0.47	0.34	14	18.9	1.5	81	27.8	127	-30	9.4	-7.6	-6.8	41.6	16	29	1.31	1.62	2.56
2414													72	50	34	69	53	52	54	30	13	34	48	26	50	37	35	46	43	42
HHB 240015		VV 170002		97	106	93	121	107	108	95	104	96	98	97	80	106	93	108	109	105	108	101	99	110	109	94	96	81	130	133
96922331	1	HHB 160011		69	70	56	37	42	57	24	50	44	1.27	0.05	1	18.2	-1.3	73	30.1	116	-29	10.9	-3.2	-7.7	39.1	8	20	-0.79	4.02	3.07
2415													74	51	37	70	56	54	52	33	13	37	48	27	52	39	37	46	43	42
HHB 240018		HHB 200033		97	113	81	116	88	101	108	100	104	99	96	84	113	81	102	111	112	109	109	82	88	111	114	109	100	107	109
96926365	1	HHB 190013		63	65	47	34	34	51	24	46	29	1.23	0.07	4	21.8	-4.9	59	31.6	146	-30	15.1	10.6	-3.3	40.7	20	35	0.79	1.10	1.19
2418													68	42	34	65	47	49	48	23	22	27	37	22	43	27	26	30	28	26

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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	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
HHB 240024 96956883 HHB 240024	1	KVS 150194 JH 160068		86 70	107 71	112 55	91 39	98 44	103 57	100 36	100 53	98 38	85 2.40 74	109 -0.41 54	107 26 39	107 18.5 71	112 4.5 55	113 86 55	108 29.7 58	106 123 39	102 -22 29	106 13.8 43	94 1.2 51	97 -5.2 27	108 38.7 54	87 5 43	97 22 42	100 0.81 40	94 -0.53 37	77 -1.41 36
HHB 240030 97067599 HHB 240030	2	VV 170002 JH 170001		100 86	116 87	100 83	102 81	128 82	129 79	110 81	125 79	111 82	102 0.93 87	93 0.21 83	97 16 81	116 23.7 87	100 0.7 83	116 94 84	118 36.9 84	117 166 81	111 -33 80	103 12.2 82	118 -18.0 82	125 -10.9 80	118 45.0 83	102 13 82	111 36 82	97 0.55 83	117 2.41 82	118 1.92 82
HHB 240033 97149421 2433	1	JH 180069 HHB 190020		89 85	105 85	102 81	83 79	122 80	107 78	111 78	106 78	102 80	93 1.75 86	94 0.15 81	119 37 79	105 17.5 85	102 1.2 81	99 52 82	113 32.8 82	115 160 79	112 -35 78	98 9.4 80	111 -12.8 80	116 -9.0 78	123 49.0 82	109 17 80	109 34 79	121 2.49 80	85 -1.68 79	80 -1.23 79
HHB 240041 97508055 HHB240041	1	JH 180069 HHB 190009		98 66	92 69	92 50	108 38	109 39	91 54	93 26	88 48	86 38	100 1.14 72	97 0.06 44	91 11 38	92 10.1 69	92 -1.6 50	88 25 52	97 21.0 54	97 83 28	101 -21 21	93 6.7 41	117 -17.4 42	92 -4.3 24	108 38.8 50	90 6 34	88 12 32	106 1.25 40	101 0.34 37	77 -1.47 35
HHB 240045 97508089 HHB240045	1	JH 180069 HHB 200023		92 66	98 69	90 49	117 35	107 38	95 54	97 28	92 49	88 43	96 1.43 72	90 0.32 44	83 3 35	98 13.8 69	90 -2.4 49	95 42 51	108 29.5 58	101 99 29	106 -27 23	94 7.0 42	117 -17.2 41	90 -3.8 24	106 36.9 49	93 8 35	91 14 33	98 0.63 45	97 -0.15 41	82 -1.03 33
HHB 240051 97508139 HHB240051	1	JH 180069 HHB 190007		95 66	94 69	101 50	102 37	109 39	95 54	98 26	92 48	92 38	98 1.32 71	95 0.13 45	97 16 37	94 11.4 69	101 1.1 50	96 44 52	100 23.4 60	102 102 29	105 -26 21	99 10.0 42	119 -18.6 42	91 -3.9 25	110 39.9 50	98 11 35	95 19 33	114 1.93 39	98 -0.11 36	77 -1.42 35
HHB 240057 97508170 HHB240057	1	JH 180069 HHB 200046		97 67	105 69	94 51	89 37	112 39	103 55	106 28	102 50	99 44	98 1.26 72	97 0.05 45	112 30 37	105 17.3 69	94 -1.2 51	95 42 52	112 32.7 58	111 140 31	110 -32 21	95 7.5 44	110 -11.6 43	106 -7.0 24	110 40.1 50	105 15 38	102 26 36	108 1.40 46	100 0.13 42	93 -0.18 41
HHB 240062 97518658 HHB 240062	2	VV 200028 FR 150055		105 66	117 70	92 52	92 20	100 41	114 54	104 32	111 50	106 32	102 0.94 71	109 -0.41 45	108 27 20	117 23.8 70	92 -1.7 52	105 67 47	111 31.3 48	99 90 33	93 -11 26	107 14.4 37	89 4.6 43	109 -7.7 30	105 36.2 50	117 22 38	114 39 36	105 1.22 33	104 0.70 30	107 1.00 29
HHB 240063 97532873 HHB 240063	2	VV 170002 JH 180100		89 68	110 71	108 54	87 36	113 41	111 56	101 27	107 50	100 50	97 1.41 73	81 0.66 49	114 32 36	110 20.1 71	108 3.0 54	110 78 54	113 33.5 57	112 146 34	111 -33 16	84 1.9 39	110 -11.8 45	105 -6.9 27	113 41.9 51	112 19 50	109 34 39	98 0.63 52	98 0.00 49	115 1.64 48
HHB 240068 97616411 HHB 240068	1	VV 170002 JH 180097		97 68	117 71	91 55	93 34	108 39	114 56	105 22	111 49	109 40	98 1.28 73	98 0.02 49	107 26 34	117 24.2 71	91 -2.1 55	105 67 53	115 34.5 46	114 154 29	114 -36 10	102 11.3 33	99 -3.2 43	109 -7.7 24	111 40.7 50	113 20 36	110 35 34	109 1.54 41	108 1.28 39	122 2.19 38
HHB 240072 98032360 2472	2	HHB 210076 HHB 210069		86 62	109 64	107 41	102 27	105 34	108 49	105 28	105 45	108 38	90 1.97 67	94 0.15 41	96 15 27	109 19.4 64	107 3.0 41	115 92 44	117 36.6 54	119 175 36	116 -39 15	102 11.4 42	102 -5.8 39	102 -6.1 20	108 38.3 43	103 14 43	109 34 41	106 1.30 39	118 2.54 36	118 1.85 35
HHB 240074 98032386 2474	13	HHB 210079 HHB 210055		94 63	115 67	103 43	96 24	113 34	119 50	101 24	114 45	111 45	97 1.39 69	94 0.17 38	103 22 24	115 23.0 67	103 1.7 43	115 91 45	117 36.3 54	112 145 35	113 -35 8	109 15.3 41	99 -3.3 39	113 -8.5 21	121 47.2 42	107 16 42	106 31 40	111 1.65 47	128 3.83 43	144 3.96 42

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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																													
HHB 240075 98032394 2475	13	HHB 210076 HHB 210049	91 59	116 65	110 43	91 25	109 34	119 49	113 25	117 44	116 45	92 1.81 65	101 -0.11 37	108 27 25	116 23.6 65	110 3.7 43	119 101 44	115 34.9 54	127 209 34	123 -47 10	109 15.2 40	102 -5.1 39	110 -7.8 20	110 39.9 42	120 24 42	120 46 40	101 0.87 47	135 4.68 43	137 3.41 42
HHB 240076 98032402 2476	2	HHB 210076 HHB 220009	87 63	112 65	112 42	97 30	113 34	116 50	109 28	114 46	115 36	89 2.08 68	100 -0.08 41	101 20 30	112 21.2 65	112 4.5 42	121 105 46	117 36.2 50	122 190 36	118 -41 15	112 16.7 42	110 -12.1 39	107 -7.1 21	112 40.9 43	111 19 43	115 41 41	110 1.63 38	126 3.58 35	122 2.25 34
HHB 240077 98032410 2477	1	HHB 210079 HHB 180023	99 65	103 56	98 47	107 31	117 35	109 48	94 24	104 43	94 36	99 1.23 71	102 -0.13 42	92 11 31	103 16.3 56	98 0.1 47	104 63 45	106 27.5 44	102 102 34	103 -24 8	104 12.5 40	105 -7.8 38	119 -9.6 22	116 43.8 44	100 12 41	99 24 39	92 0.14 38	117 2.35 34	116 1.70 34
HHB 240079 98032436 2479	1	HHB 210076 HHB 210029	86 63	96 64	113 45	107 38	102 32	96 50	97 25	93 45	92 44	91 1.93 68	91 0.28 41	90 10 38	96 12.5 64	113 4.7 45	111 80 49	104 26.3 44	103 109 34	101 -21 11	92 6.2 40	103 -6.5 34	95 -4.7 19	109 39.0 43	105 15 41	103 27 39	93 0.22 47	121 2.93 42	116 1.70 41
HHB 240084 98032485 2484		HHB 210076 HHB 210027	93 61	113 61	105 41	92 32	102 27	111 47	111 22	109 42	110 42	96 1.46 67	94 0.16 38	108 26 32	113 21.9 61	105 2.2 41	113 85 45	116 35.9 49	119 176 31	111 -33 8	105 13.3 37	94 0.6 27	105 -6.9 16	106 37.2 38	117 22 38	113 38 36	102 0.93 45	122 3.04 40	122 2.25 39
HHB 240085 98032493 2485	3	VV 170002 JH 170056	97 69	98 71	121 56	101 29	114 42	110 56	93 28	105 50	93 44	98 1.26 74	98 0.01 51	96 15 29	98 13.6 71	121 7.1 56	117 95 52	100 22.8 60	103 108 33	106 -27 18	97 9.0 39	113 -14.5 48	103 -6.5 26	113 41.6 52	94 9 39	96 20 38	101 0.83 45	102 0.45 42	111 1.34 41
HHB 240097 98032618 2497	1	HHB 200064 HHB 200032	109 61	105 67	106 45	83 31	101 31	108 50	97 20	104 44	96 38	110 0.23 67	93 0.20 37	119 37 31	105 17.6 67	106 2.5 45	102 60 48	107 28.6 42	97 81 25	92 -11 11	86 2.8 30	102 -5.3 30	96 -4.9 18	107 37.9 44	107 16 30	104 29 28	98 0.60 40	103 0.59 36	101 0.49 35
HHB 240109 98032741 24109	13	HHB 200064 HHB 200060	118 65	104 67	94 46	96 36	95 35	104 52	98 24	101 46	88 40	121 -0.70 71	83 0.59 42	103 22 36	104 16.6 67	94 -1.1 46	97 46 50	109 30.3 50	100 95 30	95 -14 15	70 -5.8 34	94 0.9 37	89 -3.6 23	109 39.2 44	108 17 35	101 25 32	72 -1.56 42	98 -0.12 39	100 0.40 38
HHB 250014 98604622 2514	1	JH 180069 LL 150212	96 67	103 71	114 53	88 24	116 40	111 55	111 28	110 50	105 36	95 1.52 72	104 -0.22 45	111 30 24	103 16.6 71	114 5.1 53	110 79 49	109 30.3 48	114 154 32	112 -34 20	113 17.7 45	106 -8.4 42	117 -9.3 25	112 41.2 52	113 20 39	110 35 37	128 3.11 37	97 -0.17 34	88 -0.58 33
HHB 250034 98914245 2534	1	HHB 210079 HHB 220061	88 64	121 67	125 44	77 26	119 33	131 51	113 28	127 46	122 38	90 1.99 70	99 -0.04 40	125 43 26	121 26.2 67	125 8.3 44	129 124 46	122 40.4 46	124 198 38	118 -41 14	124 23.2 43	106 -8.6 38	117 -9.3 19	121 47.4 43	121 24 44	125 51 43	128 3.11 40	113 1.84 37	107 0.96 36
HHB 250039 98914278 2539	1	JH 220025 JH 180023	85 64	105 67	120 47	97 32	109 31	109 51			101 32	89 2.03 70	93 0.21 40	100 20 32	105 17.6 67	120 6.7 47	121 104 49	112 32.8 44	110 137 20	114 -36 14	112 17.2 28	104 -6.7 35	101 -6.0 16	118 45.0 42	105 15 31	106 31 30	117 2.14 34	92 -0.82 31	90 -0.40 30
HHB 250040 98914286 2540	13	HHB 210079 HHB 220014	93 63	124 67	118 44	83 26	117 33	134 50	112 24	130 45	120 40	97 1.41 70	92 0.25 37	117 35 26	124 27.9 67	118 6.1 44	129 124 46	126 43.1 44	124 196 35	120 -43 9	114 18.2 41	98 -2.1 39	121 -10.1 19	124 49.1 42	128 29 43	124 50 41	124 2.76 41	118 2.57 38	126 2.52 37

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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																														
HHB 250041 98914294 2541	1	JH 220025 HHB 210045	83 61	125 65	95 42	98 32	120 30	124 49			119 38	83 2.61 67	98 -0.01 37	101 21 32	125 28.2 65	95 -0.8 42	118 98 46		129 45.9 44	126 207 19	122 -45 13	129 26.1 27	108 -10.5 35	119 -9.8 15	118 45.0 40	120 24 31	121 47 29	116 2.09 40	106 0.92 36	102 0.57 35
HHB 250047 99022881 2547	1	HHB 210079 HHB 210016	100 64	111 67	116 45	92 32	106 32	118 51	106 26	115 46	107 46	103 0.88 70	92 0.23 40	107 26 32	111 20.6 67	116 5.5 45	120 102 48		110 31.1 43	114 157 35	112 -34 12	111 16.2 41	99 -3.0 32	103 -6.4 20	116 44.0 44	117 22 42	110 35 40	119 2.36 48	111 1.63 43	103 0.70 42
HHB 250059 6020137144 2559	1	HHB 210079 FR 150055	97 65	116 70	107 50	90 22	110 38	121 53	104 32	117 49	108 40	99 1.22 71	98 0.02 42	109 28 22	116 23.7 70	107 2.8 50	117 95 47		116 35.3 44	108 131 40	109 -30 20	112 17.0 46	98 -2.0 41	114 -8.7 27	113 41.8 47	111 19 46	110 35 45	112 1.76 42	119 2.70 38	116 1.69 37
HHB 250060 6020137151 2560	5	VV 200028 HHB 220021	84 65	124 67	101 45	87 25	105 35	117 51	108 26	115 46	111 32	86 2.33 71	102 -0.14 41	114 33 25	124 27.7 67	101 1.0 45	117 95 46		120 38.9 39	109 132 28	101 -21 19	103 11.8 32	91 3.0 37	109 -7.7 23	114 42.5 44	125 27 33	119 45 32	108 1.41 33	104 0.73 30	119 1.97 30
HHB 250062 6020137177 2562	1	HHB 200064 JH 190073	113 66	105 69	93 48	81 31	100 36	103 53	101 26	101 48	94 40	116 -0.31 72	85 0.52 43	123 42 31	105 17.4 69	93 -1.3 48	91 33 49		111 32.0 40	104 114 31	100 -19 20	77 -1.9 35	97 -1.7 36	94 -4.5 25	112 41.4 46	99 11 46	101 26 33	98 0.59 41	81 -2.20 38	88 -0.57 37
HHB 250064 6020137185 2564	1	VV 200028 HHB 220072	87 65	116 67	101 45	86 27	94 37	106 52	101 25	103 47	101 30	79 2.91 71	111 -0.50 41	115 34 27	116 23.6 67	101 1.1 45	110 78 46		113 32.8 43	94 70 28	83 0 19	107 14.1 32	81 11.0 41	101 -5.9 24	111 40.4 45	120 24 33	115 41 31	98 0.57 32	109 1.30 29	116 1.71 29
HHB 250065 6020137193 2565	13	HHB 210079 HHB 230004	104 63	107 67	108 44	102 26	119 33	120 50	97 24	114 45	102 40	104 0.73 70	97 0.03 37	95 15 26	107 18.4 67	108 3.2 44	115 90 46		112 32.7 47	108 128 35	110 -32 8	107 14.2 41	110 -11.8 39	116 -9.1 19	116 43.8 42	103 14 42	103 28 40	102 0.95 41	130 4.05 38	130 2.86 37
HHB 250067 6020137219 2567	1	VV 200028 HHB 220065	87 64	108 67	103 45	97 23	95 37	100 51	93 24	96 46	91 30	84 2.47 70	110 -0.47 40	102 21 23	108 19.1 67	103 1.6 45	109 75 45		104 26.4 42	86 36 27	76 8 19	99 10.1 31	83 9.9 41	103 -6.4 24	109 39.0 45	114 20 32	108 33 30	99 0.69 31	92 -0.83 28	105 0.80 27
HHB 250072 6020137490 2572	1	VV 200028 HHB 200019	94 66	123 68	104 49	84 30	101 38	120 53	112 26	117 48	113 38	93 1.70 71	107 -0.33 45	118 36 30	123 27.2 68	104 1.8 49	116 94 49		117 36.6 44	110 137 29	97 -16 21	102 11.6 33	88 5.8 41	107 -7.3 26	111 40.7 46	133 32 34	125 52 32	117 2.18 40	91 -0.92 37	106 0.94 36
HHB 250074 6020137508 2574	1	VV 170002 HHB 200034	87 67	123 69	114 54	77 36	114 42	126 55	110 27	122 49	115 51	92 1.78 72	89 0.37 49	126 44 36	123 27.3 69	114 5.0 54	121 106 53		127 44.2 53	121 185 36	118 -41 14	100 10.1 41	108 -10.4 48	108 -7.4 27	114 42.8 50	123 26 43	120 46 41	111 1.71 53	115 2.11 49	123 2.28 44
HHB 250077 6020137524 2577	1	HHB 210079 HHB 190014	107 65	107 68	102 49	94 34	111 36	114 53	99 26	110 48	99 40	109 0.38 71	93 0.18 42	106 25 34	107 18.7 68	102 1.3 49	106 68 50		111 31.5 47	107 125 35	106 -27 13	103 12.1 40	106 -8.8 39	106 -7.0 23	114 42.8 45	109 18 41	105 30 39	105 1.18 42	115 2.09 39	109 1.12 37
HHB 250079 6020137532 2579		VV 200028 FR 150013	93 66	114 57	90 51	93 16	101 40	105 49	104 30	103 45	104 28	90 1.94 71	113 -0.57 44	108 27 16	114 22.2 57	90 -2.4 51	101 56 41		108 29.1 36	100 96 32	98 -18 24	105 13.4 36	93 2.0 43	106 -7.1 30	106 36.9 48	114 21 37	108 33 35	103 1.01 29	97 -0.25 26	104 0.77 25

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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																													
HHB 250081 6020137557 2581	5	VV 200028 HHB 220041	86 65	121 67	106 44	90 19	99 36	115 51	107 25	113 46	112 30	87 2.21 71	102 -0.13 41	110 29 19	121 26.1 67	106 2.6 44	120 102 43	115 34.7 42	109 132 27	102 -23 19	111 16.1 31	87 6.8 41	108 -7.4 23	109 39.0 45	123 26 32	120 46 31	110 1.63 32	103 0.54 29	111 1.31 28
HHB 250092 6020138241 2592	1	HHB 220017 HHB 230007	94 62	114 64	94 41	104 26	122 31	119 48	106 20	115 42	108 28	94 1.60 69	103 -0.18 36	94 14 26	114 22.3 64	94 -1.1 41	109 77 44	114 34.2 40	114 153 23	116 -39 15	111 16.1 29	114 -15.3 36	116 -9.0 18	118 45.1 40	104 14 27	105 30 26	113 1.86 29	114 1.94 27	112 1.38 27
HHB 250093 6020138258 2593	1	HHB 210079 HHB 190032	99 66	117 68	115 49	83 37	118 36	128 53	108 27	124 48	112 40	103 0.89 71	90 0.31 44	118 36 37	117 24.1 68	115 5.4 49	120 104 51	121 39.7 47	117 169 37	113 -35 12	104 12.7 43	99 -3.3 40	121 -10.1 23	122 48.2 45	126 28 44	119 45 42	113 1.80 41	114 2.00 38	113 1.47 37
HHB 250094 6020138266 2594	1	VV 170002 HHB 210029	90 67	105 68	110 53	97 40	110 39	107 55	96 24	103 49	94 50	93 1.69 72	92 0.23 47	101 20 40	105 17.3 68	110 3.9 53	112 84 54	107 28.2 51	101 100 32	101 -21 12	97 9.0 36	108 -10.2 44	102 -6.2 24	113 41.6 50	107 16 38	105 30 37	102 0.92 52	107 1.15 48	113 1.46 47
HHB 250095 6020138274 2595	1	HHB 220017 FR 170115	91 64	120 67	82 47	100 27	112 34	114 51	111 25	112 46	106 28	90 1.95 70	108 -0.39 42	100 19 27	120 25.4 67	82 -4.8 47	103 61 47	119 37.5 34	116 163 26	116 -39 22	107 14.4 31	104 -6.8 34	111 -8.0 23	113 42.1 44	100 12 29	106 31 28	117 2.21 29	79 -2.46 27	90 -0.42 27
HHB 250096 6020138282 2596	1	VV 170002 HHB 150001	82 70	107 70	111 55	96 27	111 40	107 56	95 24	102 50	99 42	90 1.96 74	79 0.73 53	102 21 27	107 18.5 70	111 4.0 55	114 89 51	110 30.8 49	106 122 32	107 -28 14	98 9.1 35	109 -11.3 44	109 -7.6 24	106 36.9 53	100 12 38	101 26 36	99 0.72 43	116 2.23 40	128 2.67 39
HHB 250097 6020138290 2597		HHB 190021 JH 160084	97 68	112 70	92 50	98 32	107 34	109 54	99 23	106 48	106 39	99 1.20 73	94 0.16 46	102 21 32	112 21.3 70	92 -1.7 50	104 63 51	113 32.9 48	102 102 23	103 -23 20	103 12.1 40	94 1.1 33	117 -9.4 22	105 36.6 48	88 5 43	98 23 26	102 0.93 41	106 0.98 37	107 0.99 36
HHB 250139 6020137250 25139	1	HHB 210079 HHB 160011	96 66	109 55	99 49	109 33	103 36	109 48	102 26	106 44	103 39	97 1.38 72	99 -0.05 44	89 9 33	109 19.6 55	99 0.5 49	112 83 46	112 32.4 44	109 132 36	107 -28 11	114 17.9 41	89 4.8 38	111 -8.0 23	111 40.2 46	105 15 42	105 29 41	92 0.12 41	133 4.46 37	123 2.29 36
CJ 260006 6020447329 CJ260006	2	VV 200169 CJ 130005	80 67	107 45	112 43	97 16	94 36	99 43	108 22	98 39	106 20	85 2.45 72	89 0.35 48	101 20 16	107 18.5 45	112 4.4 43	116 93 35	108 29.4 23	113 149 21	112 -34 20	113 17.5 25	103 -5.9 37	87 -3.1 25	98 31.3 47	95 9 25	103 27 24	103 1.02 21	97 -0.24 19	92 -0.20 18
CJ 260010 6020447352 CJ260010	1	VV 200169 CJ 170006	89 67	112 46	106 43	88 18	106 38	110 44			111 20	90 1.97 72	102 -0.15 47	112 31 18	112 21.2 46	106 2.6 43	111 81 36	110 30.7 24	114 154 22	110 -32 12	117 19.6 25	103 -6.1 42	103 -6.5 26	107 38.0 47	106 16 25	109 34 24	111 1.67 21	98 -0.09 19	96 0.09 19
CJ 260016 6020634066 CJ260016	3	VV 200169 CJ 170008	94 57	111 44	101 37	94 16	100 38	107 40			106 15	94 1.60 60	103 -0.20 46	105 24 16	111 20.6 44	101 0.9 37	108 74 32	109 30.1 22	107 125 17	104 -24 12	110 15.8 19	90 4.1 42	103 -6.3 26	113 41.7 47	101 13 19	105 30 18	108 1.40 16	102 0.45 14	98 0.25 14
HHB 260005 6020248305 2605		HHB 200064 HHB 170016	114 67	102 55	90 49	99 36	100 36	102 49	96 23	99 44	96 32	116 -0.24 72	91 0.27 45	100 20 36	102 15.6 55	90 -2.2 49	93 37 47	105 26.8 38	98 88 29	95 -14 14	86 2.8 34	96 -0.3 39	99 -5.6 24	108 38.4 46	102 13 34	100 25 32	76 -1.18 33	124 3.25 30	115 1.66 29

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ID Number Name																															
HHB 260006 6020248313 2606	1	VV 170002 HHB 170011		94 70	110 58	103 55	106 39	119 43	117 52	101 26	113 47	106 46	96 1.50 74	97 0.04 52	92 12 39	110 20.2 58	103 1.6 55	114 89 51	112 32.4 52	108 130 35	110 -31 12	109 15.4 40	111 -12.5 49	118 -9.5 28	111 40.5 51	100 12 42	102 27 40	94 0.28 48	135 4.73 45	144 3.96 44	
HHB 260009 6020248347 2609	1	HHB 220017 HHB 190016		103 64	103 51	100 44	107 33	107 32	107 45	101 20	104 40	102 26	104 0.73 70	96 0.07 42	91 11 33	103 16.3 51	100 0.6 44	105 67 43	103 25.3 41	106 121 22	106 -26 17	108 14.7 28	104 -6.7 36	100 -5.9 19	114 42.2 41	103 14 25	102 27 24	115 1.99 27	103 0.55 25	97 0.16 23	
HHB 260011 6020251523 2611	1	VV 170002 JH 160032		82 70	117 60	118 56	103 36	116 44	124 53	105 30	120 48	109 48	86 2.36 74	96 0.09 52	94 14 36	117 23.8 60	118 6.2 56	133 134 51	116 35.7 53	116 165 35	112 -34 21	100 10.6 42	107 -9.0 49	116 -9.1 30	114 42.6 52	114 21 43	114 39 40	115 1.99 49	101 0.30 46	119 1.94 45	
HHB 260012 6020251531 2612	1	VV 170002 JH 220008		90 67	115 60	108 49	89 30	130 39	125 51	108 23	121 45	111 40	94 1.65 73	93 0.18 45	111 30 30	115 22.9 60	108 3.2 49	116 93 46	118 37.1 54	117 169 29	118 -41 13	110 15.8 36	120 -20.0 47	127 -11.3 24	114 42.8 47	110 18 36	111 37 34	117 2.14 42	107 1.05 39	121 2.11 39	
HHB 260014 6020251549 2614		VV 170002 HHB 190010		96 68	104 60	104 54	107 41	113 42	110 53	96 27	105 48	98 44	98 1.31 73	98 0.02 50	91 11 41	104 17.0 60	104 1.8 54	110 79 52	106 28.0 54	106 120 32	109 -30 18	97 8.9 36	109 -11.4 49	108 -7.5 27	111 40.5 51	99 12 38	101 25 37	97 0.55 45	115 2.14 42	122 2.23 42	
HHB 260018 6020248388 2618	1	HHB 220017 HHB 230020		96 63	115 51	107 38	89 28	116 31	121 43	115 24	119 39	114 27	95 1.58 69	107 -0.35 37	111 30 28	115 22.9 51	107 2.9 38	115 90 39	117 36.1 38	121 183 26	118 -41 19	109 15.3 31	104 -7.0 37	113 -8.4 19	121 47.5 38	108 17 29	113 38 28	125 2.81 28	99 0.10 26	87 -0.66 25	
HHB 260019 6020248396 2619		VV 170002 HHB 120005		97 70	103 59	104 57	102 31	118 42	110 52	90 22	104 46	99 44	99 1.22 74	95 0.12 54	96 16 31	103 16.2 59	104 2.0 57	107 71 49	101 24.1 52	102 102 29	103 -23 11	99 9.7 34	111 -12.8 46	115 -8.8 27	113 41.6 52	97 10 36	99 24 34	103 1.01 46	113 1.83 43	131 2.93 42	
HHB 260020 6020248404 2620	1	VV 170002 HHB 200063		100 67	112 60	111 52	87 36	112 41	119 52	103 26	115 47	105 50	103 0.86 72	92 0.24 49	113 32 36	112 21.0 60	111 4.0 52	114 88 49	112 32.1 54	115 160 34	115 -37 14	92 6.1 39	104 -6.7 48	109 -7.7 25	115 43.3 49	115 21 41	112 38 39	99 0.70 52	108 1.18 49	127 2.63 48	
HHB 260021 6020251556 2621		VV 170002 HHB 210027		102 66	107 54	108 49	92 35	110 35	113 48	99 20	109 42	99 48	104 0.76 71	92 0.23 45	108 27 35	107 18.4 54	108 3.1 49	109 77 46	107 28.7 50	107 125 28	105 -26 9	101 10.8 32	104 -7.1 39	109 -7.6 22	110 39.6 45	107 16 34	103 28 33	99 0.66 50	107 1.14 46	117 1.77 45	
HHB 260029 6020338494 2629	1	VV 170002 HHB 210026		101 67	112 60	95 51	100 36	104 41	112 52	104 26	109 47	105 50	105 0.67 72	88 0.41 49	99 18 36	112 21.2 60	95 -0.7 51	107 72 49	117 36.7 54	115 157 34	115 -38 14	92 6.2 38	99 -2.7 48	104 -6.6 25	108 38.7 49	110 18 41	107 32 39	86 -0.42 52	132 4.27 49	133 3.08 48	
HHB 260031 6020338510 2631	1	VV 170002 HHB 190007		96 67	105 60	106 53	101 39	108 42	109 52	98 24	105 46	102 46	101 0.99 71	85 0.50 49	97 16 39	105 17.4 60	106 2.7 53	111 80 51	108 29.3 56	109 134 31	112 -34 14	98 9.4 35	113 -14.0 48	92 -4.2 27	114 42.7 50	107 17 38	104 29 36	107 1.35 47	110 1.53 44	117 1.78 43	
HHB 260035 6020338551 2635	1	VV 170002 HHB 190009		97 67	105 60	97 53	105 40	107 41	105 52	95 24	101 46	98 46	101 1.01 72	87 0.42 48	93 13 40	105 17.4 60	97 -0.1 53	104 64 51	107 28.4 56	106 121 31	108 -30 14	94 7.0 35	110 -12.2 48	95 -4.7 27	111 40.4 49	102 13 37	99 24 36	101 0.86 47	114 2.00 44	117 1.77 43	

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ID Number Name																													
HHB 260036 6020338569 2636	1	HHB 220017 HHB 140013	104 67	104 50	90 47	106 27	121 35	111 46	97 22	106 41	95 26	99 1.19 72	116 -0.67 46	93 13 27	104 16.7 50	90 -2.3 47	97 48 41	102 24.7 35	100 95 26	106 -27 16	109 15.1 32	113 -14.5 38	117 -9.2 24	115 43.3 44	94 8 30	96 21 29	108 1.42 27	108 1.18 25	97 0.18 24
HHB 260038 6020621428 2638	1	VV 200028 HHB 210077	88 66	114 57	110 45	85 24	108 37	113 48	102 28	110 44	107 30	85 2.41 71	114 -0.61 44	115 34 24	114 22.3 57	110 3.8 45	115 90 42	107 28.7 43	103 106 29	94 -13 22	109 15.5 33	99 -3.2 42	108 -7.5 25	112 41.0 45	114 21 34	116 42 32	109 1.54 31	100 0.14 28	101 0.51 27
HHB 260043 6020621477 2643	1	VV 170002 HHB 160003	89 70	110 60	97 57	105 38	112 44	109 54	100 24	106 48	105 47	93 1.69 74	91 0.26 53	94 13 38	110 20.2 60	97 -0.3 57	108 75 52	116 35.4 54	111 141 34	113 -35 12	102 11.2 38	102 -5.8 51	111 -8.1 28	116 43.8 52	100 12 40	102 26 39	87 -0.34 49	133 4.47 45	139 3.59 45
HHB 260046 6020621493 2646	1	VV 170002 HHB 200023	100 67	105 60	94 52	119 36	106 41	107 52	95 26	102 47	95 50	104 0.76 72	86 0.47 48	81 2 36	105 17.2 60	94 -1.0 52	106 70 49	106 28.1 54	106 122 32	112 -34 16	91 5.4 36	111 -12.8 47	92 -4.1 27	109 39.4 48	100 12 38	97 22 37	89 -0.11 52	110 1.47 48	121 2.12 41
HHB 260047 6020621501 2647	1	VV 170002 HHB 210045	85 65	119 60	107 51	101 36	124 39	126 51	110 23	123 45	113 49	89 2.07 70	93 0.20 47	96 16 36	119 25.2 60	107 2.9 51	125 115 49	124 41.7 54	122 190 30	121 -45 12	116 19.3 35	117 -17.3 47	119 -9.6 22	115 43.3 48	114 20 37	114 40 35	100 0.73 51	120 2.79 47	128 2.69 47
HHB 260048 6020621519 2648		VV 170002 SP 150033	93 69	116 62	108 57	92 30	111 42	119 53	96 24	113 47	108 44	95 1.57 73	97 0.04 52	107 26 30	116 23.3 62	108 3.0 57	117 97 50	114 33.9 51	107 127 32	116 -39 13	101 10.7 36	108 -10.3 46	106 -7.1 29	109 39.2 52	92 7 41	103 27 37	112 1.72 46	99 0.08 43	128 2.70 42
HHB 260049 6020621527 2649	5	VV 200028 HHB 210053	95 64	113 57	100 44	98 25	100 37	110 47	101 25	106 43	103 38	93 1.69 70	109 -0.43 42	101 20 25	113 21.6 57	100 0.6 44	111 81 42	107 28.9 43	102 103 27	96 -15 20	104 12.8 31	90 4.0 41	103 -6.4 25	112 41.0 44	117 22 32	113 38 30	106 1.25 40	104 0.69 36	112 1.40 35
HHB 260199 6020621394 26199	1	VV 200028 LL 150212	96 66	108 59	116 51	90 14	101 39	111 49	104 27	108 45	103 30	94 1.61 71	107 -0.35 44	108 27 14	108 19.3 59	116 5.6 51	117 96 41	107 28.6 35	101 101 30	92 -11 19	107 14.0 35	85 7.7 41	112 -8.2 28	110 39.8 47	123 26 36	115 41 34	112 1.73 31	97 -0.24 28	105 0.85 27
HHB 260201 6020621410 26201	1	VV 200028 HHB 220061	87 66	115 57	114 44	83 24	109 36	117 48	106 28	113 44	111 30	85 2.37 71	110 -0.47 44	118 36 24	115 23.1 57	114 5.1 44	118 99 42	112 32.2 42	108 127 30	98 -18 22	112 16.9 34	101 -4.3 40	110 -7.8 23	112 41.5 44	118 23 35	120 46 34	114 1.93 31	97 -0.23 28	96 0.11 27

Selection List on Cow Value

Bulls 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								
												★★★★★★															
1	HHB 210079	2179	VV 170002	LL 150212	0.8	HH	0	0	0	🧬	97	90	120	92	123	86	82	82	117	84	133	83	112	84	129	83	
											★★★★★★☆																
1	HHB 220017	HHB2217	JH 180069	FR 170003	0.9	HH	1	0	0	🧬	100	87	119	86	90	81	95	79	122	80	124	78	122	78	123	78	
2	HHB 240046	HHB240046	JH 180069	HHB 200034	1.2	HH	0	0	0	🧬	88	85	124	85	103	82	67	80	120	81	124	78	122	82	123	79	
3	HHB 240114	24114	HHB 190021	HHB 190032	0.3	PcH	0	0	0	🧬	101	86	114	86	104	83	91	81	117	82	122	79	110	80	119	79	
4	VV 170002	VV170002	VV 130121	VV 090163	1.1	HH	0	0	0	🧬	95	97	114	97	112	93	94	91	126	93	127	89	102	91	122	89	
											★★★★★★																
1	HH 240001	HH 240001	SP 140020	SP 180029	0.2	HH	1	0	0	🧬	81	83	110	84	106	83	98	80	120	82	112	78	116	80	111	78	
2	HHB 190021	HHB1921	JH 170046	JH 170001	0.4	HH	0	0	0	🧬	90	94	113	94	100	89	102	87	115	88	115	86	112	88	113	86	
3	HHB 200064	HHB2064	JH 160047	LL 160124	0.5	HH	0	0	0	🧬	128	91	104	91	100	85	88	82	95	83	111	82	100	82	107	82	
4	HHB 240078	2478	HHB 210079	HHB 210067	13.1						104	62	104	67	106	43	93	24	117	34	113	50	94	24	108	45	
5	LL 220208	LL220208	LL 170313	LL 150050	0.6						96	30	111	70	102	52	89	17	108	39	111	46					
6	VV 200028	VV200028	VV 100040	VV 170015	4.8	HH	1	0	0	🧬	91	93	121	93	97	88	88	84	97	86	112	85	107	86	110	85	
											★★★★★★☆																
1	HHB 220031	HHB2231	VV 170002	HHB 120010	0.7	HH	0	0	0	🧬	96	87	105	87	89	85	103	81	116	83	106	80	93	81	101	80	
2	HHB 220032	HHB2232	VV 170002	HHB 170017	0.7	PcH	0	0	0	🧬	96	85	112	85	71	82	106	80	108	81	102	78	97	79	99	78	
3	HHB 230014	SANBOD2314	VV 170002	LL 160124	0.3	HH	0	0	0	🧬	97	86	105	87	101	84	91	81	107	83	104	80	95	80	100	80	
4	HHB 230058	HHB 230058	HHB 200006	FR 150055	0.9	HH	0	0	0	🧬	108	84	94	85	97	80	113	78	116	79	104	77	88	80	98	78	
5	HHB 240035	2435	JH 180069	LL 160124	0.5						98	67	108	71	96	53	86	25	108	39	106	55	111	26	105	49	
6	HHB 240054	HHB240054	JH 180069	J 180086	0.5						93	66	108	71	95	52	85	36	114	38	106	55	118	25	107	49	
7	HHB 240064	2464	JH 180069	HHB 200036	1.1						94	67	106	69	95	50	88	38	110	38	103	54	110	28	102	49	
8	HHB 240066	2466	JH 180069	HHB 130001	0.2						101	69	91	70	102	53	95	32	125	40	100	55	93	26	96	49	
9	HHB 240067	2467	JH 180069	HHB 110010	0.8						105	69	95	70	106	53	87	28	121	37	104	55	101	28	101	50	
											★★★★																

★★★

Selection List on Cow Value

Bulls 2 years and older

ID Name Sorted on ID		Sire ID	Dam ID	% Inbreeding	Homed / 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	HHB 230042	2342	HHB 190021	HHB 170001	0.4	HH	0	0	0		9986	9286	9783	11981	10781	9579	9480	9279	

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	HG 180036	HG180036	SS 130031	HG 140039	0.5					8678	12975	10278	8769	11651	13067	13146	13063	
2	HHB 210045	2145	HHB 180009	LL 170083	0.4					8363	12672	10265	10958	12243	13159	11924	12952	
3	HHB 230104	HHB 230104	KVS 150194	JH 160032	0.6	HH	1	0	0	8887	13387	12584	8581	11882	14480	12881	14380	
										★★★★★								
1	CJ 170006	CJ1706	ER 100015	CJ 090001	0.7	HH	0	0	0	10789	10983	11084	8680	11483	12079	11380	11879	
2	CJ 180024	CJ1824	JH 140101	CJ 150010	1.8	HH	0	0	0	10588	12086	9586	10182	10284	12180	11881	12080	
3	HHB 190032	TESS	JH 160047	HHB 100013	0.3	PcH	0	0	0	9689	11388	11088	8386	11884	12082	10581	11682	
4	HHB 200034	UDELIA	JH 160047	HHB 060014	1.0					8375	12473	11871	6458	10253	12064	11336	11858	
5	HHB 220014	HHB2214	VV 170002	HHB 190032	0.8					9370	11771	11762	9047	11847	12759	10626	12352	
6	HHB 220021	HHB2221	VV 170002	HHB 190025	0.9					9070	11871	10661	8847	11243	12059	10427	11653	
7	HHB 220061	SANBOD2261	KVS 150194	HHB 110010	0.6					8674	10971	13263	7845	12147	12160	10536	11755	
8	HHB 230035	2335	HHB 190021	HHB 200019	0.3	HH	0	0	0	9685	11485	11181	9179	11480	12278	11278	11978	
9	HHB 230040	2340	KVS 150194	HHB 190020	1.6	HH	1	0	0	10785	11585	11582	7279	11180	12478	11279	12278	
10	HHB 230056	HHB 230056	20164169	JH 180051	0.0	HH	0	0	0	10182	11783	8478	8776	14676	12875	10774	12475	
11	HHB 240007	2407	VV 170002	HHB 190032	0.8	PcH	0	0	0	9886	11587	11984	8982	11983	12880	10780	12480	
12	HHB 240030	HHB 240030	VV 170002	JH 170001	2.2	HH	1	0	0	10086	11687	10083	10281	12882	12979	11081	12579	
13	JH 160032	JH1632	VV 080131	JC 070025	0.3	HH	1	0	0	8589	11987	12488	11283	10784	12881	10882	12481	
14	JH 170001	TJOKLITS	DT 060316	ER 070002	1.1					10478	11077	9576	12546	11851	12166	11044	11962	
15	JH 180098	1898	SP 140020	SP 150091	0.4					9475	11177	10478	9759	13252	12366	10038	11860	
16	JH 220008	228	JH 190022	JH 180020	0.4					8669	11671	10459	8443	13445	12358	11422	12151	
17	VV 200120	VV200120	VV 130121	VV 150165	4.0	HH	0	0	0	10188	11588	13086	6882	11784	12981	12181	12781	
										★★★★								
1	CJ 170008	CJ1708	ER 100015	ER 110020	0.6	HH	0	0	0	9888	11481	10081	9778	10382	11477	9978	11077	
2	FR 150055	15 55	JR 060002	FR 100022	0.3					10769	11177	8980	9536	10360	11065	10246	10761	
3	FR 150071	15 71	SP 100007	FR 120033	0.0					8167	10876	10079	9129	13157	11163	11232	10957	
4	FR 170003	IMMEUL	JO 080028	FR 120015	1.1					11171	10576	10079	13948	9954	11565	10640	11260	
5	HHB 190020	TULA	JH 160047	HHB 110010	0.5					10376	10874	11475	7357	11045	11464	10334	11058	
6	HHB 200019	ULMA	JH 160047	HHB 120005	0.0					10675	10773	11773	8858	10551	11664	10231	11257	

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									
												★★★★★																
7	HHB 200063	ULANI	JH 160047	HHB 130001	0.0							108	75	108	72	109	69	80	59	98	50	110	63	105	33	107	57	
8	HHB 210038	2138	JH 160047	HHB 170011	0.5							102	75	112	71	100	63	97	54	101	46	113	61	108	34	111	56	
9	HHB 210077	2177	KVS 150194	HHB 130001	0.0							93	74	104	71	122	63	83	45	118	51	114	61	96	34	109	56	
10	HHB 220009	HHB2209	KVS 150194	HHB 080026	1.3							90	74	107	71	116	62	93	46	117	51	115	61	100	36	110	56	
11	HHB 220028	HHB2228	VV 170002	FR 150071	0.3							93	69	105	73	103	63	100	33	133	48	117	59	99	26	112	52	
12	HHB 220030	HHB2230	VV 170002	FR 170115	0.9							94	69	111	72	91	62	104	39	120	47	113	59	96	28	108	53	
13	HHB 220036	SANBOD2236	VV 170002	HHB 190016	0.8							104	70	101	71	109	61	107	42	114	46	112	59	92	24	107	52	
14	HHB 220041	SANBOD2241	VV 170002	HHB 100012	0.4							80	71	118	70	117	61	93	31	102	47	116	58	106	24	113	51	
15	HHB 220043	SANBOD2243	VV 170002	J 150038	0.5							93	68	113	71	110	61	94	31	114	46	119	58	110	23	116	51	
16	HHB 220071	SANBOD2271	HHB 180009	HHB 130001	3.2							86	70	117	70	104	60	84	44	119	46	118	58	111	21	115	51	
17	HHB 220085	SANBOD2285	KVS 150194	LL 150212	0.6							99	70	106	73	127	63	83	40	108	45	116	59	111	35	114	54	
18	HHB 230004	SANBOD2304	VV 170002	HHB 170008	0.5	HH	1	0	0			102	85	108	85	89	83	113	81	120	81	114	78	99	78	110	78	
19	HHB 230007	SANBOD2307	VV 170002	HHB 150011	0.6							97	71	112	71	94	61	107	39	121	47	119	59	100	25	114	52	
20	HHB 230018	HHB 230018	JH 180069	JH 180023	1.5	HH	0	0	0			81	84	102	85	126	81	93	78	121	79	111	77	107	78	109	77	
21	HHB 230020	2320	KVS 150194	HHB 190032	1.5	PcH	1	0	0			94	86	110	86	124	84	83	81	110	83	118	79	108	81	115	79	
22	HHB 230029	HHB 230029	JH 180069	JH 170050	1.1	HH	1	0	0			92	85	108	85	109	82	75	79	121	80	113	78	117	78	112	78	
23	HHB 230037	2337	HHB 190021	HHB 090023	0.1	HH	0	0	0			95	87	109	86	89	83	99	80	121	81	111	79	99	80	107	79	
24	HHB 230046	2346	HHB 190021	HHB 200034	0.4	HH	0	0	0			86	84	115	85	108	80	87	79	112	79	114	77	106	78	112	77	
25	HHB 230057	2357	VV 170002	HHB 140013	0.5	HH	0	0	0			101	87	98	87	112	84	110	81	121	83	113	80	81	80	105	80	
26	HHB 230078	2378	IGB 200022	IGB 210037	1.2	HH	1	0	0			82	83	108	82	117	78	93	77	116	77	112	75	106	76	109	75	
27	HHB 240014	2414	VV 170002	HHB 190011	0.6							105	68	108	69	103	53	103	34	109	41	115	55	97	24	110	49	
28	HHB 240062	HHB 240062	VV 200028	FR 150055	2.3							105	66	117	70	92	52	92	20	100	41	114	54	104	32	111	50	
29	HHB 240063	HHB 240063	VV 170002	JH 180100	1.8							89	68	110	71	108	54	87	36	113	41	111	56	101	27	107	50	
30	HHB 240068	HHB 240068	VV 170002	JH 180097	0.8							97	68	117	71	91	55	93	34	108	39	114	56	105	22	111	49	
31	HHB 240074	2474	HHB 210079	HHB 210055	13.1							94	63	115	67	103	43	96	24	113	34	119	50	101	24	114	45	
32	HHB 240075	2475	HHB 210076	HHB 210049	13.2							91	59	116	65	110	43	91	25	109	34	119	49	113	25	117	44	
33	HHB 240076	2476	HHB 210076	HHB 220009	2.1							87	63	112	65	112	42	97	30	113	34	116	50	109	28	114	46	
34	HHB 240084	2484	HHB 210076	HHB 210027	0.3							93	61	113	61	105	41	92	32	102	27	111	47	111	22	109	42	
35	HHB 240085	2485	VV 170002	JH 170056	3.4							97	69	98	71	121	56	101	29	114	42	110	56	93	28	105	50	
36	IGB 210037	IGB210037	KVS 160043	JH 180001	13.1							88	71	110	61	106	64	100	51	119	43	114	56	114	36	113	52	
37	JH 170050	1750	LL 140017	JH 120022	0.6							105	77	100	75	119	77	77	43	115	50	111	64	108	33	109	58	
38	JH 180020	1820	J 140019	LL 120187	1.7							93	72	110	75	92	75	96	49	119	49	111	63					

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	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	
										★★★★				
39	JH 190029	1929	SS 130048	JH 130090	2.4		95 76	101 75	100 76	96 63	138 52	113 66	107 40	111 61
40	JH 220036	2236	SP 160058	JH 160032	0.4		86 70	129 71	95 62	91 43	95 43	117 58	121 36	118 54
41	LL 150212	LL150212	LL 120127	LL 110124	0.6	HH 0 0 0	103 85	95 88	135 88	93 78	105 82	110 80	101 80	106 80
42	LL 150302	LL150302	SP 110067	LL 080058	0.3		85 60	121 79	102 82	97 22	99 57	114 63	107 26	112 56
43	SP 150033	GLENAFTON	DJW 100077	SP 050047	0.4	HH 0 0 0	97 86	115 88	102 89	90 80	96 82	111 80	91 78	105 80
44	SP 150046	GENEVA	SP 110037	SP 080022	4.0	HH 0 0 0	84 86	120 86	95 88	90 80	119 81	118 79	110 80	115 79
											★★★★☆			
1	CJ 160008	CJ1608	ER 100015	CJ 080006	0.5	HH 0 0 0	79 88	120 82	96 83	93 78	87 82	102 78	112 78	102 78
2	CJ 200030	CALLA	CJ 160015	CJ 170006	13.5	HH 0 0 0	108 86	106 81	102 82	100 80	98 81	109 77	100 78	105 77
3	CJ 230021	LEVI	LL 170304	CJ 190010	1.2		88 67	114 57	94 42	102 19	104 39	108 48	110 24	107 43
4	CJ 230022	AMALIA	LL 170304	CJ 170008	0.5		87 68	116 52	100 39	95 14	97 41	109 46		
5	HHB 110010	LILLY 11/10	HHB 080008	JP 040024	0.1		107 83	90 67	115 80	88 36	114 48	101 62	86 33	96 56
6	HHB 170011	RIENIE 17/11	KSS 100022	HHB 140013	0.3		97 79	104 67	93 76	120 61	112 56	108 64	101 34	105 58
7	HHB 190015	TANYA	JH 150098	HHB 140004	1.0		119 75	97 73	92 72	116 49	96 51	101 63	98 27	98 56
8	HHB 190025	TANI	JH 160047	HHB 160003	0.9		98 76	117 74	93 73	81 65	98 53	109 65	111 37	108 59
9	HHB 200032	UDELL	LL 150251	J 150021	0.8		92 49	101 71	113 65	80 46	108 38	102 54		
10	HHB 210019	2119	BR 160002	J 180086	0.1		87 71	110 71	117 61	91 45	96 49	108 60	120 21	108 52
11	HHB 210053	2153	VV 170002	HHB 190010	0.4		98 66	105 71	103 62	110 47	102 49	107 59	95 27	103 53
12	HHB 210055	2155	VV 170002	HHB 180027	0.5		98 65	108 71	83 62	109 43	109 50	106 59	93 24	101 52
13	HHB 210064	2164	KVS 150194	HHB 160011	1.3		91 66	106 71	112 62	113 49	97 50	107 59	102 34	104 54
14	HHB 210069	2169	KVS 150194	HHB 130011	1.8		92 66	107 70	101 59	97 42	100 50	102 58	100 35	99 53
15	HHB 220045	SANBOD2245	KVS 150194	HHB 140013	0.7	HH 1 0 0	102 87	101 87	102 85	95 82	108 83	104 80	97 81	100 80
16	HHB 220065	SANBOD2265	JC 150146	LL 150302	1.0		86 68	112 72	102 64	94 41	91 48	101 59	95 24	97 52
17	HHB 220082	SANBOD2282	KVS 150194	HHB 160014	1.2		99 72	109 71	100 62	95 48	103 45	108 60	106 34	106 55
18	HHB 230008	SANBOD2308	KVS 150194	OLG 170007	1.2	HH 0 0 0	99 85	106 85	117 81	89 79	96 81	108 78	107 78	106 78
19	HHB 230011	SANBOD2311	HHB 180009	LL 170151	0.4	HH 0 0 0	84 82	121 83	85 78	91 76	98 78	106 75	116 74	106 75
20	HHB 230016	SANBOD2316	VV 170002	HHB 170018	0.5	HH 0 0 0	101 85	104 85	100 81	109 79	103 81	106 78	94 78	102 78
21	HHB 230045	2345	HHB 190021	HHB 140008	0.3	HH 0 0 0	97 85	99 84	81 80	111 78	128 79	103 77	90 78	98 77
22	HHB 230050	2350	VV 170002	HHB 200022	1.2	HH 1 0 0	86 85	116 86	95 82	106 80	96 81	107 78	98 80	103 78
23	HHB 230053	HHB 230053	SP 160058	JH 180020	1.0	HH 1 0 0	84 84	114 85	77 80	94 77	108 79	100 77	106 78	98 77

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									
												★★★★☆																
24	HHB 230065	2365		HHB 200006	HHB 110010	2.0	HH	0	0	0	6.4	106	84	85	84	122	80	106	77	113	78	101	77	83	77	95	77	
25	HHB 230083	2383		HHB 190021	HHB 210027	0.9	HH	1	0	0	6.4	89	84	112	84	92	80	90	79	111	79	107	77	109	78	105	77	
26	HHB 230114	23114		HHB 190021	HHB 190029	0.4						99	65	110	68	93	47	96	34	104	36	107	53	106	27	105	48	
27	HHB 230127	HHB 230127		JC 150146	FR 120073	0.7	HH	0	0	0	6.4	85	83	113	83	114	80	81	76	87	78	103	76	107	76	101	76	
28	HHB 240015	2415		VV 170002	HHB 160011	0.9						97	69	106	70	93	56	121	37	107	42	108	57	95	24	104	50	
29	HHB 240018	2418		HHB 200033	HHB 190013	0.7						97	63	113	65	81	47	116	34	88	34	101	51	108	24	100	46	
30	HHB 240024	HHB 240024		KVS 150194	JH 160068	0.6						86	70	107	71	112	55	91	39	98	44	103	57	100	36	100	53	
31	HHB 240033	2433		JH 180069	HHB 190020	0.9	HH	1	0	0	6.4	89	85	105	85	102	81	83	79	122	80	107	78	111	78	106	78	
32	HHB 240057	HHB240057		JH 180069	HHB 200046	0.9						97	67	105	69	94	51	89	37	112	39	103	55	106	28	102	50	
33	HHB 240072	2472		HHB 210076	HHB 210069	2.5						86	62	109	64	107	41	102	27	105	34	108	49	105	28	105	45	
34	HHB 240077	2477		HHB 210079	HHB 180023	0.7						99	65	103	56	98	47	107	31	117	35	109	48	94	24	104	43	
35	HHB 240097	2497		HHB 200064	HHB 200032	1.1						109	61	105	67	106	45	83	31	101	31	108	50	97	20	104	44	
36	HHB 240109	24109		HHB 200064	HHB 200060	13.2						118	65	104	67	94	46	96	36	95	35	104	52	98	24	101	46	
37	J 150038	J150038		LL 110167	J 090046	0.7						89	58	105	67	118	73	93	22	93	51	102	56	111	25	102	50	
38	JH 160084	JH1684		KVS 110137	JC 130190	1.1						112	78	103	77	86	80	96	56	99	50	100	67					
39	JH 170056	1756		VV 120161	JH 100083	2.5						100	78	102	76	120	77	88	42	100	54	108	66	105	36	105	60	
40	JH 180023	1823		JH 140084	JH 120079	0.6						80	75	98	75	147	75	97	57	98	45	106	64	91	26	100	56	
41	JH 190010	1910		SS 130048	JC 140069	0.8						95	73	105	74	83	74	110	59	118	47	104	63	114	39	104	58	
42	JH 220002	222		JH 170053	HG 180036	0.8						88	72	107	72	83	66	111	59	116	45	103	61	113	42	103	57	
43	JH 220007	227		JH 170053	JH 190029	1.6						89	72	113	71	80	60	96	51	116	46	106	60	118	42	106	56	
44	JH 220017	2217		JH 180069	SP 150033	0.9						92	72	105	72	101	61	94	29	119	47	108	59	95	26	104	52	
45	LL 160124	LL160124		LL 110153	LL 110046	3.0	HH	1	0	0	6.4	95	87	112	88	97	88	86	80	89	83	101	81	103	80	99	81	
												★★★★																
1	CJ 130005	13 05		ER 070040	CJ 090001	1.4	HH	0	0	0	6.4	81	87	101	79	123	81	105	75	91	79	98	75	105	76	96	75	
2	FR 170115	KIMI		SP 110076	FR 120042	0.6						91	69	112	75	75	77	106	42	102	53	99	63	101	40	97	58	
3	HHB 120005	MARYN 12/05		JC 020058	HHB 020009	0.0						105	83	89	70	96	81	110	45	110	53	93	65	79	20	87	56	
4	HHB 120010	MACHO 12/10		KVS 070172	HHB 050013	0.5	HH	0	0	0	6.4	87	90	103	86	93	88	98	80	102	82	94	80	99	79	92	80	
5	HHB 140013	ONA 14/13		JC 020058	HHB 080026	0.5	HH	1	0	0	6.4	106	90	88	86	90	88	122	82	119	84	97	81	72	81	89	81	
6	HHB 150026	PETRA 15/26		KSS 100022	HHB 120010	0.7						84	80	112	68	95	76	107	50	88	54	99	63	113	38	99	58	
7	HHB 160003	QUARTA 16/03		KSS 100022	HHB 110023	0.6	HH	0	0	0	6.4	85	89	105	86	81	89	117	83	99	82	92	81	97	79	90	81	

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Myostatin Horned / Polled nt821 Q204X F94L Genomic tested	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
8	HHB 160014 QARA 16 14	KSS 100022	HHB 130003	0.4		117 79	98 69	66 78	136 60	94 55	93 65	95 29	90 58	
9	HHB 170004 RIKIE 17/4	KSS 100022	HHB 110023	0.6		103 79	101 69	67 77	126 59	104 57	95 65	98 34	92 59	
10	HHB 170016 RON 17/16	KSS 100022	HHB 130001	0.1		95 78	102 68	81 78	112 61	105 56	94 64	92 29	91 57	
11	HHB 190007 TAMMY	JH 150098	HHB 060014	1.0		99 68	95 72	100 71	108 59	91 53	90 62	95 28	88 55	
12	HHB 190010 TRACY	SP 080037	HHB 170001	0.4		98 76	94 74	95 75	127 68	101 55	94 66	90 34	90 60	
13	HHB 190011 TIA	JH 150098	HHB 120005	0.0		116 76	83 72	100 69	131 50	92 50	90 63	80 26	84 56	
14	HHB 190014 TRUDI	JH 150098	HHB 120010	1.0		110 75	93 75	83 75	105 62	105 53	92 66	89 29	88 59	
15	HHB 190016 TARYN	JH 150098	HHB 050016	0.6		115 75	84 72	108 71	128 58	91 50	92 63	81 27	86 56	
16	HHB 200046 ULANDI	JH 160047	HHB 160003	0.9		100 75	104 74	92 73	91 61	97 53	97 65	98 34	94 59	
17	HHB 200060 UMI	JH 160047	HHB 180002	1.1		113 73	92 70	91 67	113 59	94 49	91 61	89 31	87 55	
18	HHB 210016 2116	JH 150098	HHB 110013	1.0		99 73	86 71	117 67	118 59	96 43	91 61	84 30	86 55	
19	HHB 210027 2127		LL 180284	0.0		105 66	101 48	103 58	89 53	94 28	98 47			
20	HHB 220013 HHB2213	VV 170002	HHB 190012	0.9		102 70	98 71	89 61	123 42	103 46	98 59	85 25	93 52	
21	HHB 220040 SANBOD2240	VV 170002	LL 170087	1.3		100 68	104 71	84 61	91 41	97 45	94 58	86 21	89 51	
22	HHB 220059 SANBOD2259	JC 150146	FR 120073	0.7		92 68	103 71	118 63	85 32	91 48	99 58	98 24	96 51	
23	HHB 220072 SANBOD2272	JC 150146	HHB 160003	1.1		84 72	102 72	108 64	88 50	90 49	90 61	89 26	87 54	
24	HHB 230025 HHB 230025	JH 180069	JH 160024	1.8	HH 1 0 0	96 87	104 87	89 84	98 81	105 82	98 80	108 80	98 80	
25	HHB 230067 HHB 230067	JH 170053	JH 200074	0.4	HH 1 0 0	89 85	107 86	71 81	103 79	108 80	93 78	108 80	93 78	
26	HHB 230084 2384	JC 150146	HHB 170012	0.9	HH 0 0 0	86 85	95 85	109 82	91 80	102 80	91 78	90 78	87 78	
27	HHB 230085 HHB 230085	SP 160058	LL 180174	0.6	HH 1 0 0	82 84	114 86	82 82	91 79	95 80	95 78	111 80	95 78	
28	HHB 240041 HHB240041	JH 180069	HHB 190009	0.8		98 66	92 69	92 50	108 38	109 39	91 54	93 26	88 48	
29	HHB 240045 HHB240045	JH 180069	HHB 200023	1.2		92 66	98 69	90 49	117 35	107 38	95 54	97 28	92 49	
30	HHB 240051 HHB240051	JH 180069	HHB 190007	1.1		95 66	94 69	101 50	102 37	109 39	95 54	98 26	92 48	
31	HHB 240079 2479	HHB 210076	HHB 210029	0.8		86 63	96 64	113 45	107 38	102 32	96 50	97 25	93 45	
32	J 180086 J180086	LL 140164	J 110014	1.7	HH 1 0 0	95 84	103 87	98 87	92 82	101 82	98 80	111 78	98 80	
33	JH 160024 JH1624	JH 120101	JH 130127	0.6	HH 0 0 0	99 87	102 85	101 87	108 81	94 81	99 79	103 78	98 79	
34	JH 190073 1973	SP 110076	JH 140105	0.5		93 74	104 74	89 73	73 45	104 53	92 64	102 39	91 59	
35	LL 220057 LL220057	JC 140099	LL 120081	0.1		99 47	106 72	81 63	89 40	96 43	93 54	109 20	93 47	
36	OLG 170007 OHANNA	KT 100037	HHB 140010	0.5		107 74	99 63	92 73	115 50	90 47	95 59	93 26	91 52	

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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	
1	HHB 150001	PAM 15/01	KVS 070172	HHB 010004	0.1													
2	HHB 160011	QUINTA 16 11	KSS 100022	HHB 110021	0.9													
3	HHB 170012	RUSHA 17/12	KSS 100022	HHB 110013	0.5	HH	0	0	0									
4	HHB 170017	RORY 17/17	HHB 140020	HHB 130003	6.6													
5	HHB 180023	SUNA	HHB 140020	HHB 140008	0.5													
6	HHB 190009	TYLA	JH 150098	HHB 150028	0.7													
7	HHB 190013	THELMA	JH 150098	HHB 160011	0.8	HH	0	0	0									
8	HHB 200022	ULRIKE	JH 150098	OLG 170007	0.9													
9	HHB 200023	UNIQUE	JH 150098	SP 150045	1.4													
10	HHB 210029	2129	JC 150146	FR 170089	0.6													
11	HHB 210037	2137	JH 150098	HHB 120005	0.0													
12	JH 160041	JH1641	VV 120161	JH 110090	2.0	HH	1	0	0									
13	JH 160069	1669	VV 120161	LL 110176	1.5	HH	1	0	0									
14	JH 180077	1877	LL 140017	JH 130014	0.3													
15	JH 180097	1897	JC 140099	JC 150117	0.5													
16	JH 220004	224	JC 150146	JH 160084	0.9													
1	HHB 130003	NARA 13/3	KVS 070172	HHB 090023	0.1													
2	HHB 170001	RAGEL 17/1	KVS 070172	HHB 150008	0.8	HH	1	0	0									
3	HHB 180002	SANBOD SARA	HHB 140020	HHB 040022	0.7													

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	HHB 250042	2542		HHB 210079	HHB 220071	0.4					85	64	131	67	109	43	76	25	118	33	133	50	122	24	132	45	
											★★★★★★☆																
1	HHB 250075	2575		VV 170002	JH 170001	2.2					99	69	112	72	104	55	105	33	122	41	123	57	106	30	119	52	
2	HHB 250087	2587		VV 170002	LL 150302	1.0					93	66	116	72	107	57	95	23	112	43	120	56	105	23	117	49	
3	HHB 250088	2588		HHB 210079	HHB 220085	13.2					101	63	108	67	126	44	84	23	113	32	121	50	109	28	118	46	
4	HHB 260016	2616		HHB 220017	HHB 230040	0.8					105	63	117	51	102	38	83	26	117	29	124	43	117	24	123	39	
5	HHB 260017	2617		HHB 220017	HHB 230035	0.7					98	61	117	50	100	36	93	23	118	27	123	41	117	20	121	37	
6	HHB 260025	2625		VV 170002	HHB 220009	0.9					93	67	110	60	114	50	94	32	121	41	121	51	101	27	116	46	
7	HHB 260034	2634		VV 170002	SP 150046	0.4					95	69	115	61	103	57	92	33	122	42	122	53	106	30	118	48	
											★★★★★★																
1	HHB 250054	2554		HHB 210079	HHB 220059	0.6					102	63	112	67	119	44	81	20	104	34	118	50	108	24	115	45	
2	HHB 250066	2566		HHB 200064	HHB 200017	13.0					122	65	104	56	98	45	93	35	99	33	110	47	100	24	106	42	
3	HHB 250084	2584		VV 170002	HHB 110010	0.6					95	70	107	70	113	56	86	28	119	40	115	56	100	26	111	50	
4	HHB 250086	2586		VV 170002	HHB 200036	1.0					96	67	110	70	103	54	92	38	109	41	111	56	102	26	108	50	
5	HHB 250089	2589		HHB 200064	JH 180098	0.8					117	66	102	70	103	50	95	36	114	35	114	54	98	26	110	48	
6	HHB 260001	2601		VV 170002	HHB 190025	0.9					99	68	115	61	102	54	88	40	112	42	118	53	106	27	115	48	
7	HHB 260002	2602		HHB 210079	HHB 230011	1.1					94	62	119	56	103	39	86	23	108	32	119	45	114	23	117	41	
8	HHB 260003	2603		HHB 200064	JH 180020	2.5					118	66	104	57	95	48	92	33	107	34	111	48					
9	HHB 260004	2604		HHB 210079	HHB 170004	0.7					104	67	110	56	95	49	100	32	111	37	113	49	105	27	110	45	
10	HHB 260007	2607		VV 170002	HHB 150026	0.6					88	70	113	59	104	55	100	34	107	42	111	52	107	27	109	47	
11	HHB 260008	2608		HHB 220017	HHB 230016	1.2					102	62	111	50	95	38	101	24	113	31	115	43					
12	HHB 260013	2613		VV 170002	HHB 230008	1.2					96	67	110	59	114	48	92	29	111	40	118	50	104	26	114	45	
13	HHB 260022	2622		HHB 220017	HHB 230037	0.5					100	62	113	50	89	36	97	21	122	28	118	42	110	20	115	38	
14	HHB 260023	2623		VV 170002	HHB 210064	1.0					94	66	110	60	112	50	103	32	111	41	117	51	102	26	113	46	
15	HHB 260040	2640		VV 170002	JH 220017	1.2					92	68	110	60	107	50	94	26	122	40	118	51	98	24	113	46	
16	HHB 260042	2642		VV 200028	HHB 210038	1.3					99	66	116	57	98	45	93	29	99	36	113	48	107	28	110	44	
17	HHB 260045	2645		VV 170002	FR 150071	0.3					88	68	111	61	106	56	93	25	128	43	119	52	107	26	116	47	
											★★★★★★																

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	HHB 250015	2515	JH 180069	HHB 200063	0.6						9867	10769	10349	8136	11338	10954	11328	10849			
2	HHB 250020	2520	JH 180069	HHB 120010	1.4						8769	11270	9253	8631	11439	10755	11628	10750			
3	HHB 250068	2568	VV 200028	JH 220002	1.2						8966	11669	8946	9631	10736	10953	11330	10848			
4	HHB 250069	2569	HHB 190021	JH 180077	3.7						9867	9970	9149	10231	11635	10054	9628	9749			
5	HHB 250070	2570	VV 200028	HHB 220040	5.1						9664	11167	9145	9023	9736	10251	9724	9946			
6	HHB 250080	2580	VV 200028	LL 160124	0.5						9367	11370	9951	8916	9338	10453	10324	10247			
7	HHB 250082	2582	VV 200028	HHB 190015	1.4						10566	10668	9648	10227	9737	10453	10125	10147			
8	HHB 250083	2583	VV 200028	J 180086	0.4						9265	11070	9850	9030	9938	10454	10924	10248			
9	HHB 250085	2585	VV 200028	HHB 220045	1.1						9365	11367	9945	9024	10237	10951	10528	10646			
10	HHB 250090	2590	VV 170002	HHB 200046	0.9						10367	10070	10554	9638	11242	10756	9526	10250			
11	HHB 260015	2615	VV 200028	HHB 210055	4.8						9764	11457	9044	9824	10337	10947	10024	10542			
12	HHB 260024	2624	VV 170002	HHB 170001	0.8						9670	10159	9156	10940	11142	10153	9324	9747			
13	HHB 260027	2627	HHB 220017	JH 220004	0.6						10164	10551	9741	9030	11031	10644					
14	HHB 260028	2628	VV 200028	JH 220007	1.4						8966	11757	8843	9227	10735	10948	11230	10844			
15	HHB 260030	2630	VV 170002	HHB 170012	0.6						8469	10759	10255	10239	11242	10652	9924	10246			
16	HHB 260032	2632	VV 170002	HHB 160014	0.5						10370	10759	8956	11137	11042	10953	9824	10547			
17	HHB 260033	2633	VV 170002	HHB 200060	1.1						10067	10459	10252	10337	11041	10951	9625	10446			
18	HHB 260037	2637	VV 170002	HHB 200054	1.3						10267	10760	9452	9338	10040	10352	9425	9947			
19	HHB 260039	2639	VV 200028	HHB 210069	1.1						9765	11256	9943	9323	9937	10847	10328	10543			
20	HHB 260041	2641	VV 200028	HHB 210037	0.9						9366	10757	9247	10230	9935	10048	9525	9643			
21	HHB 260198	26198	HHB 200064	HHB 210019	1.7						11064	10656	10843	9030	9534	10947	11020	10742			
											★★★★										
1	HHB 250061	2561	HHB 200064	JH 180095	0.7						11666	9368	9748	10329	9833	9652	9125	9247			
2	HHB 260010	2610	HHB 200064	HHB 180002	0.7						13165	9153	8347	11835	9133	9447	9020	9042			
3	HHB 260026	2626	HHB 200064	JH 160041	0.8						11568	10356	9149	9934	8735	9949	9728	9545			
											★★★★☆										
1	HHB 250091	HHB 250091		HHB 180023	0.0						9857	8659	9238	13128	9827	8345					

Selection List on Cow Value

Heifers younger than 2 years

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									
											★★★★★★																
1	HHB 250034	2534		HHB 210079	HHB 220061	0.7					88	64	121	67	125	44	77	26	119	33	131	51	113	28	127	46	
2	HHB 250040	2540		HHB 210079	HHB 220014	13.2					93	63	124	67	118	44	83	26	117	33	134	50	112	24	130	45	
											★★★★★★☆																
1	HHB 250041	2541		JH 220025	HHB 210045	0.9					83	61	125	65	95	42	98	32	120	30	124	49					
2	HHB 250059	2559		HHB 210079	FR 150055	1.3					97	65	116	70	107	50	90	22	110	38	121	53	104	32	117	49	
3	HHB 250065	2565		HHB 210079	HHB 230004	13.1					104	63	107	67	108	44	102	26	119	33	120	50	97	24	114	45	
4	HHB 250072	2572		VV 200028	HHB 200019	1.0					94	66	123	68	104	49	84	30	101	38	120	53	112	26	117	48	
5	HHB 250074	2574		VV 170002	HHB 200034	1.0					87	67	123	69	114	54	77	36	114	42	126	55	110	27	122	49	
6	HHB 250093	2593		HHB 210079	HHB 190032	0.6					99	66	117	68	115	49	83	37	118	36	128	53	108	27	124	48	
7	HHB 260011	2611		VV 170002	JH 160032	1.2					82	70	117	60	118	56	103	36	116	44	124	53	105	30	120	48	
8	HHB 260012	2612		VV 170002	JH 220008	0.8					90	67	115	60	108	49	89	30	130	39	125	51	108	23	121	45	
9	HHB 260018	2618		HHB 220017	HHB 230020	0.8					96	63	115	51	107	38	89	28	116	31	121	43	115	24	119	39	
10	HHB 260047	2647		VV 170002	HHB 210045	0.7					85	65	119	60	107	51	101	36	124	39	126	51	110	23	123	45	
											★★★★★★																
1	CJ 260010	CJ260010		VV 200169	CJ 170006	1.4					89	67	112	46	106	43	88	18	106	38	110	44					
2	HHB 250014	2514		JH 180069	LL 150212	0.6					96	67	103	71	114	53	88	24	116	40	111	55	111	28	110	50	
3	HHB 250047	2547		HHB 210079	HHB 210016	0.8					100	64	111	67	116	45	92	32	106	32	118	51	106	26	115	46	
4	HHB 250060	2560		VV 200028	HHB 220021	5.2					84	65	124	67	101	45	87	25	105	35	117	51	108	26	115	46	
5	HHB 250077	2577		HHB 210079	HHB 190014	0.8					107	65	107	68	102	49	94	34	111	36	114	53	99	26	110	48	
6	HHB 250081	2581		VV 200028	HHB 220041	4.8					86	65	121	67	106	44	90	19	99	36	115	51	107	25	113	46	
7	HHB 250092	2592		HHB 220017	HHB 230007	1.5					94	62	114	64	94	41	104	26	122	31	119	48	106	20	115	42	
8	HHB 250095	2595		HHB 220017	FR 170115	1.0					91	64	120	67	82	47	100	27	112	34	114	51	111	25	112	46	
9	HHB 260006	2606		VV 170002	HHB 170011	0.5					94	70	110	58	103	55	106	39	119	43	117	52	101	26	113	47	
10	HHB 260014	2614		VV 170002	HHB 190010	0.4					96	68	104	60	104	54	107	41	113	42	110	53	96	27	105	48	
11	HHB 260019	2619		VV 170002	HHB 120005	0.1					97	70	103	59	104	57	102	31	118	42	110	52	90	22	104	46	
12	HHB 260020	2620		VV 170002	HHB 200063	0.8					100	67	112	60	111	52	87	36	112	41	119	52	103	26	115	47	
13	HHB 260021	2621		VV 170002	HHB 210027	0.3					102	66	107	54	108	49	92	35	110	35	113	48	99	20	109	42	
14	HHB 260029	2629		VV 170002	HHB 210026	0.9					101	67	112	60	95	51	100	36	104	41	112	52	104	26	109	47	

Selection List on Cow Value
Heifers 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									
										★★★★★								
15	HHB 260036 2636	HHB 220017	HHB 140013	0.8						104 67	104 50	90 47	106 27	121 35	111 46	97 22	106 41	
16	HHB 260038 2638	VV 200028	HHB 210077	0.7						88 66	114 57	110 45	85 24	108 37	113 48	102 28	110 44	
17	HHB 260048 2648	VV 170002	SP 150033	0.5						93 69	116 62	108 57	92 30	111 42	119 53	96 24	113 47	
18	HHB 260049 2649	VV 200028	HHB 210053	4.8						95 64	113 57	100 44	98 25	100 37	110 47	101 25	106 43	
19	HHB 260199 26199	VV 200028	LL 150212	0.9						96 66	108 59	116 51	90 14	101 39	111 49	104 27	108 45	
20	HHB 260201 26201	VV 200028	HHB 220061	1.0						87 66	115 57	114 44	83 24	109 36	117 48	106 28	113 44	
										★★★★☆								
1	CJ 260016 CJ260016	VV 200169	CJ 170008	2.7						94 57	111 44	101 37	94 16	100 38	107 40			
2	HHB 250039 2539	JH 220025	JH 180023	1.1						85 64	105 67	120 47	97 32	109 31	109 51			
3	HHB 250062 2562	HHB 200064	JH 190073	0.8						113 66	105 69	93 48	81 31	100 36	103 53	101 26	101 48	
4	HHB 250064 2564	VV 200028	HHB 220072	0.8						87 65	116 67	101 45	86 27	94 37	106 52	101 25	103 47	
5	HHB 250067 2567	VV 200028	HHB 220065	1.3						87 64	108 67	103 45	97 23	95 37	100 51	93 24	96 46	
6	HHB 250079 2579	VV 200028	FR 150013	0.3						93 66	114 57	90 51	93 16	101 40	105 49	104 30	103 45	
7	HHB 250094 2594	VV 170002	HHB 210029	0.6						90 67	105 68	110 53	97 40	110 39	107 55	96 24	103 49	
8	HHB 250096 2596	VV 170002	HHB 150001	0.6						82 70	107 70	111 55	96 27	111 40	107 56	95 24	102 50	
9	HHB 250097 2597	HHB 190021	JH 160084	0.3						97 68	112 70	92 50	98 32	107 34	109 54	99 23	106 48	
10	HHB 250139 25139	HHB 210079	HHB 160011	0.9						96 66	109 55	99 49	109 33	103 36	109 48	102 26	106 44	
11	HHB 260005 2605	HHB 200064	HHB 170016	0.2						114 67	102 55	90 49	99 36	100 36	102 49	96 23	99 44	
12	HHB 260009 2609	HHB 220017	HHB 190016	0.9						103 64	103 51	100 44	107 33	107 32	107 45	101 20	104 40	
13	HHB 260031 2631	VV 170002	HHB 190007	0.9						96 67	105 60	106 53	101 39	108 42	109 52	98 24	105 46	
14	HHB 260035 2635	VV 170002	HHB 190009	0.8						97 67	105 60	97 53	105 40	107 41	105 52	95 24	101 46	
15	HHB 260043 2643	VV 170002	HHB 160003	0.6						89 70	110 60	97 57	105 38	112 44	109 54	100 24	106 48	
16	HHB 260046 2646	VV 170002	HHB 200023	1.1						100 67	105 60	94 52	119 36	106 41	107 52	95 26	102 47	
										★★★								
1	CJ 260006 CJ260006	VV 200169	CJ 130005	2.3						80 67	107 45	112 43	97 16	94 36	99 43	108 22	98 39	

	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.

