

NGUNI

BREEDING VALUE REPORT

September 2026



RADFORD NGUNI

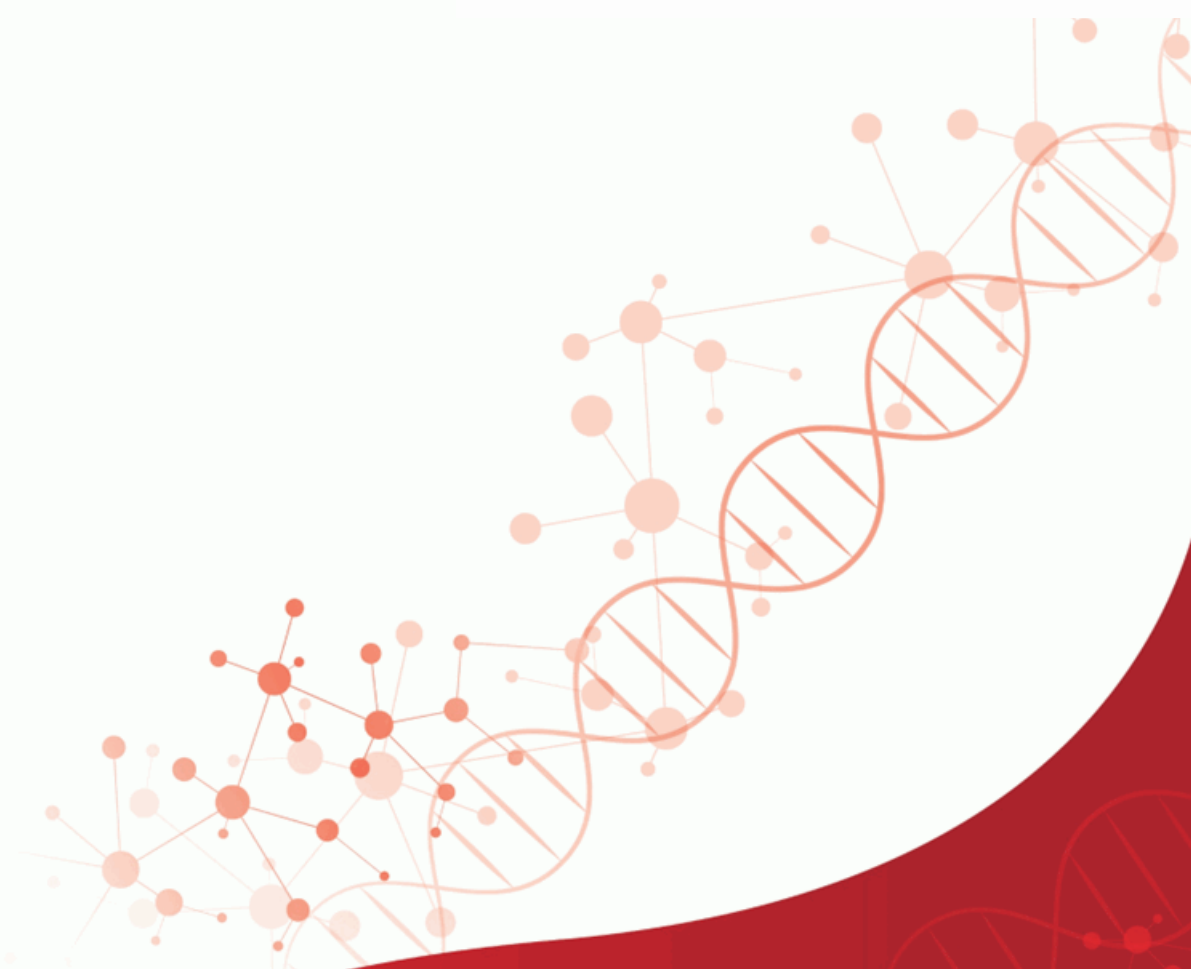
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NGUNI Cattle Breeders' Society
Beestelersgenootskap



LOGIX



EBVs, EBVi's and GEBVs

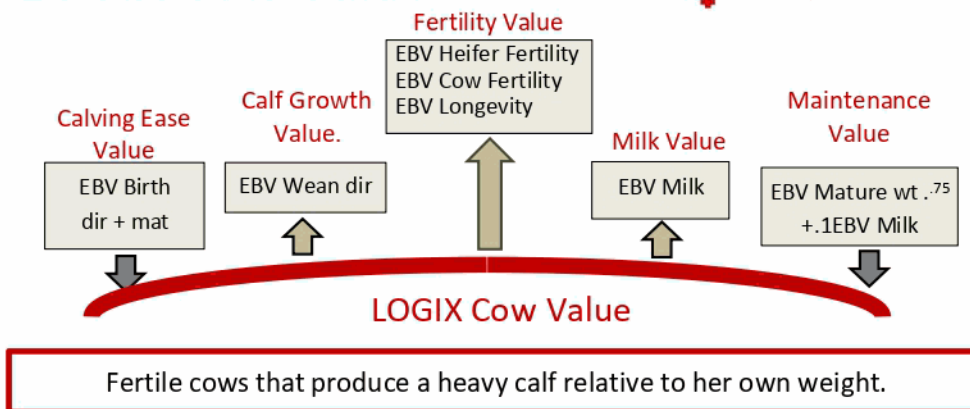
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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

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

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

LOGIX Cow Value



Selection Values

LOGIX Cow Value



Selecting for:

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

LOGIX Growth Value



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

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

LOGIX Carcass Value



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

How to use the Cow Value

Selection values should be compatible with your selection goal.

AVERAGE ANIMALS

(NO GROWTH EXTREMES)

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

GROWERS

(GOOD ENVIRONMENT)

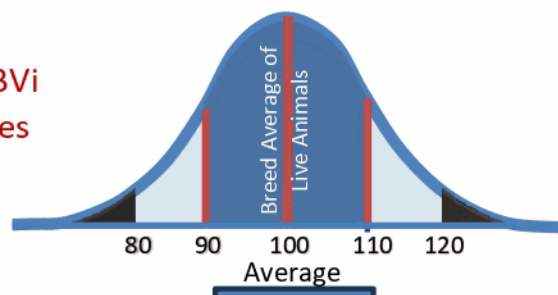
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

LOW- MAINTENANCE ANIMALS

(HARSH ENVIRONMENT)

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

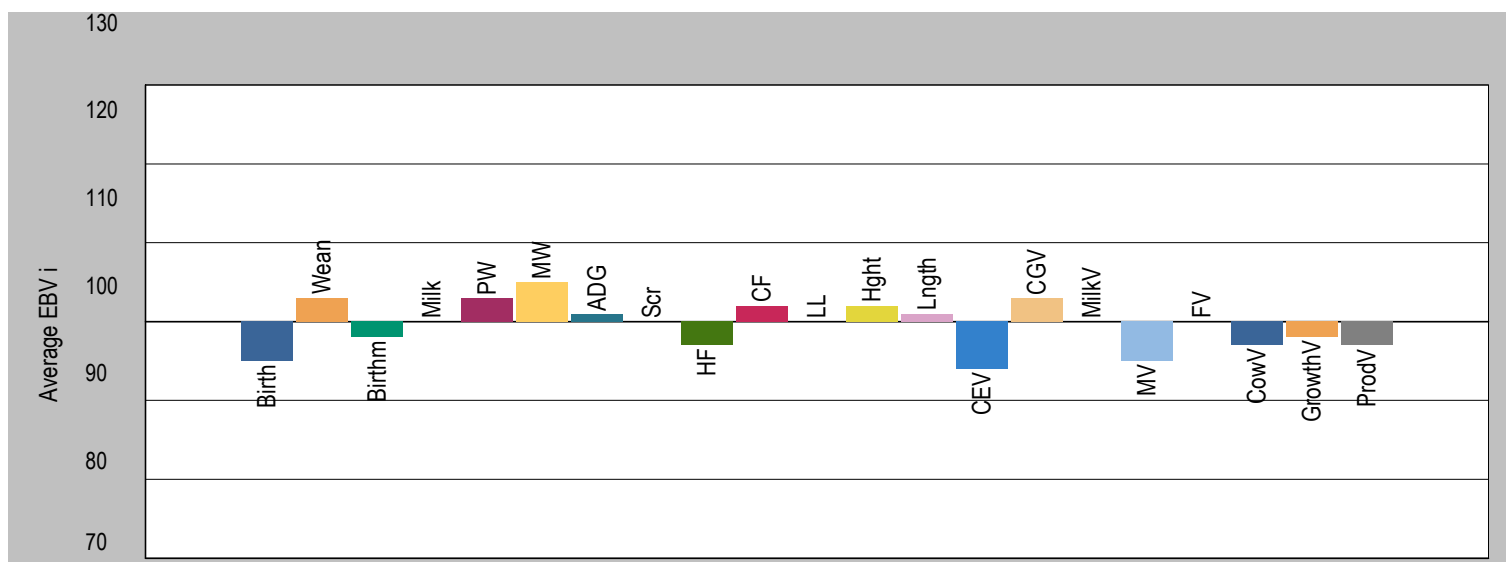
Interpretation of EBVi and Selection Values



Examples

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

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		

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	EBVIndex	EBV Breed
Prewean Growth	Birth Weight	0.37	95	0.12
	Wean Weight	3.7	103	2.6
	Birth Mat.	0.12	98	0.05
	Milk (Wn.Mat.)	1.0	100	1.0
Postwean Growth	Postwean Wt	5.0	103	3.7
	Mature Weight	9	105	5
	ADG	13	101	12
Fertility	Scrotal Circumf.	3.8	100	3.8
	Heifer Fertility	-3.4	97	-6.2
	Cow Fertility	-3.4	102	-2.9
	Longevity	23.3	100	23.2
Frame	Height	3	102	2
	Length	6	101	5

Selection Value	Ave. Herd
Calving Ease	94
Calf Growth	103
Milk	100
Maintenance	95
Fertility	100
Cow Value	97
Growth Value	98
Production Value	97

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

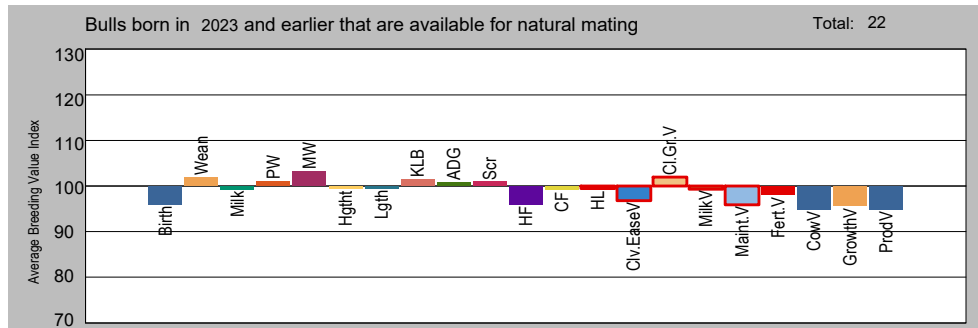
What does a sub-selection value above breed average (100) mean?:

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

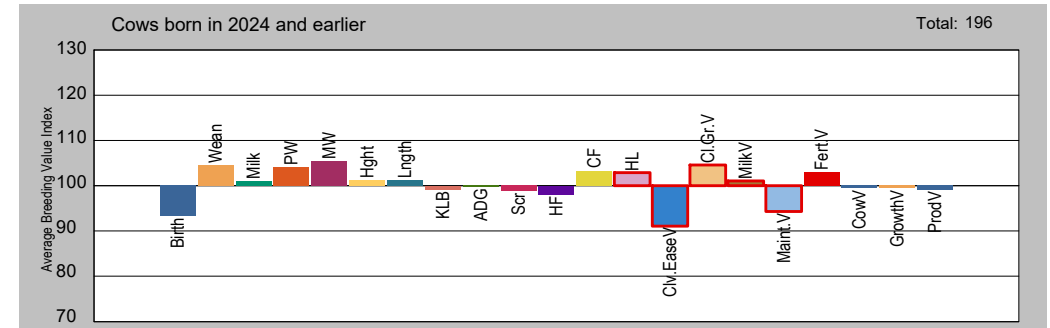
Genetic Windows

Animals available for breeding

Bulls on the farm

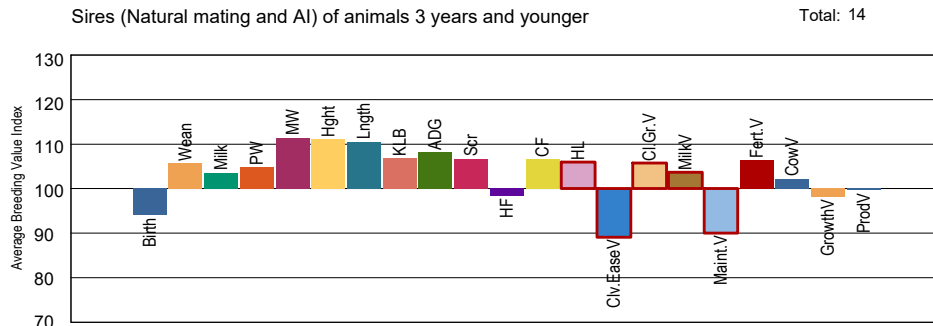


Cow Herd

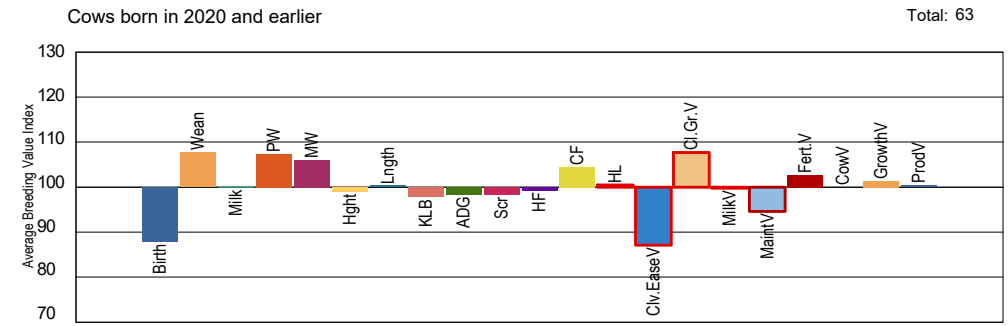


Results of previous selection decisions

Sires of young animals

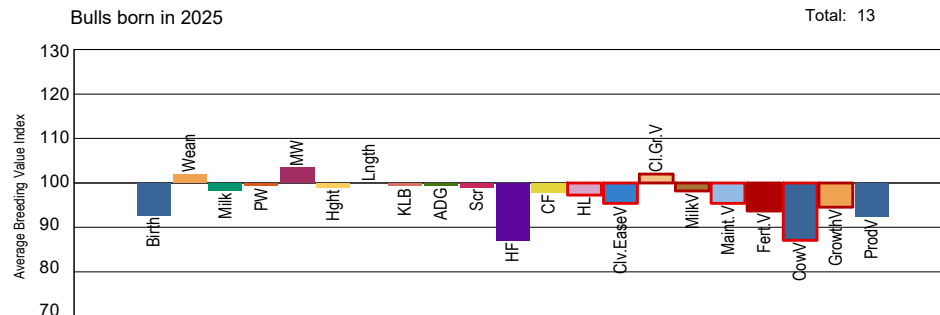


Cows older than 6 years

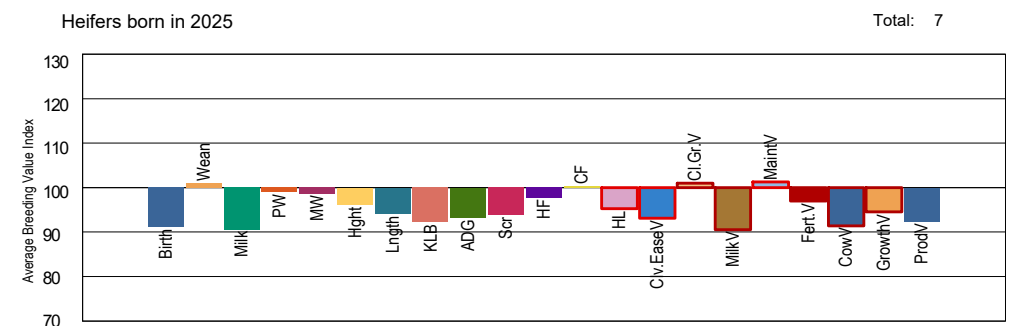


Selection possibilities

Bull calves



Heifer calves

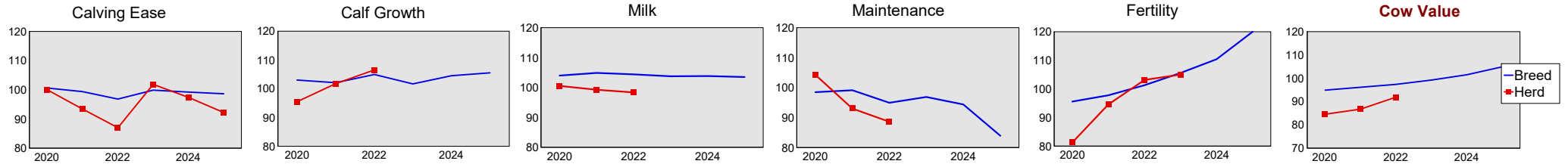


Summary of Cow Herd

			Selection Values (SV)							Calf Weight		Dam		Growth & Efficiency				Fertility				Frame			
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
			Cows in Breed Average:										100	100	100	100	100	100	99	99	99	100	99	99	
2009	1	★★★★☆	91	105	61	120	115	107	111	110	88	105	111	61	98	83	80	77	92	145	115	87	91	90	
2010	1	★★★☆☆	101	100	90	86	93	80	77	77	101	100	95	90	98	114	91	95	83	102	101	84	95	89	
2012	4	★★★★☆	97	96	116	109	83	89	95	92	99	96	90	116	98	91	87	90	80	85	84	86	92	86	
2013	6	★★★★	81	115	93	89	92	93	100	100	83	115	87	93	118	113	102	98	101	99	98	91	106	111	
2014	2	★★★★☆	63	126	95	86	106	104	112	108	59	126	75	95	123	116	87	83	92	95	114	99	96	98	
2015	12	★★★★	98	97	104	93	94	98	93	94	99	97	94	104	97	107	88	91	96	99	113	95	81	82	
2016	14	★★★★	92	105	97	96	100	96	97	96	91	105	100	97	104	105	99	97	93	100	102	98	103	104	
2017	10	★★★★☆	93	101	106	98	101	101	100	100	93	101	93	106	103	102	103	104	97	97	105	99	106	104	
2018	12	★★★★☆	93	102	104	98	99	101	99	101	95	102	90	104	102	103	99	100	104	96	101	102	96	98	
2019	25	★★★★☆	89	108	102	95	100	104	103	104	89	108	94	102	111	106	98	97	100	100	107	99	97	99	
2020	6	★★★★	109	102	104	92	94	97	95	95	108	102	105	104	105	109	110	112	107	103	97	97	109	107	
2021	7	★★★★☆	84	109	105	97	104	105	109	108	86	109	92	105	108	103	91	88	93	84	108	108	90	96	
2022	40	★★★★	84	107	100	92	101	97	99	97	84	107	104	100	105	107	101	100	97	100	99	102	103	103	
2023	39	★★★★☆	97	105	108	91	103	103	101	102	97	105	92	108	106	108	105	104	103	98	105	103	107	105	
2024	52	★★★★	98	97	98	98	103	97	95	95	105	97	99	98	98	101	97	98	99	97	103	103	100	98	
2025	7	★★★★	93	101	91	101	97	91	95	92	91	101	105	91	99	99	93	92	94	98	100	95	96	94	
Cows in Herd Average:			91	105	98	96	99	98	99	98	92	105	95	98	105	104	96	95	96	100	103	97	98	98	98

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.



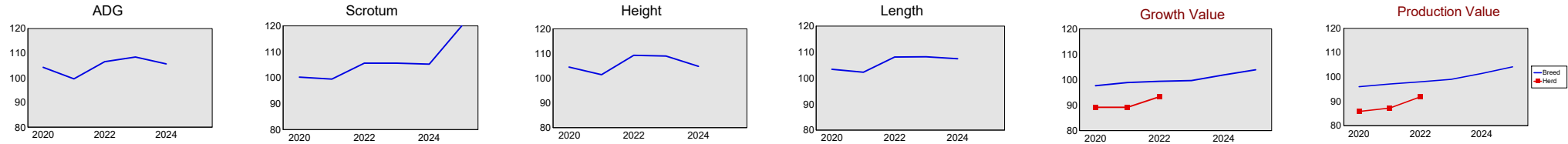
Herd

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	Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	
2020	1	0.10	0.20	100	22	1.0	96	22	1.13	101	22	1.2	104		8	-0.3	1	3.1	23	17.5	81	85	
2021	75	0.46	0.01	93	75	3.2	102	75	0.83	99	45	4.4	93		19	0.9	1	-2.2	74	17.2	95	87	
2022	123	0.82	-0.15	87	91	4.9	107	91	0.62	98	12	9.9	89		14	-5.7			35	19.2	103	92	
2023	154	0.02	0.08	102											1	5.5					105		
2024	125	-0.03	0.09	97																			
2025	17	0.61	-0.06	92																			

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	2062	0.06	-0.03	101	1340	2.9	101	1339	0.64	98	355	6.3	223	5	97	1339	-2.4	868	-1.9	10845	12.2	90	87
2017	1692	0.05	0.03	100	1223	3.5	102	1223	1.02	100	536	7.3	266	7	95	1431	-2.1	859	-1.9	8766	13.2	91	90
2018	1623	0.00	0.02	101	961	4.1	104	961	1.83	104	525	6.9	260	8	95	1317	-2.9	764	-2.0	7360	13.8	93	93
2019	1476	0.03	0.01	100	1204	3.3	102	1202	1.73	103	501	6.3	314	7	96	1273	-3.5	775	-2.6	6887	14.6	94	94
2020	1577	0.05	0.01	101	1147	3.7	103	1147	1.93	104	561	5.4	352	6	98	1269	-4.3	672	-2.5	6779	15.4	96	95
2021	1538	0.08	0.06	99	1397	3.4	102	1397	2.14	105	770	4.9	292	5	99	1218	-5.0	585	-2.9	6379	16.8	98	96
2022	1327	0.25	0.06	97	1681	4.4	105	1681	2.02	104	780	6.7	261	10	95	962	-4.7	240	-4.2	2616	17.4	101	97
2023	1221	0.08	0.12	100	1478	3.2	102	1478	1.87	104	509	6.2	62	12	97	379	-5.9	45	-5.3			106	99
2024	1380	0.08	0.12	99	1392	4.2	105	1392	1.90	104	510	7.3	1	-6	94	128	-6.5					110	102
2025	1033	0.14	0.10	99	1054	4.6	106	1052	1.82	103	173	12.0			84	7	-42.1					133	105
2026	191	0.05	0.02	102	23	7.6	114	23	3.11	109													109

Genetic Trends for Growth Test Traits



Herd

Birth Year	Growth						Frame						Selection Values	
	ADG			Scrotal Circumf.			Height			Length			Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		
2020													89	86
2021													89	87
2022													93	92
2023														
2024														
2025														

Breed

Birth Year	Growth						Frame						Selection Values	
	ADG			Scrotal Circumf.			Height			Length			Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		
2016	61	31	109	66	6.6	107	61	10	115	61	15	114	92	89
2017	53	27	107	52	7.3	109	52	7	110	52	15	113	94	92
2018	78	28	107	78	7.5	110	78	6	108	78	10	107	98	95
2019	66	30	108	66	4.7	103	66	7	111	66	12	109	96	95
2020	78	21	104	77	3.9	100	78	4	105	78	8	103	98	96
2021	84	11	100	83	3.6	99	84	3	101	84	7	102	99	97
2022	171	26	107	95	5.9	106	162	7	109	162	11	108	99	98
2023	65	30	108	64	5.9	106	65	6	109	65	11	108	100	99
2024	64	24	106	63	5.8	105	64	4	105	64	11	107	102	101
2025				21	13.2	125							104	104

Sires

Bull			Selection Values								Calf		Dam		Growth			Fertility				Frame		Measured Progeny				
ID	Index EBV Acc	Sire ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Long- evity	Height	Length	Birth wt	Wean wt	Dgt/Calvs.	Grwth Test	
																												Name
AZ 110054		CS 020092 AZ 040053	81	106	105	109	98	104	113	109	87	106	73	105	96	92	107	70	107	105	88	94	88	19	110	20	76	6
AZ 11.54 K			74	93	86	74	76	65	84	74	0.75	4.7	0.83	2.2	1.6	-2	27	-7.8	-12.3	-4.0	16.5	-1	-4					
											75	93	67	86	76	74	63	66	83	55	90	71	69					
CS 060073		CS 020121 CS 940064	71	118	72	117	102	102	120	112	70	118	110	72	108	87	103	121	123	118	70	97	104		42	7	36	
CS 06 73			56	88	79	61	73	59	77	68	1.62	9.0	-0.23	-5.5	7.8	-8	18	11.8	-25.7	-7.0	6.9	1	8					
											56	88	56	79	50	61	36	41	80	51	88	42	40					
CVL 140013		CS 030038 LP 050192	75	110	74	115	109	106	114	110	78	110	92	74	108	88	94	100	115	105	102	90	96		43	16	25	
CVL 140013			80	86	76	58	66	57	74	66	1.24	6.0	0.28	-5.1	7.5	-6	0	3.7	-19.1	-4.1	24.3	-3	2					
											81	86	76	76	75	58	16	19	72	47	78	19	19					
DH 100041		DH 050035 DH 080004	81	109	55	86	84	59	64	59	78	109	129	55	94	117	96	93	81	92	89	102	99	3	122	18	34	
DH100041			72	92	79	59	68	59	78	68	1.23	5.7	-0.76	-9.4	0.9	20	4	1.1	9.5	-1.1	17.2	3	4					
											74	92	65	79	74	59	6	7	76	41	86	7	7					
EX 060330		EX 020300 EX 030318	95	117	75	83	70	58	74	64	95	117	99	75	117	120	113	103	88	68	85	150	144		122	21	55	1
EX06330			48	92	83	64	71	60	79	70	0.37	8.7	0.08	-4.8	12.3	23	41	5.0	3.7	4.6	15.3	27	38					
											47	92	50	83	71	64	48	57	77	47	88	57	54					
EX 120209		CS 020092 EX 020009	91	100	111	69	113	98	71	82	95	100	82	111	110	138	118	100	82	120	112	110	102	2	287	55	176	8
12.209 GEITE			78	95	91	72	81	67	86	76	0.36	2.7	0.57	3.5	8.9	39	51	3.7	8.6	-7.6	29.4	7	6					
											79	95	75	91	79	72	63	69	89	62	91	71	69					
EX 150302		AZ 110057 EX 070508	114	92	141	116	101	121	122	122	117	92	82	141	95	84	94	150	103	122	76	98	110	1	59	9	16	8
DONKIE			65	90	74	58	66	57	76	66	-0.70	-0.2	0.55	10.5	1.3	-10	0	22.9	-9.1	-8.0	10.1	1	12					
											65	90	65	74	75	58	59	76	71	43	85	67	65					
EX 150321		EX 090200 CS 990128	89	111	102	95	101	102	110	106	93	111	81	102	110	103	108	112	82	102	110	92	96		9	3	8	
MAGGIE			52	78	66	54	57	50	66	58	0.47	6.6	0.60	1.5	8.8	7	30	8.4	9.0	-3.4	28.6	-2	2					
											53	78	48	66	56	54	26	66	63	40	69	33	31					
EX 170210		EX 120209 EX 080421	79	141	68	68	138	128	113	121	80	141	94	68	143	144	144	137	145	128	127	150	146	5	263	59	135	48
WIT PENS			69	95	87	73	75	65	84	74	1.09	17.2	0.21	-6.5	25.2	45	109	18.0	-43.6	-9.5	37.9	27	40					
											72	95	54	87	85	73	76	79	87	56	83	82	81					
EX 180037		SW 100012 EX 130001	88	116	128	96	98	112	126	120	91	116	85	128	110	100	129	145	59	101	117	149	122	1	32	8	18	7
EX 180037			49	88	74	62	61	55	73	64	0.57	8.1	0.48	7.5	9.0	5	76	20.8	27.5	-3.2	32.5	27	22					
											51	88	39	74	67	62	68	69	71	40	71	77	74					
EX 180207		EX 120209 EX 100101	60	142	109	66	138	138	125	132	50	142	74	109	143	144	139	137	129	141	111	149	146	2	37	9	12	2
EX 180207			58	85	73	58	59	53	71	62	2.61	17.4	0.79	3.0	25.2	45	97	17.9	-30.6	-12.4	29.2	27	40					
											60	85	49	73	67	58	62	70	66	41	71	73	69					

Sires

Bull			Selection Values							Calf		Dam		Growth			Fertility				Frame		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	Scrotal	Heifer	Cow	Long-	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth			
			Ease Value	Grwth Value	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight		Circ.	Fertility	Fertility	evity			wt	wt		Test			
EX 200019		SW 100012 EX 060222	113	79	144	94	99	103	91	96	130	79	78	144	82	102	107	104	81	99	110	101	95			43	4			
LUPINLAND			79	77	61	42	52	46	63	54	-1.36	-4.8	0.68	11.2	-5.1	6	27	5.1	9.5	-2.8	28.5	2	1							
											88	77	36	61	48	42	40	46	53	36	66	45	44							
EX 200220		EX 170210 EX 150016	102	114	95	74	138	127	104	115	104	114	88	95	118	131	131	106	144	124	124	139	132			40	3	2	2	
EYESHADOW			78	76	63	49	50	47	63	55	-0.07	7.6	0.40	-0.2	12.9	33	79	5.9	-42.6	-8.5	36.1	22	29							
											87	76	30	63	60	49	59	67	56	32	62	69	66							
EX 200410		EX 160001 EX 170235	87	64	102	110	126	109	79	92	156	64	85	102	73	92	84	109	110	123	118	92	84			39				
DONKIE			79	73	57	42	46	43	59	51	-2.66	-10.2	0.47	1.4	-10.0	-3	-23	7.1	-14.7	-8.2	32.8	-2	-7							
											87	73	38	57	54	42	53	66	51	28	59	66	62							
FB 130106		T 060055 FB 060078	89	109	109	92	94	95	103	99	93	109	85	109	109	106	107	100	82	99	100	99	103			1		3	5	
PEZULU			58	47	53	27	64	41	50	46	0.49	5.8	0.48	3.1	8.3	10	27	3.9	8.4	-2.7	23.1	2	8							
											59	47	56	53	30	27	15	18	72	44	76	18	17							
FF 040055		FF 990028 FF 930002	87	104	98	98	83	81	93	87	93	104	74	98	93	100	67	132	85	95	82	57	75			143	163	27	155	9
VUNDIZA FF 04 55			93	96	92	81	83	70	90	80	0.47	4.1	0.78	0.6	0.2	5	-62	15.8	6.2	-1.8	13.2	-19	-14							
											95	96	83	92	88	81	68	74	87	68	94	75	73							
FF 090187		LEB 000115 FF 030167	86	137	95	88	100	106	127	118	89	137	87	95	143	112	131	146	109	106	88	118	124					3	10	
RUSTY FF 09-187			64	79	73	54	73	56	72	64	0.69	15.5	0.42	-0.1	25.2	16	80	21.4	-13.9	-4.2	16.6	11	23							
											64	79	64	73	58	54	63	72	76	56	88	73	70							
GA 110152		KW 030033 MVN 060097	91	107	90	89	106	96	95	95	92	107	99	90	105	111	95	123	109	96	110	64	88			116	102	17	38	
GA110152			87	93	81	59	68	59	79	69	0.54	5.2	0.07	-1.4	6.2	15	0	12.4	-13.7	-2.0	28.6	-16	-4							
											92	93	64	81	84	59	58	68	75	46	84	70	66							
GL 090026		GL 000088 GL 000097	100	106	104	85	89	84	86	84	100	106	100	104	106	115	110	94	77	118	72	105	108			104				
GL 090026			91	69	56	41	70	50	64	57	0.15	4.7	0.05	1.9	6.9	18	33	1.5	12.7	-7.0	8.2	4	11							
											93	69	83	56	50	41	20	22	75	51	84	22	22							
GL 120033		GL 050108 GL 030123	100	101	97	114	76	81	97	89	105	101	76	97	100	88			76	82	88							7	15	
GL 120033			80	77	72	47	66	53	69	61	-0.11	2.9	0.73	0.2	3.7	-6			13.6	1.3	16.7									
											81	77	75	72	49	47			71	45	82									
ISF 060022		FF 010136 ISF 040012	94	102	76	95	105	90	88	88	96	102	88	76	100	105	82	98	111	108	93	84	81			12		8	15	
ISF0622			84	72	77	49	81	58	72	65	0.32	3.5	0.39	-4.6	3.9	9	-29	3.1	-15.7	-4.9	19.5	-6	-9							
											85	72	77	77	53	49	26	28	87	63	92	29	28							
JS 010262		JS 940214 JS 980006	100	104	91	77	92	76	68	70	101	104	91	91	103	128	90	84	91	113	75	94	94			112	1	7	20	
ZULANA JS 01 262			94	66	70	49	78	55	68	62	0.08	4.1	0.29	-1.0	5.5	30	-9	-2.3	1.0	-5.9	9.6	-1	0							
											95	66	88	70	57	49	19	22	85	58	92	22	21							

Sires

Bull			Selection Values								Calf		Dam		Growth			Fertility				Frame		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	Scrotal Circ.	Heifer Fertility	Cow Fertility	Long-evity	Height	Length	Birth wt	Wean wt	Dgt/Calvs.	Grwth Test	
			Name																									
K 170041		Q 090045 K 120051	68	119	112	87	73	79	100	89	72	119	87	112	113	111	109	118	81	81	82	110	115	92	1			
K 170041			87	70	44	23	51	39	54	46	1.53	9.2	0.42	3.9	10.3	15	31	10.5	9.6	1.6	13.6	7	16					
											91	70	67	44	34	23	17	19	63	23	66	19	18					
LP 070198		LP 980400 LP 000043	104	80	88	117	62	57	66	59	105	80	94	88	85	85	72	72	108	58	72	84	77	124	1	4	4	
LP07198			92	50	52	30	70	44	54	49	-0.12	-4.4	0.22	-1.7	-4.0	-9	-50	-6.9	-12.6	7.0	8.1	-6	-12					
											94	50	80	52	28	30	10	11	77	46	88	11	11					
MII 130292		LEB 050540 GF 060236	118	87	98	93	55	46	56	48	127	87	87	98	89	106	98	93	82	54	76	107	101	4	3	1	2	
MII 130292			64	59	46	28	66	43	54	48	-1.22	-1.9	0.41	0.6	-1.7	10	7	1.2	8.3	7.8	10.1	6	6					
											66	59	52	46	50	28	36	41	79	40	79	42	40					
MVN 090175		T 020176 MVN 050133	96	136	135	64	93	105	110	108	102	136	56	135	143	144	144	139	101	97	90	135	146	4	134	45	127	9
MVN090175			63	92	87	67	71	62	81	72	0.00	15.5	1.31	9.3	25.2	45	109	18.7	-7.1	-2.2	17.6	19	40					
											67	92	43	87	82	67	64	73	77	53	82	75	72					
MVN 100160		MVN 030102 MVN 050133	104	108	84	110	89	90	104	97	101	108	110	84	104	93	113	152	110	95	80	67	91		82	16	65	2
MVN100160			67	92	85	73	73	63	82	72	0.07	5.6	-0.24	-2.7	5.8	-2	40	23.6	-14.2	-1.7	12.2	-14	-2					
											68	92	62	85	70	73	67	75	80	50	89	77	74					
N 070055		HW 960016 N 010026	63	142	99	80	85	91	116	104	50	142	88	99	143	122	126	107	70	100	89	140	145	90	188	35	139	
LUMKILE			89	95	92	75	78	67	87	77	2.61	17.4	0.40	0.8	25.2	25	70	6.5	18.3	-2.8	17.3	22	39					
											92	95	75	92	89	75	46	51	85	59	91	50	49					
NS 100073		SL 030002 LEB 010403	102	99	105	91	73	69	78	72	101	99	103	105	90	107	104	102	73	87	78	100	103	28	29			
NS1073 - SPARKY			77	86	42	11	47	38	57	48	0.09	2.1	-0.04	2.2	-1.4	12	20	4.4	16.2	0.1	11.4	2	7					
											83	86	47	42	67	11	16	20	54	22	66	19	18					
PH 100003		HW 020005 PH 060030	108	75	108	117	77	76	76	74	105	75	108	108	83	84			90	80	85			89		2	2	
KHAWULEZILE			92	73	59	37	69	50	65	58	-0.14	-6.3	-0.18	2.9	-4.8	-10			2.3	1.8	14.8							
											94	73	80	59	50	37			76	46	85							
PH 110041		PH 050171 PH 080098	93	120	86	117	100	109	129	121	92	120	102	86	115	85			98	112	88			1		2	3	
SONGEZILE			72	72	58	40	74	51	65	58	0.52	9.5	-0.01	-2.3	11.0	-9			-4.3	-5.7	16.9							
											77	72	47	58	56	40			87	48	87							
PH 110127		WJ 040076 PH 080178	91	109	94	116	94	102	116	109	92	109	98	94	110	86	95	92	62	113	97	99	98	125	21	1	1	
NUJOMA			90	82	53	33	66	49	66	58	0.53	5.7	0.10	-0.4	8.7	-8	0	0.7	25.7	-6.0	21.4	2	3					
											92	82	82	53	68	33	8	8	74	43	81	8	8					
PH 120075		PH 080087 PH 090080	100	93	89	126	94	97	106	102	100	93	99	89	91	74			88	102	92				1	6	10	
TEMBA			55	77	68	48	58	49	66	58	0.13	0.0	0.08	-1.4	-0.6	-19			4.0	-3.4	19.1							
											55	77	56	68	64	48			59	38	77							

Sires

Bull			Selection Values								Calf		Dam		Growth			Fertility				Frame		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	Scrotal	Heifer	Cow	Long-	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth		
			Ease Value	Grwth Value	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight		Circ.	Fertility	Fertility	evity			wt	wt		Test		
Q 070062		LP 030094 Q 010056	69	121	95	68	108	94	81	86	50	121	131	95	110	142	109	95	100	124	88	115	121			164	23	73	
Q 070062			81	93	88	63	76	63	83	73	2.61	9.9	-0.83	0.0	8.5	43	32	1.7	-6.0	-8.4	16.7	9	21						
											82	93	74	88	86	63	25	29	82	55	91	29	28						
Q 100041		SK 060038 Q 080003	62	108	133	87	123	128	119	124	63	108	83	133	110	110	99	107	92	143	101	103	108		1	8	9	14	
Q 100041			78	81	74	55	73	57	74	66	1.96	5.4	0.54	8.6	8.6	14	9	6.6	0.8	-12.9	23.6	4	11						
											80	81	66	74	66	55	25	29	80	53	87	30	28						
Q 150104		Q 120039 MVN 090116	92	120	123	75	80	86	95	89	95	120	87	123	123	127	121	114	70	89	92	129	128		12	124	15	29	1
Q 150104			74	92	78	56	66	57	77	67	0.38	9.7	0.43	6.3	15.2	30	58	9.2	18.7	-0.4	19.0	17	26						
											78	92	56	78	80	56	34	35	77	43	78	41	39						
Q 160029		Q 070062 Q 090037	63	132	117	65	117	116	106	111	56	132	86	117	129	144	114	111	100	126	103	108	126		52	141	12	19	
Q 160029			88	93	77	54	65	57	77	67	2.30	13.9	0.44	5.0	18.1	45	44	7.8	-6.3	-9.0	24.8	6	25						
											91	93	73	77	81	54	37	45	73	44	79	43	41						
Q 160036		N 070055 Q 100043	68	107	118	96	101	105	112	109	72	107	85	118	107	101	86	96	89	107	101	97	101			10	2	2	
Q 160036			62	82	66	51	61	51	68	60	1.53	5.2	0.47	5.1	7.2	6	-19	2.2	2.9	-4.5	23.6	0	6						
											63	82	55	66	68	51	28	31	72	38	72	31	30						
Q 170004		DH 100041 Q 140084	79	102	78	82	94	74	68	68	80	102	146	78	93	120	100	90	95	96	96	106	107		60	42			
Q 170004			85	89	59	42	52	48	67	58	1.11	3.3	-1.26	-4.0	0.4	23	12	0.2	-2.3	-2.0	21.1	5	10						
											90	89	59	59	60	42	7	15	57	30	70	8	8						
Q 180004		Q 150070 Q 150094	78	125	109	95	95	105	125	116	80	125	92	109	125	102	91	94	60	107	106	101	110			78	5	5	1
Q 180004			51	85	62	46	55	48	66	57	1.12	11.4	0.28	3.2	16.1	7	-8	1.5	26.6	-4.5	26.3	2	13						
											51	85	50	62	65	46	23	31	76	22	68	32	30						
Q 180035		DH 100041 Q 130074	66	123	100	76	100	93	95	93	63	123	99	100	116	129	118	119	90	100	104	117	121		2	63	7	11	
Q 180035			64	85	68	51	52	49	68	58	1.98	10.7	0.07	0.9	11.5	31	53	10.9	2.1	-3.0	25.5	11	21						
											68	85	46	68	70	51	9	10	62	29	66	10	10						
Q 190141		Q 150104 Q 160121	76	124	126	85	111	122	129	127	79	124	88	126	124	113		109	93	102	123	129	130			14			
Q 190141			47	75	56	39	43	41	57	49	1.15	11.0	0.40	7.2	15.6	17		7.2	-0.8	-3.4	35.4	16	28						
											49	75	39	56	62	39		32	50	21	59	14	11						
RN 200109		NS 100073 MFF 140002	100	100	107	92	94	90	91	90	100	100	95	107	97	106	103	100	90	95	100	102	104		3				
RN 200109			59	50	37	10	30	26	37	32	0.10	2.6	0.20	2.5	2.3	10	18	3.9	2.4	-1.6	23.1	3	8						
											63	50	40	37	37	10	12	14	31	13	46	14	13						
RT 080001		CS 010006 RT 040021	77	136	108	82	101	109	126	119	84	136	51	108	143	118	128	135	111	106	89	118	122		22	28	3	13	
RT080001			81	84	73	58	67	56	74	65	0.91	15.3	1.44	2.9	25.2	21	73	17.1	-15.2	-4.4	17.1	11	22						
											85	84	61	73	70	58	48	51	70	50	80	51	50						

Sires

Bull			Selection Values							Calf		Dam		Growth			Fertility				Frame		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	Scrotal	Heifer	Cow	Long-	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth	
			Ease	Grwth	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight		Circ.	Fertility	Fertility	evity			wt	wt		Test	
RV 150055		ISF 060022 RV 100026	118	91	61	94	100	75	66	68	117	91	98	61	90	106	94	112	98	104	96	96	97	4	47	8	9	
RV 150055			66	75	64	47	67	51	66	58	-0.72	-0.5	0.12	-8.1	-1.4	10	-2	8.2	-4.5	-3.8	21.2	0	3					
											68	75	57	64	56	47	22	24	78	46	76	24	23					
RV 160046		ISF 060022 RV 090055	111	96	64	101	113	94	86	88	109	96	107	64	92	98	83	93	102	126	94	88	86	38	2	3	3	
RV 160046			83	58	50	25	62	42	53	48	-0.32	1.1	-0.13	-7.5	-0.4	3	-26	1.1	-7.9	-9.1	20.0	-4	-5					
											89	58	52	50	41	25	11	13	72	41	74	13	13					
SK 060038		SK 980010 SK 020004	63	95	131	96	108	111	105	108	65	95	84	131	98	100	89	94	96	128	86	98	99	50	110	29	121	
SK 060038			88	93	90	71	76	65	84	74	1.87	0.8	0.49	8.1	2.7	5	-13	1.6	-3.3	-9.4	15.9	1	4					
											91	93	70	90	84	71	14	16	83	55	90	17	16					
SS 110056		CS 060021 SS 010004	120	72	122	85	100	87	60	71	122	72	87	122	76	114	103	108	69	133	81	80	83		185	33	92	
FLAKE			68	91	88	74	77	65	83	74	-0.95	-7.2	0.43	6.1	-8.1	17	18	6.9	19.9	-10.6	12.7	-8	-8					
											68	91	70	88	74	74	40	68	84	55	92	47	45					
SW 100012		SW 050028 SW 060146	121	71	148	122	80	98	99	98	122	71	91	148	73	75	92	109	75	82	97	88	74	2	146	26	89	17
SW 100012			74	93	87	72	78	65	84	74	-0.95	-7.7	0.30	12.1	-9.8	-18	-6	7.3	14.5	1.4	21.7	-4	-15					
											77	93	62	87	80	72	70	74	86	55	92	77	75					
SW 160038		SW 040048 SW 050038	111	74	124	113	101	104	90	96	108	74	108	124	68	88	56	63	83	100	112	46	74	1	75	18	38	28
SW 16 38			56	89	80	66	66	58	77	68	-0.27	-6.5	-0.18	6.6	-12.4	-7	-85	-10.1	8.1	-2.9	29.6	-25	-15					
											57	89	50	80	74	66	72	67	76	46	77	80	78					
T 030191		T 980148	124	62	108	119	56	53	53	50	126	62	113	108	64	82	75	64	70	76	62	74	64		46	11	13	1
T03191			67	90	73	51	84	61	79	70	-1.19	-10.9	-0.31	2.8	-14.4	-12	-44	-9.9	18.8	2.7	2.8	-11	-22					
											68	90	63	73	41	51	37	43	91	68	94	44	42					
T 100086		T 021201 T 040007	113	78	148	91	81	86	79	81	113	78	94	148	89	104	97	94	96	90	78	107	96	37	3	23	51	
T 100086			88	82	83	54	81	61	78	70	-0.52	-5.3	0.22	12.3	-1.6	9	6	1.5	-3.3	-0.5	11.4	5	2					
											90	82	78	83	42	54	21	24	88	62	92	25	24					
T 110378		T 050257 T 060118	106	93	65	123	80	73	87	79	106	93	153	65	87	79	106	91	99	78	86	90	80	12	10	5	8	5
T 110378			77	83	64	24	62	48	65	56	-0.19	0.2	-1.45	-7.1	-3.0	-14	26	0.5	-5.7	2.2	15.6	-3	-10					
											82	83	51	64	50	24	55	65	76	31	79	66	62					
T 120058		YZ 030009 T 040061	98	125	100	99	108	116	134	127	95	125	133	100	112	99	122	134	127	99	100	111	118	113	41	40	72	4
BIGGS T120058			93	92	87	59	81	64	83	74	0.37	11.3	-0.89	1.1	10.0	4	60	16.6	-29.1	-2.7	23.1	8	19					
											95	92	86	87	70	59	46	54	92	59	92	56	53					
T 120292		T 090008 T 090185	62	114	104	118	77	91	119	106	64	114	82	104	110	84	95	99	111	72	81	104	97	143	19			
PHUTUMILE			88	81	37	23	70	46	63	54	1.90	7.5	0.55	2.0	8.9	-10	2	3.2	-15.1	3.6	12.9	4	3					
											90	81	79	37	19	23	16	18	80	45	86	18	17					

Sires

Bull			Selection Values								Calf		Dam		Growth			Fertility				Frame		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	Scrotal	Heifer	Cow	Long-	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth
			Ease	Grwth	Value	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight		Circ.	Fertility	Fertility	evity			wt	wt	
T	150070	FF 060022 T 070261	92	95	97	94	90	81	82	80	96	95	78	97	96	104	72	94	99	92	91	90	82	3	2	2	2
T	150070		57	62	53	38	53	42	55	48	0.32	0.8	0.67	0.2	1.8	8	-50	1.5	-5.7	-0.9	18.4	-3	-8				
											61	62	37	53	26	38	25	27	56	38	66	27	27				
T	160232	PH 110041 T 070306	112	101	91	111	74	77	92	84	111	101	101	91	100	91			57	83	95			40			
T	160232		76	40	37	20	60	35	42	38	-0.42	3.0	0.04	-1.0	3.6	-3			29.5	1.1	20.7						
											86	40	24	37	28	20			77	29	73						
T	170042	T 100086 T 130006	81	95	129	98	93	98	101	99	79	95	110	128	96	98			95	86	105			15			
T	170042		74	46	44	24	48	34	44	39	1.17	0.8	-0.24	7.6	1.8	3			-1.8	0.4	25.6						
											81	46	40	44	14	24			53	28	64						
T	170157	T 110378 T 070261	75	106	76	100	105	93	97	95	74	106	140	76	99	99	102	94	116	94	106	95	91	56	13		
T	170157		82	73	46	20	48	39	54	46	1.40	4.6	-1.09	-4.6	3.2	4	16	1.5	-19.9	-1.4	26.6	-1	-2				
											91	73	38	46	28	20	29	34	52	26	65	35	33				
T	180165	T 090143 T 090281	122	103	114	106	88	98	109	104	125	103	98	114	106	94	109	109	74	98	95	108	105	6	50	3	3
T	180165		63	85	53	40	57	47	65	56	-1.14	3.8	0.11	4.2	7.0	-1	31	7.1	15.4	-2.5	20.3	6	9				
											69	85	36	53	60	40	20	28	63	37	70	23	22				
WT	120035	LP 030036 WT 070066	119	89	97	123	105	108	110	109	119	89	94	97	94	77	88	82	121	95	103	89	87	1	1	5	8
WT	120035		60	60	64	43	65	47	59	53	-0.80	-1.3	0.22	0.2	0.7	-16	-15	-3.2	-23.6	-1.7	24.8	-4	-5				
											61	60	56	64	42	43	10	12	71	43	82	12	12				

Growth Tests

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

Animal			Weight			Frame				Growth	
Test Code	Sex	Test no	Cow	Wean	End-	Length	Height	Length/ Height	Scrotum	ADG	Growth
Test station		ID	Value	dir	weight						Value
201701	D11	M									
		0583364NGI									
WILLEMSE		EW 160036	91	116	130	128	126	117	128	135	87
		84599612	49	83	24 64	27 63	15 67	1.12 65	14.6 65	88 55	67

Breeding Values and Accuracies: Bulls

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Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Values							Birth		Wean				Growth		Fertility				Frame		
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	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																									
EW 160036 84599612 EW 160036		MVN 090175 GJ 080028		106 47	116 83	120 69	70 47	92 54	91 49	87 67	88 58	111 -0.43 50	70 0.91 30	136 38 47	116 8.3 83	120 5.6 69	111 42 66	126 16.7 63	135 88 55	128 14.6 65	89 2.6 59	91 -0.7 37	101 23.9 66	126 15 67	128 27 63
RV 160046 84366681 RV 160046		ISF 060022 RV 090055		111 83	96 58	64 50	101 25	113 62	94 42	86 53	88 48	109 -0.32 89	107 -0.13 52	98 3 25	96 1.1 58	64 -7.5 50	65 -58 44	92 -0.4 41	83 -26 11	93 1.1 13	102 -7.9 72	126 -9.1 41	94 20.0 74	88 -4 13	86 -5 13
T 160232 84252451 T 160232		PH 110041 T 070306		112 76	101 40	91 37	111 20	74 60	77 35	92 42	84 38	111 -0.42 86	101 0.04 24	91 -3 20	101 3.0 40	91 -1.0 37	97 11 32	100 3.6 28			57 29.5 77	83 1.1 29	95 20.7 73		
T 170042 85669174 T 170042	8	T 100086 T 130006		81 74	95 46	129 44	98 24	93 48	98 34	101 44	99 39	79 1.17 81	110 -0.24 40	98 3 24	95 0.8 46	128 7.6 44	121 64 38	96 1.8 14			95 -1.8 53	86 0.4 28	105 25.6 64		
T 170157 85883098 T 170157		T 110378 T 070261		75 82	106 73	76 46	100 20	105 48	93 39	97 54	95 46	74 1.40 91	140 -1.09 38	99 4 20	106 4.6 73	76 -4.6 46	84 -17 46	99 3.2 28	102 16 29	94 1.5 35	116 -19.9 52	94 -1.4 26	106 26.6 65	95 -1 35	91 -2 33
XA 170023 85527711 ARCHIE XA170023	1	GA 110152 DPN 100122		84 70	112 86	104 57	87 38	112 48	108 45	106 64	107 54	88 0.74 74	85 0.48 50	112 16 38	112 6.8 86	104 2.0 57	106 32 60	115 11.4 73	97 5 30	115 9.4 35	97 -4.0 50	119 -7.2 31	103 24.6 63	84 -6 36	98 4 34
RN 200109 93012623 RN 200109		NS 100073 MFF 140002		100 59	100 50	107 37	92 10	94 30	90 26	91 37	90 32	100 0.10 63	95 0.20 40	106 10 10	100 2.6 50	107 2.5 37	102 23 32	97 2.3 37	103 18 12	100 3.9 14	90 2.4 31	95 -1.6 13	100 23.1 46	102 3 14	104 8 13
RN 210042 92853480 RN 210042	3	EX 150302 EX 180045		118 62	87 72	137 51	97 39	103 43	109 40	101 56	104 48	120 -0.88 65	83 0.52 46	99 4 39	87 -2.1 72	137 9.6 51	120 63 54	91 -0.9 46	101 14 28	131 15.5 38	97 -4.1 47	103 -3.5 26	105 25.7 56	100 2 34	102 7 32
RN 220033 93992352 RN 220033		T 170157 RN 190008		101 65	99 61	92 31	97 10	97 26	89 26	91 40	89 33	97 0.27 72	118 -0.46 32	101 6 10	99 2.3 61	92 -0.9 31	91 -2 34	96 2.0 14	103 18 14	96 2.3 17	106 -11.1 26	91 -0.8 13	101 23.5 39	104 4 17	101 6 16
RN 220083 94269586 RN 220083		Q 170004 RN 100039		88 66	105 67	94 37	86 21	89 27	79 30	82 45	79 38	84 0.93 71	121 -0.55 39	114 18 21	105 4.5 67	94 -0.3 37	93 3 42	100 3.8 30		97 2.7 7	94 -1.5 28	93 -1.3 15	90 17.7 38		
Q 230094 95576476 Q 230094		T 180165 Q 160060		95 42	110 57	98 46	95 28	97 38	96 33	105 45	100 39	96 0.31 44	95 0.18 32	103 8 28	110 6.3 57	98 0.5 46	104 28 44	109 8.0 39	101 14 12	98 3.2 15	86 5.4 42	103 -3.7 25	99 22.4 47	106 5 13	104 8 13
RN 230029 95519070 RN 230029		T 170157 RN 190035		101 64	92 36	85 23	100 10	95 25	83 20	82 28	81 24	99 0.17 70	137 -1.01 35	98 3 10	92 -0.3 36	85 -2.6 23	80 -25 23	88 -2.4 14	98 7 14	92 0.9 17	106 -11.4 26	91 -0.8 13	98 22.0 36	100 2 17	97 3 16

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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	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
ID Number Name																										
RN 230033 95704599 RN 230033	T 170157 Q 190097			81 67	112 52	70 40	104 28	94 35	86 31	100 43	92 37	77 1.26 73	121 -0.53 39	96 1	112 6.9 52	70 -5.9 40	85 -14 40	107 7.2 36	95 0 18	93 1.0 20	105 -10.2 39	87 0.1 22	99 22.8 45	91 -2 20	91 -2 20	
RN 230034 95704573 RN 230034		FHU 100097		81 66	104 20	92 21	94 13	83 30		85 23		80 1.14 71	108 -0.18 43	105 9 13	104 3.9 20	92 -1.0 21	93 3 18	99 3.5 16		88 -0.9 5	100 -6.6 33	99 -2.7 21	69 6.3 35	96 0 5		
RN 230035 95704581 RN 230035	Q 170004 RN 150758			99 67	100 47	98 37	90 21	92 28	83 27	84 37	82 32	98 0.24 72	103 -0.04 42	109 13 21	100 2.5 47	98 0.4 37	93 3 35	99 3.1 32		90 0.0 7	96 -2.5 28	92 -1.1 15	95 20.6 40			
RN 230040 95716536 RN 230040	T 170157 RN 190005			86 65	100 36	88 23	100 10	96 25	88 20	93 28	90 24	83 0.97 72	129 -0.77 32	98 3 10	100 2.7 36	88 -1.7 23	90 -3 23	96 1.6 14	98 7 14	92 0.9 17	106 -11.4 26	91 -0.8 13	99 22.7 36	100 2 17	97 3 16	
RN 230073 95879425 RN 230073	2 EX 200019 EX 190105			102 66	91 52	131 43	91 29	103 34	105 32	97 43	100 38	107 -0.23 72	73 0.82 36	105 10 29	91 -0.4 52	131 8.3 43	116 54 41	95 1.3 32	103 18 16	106 5.9 25	82 9.0 38	105 -4.1 22	110 28.5 43	93 -1 21	93 0 20	
RN 230077 95879516 RN 230077	RV 160046 RN 210011			101 68	112 46	85 36	90 21	112 39	103 30	103 39	103 34	103 0.00 74	91 0.30 38	110 14 21	112 7.0 46	85 -2.4 36	93 2 34	111 9.3 36	105 22 10	107 6.6 11	103 -9.1 46	118 -7.1 24	100 22.9 46	106 5 12	107 10 11	
RN 230116 96057344 RN 230116	T 180165 Q 190006			103 64	109 57	96 43	116 34	96 37	105 34	119 46	113 40	105 -0.13 70	89 0.37 33	86 -8 34	109 5.9 57	96 0.1 43	111 43 45	110 8.6 43	103 18 12	105 5.6 16	88 3.8 43	99 -2.6 24	101 23.7 45	103 4 14	104 8 13	
RN 230133 96140744 RN 230133	EX 200410 RV 190001			122 68	81 47	110 43	110 33	112 33	110 31	96 41	102 36	124 -1.08 73	89 0.35 40	91 -4 33	81 -4.1 47	110 3.2 43	97 11 41	86 -3.2 34	89 -14 27	102 4.5 33	97 -3.5 37	111 -5.4 21	112 29.9 42	96 0 34	92 -1 32	
RN 230135 96190046 RN 230135	EX 200019 RN 190001			115 66	87 39	126 31	97 21	93 27	96 24	92 33	93 28	118 -0.75 72	83 0.52 35	100 4 21	87 -1.9 39	126 7.1 31	112 44 30	90 -1.4 24	100 13 20	97 2.7 23	88 3.3 27	94 -1.4 18	101 23.6 37	103 3 23	99 4 22	
RN 230156 96415351 RN 230156	T 170157 Q 190073			68 68	128 51	92 39	84 26	112 35	109 31	115 41	112 36	50 2.61 74	110 -0.24 40	117 20 26	128 12.5 51	92 -1.0 39	106 32 39	120 13.9 34	98 7 17	94 1.3 20	112 -16.0 39	111 -5.4 22	104 25.5 43	96 0 21	98 3 20	
RN 240008 96992524 RN 240008	EX 200220 Q 130118			76 63	121 56	92 53	83 41	120 39	113 37	110 49	112 43	81 1.08 69	82 0.56 36	118 22 41	121 9.9 56	92 -0.9 53	100 19 50	123 15.1 46	112 39 32	97 2.8 36	118 -21.0 43	112 -5.8 26	114 30.6 47	122 13 37	119 19 35	
RN 240010 96998752 RN 240010	RV 160046 EX 210127			123 62	80 46	92 38	104 26	113 39	99 31	82 40	89 36	125 -1.13 67	100 0.04 36	96 1 26	80 -4.6 46	92 -1.0 38	77 -31 37	80 -6.3 36	79 -34 19	87 -1.3 19	98 -4.7 46	119 -7.3 25	104 25.6 46	73 -11 22	80 -10 21	

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Index EBV Acc	ID Number Name	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
RN 240012	96992599	1	EX 200220 Q 160101	62	136	100	82	118	120	128	125	50	80	119	136	100	118	133	118	106	114	109	114	125	123
RN 240012				63	55	49	39	37	35	47	41	2.61	0.61	22	15.1	1.0	57	20.5	51	6.2	-18.0	-5.1	30.9	15	23
RN 240012												70	31	39	55	49	48	43	31	36	42	25	45	37	35
RN 240014	96992888		EX 200220 Q 130084	105	119	88	79	111	101	98	99	108	84	124	119	88	93	121	117	104	112	107	107	123	124
RN 240014				64	56	52	39	38	36	48	42	-0.28	0.51	27	9.2	-1.9	4	14.1	49	5.5	-15.9	-4.4	26.8	13	23
RN 240014												71	32	39	56	52	49	47	34	39	43	26	46	40	39
RN 240015	98543747	2	EX 200410 EX 090199	116	88	81	115	122	113	100	106	114	100	87	88	81	78	88	82	101	132	119	102	91	87
RN 240015				64	53	51	28	36	33	45	39	-0.59	0.04	-7	-1.6	-3.3	-29	-2.3	-27	4.0	-32.5	-7.3	24.4	-2	-5
RN 240015												70	36	28	53	51	44	32	27	34	41	22	46	34	32
RN 240016	98515653		T 170157 T 190198	98	104	87	98	109	100	102	101	95	131	101	104	87	91	98	103	104	121	97	107	98	98
RN 240016				64	44	33	19	36	28	37	32	0.38	-0.83	5	4.0	-2.1	-1	2.8	18	5.3	-24.0	-2.1	27.0	1	3
RN 240016												70	34	19	44	33	32	23	18	21	41	22	44	22	21
RN 240017	98550601		EX 180207 FHU 150061	64	131	100	81	120	119	122	122	50	91	120	131	100	114	131	108	105	129	116	103	116	113
RN 240017				66	48	45	31	40	33	43	38	2.61	0.31	23	13.6	1.1	49	19.4	29	5.8	-30.0	-6.5	24.8	10	14
RN 240017												70	47	31	48	45	41	36	31	35	46	27	48	37	35
RN 240019	98515679		T 170157 T 190215	69	117	90	100	99	98	112	106	52	115	98	117	90	105	111	99	95	107	95	99	98	97
RN 240019				63	37	23	10	26	21	29	25	2.48	-0.38	3	8.5	-1.4	30	9.0	10	1.9	-12.4	-1.6	22.6	1	3
RN 240019												70	28	10	37	23	23	14	14	17	27	14	38	17	17
RN 240021	98516099		T 160232 Q 130012	65	128	91	87	98	96	112	105	68	90	113	128	91	108	125	104	103	83	109	95	107	106
RN 240021				66	44	45	29	41	33	41	37	1.70	0.35	16	12.6	-1.0	37	16.3	21	5.1	7.6	-5.0	20.3	6	10
RN 240021												73	31	29	44	45	39	34	10	11	49	24	49	12	11
RN 240024	98516115		EX 200220 T 190151	94	107	97	95	115	111	109	110	95	96	103	107	97	101	108	110	97	121	107	108	119	115
RN 240024				62	41	39	28	27	27	36	32	0.36	0.17	8	5.0	0.3	20	7.7	35	2.8	-23.7	-4.5	27.7	11	16
RN 240024												70	24	28	41	39	36	30	29	33	28	16	37	35	33
RN 240026	98550593		EX 180207 T 120017	62	142	115	81	110	121	137	131	50	83	120	142	115	134	139	113	108	107	112	101	120	117
RN 240026				64	51	48	32	38	34	45	40	2.61	0.54	23	17.3	4.5	92	23.4	40	7.0	-12.2	-5.7	23.5	12	18
RN 240026												69	41	32	51	48	44	38	32	36	41	26	48	38	36
RN 240028	98543721		RV 160046 EX 190255	110	104	86	86	106	92	85	87	112	86	115	104	86	84	104	100	96	93	111	103	98	95
RN 240028				66	47	39	26	41	32	41	36	-0.49	0.45	19	3.9	-2.3	-16	5.6	11	2.2	-0.4	-5.4	24.7	1	2
RN 240028												71	39	26	47	39	37	34	17	19	48	26	48	22	21
RN 240030	98516149		T 160232 FHU 160043	111	93	90	109	83	79	84	81	107	112	93	93	90	88	92			79	88	94		
RN 240030				69	32	33	14	40	26	32	29	-0.25	-0.29	-2	0.1	-1.2	-7	-0.2			11.6	0.0	20.0		
RN 240030												74	42	14	32	33	26	20			49	22	48		
RN 240035	98516404		T 160232 Q 160060	67	118	87	97	90	88	105	97	65	102	101	118	87	102	111			77	96	99		
RN 240035				63	44	42	22	39	30	39	34	1.88	-0.01	6	9.0	-2.1	23	9.5			12.5	-1.9	22.6		
RN 240035												70	29	22	44	42	36	29			48	21	48		

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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	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
ID Number Name																									
RN 240037 98516420 RN 240037		T 160232 EX 190105	80 65	108 42	105 37	97 26	90 38	92 30	103 38	97 34	84 0.94 71	87 0.41 34	100 5 26	108 5.3 42	105 2.1 37	110 39 35	107 7.4 28		101 4.3 16	70 19.0 48	97 -2.1 22	102 24.5 45	96 0 8	98 3 7	
RN 240039 98516446 RN 240039		RV 160046 RN 200023	114 65	82 29	81 25	101 12	102 33	84 22	74 28	77 25	135 -1.61 71	107 -0.13 37	98 3 12	82 -3.7 29	81 -3.3 25	70 -48 22	82 -5.0 20	88 -14 6	92 0.7 7	99 -5.4 36	107 -4.6 21	96 20.9 41	96 0 7	94 1 6	
RN 240042 98517162 RN 240042	13	T 160232 T 170165	121 63	97 25	93 27	111 8	93 33	93 21	97 26	95 24	120 -0.87 71	100 0.07 25	91 -3 8	97 1.6 25	93 -0.6 27	95 7 20				82 9.1 47	103 -3.6 8	93 19.7 45			
RN 240044 98517188 RN 240044	1	T 160232 FHU 100097	120 69	96 28	91 28	96 16	84 42	75 26	79 31	76 28	120 -0.85 74	95 0.20 45	103 7 16	96 1.1 28	91 -1.2 28	87 -10 24	96 1.5 22			80 10.7 51	92 -1.0 25	90 17.7 50			
RN 240046 98517204 RN 240046		T 170157 Q 190117	77 68	110 51	84 39	103 23	108 35	103 30	109 41	106 36	76 1.29 74	105 -0.08 40	96 1 23	110 6.1 51	84 -2.7 39	95 8 38	108 7.6 34	95 0 15	94 1.7 18	106 -10.9 39	106 -4.2 22	106 26.2 43	93 -2 18	93 0 17	
RN 240047 98517212 RN 240047		T 160232 FHU 160047	121 69	93 29	93 26	97 15	82 40	74 25	78 30	74 28	119 -0.83 74	100 0.05 42	101 6 15	93 0.3 29	93 -0.7 26	87 -10 23	93 0.4 20			71 18.0 49	95 -1.7 23	88 17.0 49			
RN 240051 98517618 RN 240051		T 160232 EX 180045	120 66	85 43	113 41	98 31	84 41	81 32	80 41	79 36	126 -1.16 72	92 0.27 36	99 4 31	85 -2.6 43	113 4.1 41	99 16 38	88 -2.1 34	96 3 19	98 2.9 21	75 14.6 50	82 1.2 25	103 25.0 49	98 1 21	92 -1 21	
RN 240053 98517634 RN 240053		RV 160046 RN 150021	112 67	80 36	74 38	108 12	100 33	81 25	71 33	74 29	137 -1.73 72	109 -0.21 42	94 0 12	80 -4.4 36	74 -5.1 38	63 -64 29	80 -6.5 24	82 -29 6	87 -1.3 7	100 -6.2 36	107 -4.4 21	92 18.7 43	91 -2 7	88 -4 6	
RN 240054 98517642 RN 240054		T 160232 RV 190019	125 66	102 34	97 37	95 21	87 38	84 28	91 34	87 31	123 -1.02 72	100 0.05 36	103 8 21	102 3.3 34	97 0.2 37	96 11 31	104 6.0 22	113 40 15	113 8.7 18	76 13.3 45	94 -1.5 22	96 21.2 47	114 9 18	114 16 17	
RN 240055 98517964 RN 240055		RV 160046 RN 190005	119 65	84 29	82 25	101 12	100 32	84 22	76 28	78 25	130 -1.37 71	105 -0.10 37	98 3 12	84 -2.9 29	82 -3.2 25	72 -43 22	84 -4.1 20	88 -14 6	92 0.7 7	99 -5.4 36	107 -4.6 21	93 19.4 40	96 0 7	94 1 6	
RN 240056 98517972 RN 240056	1	T 160232 Q 160096	106 67	105 43	91 42	91 29	85 41	78 32	86 41	81 36	106 -0.18 73	98 0.11 39	108 12 29	105 4.5 43	91 -1.1 42	93 2 38	104 5.6 31	102 16 11	97 2.5 13	74 15.5 50	97 -2.2 24	90 17.9 49	110 7 13	111 13 12	
RN 240057 98517980 RN 240057		EX 200019 WT 170025	120 67	86 46	114 41	106 26	94 37	95 31	91 40	92 36	121 -0.93 73	86 0.46 39	94 0 26	86 -2.4 46	114 4.4 41	103 25 38	88 -2.4 29	97 5 20	91 0.4 23	89 2.9 40	90 -0.6 25	105 25.8 45	94 -1 23	91 -2 22	

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Animal				Selection Values									Birth		Wean				Growth		Fertility				Frame	
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	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length		
ID Number Name																										
RN 240061 98518079 RN 240061	RV 160046 RN 150011		65 67	117 35	95 38	98 12	101 33	101 25	114 32	108 28	58 2.19 72	94 0.21 42	100 5 12	117 8.6 35	95 -0.1 38	109 38 28	112 9.8 22	92 -6 6	95 1.7 7	98 -4.6 36	108 -4.8 21	93 19.6 43	99 2 7	98 3 6		
RN 240063 98518095 RN 240063	T 160232 Q 190055		88 67	110 42	101 37	93 26	98 39	96 30	104 38	100 34	90 0.64 73	95 0.19 37	105 9 26	110 6.1 42	101 1.2 37	106 31 35	108 7.8 34	96 3 6	98 3.2 9	81 9.5 48	107 -4.5 22	99 22.4 46	100 2 9	104 8 9		
RN 240064 98518103 RN 240064	T 170157 RN 180101		98 67	97 44	87 40	101 10	95 26	86 24	89 34	87 29	93 0.48 73	124 -0.62 38	97 2 10	97 1.6 44	87 -1.9 40	87 -9 31	93 0.5 21	96 4 14	91 0.4 17	106 -11.6 26	91 -0.7 13	96 21.2 38	99 1 17	95 1 16		
RN 240065 98518111 RN 240065	T 160232 Q 180007		66 66	119 43	86 40	93 27	88 40	84 31	100 40	92 36	60 2.09 72	100 0.05 36	106 10 27	119 9.3 43	86 -2.3 40	100 18 37	110 8.9 32			71 18.1 48	96 -1.9 23	99 22.8 48				
RN 240066 98518129 RN 240066	T 160232 WT 160139		109 66	100 34	91 37	98 20	88 40	83 28	89 35	85 32	109 -0.31 72	99 0.09 37	100 5 20	100 2.7 34	91 -1.1 37	92 0 30	100 3.6 24	98 7 13	97 2.5 16	84 7.3 49	90 -0.4 23	99 22.7 48	102 3 17	101 5 16		
RN 240071 98518566 RN 240071	T 160232 RN 131008		102 66	100 29	100 34	105 10	78 30	80 22	92 28	85 25	102 0.03 72	100 0.05 35	95 0 10	100 2.6 29	100 1.1 34	102 23 24	99 3.3 14			76 13.5 39	86 0.5 14	88 16.9 38				
RN 240073 98518947 RN 240073	T 160232 EX 170236		117 66	88 43	108 42	100 31	82 41	80 32	83 41	80 36	129 -1.33 72	92 0.27 34	98 3 31	88 -1.5 43	108 3.0 42	98 15 39	94 0.9 28	106 25 17	94 1.6 19	68 20.3 49	86 0.4 24	100 23.0 49	110 7 19	107 10 19		
RN 240076 98518970 RN 240076	T 170157 RN 120389		89 66	101 42	92 37	101 10	93 26	88 24	95 33	91 28	85 0.88 72	121 -0.53 35	97 2 10	101 3.1 42	92 -0.9 37	95 7 30	98 2.8 20	96 3 14	91 0.3 17	106 -11.5 26	91 -0.8 13	93 19.2 39	98 1 17	95 1 16		
RN 240077 98518988 RN 240077	EX 200019 WT 180077		112 67	87 48	121 44	107 31	87 34	93 31	93 42	92 36	114 -0.59 73	85 0.48 39	93 -2 31	87 -1.9 48	121 5.9 44	111 42 41	88 -2.1 30	99 9 20	93 1.1 23	75 14.2 36	90 -0.5 23	101 24.0 44	95 0 23	93 -1 22		
RN 240079 98519366 RN 240079	EX 200019 RN 200016		120 66	79 51	133 36	93 24	88 35	87 30	78 41	81 36	125 -1.14 72	87 0.42 33	103 8 24	79 -4.9 51	133 8.6 36	108 37 37	83 -5.0 37	103 17 21	98 3.1 24	86 5.8 40	87 0.2 23	99 22.8 43	102 3 25	95 1 24		
RN 240080 98519374 RN 240080	T 160232 RN 190002		119 64	94 24	102 26	103 10	82 31	81 21	88 25	84 23	118 -0.77 71	99 0.08 32	95 1 10	94 0.4 24	102 1.6 26	98 15 20	95 1.0 14			76 13.8 39	86 0.4 14	95 20.4 40				
RN 240082 98519390 RN 240082	EX 200410 RN 220004	5	105 66	85 50	89 39	90 27	124 30	103 29	80 40	90 34	141 -1.90 73	95 0.19 29	110 14 27	85 -2.7 50	89 -1.5 39	74 -38 39	92 -0.3 34	106 24 28	118 10.5 35	119 -22.2 38	116 -6.5 13	117 32.4 39	105 4 36	100 5 34		

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		
Index EBV Acc	ID Number Name	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
RN 240084 98519416 RN 240084	RV 160046 RN 190001			98 66	99 29	86 25	101 12	100 32	92 22	93 28	91 25	98 0.23 72	100 0.06 39	98 3 12	99 2.2 29	86 -2.3 25	87 -10 22	97 2.2 20	88 -14 6	92 0.7 7	99 -5.4 36	107 -4.6 21	93 19.4 40	96 0 7	94 1 6
RN 240085 98519671 RN 240085	T 160232 RN 200058			118 64	86 20	95 19	106 10	80 31		77 22		132 -1.44 71	107 -0.13 29	94 0 10	86 -2.3 20	95 -0.3 19	86 -13 16	87 -2.8 14			76 13.3 39	86 0.5 14	92 19.0 40		
RN 240086 98519689 RN 240086	RV 160046 RV 190016	6		84 68	107 33	82 34	93 8	109 34	97 24	96 31	96 28	85 0.87 73	99 0.08 40	106 11 8	107 5.1 33	82 -3.2 34	87 -10 25	104 5.6 10			101 -7.4 42	116 -6.6 16	98 21.9 45		
RN 240088 98519705 RN 240088	T 160232 T 170156			115 66	85 31	89 36	114 19	85 34	80 26	82 32	79 29	135 -1.62 72	110 -0.23 35	88 -6 19	85 -2.8 31	89 -1.5 36	82 -20 29	85 -3.7 18		93 0.9 5	80 10.5 41	91 -0.9 17	93 19.6 44		
RN 240091 98519937 RN 240091	T 160232 RN 120607			120 66	93 29	102 34	105 10	80 32	81 23	87 29	83 26	119 -0.82 72	99 0.09 35	95 0 10	93 0.2 29	102 1.5 34	98 15 24	94 0.9 17			76 13.7 39	86 0.4 14	92 19.0 42		
RN 240092 98519945 RN 240092	T 160232 EX 160356			101 66	107 43	88 42	99 26	77 40	74 31	91 40	82 36	101 0.06 72	98 0.10 34	99 4 26	107 5.1 43	88 -1.8 42	95 8 37	105 6.2 26	103 18 7	96 2.1 13	73 16.0 49	79 1.9 22	96 20.9 49	117 10 12	113 15 11
RN 240094 98519960 RN 240094	EX 200019 RN 190011			121 66	83 41	126 37	97 21	93 28	93 26	86 35	88 30	125 -1.14 72	91 0.31 35	99 4 21	83 -3.5 41	126 7.0 37	108 35 33	85 -3.7 24	100 12 20	97 2.6 23	88 3.5 27	94 -1.5 18	99 22.8 38	102 3 23	99 4 22
RN 240095 98550858 RN 240095	RV 160046 EX 210334			85 66	111 46	86 36	96 24	110 39	102 30	105 40	104 35	89 0.67 72	84 0.50 37	103 8 24	111 6.3 46	86 -2.3 36	95 6 35	106 6.6 33	98 7 15	95 1.8 18	99 -5.4 46	118 -7.2 25	98 22.3 46	93 -1 18	93 0 17
RN 240097 98520216 RN 240097	RV 160046 RN 150025			98 67	98 36	78 38	103 12	102 33	90 25	90 33	89 29	97 0.29 72	105 -0.10 42	96 1 12	98 1.8 36	78 -4.2 38	80 -25 29	95 1.0 20	85 -21 6	89 -0.3 7	100 -6.0 36	107 -4.5 21	96 20.8 43	94 -1 7	92 -1 6
RN 240098 98520224 RN 240098	T 160232 RN 200036			119 64	93 20	97 19	106 10	79 31		85 22		117 -0.73 71	102 0.00 32	94 0 10	93 0.2 20	97 0.3 19	94 5 16	93 0.4 14			76 13.3 39	86 0.5 14	90 17.9 40		
RN 240102 98520265 RN 240102	EX 200410 RN 220046	1		107 67	92 50	94 35	95 25	114 31	102 29	89 39	94 34	105 -0.15 74	104 -0.06 33	103 8 25	92 -0.3 50	94 -0.4 35	86 -12 37	91 -0.7 31	91 -9 26	102 4.4 33	108 -12.5 36	112 -5.7 17	108 27.5 39	97 0 33	93 0 31
RN 240107 98520372 RN 240107	EX 200019 WT 170033			120 67	86 48	119 44	101 30	94 36	94 32	91 42	92 37	122 -0.96 73	84 0.51 39	97 2 30	86 -2.3 48	119 5.4 44	106 31 41	89 -1.9 30	100 11 20	93 1.2 23	89 3.3 39	93 -1.2 24	102 24.5 45	96 0 23	93 0 22

Breeding Values and Accuracies: Bulls

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

Inbreeding in red is high

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Breeding values with an accuracy < 5% are not printed

Animal				Selection Values									Birth		Wean				Growth		Fertility				Frame	
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	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length		
ID Number Name																										
RN 240108 98520380 RN 240108	EX 200019 Q 190093		95 67	95 53	115 43	94 31	108 36	105 33	99 44	101 38	98 0.21 73	82 0.55 39	103 7 31	95 0.9 53	115 4.5 43	107 33 42	95 1.0 40	97 4 21	100 3.6 24	92 0.5 39	113 -5.9 25	105 25.6 44	94 -1 24	94 0 23		
RN 240109 98520430 RN 240109	1 T 170157 MEN 180029		108 67	91 46	87 39	108 25	97 33	89 29	87 39	87 34	103 -0.03 73	121 -0.55 39	94 -1 25	91 -0.4 46	87 -2.1 39	83 -18 37	89 -1.8 24	95 0 14	90 -0.1 17	98 -4.2 36	95 -1.7 19	101 23.5 43	95 -1 17	90 -2 16		
RN 240111 98520455 RN 240111	EX 200410 RN 220103		105 66	79 50	104 36	93 25	117 29	101 28	80 39	89 34	141 -1.91 73	93 0.25 33	104 9 25	79 -4.9 50	104 1.8 36	83 -18 37	84 -4.5 34	91 -8 28	102 4.7 34	104 -9.9 31	115 -6.3 17	113 30.2 38	97 1 34	97 3 32		
RN 240115 98543739 RN 240115	T 170042 RN 190007		64 65	118 28	124 32	99 12	91 26	105 21	124 27	115 24	50 2.61 71	90 0.33 36	98 3 12	118 8.8 28	124 6.7 32	136 97 24	116 11.7 8		95 -2.0 27	87 0.1 14	99 22.9 37					
RN 240117 98543754 RN 240117	1 T 160232 Q 210073		64 64	131 41	102 30	102 19	87 35	100 27	129 35	116 31	53 2.46 71	92 0.27 30	97 2 19	131 13.5 41	102 1.4 30	128 80 30	127 17.3 34		69 19.6 47	92 -0.9 14	103 24.7 43					
RN 240118 98543812 RN 240118	T 160232 Q 190073		64 67	129 42	99 36	87 25	97 39	99 30	115 38	108 34	50 2.61 73	92 0.27 38	113 17 25	129 12.8 42	99 0.8 36	115 51 34	123 15.2 34	96 3 8	94 1.5 10	82 8.7 48	105 -4.2 23	99 22.5 46	101 3 11	104 8 10		
RN 240119 98524093 RN 240119	8 EX 200410 RN 220007		60 66	110 50	115 39	100 24	118 30	123 29	126 39	125 34	65 1.85 73	72 0.86 31	97 2 24	110 6.3 50	115 4.6 39	123 68 38	109 8.5 34	97 5 23	102 4.5 32	103 -8.8 38	117 -6.8 12	113 30.0 40	96 0 33	91 -2 30		
RN 240121 98524119 RN 240121	EX 200410 RN 220008		63 66	107 46	106 33	105 23	110 27	113 26	117 36	115 31	58 2.19 73	84 0.50 30	95 0 23	107 5.1 46	106 2.4 33	113 47 34	106 7.0 28	81 -29 27	99 3.3 33	104 -10.0 29	106 -4.3 16	110 28.7 36	93 -2 34	86 -5 31		
RN 240125 98524143 RN 240125	T 170157 Q 190128		68 67	132 51	93 39	100 24	110 35	118 30	138 41	129 36	50 2.61 73	107 -0.14 38	99 3 24	132 14.0 51	93 -0.5 39	121 64 38	127 17.4 34	107 27 16	104 5.3 19	121 -23.3 39	100 -2.8 22	108 27.4 43	100 2 20	101 5 19		
RN 240127 98524168 RN 240127	1 RV 160046 Q 210097		82 66	110 46	87 34	96 20	112 37	105 29	107 38	106 34	84 0.94 72	96 0.16 38	102 7 20	110 6.2 46	87 -1.9 34	96 9 33	106 6.9 36	85 -21 7	94 1.5 10	90 2.1 45	123 -8.2 23	103 24.7 44	91 -2 11	94 1 10		
RN 240128 98524176 RN 240128	RV 160046 Q 130118		68 68	116 50	76 49	97 35	107 43	98 36	106 46	102 41	70 1.61 73	95 0.21 42	102 7 35	116 8.3 50	76 -4.6 49	91 -1 45	113 10.1 41	89 -14 14	91 0.4 15	97 -3.7 49	114 -6.1 30	99 22.5 51	96 0 15	96 2 15		
RN 240133 98688856 RN 240133	T 160232 RN 220125		102 66	104 39	93 28	97 17	91 36	87 26	95 34	90 30	101 0.07 73	104 -0.06 29	101 6 17	104 4.2 39	93 -0.6 28	97 11 28	102 4.6 22		80 10.1 46	93 -1.2 18	102 24.2 44					

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Animal			Selection Values									Birth		Wean				Growth		Fertility				Frame	
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	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
ID Number Name																									
RN 250001 98688864 RN 250001		T 160232 EX 150411	116 49	88 44	101 44	102 35	94 42	89 33	85 42	86 38	116 -0.68 52	94 0.23 35	96 1 35	88 -1.6 44	101 1.2 44	92 1 41	89 -1.9 32	99 11 13	98 2.9 18	72 16.9 50	100 -3.0 25	105 25.6 50	90 -3 16	90 -2 15	
RN 250003 98860885 RN 250003	1	T 160232 Q 160058	95 48	108 45	94 44	86 32	92 41	84 33	86 42	84 38	93 0.45 52	106 -0.13 29	114 18 32	108 5.4 45	94 -0.5 44	94 5 40	104 5.6 36		79 11.2 50	100 -2.8 24	97 21.7 49				
RN 250006 99133746 RN 250006	27	Q 180035 Q 220104	65 53	116 49	102 22						60 2.08 63			116 8.4 49	102 1.4 22		110 8.8 30		87 4.2 10		104 25.3 20				
RN 250007 99181935 RN 250007	25	Q 180035 Q 220129	65 53	126 48	100 20						55 2.33 63			126 11.7 48	100 1.0 20		120 13.9 30		93 -0.7 10		107 27.0 20				
RN 250008 99327017 RN 250008		RN 200109 Q 220147	101 61	107 36	100 29	83 18	106 24	97 22	92 30	94 26	101 0.09 67	98 0.11 31	117 21 18	107 4.9 36	100 0.9 29	97 11 28	104 6.0 28	115 44 11	113 8.9 13	104 -9.6 29	101 -3.2 12	107 27.0 32	112 8 13	114 16 12	
RN 250010 99397929 RN 250010		T 170042 RN 220101	100 66	88 42	113 31	96 14	94 28	90 24	86 33	86 28	96 0.33 72	117 -0.43 33	101 6 14	88 -1.4 42	113 4.1 31	101 21 29	89 -1.7 18		95 -2.5 30	89 -0.3 16	103 24.7 39				
RN 250012 99397911 RN 250012		T 160232 RN 220093	123 66	93 40	87 28	103 18	79 36	72 26	78 34	74 30	119 -0.81 73	111 -0.26 29	96 1 18	93 0.1 40	87 -1.9 28	84 -16 29	91 -0.8 22		63 24.1 46	84 0.9 17	99 22.6 44				
RN 250013 99423147 RN 250013		Q 230092	95 59	108 27	100 25	89 17	97 18		96 24		96 0.33 66	96 0.17 24	109 13 17	108 5.3 27	100 1.1 25	101 21 23	107 7.4 22	104 21 5	101 4.3 10	100 -6.3 19	108 -4.8 11	84 14.8 23	108 6 7	109 12 6	
RN 250014 99423154 RN 250014		RN 230018	113 61	86 30	93 25	95 20	89 22	76 20	71 26	71 23	109 -0.31 68	116 -0.39 26	103 7 20	86 -2.3 30	93 -0.7 25	81 -24 25	84 -4.1 20	97 4 7	94 1.5 10	92 0.2 27	102 -3.3 13	82 13.5 26	94 -1 9	95 2 8	
RN 250015 99423162 RN 250015		RN 230007	88 60								85 0.89 68	115 -0.38 22									73 8.5 12				
RN 250016 99454159 RN 250016		RN 200109 FHU 220067	93 65	102 41	105 25	95 8	91 26	89 21	95 30	91 26	94 0.41 71	95 0.18 36	103 7 8	102 3.3 41	105 2.1 25	104 26 25	99 3.2 20	97 5 7	98 3.0 8	90 2.4 31	93 -1.3 12	97 21.6 34	99 1 8	100 5 8	
RN 250023 99482309 RN 250023		T 170042 RN 220108	78 66	103 42	108 32	97 17	94 32	94 26	100 35	97 30	77 1.25 72	108 -0.18 34	101 6 17	103 3.7 42	108 3.0 32	109 37 30	101 4.2 19			89 2.8 37	90 -0.6 18	106 26.5 41			

Breeding Values and Accuracies: Bulls

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Animal			Selection Values									Birth		Wean				Growth		Fertility				Frame	
Index EBV Acc	ID Number Name	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
	RN 250024		RV 160046	108	99	75	108	101	93	93	92	104	117	94	99	75	80	94	84	90	81	112	100	91	92
	99489635		Q 210113	46	45	33	20	36	28	37	32	-0.08	-0.42	-1	2.4	-4.8	-26	1.0	-24	0.1	9.9	-5.8	23.0	-3	-1
	RN 250024											49	33	20	45	33	33	36	7	10	44	21	44	10	9

Breeding Values and Accuracies: Cows

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

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Values							Birth		Wean				Growth		Fertility				Frame	
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	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																								
EX 090199 69777894 FISHEAGLE		CS 060073 EX 080317	91 58	105 76	61 85	120 41	115 58	107 51	111 67	110 59	88 0.69 57	111 -0.26 62	83 -11 41	105 4.3 76	61 -8.1 85	76 -34 67	98 2.6 40	80 -32 19	92 0.9 22	145 -43.6 64	115 -6.3 39	87 16.0 70	91 -3 22	90 -3 21
FHU 100097 72364169 FHU 100097		JS 010262 FHU 070003	101 87	100 40	90 41	86 27	93 60	80 37	77 45	77 41	101 0.05 87	95 0.20 86	114 18 27	100 2.7 40	90 -1.3 41	86 -13 36	98 2.9 34	91 -7 6	83 -2.7 9	102 -8.2 66	101 -3.2 43	84 14.7 70	95 -1 10	89 -4 9
RN 120095 93025542 RN 120095			89 55	102 43	120 58		85 15		100 32		93 0.49 54	84 0.50 60		102 3.5 43	120 5.6 58	118 57 34	105 6.1 14					86 15.5 42		
RN 120389 93025302 RN 120389			103 56	95 44	107 58		81 15		90 33		102 0.01 55	99 0.07 60		95 0.8 44	107 2.7 58	104 27 34	96 1.5 28					79 11.8 42		
RN 120607 93025179 RN 120607			104 61	94 43	113 58		86 15		92 33		103 -0.04 60	102 0.00 66		94 0.6 43	113 4.1 58	107 33 34	95 1.3 14					89 17.4 42		
T 120017 74948506 T 120017		T 030191 T 070850	91 61	92 57	122 63	109 26	80 49	89 39	96 51	92 45	96 0.33 60	76 0.72 65	91 -3 26	92 -0.1 57	122 6.0 63	116 54 49	96 1.7 37	87 -17 19	80 -4.0 21	85 6.3 49	84 1.0 34	90 17.9 65	92 -2 22	86 -6 21
FHU 130083 79025334 FHU 130083		LP 070198 FHU 060001	82 84	99 44	91 52	105 19	83 55	78 37	89 45	83 41	85 0.86 85	87 0.41 82	95 0 19	99 2.2 44	91 -1.1 52	93 3 38	100 3.8 22			112 -15.8 61	67 4.7 36	97 21.8 67		
Q 130012 76816545 Q 130012		RT 080001 Q 090039	63 73	139 80	92 82	73 55	121 55	116 53	115 70	116 62	70 1.59 76	68 0.95 57	134 36 55	139 16.3 80	92 -0.9 82	107 33 72	138 23.1 61	110 33 25	112 8.2 26	110 -14.2 60	135 -11.1 39	94 20.0 66	108 6 27	109 12 26
Q 130084 78121811 Q 130084		N 070055 RT 070036	72 65	136 82	80 83	84 60	82 59	80 55	106 72	93 64	76 1.32 67	88 0.40 57	117 21 60	136 15.5 82	80 -3.6 83	104 26 75	132 20.0 73	103 18 38	103 5.1 42	80 10.7 67	89 -0.4 43	89 17.4 68	106 5 42	117 18 41
Q 130118 78122140 Q 130118		N 070055 KMF 990001	61 69	127 82	89 84	93 67	100 60	99 57	116 73	109 65	59 2.17 69	76 0.72 67	106 10 67	127 12.0 82	89 -1.7 84	108 36 78	127 17.1 72	94 -1 26	89 -0.3 28	92 0.6 66	101 -3.0 44	103 25.0 69	104 4 28	107 10 28
RN 130477 93024917 RN 130477			107 61	92 51	98 66		81 8		82 35		105 -0.14 60	103 -0.03 66		92 -0.2 51	98 0.4 66	93 2 39	92 -0.1 28					80 12.3 23		
RN 131008 93379618 RN 131008			101 60	96 43	109 58		82 7		89 30		101 0.08 59	98 0.11 65		96 1.1 43	109 3.2 58	105 28 34						81 13.1 18		

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Animal				Selection Values							Birth		Wean				Growth		Fertility				Frame		
Index EBV Acc	ID Number Name	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
Q 140018	79192936		SK 060038	59	129	111	94	109	119	134	128	50	51	104	129	111	130	130	88	95	88	122	98	97	99
Q 140018	Q 110051			64	80	82	52	58	53	70	62	2.61	1.44	8	13.0	3.6	85	19.0	-15	2.0	3.9	-8.1	22.3	1	5
Q 140018												65	59	52	80	82	71	67	16	18	65	42	67	18	17
Q 140086	80086499		Q 070062	66	122	79	78	103	89	90	88	67	99	127	122	79	89	115	86	89	101	105	99	95	96
Q 140086	SK 080030			68	80	81	61	57	54	71	62	1.76	0.07	29	10.5	-3.8	-6	11.3	-18	-0.2	-6.9	-4.1	22.7	0	2
Q 140086												68	71	61	80	81	74	68	18	20	63	41	66	20	19
EX 150411	81400483	4	SS 110056	120	75	110	96	114	102	79	89	121	87	101	75	110	88	78	100	100	87	118	114	74	77
EX 150411	EX 110217			62	79	80	66	58	54	71	62	-0.93	0.42	6	-6.2	3.4	-9	-7.3	12	3.9	4.3	-7.1	30.6	-11	-13
EX 150411	DONKIE											61	66	66	79	80	75	56	27	37	65	41	68	34	32
FHU 150061	82577917		LP 070198	105	85	92	109	100	91	84	86	104	101	93	85	92	83	90	76	74	128	90	95	83	76
FHU 150061	FHU 080035			83	45	53	23	56	38	47	42	-0.07	0.04	-2	-2.7	-0.9	-19	-1.5	-40	-6.3	-29.4	-0.6	20.4	-6	-13
FHU 150061												84	80	23	45	53	40	26	11	12	64	38	66	12	12
FHU 150115	82777970	3	GL 090026	95	108	96	91	113	107	105	106	98	87	107	108	96	99	108			89	127	100		
FHU 150115	FHU 090103			81	45	36	23	55	35	44	40	0.23	0.42	12	5.6	0.1	17	7.6		2.5	-9.3	23.3			
FHU 150115												82	77	23	45	36	35	34		62	39	64			
Q 150033	81313454	1	FF 040055	64	126	94	77	100	93	97	95	69	82	127	126	94	102	118	88	114	92	116	87	86	94
Q 150033	Q 110084			64	79	78	60	58	53	70	62	1.65	0.57	30	11.7	-0.5	22	12.7	-15	9.2	0.7	-6.5	16.3	-5	0
Q 150033												65	59	60	79	78	72	72	36	39	63	45	67	40	39
RN 150005	93025054			104	94	110		87		92		103	102		94	110	105	94					91		
RN 150005				61	44	58		14		33		-0.04	0.01		0.6	3.3	28	0.8					18.6		
RN 150005												60	65		44	58	34	15					41		
RN 150011	93025260			74	111	127		88		113		82	66		111	127	130	113					93		
RN 150011				60	41	56		15		32		1.03	1.02		6.5	7.2	84	10.4					19.2		
RN 150011												59	65		41	56	33	14					42		
RN 150018	93024982			125	76	81		88		67		125	138		76	81	67	74					94		
RN 150018				61	51	66		15		37		-1.13	-1.01		-5.8	-3.5	-55	-9.5					20.1		
RN 150018												60	66		51	66	39	28					44		
RN 150019	93025070			96	99	125		90		99		98	92		99	125	118	101					95		
RN 150019				47	41	56		15		31		0.24	0.29		2.4	6.8	58	4.4					20.6		
RN 150019												46	52		41	56	33	13					42		
RN 150021	93024875			122	83	84		86		75		115	123		83	84	76	80					89		
RN 150021				61	44	58		15		33		-0.63	-0.61		-3.3	-2.7	-35	-6.1					17.5		
RN 150021												60	65		44	58	34	28					42		
RN 150025	93025146			102	94	92		90		88		101	100		94	92	90						97		
RN 150025				61	43	58		15		33		0.05	0.05		0.4	-0.8	-4						21.5		
RN 150025												60	66		43	58	34						42		

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ID Number Name																									
RN 150190 93025039 RN 150190			88 53	103 31	118 45		88 15		101 26		92 0.54 52	83 0.55 59		103 3.7 31	118 5.2 45	117 55 26						92 19.1 42			
RN 150758 93025088 RN 150758			77 54	109 31	117 45		89 14		112 25		85 0.88 53	67 0.98 60		109 5.6 31	117 4.9 45	123 68 26		112 9.8 27				94 20.0 40			
EX 160146 83919340 EX 160146	2	AZ 110054 EX 140440	92 62	98 78	129 78	92 65	121 56	123 53	113 69	118 61	97 0.27 62	74 0.80 65	105 9 65	98 2.0 78	129 7.8 78	120 62 74		98 2.8 54	107 26 39	81 -3.6 48	117 -20.4 64	124 -8.4 39	103 24.6 65	102 3 47	102 6 45
EX 160356 83857722 EX 160356	6	EX 060330 EX 110244	97 60	111 76	85 74	92 48	81 54	74 49	88 65	80 57	98 0.24 59	95 0.20 65	108 12 48	111 6.4 76	85 -2.5 74	92 1 66		109 8.1 45	107 27 17	96 2.3 27	89 2.5 62	76 2.7 34	96 21.1 66	128 16 26	122 21 24
EX 160515 83858308 EX 160515	1	MVN 100160 EX 130101	113 61	96 77	88 75	117 61	107 56	107 52	107 68	107 60	109 -0.33 61	113 -0.31 64	85 -9 61	96 1.2 77	88 -1.8 75	92 1 71		92 -0.5 46	88 -15 37	107 6.3 42	109 -13.7 63	108 -4.6 39	100 23.3 66	68 -14 43	84 -7 41
FHU 160041 83339887 FHU160041		PH 100003 FHU 040045	112 84	80 51	93 54	117 24	111 58	104 40	91 50	97 45	109 -0.32 84	111 -0.25 82	85 -9 24	80 -4.5 51	93 -0.6 54	83 -19 43		83 -4.7 33	81 -31 12	83 -2.8 14	115 -19.0 66	107 -4.4 42	104 25.1 66	83 -6 14	80 -10 14
FHU 160043 83405324 FHU160043		PH 100003 FHU 060051	125 83	79 50	90 54	105 23	92 54	79 38	71 48	73 43	119 -0.81 84	120 -0.52 80	95 0 23	79 -4.6 50	90 -1.4 54	76 -35 42		81 -5.9 30		100 -6.3 62	92 -1.1 37	93 19.3 64			
FHU 160047 83449546 FHU160047		GL 090026 FHU 060063	101 84	96 42	94 36	89 23	90 54	78 35	74 43	74 39	99 0.16 84	106 -0.11 81	111 15 23	96 1.2 42	94 -0.4 36	86 -11 34		94 0.8 31		86 -1.6 8	85 6.6 61	107 -4.6 38	82 13.3 64	97 0 9	92 -1 8
Q 160058 83700054 Q 160058		Q 070062 Q 090068	78 59	115 80	96 80	71 62	110 57	95 54	81 70	87 62	76 1.32 60	112 -0.29 55	137 39 62	115 7.8 80	96 0.1 80	92 1 74		108 7.6 66	96 3 15	94 1.4 17	101 -7.1 65	116 -6.7 41	99 22.7 66	99 2 17	101 6 16
Q 160060 83700070 Q 160060		DH 100041 Q 130128	65 55	117 78	82 75	88 39	106 52	96 47	101 64	98 56	67 1.77 55	93 0.25 54	112 16 39	117 8.8 78	82 -3.1 75	93 3 64		111 9.1 52	93 -3 12	88 -0.7 13	98 -4.6 58	108 -4.9 34	103 24.6 63	105 4 13	102 7 13
Q 160096 84288703 Q 160096		N 070055 GF 030148	69 74	121 77	91 76	79 54	96 57	87 52	91 68	88 60	70 1.61 74	103 -0.02 74	124 27 54	121 10.0 77	91 -1.1 76	97 13 69		116 11.7 55	105 22 26	98 3.2 29	91 1.6 63	111 -5.5 41	85 15.2 67	114 9 29	118 18 28
Q 160101 84288745 Q 160101		N 070055 Q 130016	59 62	133 79	105 76	91 62	95 56	103 53	127 69	116 61	57 2.26 63	58 1.23 55	107 11 62	133 14.2 79	105 2.2 76	126 75 72		131 19.5 62	105 22 26	107 6.6 33	84 6.7 65	95 -1.7 40	105 25.7 64	111 7 29	115 17 28

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ID Number Name																									
Q 160105		N 070055		70	123	99	91	86	88	108	98	69	107	108	123	99	112	118	108	97	86	93	89	121	121
84288786		Q 140032		69	76	71	49	55	49	65	57	1.65	-0.15	12	10.7	0.7	45	13.0	29	2.5	5.7	-1.3	17.3	12	21
Q 160105												69	68	49	76	71	65	54	23	25	62	38	64	25	25
Q 160137		N 070055		89	115	87	94	103	98	106	102	85	119	105	115	87	98	110	104	98	93	107	102	112	111
85013399		FF 100132		73	78	79	59	58	53	70	62	0.85	-0.48	9	7.8	-1.9	14	8.7	21	3.0	-0.6	-4.6	24.0	8	13
Q 160137												73	74	59	78	79	72	56	33	36	65	43	66	36	35
RN 160001				104	94	113		88		91		103	102		94	113	106						93		
93024909				55	33	45		14		26		-0.04	0.01		0.6	4.0	31						19.2		
RN 160001												54	60		33	45	26						41		
WT 160062	1	WT 120035		107	96	101	116	109	113	114	114	109	85	86	96	101	105	100		85	133	84	116	91	
85091841		WT 120120		65	44	52	23	50	35	44	40	-0.35	0.49	-8	1.3	1.3	28	3.6		-2.0	-33.5	1.0	31.8	-3	
WT 160062												64	68	23	44	52	40	30		5	59	31	61	5	
EX 170212		EX 120209		96	96	91	95	108	97	91	93	98	88	103	96	91	87	98	98	87	94	106	112	98	90
85061836		CS 090016		63	77	73	59	58	52	68	60	0.23	0.38	7	1.3	-1.2	-10	2.9	8	-1.2	-1.0	-4.4	29.6	1	-3
LIESBET OTTO												63	66	59	77	73	70	58	39	40	66	42	66	45	44
EX 170236		EX 120209		104	92	126	93	90	91	90	90	104	94	104	92	126	112	100	113	93	79	89	104	114	110
85111540		EX 090118		62	77	75	57	55	51	67	59	-0.10	0.23	8	-0.3	7.0	45	3.8	41	1.3	11.0	-0.4	25.4	9	12
SHANKY												61	65	57	77	75	70	48	35	39	62	37	65	40	38
Q 170015		SK 060038		70	107	119	97	114	119	120	120	76	72	100	107	119	121	110	99	102	113	121	96	103	99
85316735		MVN 090087		59	79	79	65	57	54	70	62	1.30	0.83	5	5.2	5.4	65	8.8	9	4.6	-17.4	-7.8	20.8	4	4
Q 170015												60	56	65	79	79	74	64	22	25	65	41	65	25	24
Q 170036		SK 060038		64	116	96	83	105	98	98	97	65	92	118	116	96	101	115	91	90	97	114	96	100	100
85316669		Q 110052		73	78	78	58	55	52	68	60	1.84	0.28	21	8.2	0.1	20	11.1	-8	0.1	-4.0	-6.2	20.9	2	5
Q 170036												73	72	58	78	78	71	62	14	16	62	39	63	16	15
Q 170038		SK 060038		64	123	148	66	111	120	109	114	51	90	140	123	148	134	127	124	117	94	128	93	128	131
85316685		Q 110059		62	77	76	57	56	52	68	60	2.53	0.32	41	10.7	12.3	94	17.5	66	10.4	-1.2	-9.5	19.5	16	29
Q 170038												63	56	57	77	76	70	62	17	11	62	40	65	20	19
T 170156		T 090270		113	86	87	117	96	92	90	90	109	131	85	86	87	84	84	92	90	103	100	91	95	95
85883049				62	49	61	33	32	34	45	40	-0.33	-0.82	-9	-2.1	-2.0	-18	-4.4	-5	0.0	-8.5	-2.8	18.4	0	1
T 170156												61	66	33	49	61	48	20	10	12	29	17	50	11	11
T 170165		PH 110041		105	103	95	111	111	113	113	113	103	104	91	103	95	101	101			106	124	92		
85883171		LP 090098		68	55	62	35	53	42	53	48	-0.04	-0.07	-3	3.5	-0.2	21	4.1		-11.4	-8.4	18.7			
T 170165												68	67	35	55	62	51	32		60	37	63			
WT 170025		GL 120033		111	93	85	116	88	85	91	87	111	94	87	93	85	86	94			97	81	100		
85229227		WT 090039		68	51	56	28	52	39	49	44	-0.42	0.23	-7	0.2	-2.5	-12	0.6		-3.8	1.5	23.1			
WT 170025												67	70	28	51	56	45	34		59	37	61			

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ID Number Name																								
WT 170033 86722956 WT170033		GL 120033 WT 100027	109 68	95 56	94 64	110 38	88 51	87 42	92 53	89 48	110 -0.38 67	90 0.33 70	92 -3 38	95 0.8 56	94 -0.5 64	93 4 53	96 1.8 39			96 -3.0 58	86 0.3 33	95 20.4 61		
WT 170041 86549714 WT170041		GL 120033 WT 110082	96 64	103 55	116 63	96 34	103 52	107 41	109 52	108 46	101 0.07 64	75 0.77 67	101 6 34	103 3.8 55	116 4.6 63	115 51 51	105 6.3 34			94 -1.6 59	101 -3.2 36	108 27.4 60		
EX 180045 87162129 KOFFIE		SW 100012 EX 080203	118 67	77 76	135 72	90 58	93 57	91 51	77 67	82 59	119 -0.83 67	89 0.37 68	107 11 58	77 -5.4 76	135 9.2 72	107 34 69	82 -5.1 62	93 -3 39	100 3.8 44	93 -0.4 65	82 1.3 40	111 29.3 65	90 -3 44	81 -9 42
EX 180220 86921731 PLATINUM DONKIE		EX 120209 EX 070508	81 66	112 77	129 73	86 54	115 59	122 52	120 68	121 60	88 0.71 66	58 1.23 68	111 15 54	112 6.9 77	129 7.7 73	127 77 68	118 12.9 66	111 36 39	119 11.2 43	90 1.9 67	118 -7.0 44	115 31.0 66	103 4 43	106 9 42
EX 180520 87145306 ANNY		MVN 100160 EX 140234	113 63	106 76	88 69	112 57	93 54	96 50	106 65	101 58	108 -0.26 62	119 -0.48 66	91 -4 57	106 4.6 76	88 -1.8 69	98 14 67	102 4.7 61	98 7 36	123 12.6 40	101 -7.4 62	89 -0.4 36	98 22.1 63	80 -8 41	92 -1 40
MEN 180029 87493722 MEN 180029		PH 120075 MEN 140016	111 65	86 57	97 64	113 48	89 46	86 42	86 54	85 48	108 -0.30 64	108 -0.16 68	89 -6 48	86 -2.3 57	97 0.4 64	91 -2 56	85 -3.8 40	87 -16 10	85 -1.8 12	79 11.5 50	96 -2.0 31	95 20.4 56	94 -1 13	89 -3 12
Q 180007 86869021 Q 180007		DH 100041 Q 120125	64 67	118 76	80 71	82 51	102 52	89 49	90 65	88 57	60 2.09 67	88 0.38 69	120 23 51	118 8.9 76	80 -3.6 71	89 -7 66	108 7.6 58	96 2 12	90 -0.1 13	84 6.7 58	109 -5.0 37	103 24.9 61	106 5 13	104 8 13
Q 180051 87369245 Q 180051	1	CVL 140013 Q 160058	77 68	106 71	93 64	80 48	107 50	93 46	83 61	87 54	78 1.22 68	98 0.12 70	122 25 48	106 4.9 71	93 -0.6 64	89 -5 61	104 5.6 56	91 -8 10	93 1.3 12	99 -5.1 56	106 -4.3 37	108 27.3 57	91 -2 12	95 1 12
Q 180075 87707022 Q 180075		CVL 140013 LRC 150005	67 71	127 72	105 68	92 40	130 51	134 46	138 61	138 54	74 1.40 70	71 0.86 74	106 10 40	127 12.2 72	105 2.1 68	122 67 60	130 18.8 52	117 49 18	118 10.6 20	132 -32.7 56	125 -8.6 39	110 28.6 58	108 6 21	115 16 20
RN 180013 93025351 RN 180013			99 61	97 51	115 66		87 13		96 37		100 0.12 60	94 0.24 66		97 1.7 51	115 4.4 66	110 41 39	99 3.3 28					90 17.9 38		
RN 180101 93024941 RN 180101			108 61	91 51	99 66		84 13		84 37		105 -0.13 60	109 -0.19 65		91 -0.5 51	99 0.7 66	93 3 39	90 -1.5 33					86 15.8 38		
RV 180004 86707056 RV 180004	1	FB 130106 RV 150027	89 66	108 51	105 62	88 32	113 51	109 40	106 50	108 45	94 0.44 65	79 0.64 68	110 14 32	108 5.6 51	105 2.2 62	105 30 48	107 7.3 35	102 17 12	105 5.8 14	107 -11.8 57	107 -4.6 38	112 29.9 58	99 2 14	100 5 13

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Name		Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value														
WT 180053 86710878 WT18053		GL 120033 WT 090055	90 68	104 60	98 70	115 48	103 52	108 45	115 57	112 51	96 0.32 67	73 0.82 70	87 -7 48	104 4.0 60	98 0.4 70	107 34 59	105 6.1 42			101 -6.8 58	100 -2.9 36	105 25.7 61		
WT 180077 87062311 WT180077		GL 120033 WT 120067	103 68	93 58	98 64	118 43	76 45	80 41	92 53	85 47	105 -0.11 67	91 0.32 70	84 -10 43	93 0.2 58	98 0.5 64	100 18 55	93 0.1 36			70 18.8 49	80 1.7 29	93 19.4 58		
EX 190105 88562962 EX 190105	4	EX 150321 EX 160448	83 60	102 73	118 64	88 47	106 49	105 45	100 60	102 52	91 0.59 59	66 1.01 63	109 13 47	102 3.2 73	118 5.3 64	112 44 61	106 6.8 49	99 9 12	108 6.7 33	82 8.4 58	111 -5.4 34	110 28.4 54	86 -5 19	92 -1 17
EX 190241 88578364 PEDI RICO		EX 120209 EX 050101	98 63	95 75	117 68	76 48	112 56	101 49	79 64	88 56	99 0.15 63	93 0.24 65	126 29 48	95 0.8 75	117 5.0 68	98 13 64	103 5.1 56	107 27 36	76 -5.3 43	89 3.3 62	114 -6.2 41	114 30.6 64	105 5 41	100 5 40
EX 190255 88695705 MOOI LESUNDU	9	EX 120209 EX 150103	76 57	124 74	108 60	73 46	98 52	96 46	96 61	95 54	83 0.97 57	73 0.82 59	132 34 46	124 11.1 74	108 2.8 60	109 38 60	124 15.9 54	117 48 33	99 3.2 37	84 7.2 63	95 -1.7 32	112 29.4 61	108 6 42	105 8 39
Q 190055 88975438 Q 190055	3	Q 160029 Q 170021	70 70	117 74	111 64	82 47	121 50	119 46	113 62	116 54	73 1.45 70	89 0.38 70	118 21 47	117 8.5 74	111 3.5 64	112 46 62	115 11.4 62	94 -3 17	102 4.5 21	105 -10.6 58	131 -10.2 34	102 24.2 57	93 -2 21	104 8 20
Q 190073 89131965 Q 190073		Q 160029 Q 170036	59 71	128 74	107 63	71 46	120 50	115 46	106 61	111 54	50 2.61 71	66 1.00 72	135 37 46	128 12.4 74	107 2.6 63	110 40 61	126 16.6 62	93 -3 21	93 1.2 24	107 -12.1 58	128 -9.5 36	102 24.4 56	96 0 24	105 8 23
Q 190093 89132153 Q 190093		CVL 140013 Q 150039	63 68	112 73	86 62	95 47	116 51	107 46	108 61	107 54	65 1.85 68	87 0.42 70	104 8 47	112 6.8 73	86 -2.2 62	95 8 61	107 7.3 64	86 -18 13	95 2.1 15	103 -8.4 57	126 -9.0 37	99 22.7 58	86 -5 15	93 0 15
Q 190097 89132195 Q 190097		DH 100041 RV 060069	79 67	119 75	65 66	110 50	82 52	79 48	103 63	91 56	79 1.17 67	101 0.02 67	93 -1 50	119 9.4 75	65 -7.2 66	88 -9 64	115 11.4 64	87 -16 21	91 0.4 22	93 -0.5 60	81 1.7 36	92 18.9 61	88 -4 22	90 -2 22
Q 190101 89132237 Q 190101	1	Q 160036 RT 100056	96 66	98 74	113 62	92 47	110 52	108 46	102 62	104 54	98 0.21 65	87 0.42 68	105 9 47	98 2.0 74	113 4.1 62	107 33 61	104 5.7 56	80 -32 19	91 0.2 21	112 -16.1 61	113 -5.8 38	99 22.5 57	86 -5 21	86 -5 20
Q 190117 89768840 Q 190117		CVL 140013 Q 140018	60 68	120 74	92 63	108 39	111 49	116 44	127 60	123 52	63 1.95 68	73 0.82 70	94 -1 39	120 9.6 74	92 -0.9 63	112 44 59	120 13.9 64	88 -15 11	95 1.8 13	95 -1.9 57	117 -6.9 35	105 25.7 56	91 -3 13	95 1 13
Q 190122 89767925 Q 190122	1	CVL 140013 Q 150018	78 65	110 74	82 63	114 47	102 50	103 46	113 61	108 54	80 1.13 65	93 0.24 67	89 -5 47	110 6.1 74	82 -3.1 63	97 13 61	104 5.5 64	88 -16 19	106 5.9 21	106 -10.9 57	99 -2.6 36	102 24.5 58	85 -5 21	93 0 20

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ID Number Name																								
Q 190128 89767958 Q 190128		CVL 140013 LRC 150005	59 64	133 72	111 63	99 42	116 50	130 45	138 60	136 52	66 1.79 64	58 1.24 67	98 3 42	133 14.4 72	111 3.5 63	137 99 59	138 22.7 63	112 37 18	114 9.1 20	125 -26.7 59	106 -4.3 36	109 28.2 56	104 4 21	110 13 20
RN 190001 93025484 RN 190001			95 55				87 10				96 0.30 54	91 0.31 60										92 18.7 28		
RN 190002 93025385 RN 190002			105 55	94 27	114 37		89 10		92 21		104 -0.07 54	102 -0.02 60		94 0.5 27	114 4.2 37	106 32 22						94 20.2 28		
RN 190005 93025195 RN 190005			114 48				87 10				110 -0.38 47	114 -0.33 52										92 18.7 28		
RN 190007 93025401 RN 190007			67 55	115 32	120 45		89 11		120 25		75 1.38 54	55 1.32 60		115 8.0 32	120 5.7 45	130 85 26						94 20.2 30		
RN 190011 93025468 RN 190011			109 55	92 30	108 42		86 11		87 24		106 -0.19 54	107 -0.15 60		92 -0.4 30	107 2.8 42	100 19 24						89 17.0 31		
RN 190025 93025211 RN 190025			119 55	85 32	86 45		88 11		74 25		113 -0.53 54	120 -0.50 60		85 -2.8 32	86 -2.3 45	77 -33 26						92 19.1 31		
RN 190035 93025377 RN 190035			127 53				86 11				123 -1.02 52	135 -0.93 58										89 17.3 30		
RV 190001 88273974 RV 190001		Q 100041 RV 110014	73 68	103 58	118 66	111 51	98 48	108 44	116 56	113 50	74 1.39 68	97 0.15 70	90 -5 51	103 3.7 58	118 5.1 66	123 69 58	103 5.2 44	93 -4 11	95 2.0 14	83 7.7 53	99 -2.6 33	107 26.9 59	100 2 14	100 5 13
RV 190016 89068720 RV 190016	1	FB 130106 RV 160053	92 62	106 43	101 53	86 28	104 45	96 35	93 43	94 39	96 0.34 62	84 0.51 65	114 18 28	106 4.6 43	101 1.1 53	98 14 41	107 7.1 22	98 7 7	99 3.3 10	101 -6.8 50	105 -4.1 30	101 23.8 55	93 -1 10	95 2 10
RV 190019 89069082 RV 190019		FF 090187 RV 130081	101 65	116 56	102 64	85 37	101 47	99 41	104 52	101 46	99 0.18 64	107 -0.16 68	115 19 37	116 8.3 56	102 1.4 64	106 32 52	119 13.1 33	127 71 32	131 15.4 36	96 -2.8 47	105 -4.2 33	97 21.7 60	121 13 37	124 23 35
T 190151 89061923 T 190151		T 090086	95 35	96 31	99 45	124 18	90 17	98 21	112 28	106 24	95 0.38 34	102 -0.02 39	75 -18 18	96 1.3 31	99 0.9 45	109 38 31				98 -4.9 6		93 19.3 41		

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ID Number Name	% Inbreeding	Sire ID Dam ID																						
T 190184 89106603 T 190184		T 150089	119 40	82 20	90 22	100 14	91 33	77 20	71 24	72 22	115 -0.60 40	133 -0.89 43	99 4	82 -3.7 20	90 -1.2 22	77 -32 19	80 -6.5 12	91 -7 8	91 0.5 10	94 -1.7 32	92 -1.0 20	95 20.5 46	96 0 10	95 1 10
T 190198 89159495 T 190198		T 120058 T 130041	113 58	106 50	97 47	96 33	112 55	109 39	109 48	109 44	107 -0.22 58	124 -0.62 57	102 7	106 4.6 50	97 0.4 47	101 20 43	99 3.4 36	103 19 24	114 9.1 28	126 -28.2 65	100 -2.9 37	108 27.3 62	102 3 29	104 8 27
T 190215 89169205 T 190215		T 160345	70 36	112 17	103 9		92 22				75 1.38 35	81 0.60 40		112 6.7 17	103 1.8 9	113 48 10				98 -4.9 15	96 -1.8 10	91 18.6 41	101 3 5	
EX 200265 90937780 STEENBOK	3	EX 170210 EX 150004	96 57	122 61	90 58	77 48	136 48	125 42	112 55	118 48	96 0.34 57	99 0.07 58	128 30 48	122 10.5 61	90 -1.4 58	96 10 56	124 15.6 50	135 90 39	135 17.0 42	145 -43.5 55	114 -6.3 32	125 36.9 56	128 16 43	128 26 42
FHU 200041 90480377 FHU200041		PH 110127 FHU 160051	93 76	106 48	101 32	106 21	90 43	94 31	106 41	100 36	96 0.33 78	87 0.43 69	94 0	106 4.7 48	101 1.2 32	108 36 34	109 8.5 38	97 6 8	92 0.6 9	73 16.0 47	102 -3.4 29	95 20.3 54	97 1 10	97 3 9
RN 200016 92760933 RN 200016		MII 130292 T 170099	120 57	79 66	122 38	92 20	76 48	71 36	67 49	67 42	120 -0.86 57	96 0.16 57	105 9	79 -4.9 66	122 6.0 38	98 15 41	83 -4.7 56	98 8 15	93 1.1 19	90 2.1 61	74 3.1 28	89 17.1 56	103 4 19	95 2 18
RN 200023 93379469 RN 200023			117 47				91 10				112 -0.50 46	117 -0.44 54										98 21.8 29		
RN 200036 93379444 RN 200036			108 54				84 11				106 -0.18 53	107 -0.14 60										85 15.1 30		
RN 200058 93379634 RN 200058			120 48				86 10				115 -0.60 47	121 -0.54 52										89 17.3 28		
EX 210127 91832303 ICE DONKIE		SW 160038 EX 150411	120 49	72 72	119 56	108 46	113 47	109 43	87 58	97 50	119 -0.81 49	99 0.07 50	93 -2 46	72 -7.3 72	119 5.5 56	97 11 58	74 -9.4 60	76 -41 36	80 -3.7 36	94 -1.4 57	111 -5.4 30	115 31.1 54	59 -19 41	73 -15 40
EX 210334 92042399 BOND KOLKOP	4	AZ 110054 EX 190105	69 54	122 71	108 53	90 42	106 47	111 42	122 57	117 50	77 1.26 54	60 1.18 55	108 12	122 10.5 71	108 2.9 53	120 63 55	117 12.5 52	113 41 28	97 2.5 34	96 -2.9 57	110 -5.3 29	102 24.5 56	98 1 34	99 4 32
Q 210058 92290394 Q 210058	1	Q 180004 Q 190023	99 54	103 72	101 49	85 36	113 42	104 39	93 54	98 46	96 0.34 54	133 -0.88 57	115 19	103 3.6 72	101 1.2 49	96 9 52	101 4.2 62	89 -11 9	89 -0.6 14	90 1.9 56	120 -7.5 21	108 27.5 50	97 1 16	103 8 14

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Q 210073 92290543 Q 210073	6	Q 180004 Q 180120	59 52	135 72	112 48	95 33	100 39	114 37	138 53	128 45	66 1.80 52	68 0.96 55	102 7 33	135 14.8 72	112 3.8 48	136 98 51	136 21.8 61			81 9.7 55	100 -3.0 16	110 28.7 47		
Q 210097 92519222 Q 210097	2	Q 180004 Q 190013	63 55	122 72	111 46	92 33	111 42	116 38	125 53	122 46	65 1.83 55	84 0.49 58	106 10 33	122 10.3 72	111 3.6 46	123 69 50	119 13.2 62	88 -15 13	95 1.9 18	78 12.2 56	119 -7.3 21	112 29.4 50	94 -1 19	103 7 17
Q 210113 92519370 Q 210113		Q 180004 LRC 180048	104 40	103 68	87 43	113 32	89 36	91 34	101 49	96 42	99 0.17 40	127 -0.70 43	89 -5 32	103 3.8 68	87 -2.1 43	96 9 48	97 2.4 58	85 -22 11	88 -0.9 16	59 27.6 51	98 -2.5 12	105 25.9 45	93 -1 16	97 3 15
RN 210005 92852417 RN 210005		RV 150055 RV 170043	77 71	108 67	98 43	93 33	97 48	92 39	98 53	95 46	83 0.97 73	75 0.76 59	105 9 33	108 5.3 67	98 0.5 43	101 21 48	109 8.1 58	97 6 12	107 6.3 14	91 0.9 59	97 -2.2 31	103 24.6 53	101 3 14	103 7 14
FHU 220061 94036316 FHU220061		T 120292 FHU 160043	91 74	95 68	100 33	116 16	81 47	85 35	96 49	90 42	91 0.55 76	98 0.12 62	86 -8 16	95 0.8 68	100 1.0 33	102 23 39	95 1.1 18	85 -21 7	86 -1.4 8	99 -5.7 57	80 1.8 29	87 16.4 56	94 -1 8	86 -6 8
FHU 220067 94062775 FHU220067		K 170041 FHU 130059	93 74	102 66	103 33	99 14	89 41	88 32	96 46	92 39	94 0.44 77	95 0.20 60	99 4 14	102 3.2 66	103 1.6 33	104 26 38	99 3.4 20	91 -8 8	96 2.1 9	89 2.5 53	92 -1.0 21	94 20.1 49	96 0 9	96 2 9
FHU 220089 94274321 FHU220089		T 120292 FHU 150061	76 74	103 68	97 32	114 17	92 48	96 35	107 49	102 42	78 1.19 76	93 0.25 62	88 -6 17	103 3.7 68	97 0.3 32	105 30 39	102 4.9 16	86 -18 9	86 -1.4 11	127 -28.7 58	84 0.9 30	88 16.8 56	94 -1 11	87 -5 10
Q 220104 94014420 Q 220104	3	Q 180035 Q 170014	64 53	107 71	104 51	87 39	101 39	94 39	94 54	94 46	66 1.81 55	92 0.28 46	112 16 39	107 5.1 71	104 1.8 51	102 23 54	103 5.1 60			85 6.3 51	106 -4.4 17	103 25.1 48		
Q 220129 94160694 Q 220129		Q 180035 Q 180054	63 53	124 70	100 48	87 33	108 40	107 37	115 52	112 44	61 2.04 54	84 0.52 46	113 17 33	124 11.1 70	100 1.0 48	112 44 50	122 14.6 59	105 23 7	105 5.8 8	97 -3.5 51	106 -4.2 22	110 28.6 46	107 5 8	110 13 8
Q 220130 94160702 Q 220130		Q 180035 RT 070058	88 46	108 72	107 56	80 38	95 41	89 40	87 55	87 48	88 0.72 47	102 0.00 40	121 24 38	108 5.6 72	107 2.6 56	102 23 55	105 6.1 63	108 29 11	107 6.4 12	92 0.4 44	99 -2.6 27	95 20.7 51	104 4 12	106 10 12
Q 220147 94691151 Q 220147		Q 180035 EX 200265	83 50	120 52	93 45	76 34	118 39	107 34	100 44	103 39	83 0.99 51	105 -0.09 48	128 31 34	120 9.7 52	93 -0.7 45	97 11 44	117 12.1 42	127 71 19	127 13.9 21	118 -21.5 50	108 -4.7 21	114 30.9 46	123 13 22	125 24 21
RN 220004 93580827 RN 220004	2	EX 170210 EX 180522	86 67	120 70	77 56	77 45	122 49	105 44	95 58	100 51	84 0.92 71	114 -0.33 49	128 31 45	119 9.5 70	77 -4.4 56	84 -16 57	121 14.2 49	127 71 41	127 14.0 43	128 -29.7 62	108 -4.8 31	116 32.1 54	117 11 45	115 16 44

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ID Number Name																								
RN 220007 93614139 RN 220007	6	AZ 110054 EX 180220	65 69	119 71	129 56	94 44	109 50	122 44	132 59	129 52	74 1.44 72	51 1.44 56	102 7 44	119 9.2 71	129 7.7 56	138 101 57	119 13.4 52	110 33 33	95 1.9 36	96 -2.8 61	111 -5.4 30	107 27.2 58	99 2 39	98 3 38
RN 220008 93414787 RN 220008		T 150070 RN 150015	65 65	107 57	110 32	100 19	95 30	98 28	109 41	104 34	73 1.47 69	57 1.26 47	98 3 19	107 5.1 57	110 3.4 32	115 52 36	110 8.7 14	78 -36 12	89 -0.5 13	99 -5.2 28	89 -0.3 19	103 24.7 43	94 -1 14	88 -4 13
RN 220010 93614121 RN 220010	6	AZ 110054 EX 170236	91 68	97 70	118 57	102 45	97 49	101 44	104 58	102 51	95 0.36 71	81 0.60 55	96 1 45	97 1.6 70	118 5.1 57	115 50 57	98 2.5 49	107 27 31	79 -4.2 34	92 0.3 60	96 -2.0 28	103 24.6 58	102 3 38	96 2 36
RN 220012 93676302 RN 220012	2	Q 150104 Q 190117	78 66	119 70	107 50	91 33	97 40	101 38	113 53	108 46	83 0.95 71	79 0.66 44	108 12 33	119 9.2 70	107 2.7 50	117 54 51	121 14.1 50	99 11 14	101 4.1 15	83 7.8 46	103 -3.5 25	102 24.1 49	106 5 19	107 10 18
RN 220024 93921609 RN 220024		T 170157 RN 190012	100 68	97 55	87 30	99 10	98 27	89 25	89 37	88 31	97 0.28 73	133 -0.89 45	99 4 10	97 1.5 55	87 -1.9 30	86 -12 32	92 -0.1 14	100 11 14	94 1.4 17	105 -10.6 26	92 -0.9 13	103 24.8 41	101 3 17	98 4 16
RN 220027 93992287 RN 220027		Q 160029 MFF 140002	75 69	115 68	113 49	79 29	111 37	108 36	103 51	105 44	78 1.20 73	87 0.42 49	123 25 29	115 7.8 68	113 4.1 49	111 42 49	115 11.2 44	105 23 21	102 4.7 25	103 -9.0 39	114 -6.1 23	104 25.2 49	103 4 24	113 15 23
RN 220031 93992337 RN 220031		T 170157 RN 190002	90 66	106 55	93 30	97 10	99 26	94 25	100 37	96 31	86 0.80 72	119 -0.49 35	102 6 10	106 4.6 55	93 -0.6 30	97 12 32	102 4.6 14	103 19 14	96 2.4 17	104 -9.9 26	92 -1.1 13	104 25.5 38	104 4 17	101 6 16
RN 220037 94269594 RN 220037		T 170157 RN 190036	79 64	103 65	91 32	105 10	96 26	92 27	99 41	95 34	75 1.34 71	119 -0.48 28	95 0 10	103 3.6 65	91 -1.2 32	96 9 36	99 3.3 14	93 -4 14	88 -0.6 17	106 -11.6 26	91 -0.7 13	99 22.5 39	96 0 17	92 -1 16
RN 220039 94269529 RN 220039		Q 170004 RN 120389	99 67	97 68	93 41	93 21	90 29	79 31	80 46	78 38	94 0.42 72	123 -0.58 42	106 10 21	97 1.4 68	93 -0.6 41	88 -7 43	93 0.3 33		86 -1.4 7	96 -2.8 28	92 -1.0 15	91 18.6 43		
RN 220046 94269511 RN 220046		Q 170004 NH 170029	76 71	111 70	86 43	86 28	102 42	90 37	90 52	89 44	73 1.45 74	117 -0.44 54	115 18 28	111 6.5 70	86 -2.2 43	90 -3 47	103 5.5 34	97 5 9	95 1.7 13	105 -10.3 52	102 -3.3 23	98 22.2 50	101 2 12	102 7 11
RN 220050 93346690 RN 220050	2	EX 180037 EX 170212	96 67	103 58	106 51	96 41	113 45	112 39	109 51	110 45	97 0.27 70	96 0.18 50	101 6 41	103 3.7 58	106 2.5 51	106 32 50	101 4.1 43	114 42 36	116 9.8 37	91 1.1 58	108 -4.8 26	121 34.3 51	124 14 42	106 10 40
RN 220065 93359032 RN 220065	1	Q 150104 Q 190128	77 65	134 71	115 50	85 35	108 45	118 40	134 55	128 48	84 0.89 69	65 1.05 44	114 17 35	134 14.5 71	115 4.5 50	131 86 52	138 22.8 56	117 50 18	115 9.5 19	107 -12.4 58	102 -3.2 27	108 27.6 50	118 11 22	120 20 21

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Heifer Fertility																								
Cow Fertility																								
Longevity																								
Height																								
Length																								
RN 220079	Q 170004																							
94269453	EX 160515	89	99	84	99	104	93	93	92	86	133	99	99	84	85	92	89	95	102	101	105	83	91	
RN 220079		68	72	48	37	42	39	55	47	0.81	-0.88	4	2.3	-2.7	-14	-0.2	-12	1.7	-8.2	-3.2	25.8	-6	-2	
										73	43	37	72	48	52	38	18	22	53	24	50	22	21	
RN 220082	Q 160029	65	126	110	78	102	103	109	106	69	90	124	126	110	116	122	109	105	96	109	97	110	119	
94269321	RN 131008	69	69	48	27	33	35	50	42	1.67	0.35	27	11.7	3.4	53	14.7	33	5.6	-2.8	-4.9	21.3	7	19	
RN 220082										73	49	27	69	48	48	40	19	22	36	22	42	21	21	
RN 220088	Q 160029	78	118	110	80	107	105	105	105	80	90	122	118	110	111	116	106	102	96	108	105	108	116	
94269263	RN 180002	71	69	48	27	35	35	51	43	1.10	0.33	25	9.1	3.3	43	11.7	26	4.7	-3.3	-4.8	26.1	6	17	
RN 220088										74	56	27	69	48	48	42	19	22	36	22	48	21	21	
RN 220089	T 170157	69	111	98	100	99	99	111	105	71	99	98	111	98	108	109	98	93	105	92	104	100	97	
94269164	RN 190007	66	65	32	10	26	27	41	34	1.58	0.09	3	6.7	0.6	36	8.3	8	1.0	-10.6	-0.9	25.5	2	3	
RN 220089										72	35	10	65	32	36	14	14	17	26	13	38	17	16	
RN 220093	Q 170004	96	97	84	97	84	72	78	73	92	129	102	97	84	83	91		85	70	85	103			
94269396	WT 180077	72	70	43	31	40	37	52	44	0.50	-0.77	6	1.7	-2.8	-20	-0.7		-1.8	18.7	0.6	24.6			
RN 220093										75	54	31	70	43	48	34		7	50	21	49			
RN 220101	Q 170004	105	87	98	94	95	83	75	77	100	127	104	87	98	85	85		85	96	92	101			
94269552	RN 180013	70	69	44	21	29	32	48	40	0.11	-0.70	9	-2.1	0.6	-14	-3.6		-1.9	-3.2	-1.0	23.9			
RN 220101										74	53	21	69	44	45	33		7	28	15	45			
RN 220102	Q 160029	84	114	107	79	106	101	98	99	82	108	123	114	107	106	110	108	103	96	108	104	109	117	
94269255	RN 120607	71	69	48	27	35	35	51	43	1.00	-0.18	26	7.7	2.7	31	9.0	29	5.0	-3.2	-4.8	25.3	7	18	
RN 220102										74	57	27	69	48	48	42	19	22	36	22	48	21	21	
RN 220103	Q 160029	96	103	106	83	108	100	91	95	94	107	117	103	106	99	101	98	96	99	107	108	102	109	
94269248	RN 160763	71	68	44	27	35	34	50	42	0.40	-0.15	20	3.8	2.3	16	4.5	8	2.3	-5.1	-4.4	27.5	3	12	
RN 220103										74	55	27	68	44	46	40	19	22	36	22	48	21	21	
RN 220104	Q 160029	89	111	91	83	107	96	92	93	85	125	119	111	91	93	104	100	97	98	107	106	103	110	
94269271	RN 150018	72	70	51	27	35	36	52	44	0.89	-0.66	22	6.6	-1.2	2	5.9	11	2.7	-4.8	-4.5	26.4	3	13	
RN 220104										75	57	27	70	51	49	43	19	22	36	22	48	21	21	
RN 220106	Q 160029	75	113	114	81	104	102	101	101	77	95	120	113	114	111	111	103	100	97	108	101	105	113	
94269305	RN 150005	69	69	48	27	35	35	50	42	1.25	0.20	23	7.2	4.3	43	9.4	18	3.6	-4.1	-4.6	23.8	5	15	
RN 220106										73	49	27	69	48	48	42	19	22	36	22	46	21	21	
RN 220109	Q 160029	78	108	103	84	107	100	96	97	77	105	116	108	103	101	105	96	94	99	106	107	100	107	
94269297	RN 150025	71	69	48	27	35	35	51	43	1.25	-0.09	19	5.6	1.7	20	6.5	3	1.6	-5.6	-4.3	27.1	2	10	
RN 220109										74	57	27	69	48	48	40	19	22	36	22	48	21	21	
RN 220112	T 170157	94	103	88	93	112	101	97	98	91	113	105	103	88	89	101	98	95	117	102	111	93	92	
94276367	RV 190016	71	66	35	16	39	32	46	39	0.58	-0.31	10	3.7	-1.9	-6	4.1	8	2.0	-20.0	-3.3	29.0	-2	-1	
RN 220112										75	50	16	66	35	39	16	13	17	52	18	46	17	16	

Breeding Values and Accuracies: Cows

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

Inbreeding in red is high

Value <80 Value >120

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Animal				Selection Values							Birth		Wean				Growth		Fertility				Frame	
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	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																								
RN 220115 94276243 RN 220115		Q 170004 BBC 170133	87 67	101 69	91 43	100 28	89 33	83 34	91 49	86 42	82 1.00 72	124 -0.62 42	99 4 28	101 3.1 69	91 -1.2 43	93 3 47	95 1.3 34	92 -7 9	89 -0.3 11	91 1.1 33	90 -0.5 18	96 20.9 47	102 3 10	98 3 10
RN 220117 94326337 RN 220117		Q 160029 T 170126	80 68	106 52	115 46	81 33	99 42	95 35	90 46	91 40	83 0.98 72	90 0.32 46	120 23 33	106 4.7 52	115 4.6 46	107 34 44	105 6.3 43	97 4 20	94 1.5 23	95 -1.7 47	99 -2.8 28	102 24.0 51	96 0 23	104 8 22
RN 220122 94660784 RN 220122		T 170157 RV 190001	76 68	108 68	96 40	102 27	103 34	102 33	110 49	106 41	73 1.45 74	117 -0.42 40	96 1 27	108 5.5 68	96 0.0 40	104 27 45	104 5.7 26	100 11 15	97 2.5 18	99 -5.3 37	97 -2.2 20	110 28.6 45	100 2 18	98 3 17
RN 220125 94384880 RN 220125		Q 170004 WT 170041	92 72	108 67	95 43	89 27	107 41	99 36	98 50	98 43	90 0.60 75	108 -0.16 54	111 15 27	108 5.5 67	95 -0.2 43	97 11 46	104 5.6 34		91 0.4 5	104 -9.2 52	102 -3.4 23	108 27.7 49		
RN 220129 94492139 RN 220129		Q 170004 Q 160137	95 70	101 72	84 49	92 36	100 38	87 38	86 54	85 46	91 0.55 74	133 -0.87 47	108 12 36	101 3.0 72	84 -2.6 49	84 -17 52	96 1.8 40	94 -1 17	88 -0.8 19	95 -2.4 42	101 -3.1 25	102 24.2 48	103 3 19	102 6 18
RN 220139 94621828 RN 220139		T 170157 RN 190001	82 66	105 36	92 23	100 10	96 25	92 20	99 28	95 24	79 1.18 72	117 -0.43 35	98 3 10	105 4.3 36	92 -0.8 23	97 12 23	101 4.2 14	98 7 14	92 0.9 17	106 -11.4 26	91 -0.8 13	99 22.7 36	100 2 17	97 3 16
T 220086 93939312 T 220086		T 190198	114 52	92 25	89 24	100 16	97 30	87 21	85 26	85 24	110 -0.38 51	136 -0.96 55	99 3 16	92 -0.2 25	89 -1.5 24	84 -16 22	87 -3.0 18	98 8 12	103 5.1 14	112 -16.6 32	99 -2.6 19	89 17.1 38	99 2 14	102 6 14
T 220277 94245370 T 220277		T 190151	97 18	94 62	97 23	119 9	79 9		95 33		95 0.39 17	108 -0.19 20	83 -11 9	94 0.4 62	97 0.2 23	100 18 31						68 5.9 22		
Q 230024 94985405 Q 230024		EX 180207 Q 090004	59 49	142 72	109 58	74 45	118 44	122 42	127 57	126 50	50 2.61 50	60 1.19 43	130 32 45	142 17.4 72	109 3.0 58	123 69 58	143 25.2 56	118 51 35	132 15.9 39	96 -2.7 48	123 -8.2 31	111 29.1 52	119 12 41	126 24 39
Q 230028 94985447 Q 230028		EX 180207 Q 130118	60 53	142 59	100 56	77 44	125 45	127 40	131 52	130 46	50 2.61 53	70 0.90 52	127 29 44	142 17.4 59	100 1.1 56	119 59 53	143 25.2 50	117 48 33	113 8.8 38	121 -23.7 56	124 -8.4 29	108 27.5 50	127 15 39	128 26 37
Q 230036 94985520 Q 230036		EX 180207 Q 120125	59 41	142 70	109 57	69 44	127 42	128 41	123 56	126 48	50 2.61 42	57 1.28 37	139 41 44	142 17.4 70	109 3.1 57	119 61 57	143 25.2 53	130 79 33	123 12.4 37	107 -12.3 46	129 -9.6 30	114 30.5 51	140 22 39	141 36 37
Q 230041 95212460 Q 230041		EX 180207 MVN 090116	66 41	132 71	121 57	76 44	116 43	122 41	125 56	125 48	72 1.51 42	79 0.64 37	127 30 44	132 14.0 71	121 5.9 57	127 78 57	134 21.0 53	127 71 36	125 13.4 41	115 -18.5 47	113 -5.9 31	107 26.9 52	132 18 42	128 26 40

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Animal				Selection Values							Birth		Wean				Growth		Fertility				Frame	
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	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																								
Q 230068 95576211 Q 230068	T 180165 Q 160034	87 44	116 58	110 48	93 37	100 40	105 36	116 48	111 42	90 0.63 46	88 0.39 32	104 9 37	116 8.3 58	110 3.3 48	119 59 48	116 11.6 45	107 28 15	103 4.8 19	86 5.1 45	102 -3.4 27	105 25.8 48	111 8 17	111 13 17	
Q 230079 95576328 Q 230079	T 180165 Q 150015	95 44	115 58	112 47	84 32	101 40	102 35	105 47	103 41	94 0.41 46	103 -0.02 34	116 19 32	115 7.9 58	112 3.7 47	113 47 46	115 11.3 46	108 30 10	104 5.2 14	90 2.3 44	109 -4.9 27	98 21.9 48	109 6 13	110 12 12	
Q 230089 95576427 Q 230089	T 180165 FF 100132	122 44	99 72	105 51	111 37	102 43	108 39	111 55	110 47	119 -0.81 46	105 -0.10 36	91 -4 37	99 2.4 72	105 2.2 51	108 36 53	101 4.2 48	101 14 25	103 5.0 29	91 1.4 46	103 -3.7 31	105 25.8 53	101 2 28	96 2 27	
Q 230092 95576450 Q 230092	Q 190141 Q 130012	73 51	129 55	108 49	79 33	120 35	121 33	121 45	122 39	78 1.24 52	82 0.55 48	124 27 33	129 12.9 55	108 2.8 49	117 54 46	129 18.2 43	115 45 9	110 7.7 19	102 -7.5 38	119 -7.3 21	116 31.7 46	118 11 13	120 20 12	
Q 230097 95576500 Q 230097	T 180165 Q 170026	106 43	101 58	117 47	98 37	93 40	98 36	104 48	101 42	107 -0.23 45	91 0.31 31	99 3 37	101 2.9 58	117 5.0 47	116 53 47	104 6.0 44	101 14 12	105 5.8 16	88 4.1 44	106 -4.2 28	88 16.6 48	101 2 14	99 5 14	
Q 230122 95722484 Q 230122	Q 190141 RV 060069	72 46	137 71	90 53	94 36	103 39	109 38	134 54	123 46	75 1.34 47	88 0.39 42	104 9 36	137 15.7 71	90 -1.4 53	118 58 53	133 20.5 52	111 36 20	108 6.8 27	96 -3.2 42	92 -1.1 25	116 31.6 50	110 7 23	116 17 22	
Q 230139 95762514 Q 230139	T 180165 Q 170038	87 45	113 57	132 46	82 35	100 39	107 35	109 47	108 41	88 0.70 47	94 0.22 33	117 20 35	113 7.2 57	132 8.4 46	127 77 46	117 12.3 43	117 48 13	113 8.7 15	84 7.1 44	113 -6.0 27	94 19.9 47	118 11 15	118 19 14	
RN 230001 94656279 RN 230001	Q 170004 NH 170071	86 67	107 52	88 40	85 23	88 37	76 31	79 42	76 36	82 1.02 72	122 -0.56 43	116 19 23	107 5.0 52	88 -1.8 40	88 -8 38	101 4.3 32	104 20 11	98 2.9 14	85 6.1 40	94 -1.5 24	92 19.0 46	106 5 13	108 11 13	
RN 230007 94693884 RN 230007	RN 200023	92 65				91 8				89 0.68 69	114 -0.35 45										92 19.1 23			
RN 230008 94693918 RN 230008	RN 200072	97 58				77 6				95 0.36 66	106 -0.13 20										66 5.1 17			
RN 230009 94693926 RN 230009	RN 200055	96 59	97 22	99 11		77 14				94 0.42 67	107 -0.16 22		97 1.4 22	99 0.9 11	97 12	93 0.2 16		94 1.7 5	91 0.8 14	93 -1.2 5	70 6.8 24	100 2 5		
RN 230011 94694049 RN 230011	Q 170004 T 120017	92 67	96 52	100 43	92 25	87 35	80 31	81 43	79 37	90 0.64 72	111 -0.26 44	106 10 25	96 1.4 52	100 1.0 43	94 5 40	94 0.8 34	94 -2 10	85 -1.9 13	90 2.0 37	90 -0.5 22	93 19.5 47	99 1 12	96 2 11	

Breeding Values and Accuracies: Cows

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

Inbreeding in red is high

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Animal		Selection Values									Birth		Wean				Growth		Fertility				Frame	
Index EBV Acc																								
ID																								
Number																								
Name																								
% Inbreeding																								
Sire ID																								
Dam ID																								
Calv. Ease V																								
Calf Growth V																								
Milk V																								
Maint. V																								
Fertility V																								
Cow Value																								
Growth Value																								
Prod. Value																								
Birth wt dir																								
Birth mat																								
Mature wt																								
Wean wt																								
Wean mat																								
Cow-Calf Ratio (Wean)																								
Postwean wt																								
ADG																								
Scrotal Circ.																								
Heifer Fertility																								
Cow Fertility																								
Longevity																								
Height																								
Length																								
RN 230013		Q	160029																					
94694072		Q	180051																					
RN 230013																								
RN 230018		Q	170004																					
94888765		EX	150411																					
RN 230018																								
RN 230037		T	170157																					
95717831		Q	190128																					
RN 230037																								
RN 230042		EX	200220																					
95743373		WT	160062																					
RN 230042																								
RN 230058		EX	200220																					
95879334		EX	180503																					
RN 230058																								
RN 230062		EX	200410																					
95879375		Q	170036																					
RN 230062																								
RN 230069		EX	200019																					
95879466		RN	120389																					
RN 230069																								
RN 230071		EX	200019																					
95879441		Q	180007																					
RN 230071																								
RN 230075		EX	200019																					
95879474		FHU	130083																					
RN 230075																								
RN 230082		EX	200410																					
95958377		Q	160001																					
RN 230082																								
RN 230089		EX	200019																					
95958369		EX	170236																					
RN 230089																								
RN 230090		EX	200019																					
95958351		T	170156																					
RN 230090																								

Breeding Values and Accuracies: Cows

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Animal		Selection Values									Birth		Wean				Growth		Fertility				Frame	
Index EBV Acc																								
ID																								
Number																								
Name																								
% Inbreeding																								
Sire ID																								
Dam ID																								
Calv. Ease V																								
Calf Growth V																								
Milk V																								
Maint. V																								
Fertility V																								
Cow Value																								
Growth Value																								
Prod. Value																								
Birth wt dir																								
Birth mat																								
Mature wt																								
Wean wt																								
Wean mat																								
Cow-Calf Ratio (Wean)																								
Postwean wt																								
ADG																								
Scrotal Circ.																								
Heifer Fertility																								
Cow Fertility																								
Longevity																								
Height																								
Length																								
RN 230093	EX 200220																							
95958286	WT 170025	106	104	90	90	114	104	98	100	107	91	109	104	90	90	106	109	92	120	103	112	113	109	
RN 230093		67	46	42	29	36	31	41	36	-0.22	0.31	13	4.0	-1.3	-3	6.8	31	0.8	-23.2	-3.5	29.6	8	12	
										73	38	29	46	42	39	34	29	33	41	24	44	35	33	
RN 230099	EX 200220																							
96012570	WT 170036	105	104	99	88	115	107	100	103	106	90	111	104	99	97	105	116	99	121	110	105	118	115	
RN 230099		66	47	45	32	36	32	42	37	-0.18	0.32	15	4.1	0.8	11	6.5	47	3.5	-23.8	-5.2	25.9	11	16	
										72	36	32	47	45	41	32	29	33	39	24	44	35	33	
RN 230101	EX 200019																							
96012596	RN 150021	120	83	114	102	93	91	85	86	118	102	96	83	114	99	83	94	92	89	93	100	97	93	
RN 230101		66	44	42	21	28	27	37	32	-0.77	0.00	1	-3.5	4.3	17	-5.0	-2	0.7	2.5	-1.3	23.0	1	0	
										72	37	21	44	42	36	28	20	23	27	18	39	23	22	
RN 230113	EX 200019																							
96063359	RN 190002	112	88	129	96	94	97	93	94	113	91	101	88	129	114	90	102	98	88	94	102	104	100	
RN 230113		66	41	36	21	27	25	34	30	-0.52	0.31	5	-1.7	7.7	49	-1.5	17	3.2	3.8	-1.5	24.4	4	5	
										72	35	21	41	36	33	24	20	23	27	18	37	23	22	
RN 230117	EX 200019																							
96063383	Q 180075	92	105	124	93	115	120	117	119	97	76	104	105	124	122	108	112	111	106	112	110	105	105	
RN 230117		68	53	46	29	36	33	44	38	0.27	0.74	8	4.4	6.7	67	7.5	38	7.9	-11.6	-5.7	28.6	4	9	
										73	41	29	53	46	43	34	22	25	38	26	44	25	24	
RN 230126	EX 200019																							
96140777	RN 150011	107	93	135	94	94	100	99	99	112	70	102	93	135	123	96	104	100	88	95	101	105	102	
RN 230126		66	44	42	21	28	27	37	32	-0.48	0.89	6	0.0	9.2	68	1.8	20	3.7	4.1	-1.6	23.8	5	7	
										72	37	21	44	42	36	26	20	23	27	18	39	23	22	
RN 230131	EX 200410																							
96140736	RN 130477	122	81	100	107	104	96	84	89	125	96	94	81	100	86	85	88	99	104	105	99	98	92	
RN 230131		66	44	43	21	24	26	36	31	-1.10	0.17	-1	-4.1	0.9	-12	-3.9	-15	3.3	-9.3	-4.1	22.5	1	-1	
										72	38	21	44	43	36	30	26	33	25	14	33	33	31	
RN 230132	EX 200410																							
96140827	RN 150005	114	79	106	106	107	100	86	91	133	93	94	79	106	90	83	88	99	103	106	105	98	93	
RN 230132		66	43	41	21	25	26	35	30	-1.49	0.24	0	-4.9	2.4	-5	-4.6	-14	3.5	-8.5	-4.2	25.7	1	0	
										72	38	21	43	41	35	28	26	33	25	14	36	33	31	
RN 230137	EX 200410																							
96190038	Q 180051	116	86	97	92	117	102	83	91	116	92	107	86	97	83	89	88	101	104	114	113	92	90	
RN 230137		68	51	42	32	33	32	42	37	-0.69	0.28	11	-2.3	0.4	-18	-1.8	-15	4.2	-9.9	-6.3	30.0	-2	-3	
										73	40	32	51	42	42	39	26	33	37	22	41	33	31	
RN 230142	T 180165																							
96190095	Q 210058	119	101	107	93	101	100	99	99	115	114	105	101	107	104	103	99	99	82	109	101	103	104	
RN 230142		64	56	36	27	35	31	43	37	-0.63	-0.35	9	3.1	2.7	28	5.0	10	3.2	8.6	-5.0	23.9	3	8	
										70	34	27	56	36	40	44	10	15	42	21	42	14	13	
RN 230144	T 180165																							
96190111	Q 210073	108	113	113	99	94	104	118	112	111	79	98	113	113	122	117		104	77	99	102	107	108	
RN 230144		64	56	36	26	34	31	43	37	-0.45	0.64	3	7.3	4.0	67	12.4		5.3	12.5	-2.7	24.5	5	11	
										70	33	26	56	36	39	43		12	42	18	42	9	8	
RN 240002	T 170157																							
96415377	RN 200058	96	96	87	100	95	86	87	85	93	131	98	96	87	86	92	98	92	106	91	98	100	97	
RN 240002		65	36	23	10	25	20	28	24	0.48	-0.82	3	1.1	-2.0	-13	-0.3	7	0.9	-11.4	-0.8	22.0	2	3	
										72	32	10	36	23	23	14	14	17	26	13	36	17	16	

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Animal				Selection Values							Birth		Wean				Growth		Fertility				Frame		
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	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																									
RN 240003		EX 200220		69	123	103	82	126	123	119	122	72	89	118	123	103	111	122	109	100	111	121	118	117	117
96415385		Q 210097		64	52	39	29	32	30	41	36	1.50	0.37	22	10.6	1.7	42	14.7	32	3.9	-15.2	-7.9	32.8	10	18
RN 240003												71	32	29	52	39	40	43	29	34	38	18	40	35	34
RN 240004		T 170042		92	94	116	99	88		93		90	109	98	94	116	109	94			95	87	95		
96415401		RN 200036		65	23	22	12	26		23		0.62	-0.20	3	0.5	4.7	38	0.9			-2.3	0.1	20.4		
RN 240004												71	36	12	23	22	19	8			27	14	37		
RN 240013		EX 200220		120	99	91	89	115	103	92	97	128	101	110	99	91	87	101	108	97	101	111	115	116	114
96992607		Q 210113		61	51	38	29	30	29	40	34	-1.29	0.02	14	2.2	-1.1	-11	4.2	29	2.5	-7.5	-5.5	31.0	10	16
RN 240013												68	26	29	51	38	39	42	29	34	37	16	38	35	33
RN 240018		T 170157		108	90	83	100	98	84	80	81	104	134	99	90	83	77	87	97	93	105	93	101	95	93
98515661	2	T 190184		62	37	24	9	28	21	29	25	-0.10	-0.92	4	-0.9	-2.9	-31	-2.9	4	1.0	-10.8	-1.2	23.6	0	0
RN 240018												69	27	9	37	24	23	8	7	13	30	13	40	13	12
RN 240023		T 160232		74	110	105	103	94	99	112	106	77	90	96	110	105	114	109	99	99	85	102	95	105	101
98516107		Q 170015		64	44	43	34	41	33	42	38	1.25	0.33	1	6.2	2.2	49	8.3	9	3.3	6.0	-3.4	20.7	4	6
RN 240023												71	30	34	44	43	40	35	10	11	50	25	49	12	11
RN 240025		EX 200410		116	82	113	99	108	102	89	94	129	88	98	82	113	97	87	94	104	102	106	107	103	98
98566748		RN 150019		46	42	40	21	25	25	34	30	-1.34	0.38	3	-3.9	4.1	11	-2.8	-1	5.2	-7.8	-4.4	26.7	3	4
RN 240025												49	32	21	42	40	34	28	26	33	25	14	37	33	31
RN 240027		RV 160046		108	107	77	88	125	108	97	102	107	102	113	107	77	80	106	109	114	123	120	110	108	107
98516123		EX 200265		66	42	38	27	39	30	39	34	-0.22	0.00	17	5.2	-4.4	-25	7.0	32	9.1	-25.7	-7.7	28.5	6	11
RN 240027												71	39	27	42	38	36	32	20	22	45	26	47	22	22
RN 240029		T 160232		94	107	121	84	93	94	95	94	96	92	115	107	121	114	110	112		75	106	94	117	117
98516131		Q 170038		64	43	42	30	41	32	41	36	0.33	0.27	19	5.0	5.8	49	8.7	37		14.1	-4.2	20.1	11	18
RN 240029												71	30	30	43	42	38	34	6		49	25	49	9	8
RN 240031		RV 160046		65	117	90	101	101	101	115	108	55	96	98	117	90	106	113	88	91	99	107	94	96	94
98516362		RN 150758		66	33	34	12	33	24	31	28	2.34	0.16	3	8.8	-1.3	32	10.1	-15	0.5	-5.3	-4.6	20.0	0	0
RN 240031												71	39	12	33	34	26	24	6	7	36	21	42	7	6
RN 240032		RV 160046		119	81	78	101	100	80	70	73	133	117	98	81	78	66	80	88	92	99	107	92	96	94
98516370		RN 190035		66	29	25	12	33	22	28	25	-1.50	-0.43	3	-4.2	-4.0	-56	-6.3	-14	0.7	-5.4	-4.6	18.7	0	1
RN 240032												71	39	12	29	25	22	20	6	7	36	21	41	7	6
RN 240033		EX 200019		107	75	115	99	93	86	76	79	139	95	98	75	115	93	78	98	96	89	93	101	101	97
98516388		RN 190025		66	42	38	21	28	26	35	30	-1.82	0.20	3	-6.1	4.5	3	-7.3	8	2.1	2.7	-1.3	23.8	3	3
RN 240033												72	35	21	42	38	34	24	20	23	27	18	38	23	22
RN 240034		EX 200019		105	80	116	107	103	101	91	95	140	91	93	80	116	100	82	97	105	95	104	105	84	89
98516396	2	EX 160515		66	54	48	35	37	35	46	40	-1.88	0.32	-1	-4.5	4.7	18	-5.5	6	5.7	-2.1	-3.7	25.9	-6	-3
RN 240034												72	36	35	54	48	46	31	23	28	41	24	46	28	27

Breeding Values and Accuracies: Cows

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Animal		Selection Values									Birth		Wean				Growth		Fertility				Frame	
Index EBV Acc																								
ID																								
Number																								
Name																								
% Inbreeding																								
Sire ID																								
Dam ID																								
Calv. Ease V																								
Calf Growth V																								
Milk V																								
Maint. V																								
Fertility V																								
Cow Value																								
Growth Value																								
Prod. Value																								
Birth wt dir																								
Birth mat																								
Mature wt																								
Wean wt																								
Wean mat																								
Cow-Calf Ratio (Wean)																								
Postwean wt																								
ADG																								
Scrotal Circ.																								
Heifer Fertility																								
Cow Fertility																								
Longevity																								
Height																								
Length																								
RN 240036	T 160232																							
98516412	Q 150033	86	114	92	90	87	83	96	89	88	92	109	114	92	100	109	93	105	74	99	91	96	99	
RN 240036		65	44	43	32	42	33	42	38	0.74	0.29	13	7.7	-0.8	19	8.5	-3	5.5	15.1	-2.7	18.5	0	4	
										72	32	32	44	43	40	38	17	19	50	26	50	19	18	
RN 240038	T 160232																							
98516438	Q 170036	109	100	94	94	90	83	87	84	110	91	105	100	94	92	101		93	77	99	96	103	102	
RN 240038		67	44	43	31	40	32	41	36	-0.38	0.30	9	2.8	-0.4	2	4.5		1.0	12.8	-2.6	20.8	4	6	
										73	38	31	44	43	39	34		5	49	24	48	5	5	
RN 240041	T 160232																							
98517154	RN 150190	95	104	105	102	81	84	98	91	97	93	96	104	105	108	104			76	86	94			
RN 240041		64	25	29	10	32	21	26	24	0.30	0.26	1	4.0	2.1	37	5.5			13.7	0.4	19.9			
										70	32	10	25	29	21	14			39	14	42			
RN 240043	RV 160046																							
98517170	Q 180075	85	113	84	96	122	114	114	115	88	90	102	113	84	95	112	100	105	117	126	102	98	101	
RN 240043		68	46	42	23	40	31	41	36	0.73	0.34	7	7.2	-2.7	8	9.7	11	5.8	-20.3	-8.9	24.3	1	5	
										73	45	23	46	42	37	32	9	11	45	28	47	11	11	
RN 240045	RV 160046																							
98517196	RN 150018	125	82	72	108	101	83	73	76	127	120	94	82	72	63	80	82	87	100	106	94	91	89	
RN 240045		67	38	41	12	33	26	34	30	-1.23	-0.51	0	-3.7	-5.5	-63	-6.3	-28	-1.2	-6.5	-4.4	20.0	-2	-4	
										72	42	12	38	41	30	25	6	7	36	21	43	7	6	
RN 240048	T 160232																							
98517220	RN 130477	118	94	94	108	78	76	84	79	116	100	94	94	94	92	94			77	85	88			
RN 240048		65	32	38	10	30	23	30	26	-0.68	0.06	-1	0.3	-0.3	1	0.7			12.8	0.6	16.5			
										71	35	10	32	38	27	20			39	14	38			
RN 240049	T 160232																							
98517592	WT 170041	99	104	103	102	89	92	103	97	100	89	96	104	103	108	104			76	92	102			
RN 240049		66	34	36	20	39	28	34	31	0.10	0.37	1	4.1	1.8	36	5.7			14.0	-1.0	24.0			
										72	35	20	34	36	30	22			48	23	47			
RN 240050	T 170157																							
98517600	EX 170212	71	108	83	98	107	97	101	99	68	118	101	108	83	91	103	100	91	105	100	109	96	90	
RN 240050		67	53	43	32	38	33	45	39	1.71	-0.47	6	5.3	-2.9	-2	5.4	12	0.2	-10.5	-2.9	28.1	0	-2	
										73	38	32	53	43	43	32	24	26	42	25	46	28	27	
RN 240052	T 170157																							
98517626	Q 210058	129	90	89	92	109	94	81	86	123	128	107	90	89	79	90	96	91	103	107	107	96	97	
RN 240052		66	51	34	21	32	28	39	34	-1.04	-0.74	11	-0.9	-1.7	-28	-1.3	2	0.5	-9.0	-4.5	27.1	0	3	
										72	34	21	51	34	35	34	14	18	38	16	41	19	17	
RN 240058	EX 200019																							
98517998	WT 180053	82	101	121	105	101	109	113	111	86	81	94	101	121	121	100	99	93	91	100	107	94	92	
RN 240058		67	49	46	33	36	33	43	38	0.81	0.58	0	3.1	5.8	65	4.0	9	1.0	1.3	-2.8	27.1	-1	-1	
										73	39	33	49	46	43	32	20	23	39	25	45	23	22	
RN 240060	EX 200019																							
98518012	EX 180520	115	87	116	102	96	96	94	94	132	95	96	87	116	105	89	102	113	91	94	104	90	94	
RN 240060		66	53	46	34	36	34	45	40	-1.47	0.18	1	-1.9	4.7	29	-1.9	17	8.9	1.1	-1.6	25.3	-3	0	
										72	37	34	53	46	44	36	23	27	40	23	45	28	27	
RN 240062	EX 200019																							
98518087	RV 180004	107	94	125	91	106	107	99	102	110	79	106	94	125	113	95	105	104	94	103	111	100	98	
RN 240062		67	46	43	27	36	31	41	36	-0.39	0.65	10	0.6	6.7	46	1.3	22	5.5	-1.1	-3.7	29.2	2	3	
										73	38	27	46	43	39	30	20	23	39	26	44	23	23	

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Animal				Selection Values							Birth		Wean				Growth		Fertility				Frame	
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	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																								
RN 240067 98518525 RN 240067	1	RV 160046 Q 160137	119 69	98 49	76 47	97 31	108 43	94 35	89 45	90 40	116 -0.67 74	108 -0.19 45	102 6 31	98 2.0 49	76 -4.7 47	76 -34 42	96 1.7 34	93 -3 17	96 2.1 18	98 -4.3 49	117 -6.8 29	98 22.0 50	100 2 19	99 4 18
RN 240068 98518533 RN 240068		T 170157 RN 180013	71 67	109 44	95 40	99 10	96 26	94 24	105 34	99 29	66 1.81 73	122 -0.56 38	99 4 10	109 5.9 44	95 -0.1 40	103 26 31	105 6.0 20	99 9 14	93 1.2 17	106 -10.9 26	91 -0.9 13	98 22.3 38	101 2 17	98 3 16
RN 240069 98518541 RN 240069		RV 160046 RN 150005	114 67	92 36	87 38	101 12	100 33	90 25	86 33	87 29	113 -0.51 72	103 -0.02 42	98 3 12	92 -0.1 36	87 -2.1 38	83 -19 29	91 -0.6 22	88 -15 6	91 0.5 7	99 -5.1 36	108 -4.7 21	93 19.3 42	96 0 7	94 0 6
RN 240070 98518558 RN 240070		T 170157 FHU 160041	114 71	76 44	85 35	110 16	108 37	92 28	77 37	83 32	137 -1.71 76	115 -0.38 45	92 -2 16	76 -5.8 44	85 -2.6 35	69 -49 32	79 -6.7 22	91 -7 15	88 -0.6 18	116 -19.5 42	100 -2.9 24	105 25.9 46	89 -4 18	85 -6 18
RN 240072 98518574 RN 240072		EX 200019 Q 190097	95 67	102 54	104 45	100 33	91 37	92 34	100 45	95 40	96 0.32 73	91 0.29 38	97 2 33	102 3.4 54	104 2.0 45	106 32 44	101 4.2 40	97 5 22	97 2.8 25	87 4.5 40	90 -0.5 25	101 23.7 45	94 -1 25	93 0 24
RN 240074 98518954 RN 240074		T 160232 Q 190101	119 66	94 42	102 36	100 26	92 39	90 30	91 38	89 34	120 -0.87 72	90 0.33 36	98 3 26	94 0.5 42	102 1.5 36	97 12 35	98 2.6 32	89 -12 7	93 1.0 8	84 6.7 49	98 -2.3 23	97 21.6 46	96 0 9	95 1 8
RN 240075 98518962 RN 240075		EX 200019 RN 160001	103 66	91 42	128 38	96 21	94 28	97 26	96 35	96 30	104 -0.07 72	93 0.26 35	101 6 21	91 -0.5 42	128 7.6 38	116 54 34	92 -0.2 24	102 17 20	99 3.3 23	88 3.5 27	94 -1.5 18	101 23.9 39	104 4 23	101 6 22
RN 240078 98518996 RN 240078		T 170157 RN 210005	69 68	113 49	87 31	97 20	101 33	95 28	104 38	99 33	62 1.99 74	111 -0.27 35	102 7 20	113 7.0 49	87 -2.1 31	97 13 33	108 7.8 32	100 11 15	100 3.9 18	104 -9.5 39	95 -1.8 19	104 25.6 42	98 1 18	97 3 17
RN 240081 98519382 RN 240081	6	EX 200410 RN 220050	101 66	78 46	104 37	102 24	120 29	108 27	89 37	97 32	143 -2.01 73	87 0.41 29	97 2 24	78 -5.1 46	104 1.9 37	86 -11 36	83 -4.8 30	99 9 26	112 8.4 33	101 -6.8 37	115 -6.5 11	119 33.6 38	108 6 35	95 1 32
RN 240087 98519697 RN 240087		T 160232 EX 180220	100 66	105 43	110 41	96 29	95 42	97 32	104 41	100 36	104 -0.08 72	78 0.66 36	101 6 29	105 4.4 43	110 3.3 41	111 43 38	108 7.7 36	105 23 19	107 6.5 21	74 15.7 51	100 -3.0 26	105 25.8 49	105 4 21	105 9 21
RN 240089 98550635 RN 240089		T 170157 FHU 130083	70 71	112 42	84 35	102 14	94 36	90 27	103 36	96 32	54 2.42 76	120 -0.50 45	97 2 14	112 6.8 42	84 -2.8 35	96 10 30	106 6.9 18	93 -3 14	87 -1.3 17	114 -17.9 40	81 1.7 22	102 24.2 46	95 0 17	88 -4 16
RN 240093 98519952 RN 240093		EX 200019 Q 180051	100 67	93 52	119 44	87 32	103 36	98 33	88 44	92 38	102 0.03 73	88 0.39 39	112 16 32	93 0.3 52	119 5.3 44	104 27 43	94 0.5 36	99 10 20	99 3.2 23	90 2.2 38	103 -3.5 25	109 27.9 44	96 0 23	95 1 22

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Animal				Selection Values								Birth		Wean				Growth		Fertility				Frame	
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	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																									
RN 240096 98519978 RN 240096	1	T 170157 Q 190122		81 68	107 52	79 39	108 27	104 34	98 31	105 42	102 36	78 1.21 74	117 -0.42 38	94 -1 27	107 5.2 52	79 -3.8 39	90 -3 39	101 4.2 35	95 0 17	100 3.7 20	111 -15.4 38	96 -2.0 22	104 25.6 43	90 -3 20	92 -1 19
RN 240099 98520232 RN 240099		EX 200410 RN 220102		97 67	79 50	105 37	91 25	116 29	99 28	79 39	87 34	148 -2.25 74	91 0.31 34	107 12 25	79 -4.6 50	105 2.1 37	84 -18 37	85 -3.9 34	96 3 28	106 6.1 34	103 -9.0 31	116 -6.5 17	111 29.1 38	101 2 34	101 6 32
RN 240100 98520240 RN 240100		EX 200410 RN 220112		118 66	82 49	95 33	100 23	119 30	105 27	87 38	95 32	129 -1.32 73	98 0.10 31	99 3 23	82 -3.7 49	95 -0.2 33	81 -23 35	86 -3.4 28	91 -7 27	102 4.5 34	113 -17.3 36	112 -5.8 16	114 30.9 37	93 -2 34	88 -4 32
RN 240101 98520257 RN 240101		EX 200410 RN 220109		113 67	81 50	102 37	94 25	117 29	102 28	82 39	91 34	133 -1.53 74	92 0.28 34	104 8 25	81 -4.2 50	102 1.5 37	84 -16 37	85 -3.6 34	90 -10 28	101 4.3 34	105 -10.2 31	114 -6.3 17	113 29.9 38	96 0 34	96 2 32
RN 240104 98520356 RN 240104		EX 200410 T 220086		106 65	75 39	96 31	104 22	112 28	97 25	80 33	87 29	143 -2.00 71	109 -0.20 34	95 0 22	75 -6.2 39	96 0.0 31	77 -32 31	78 -7.4 28	91 -8 27	106 6.1 33	111 -15.7 30	111 -5.4 17	103 25.0 36	96 0 34	93 0 32
RN 240106 98520364 RN 240106		RV 160046 RV 190001		84 69	102 44	91 42	107 29	106 39	102 32	104 41	103 36	83 0.95 74	103 -0.04 44	94 -1 29	102 3.5 44	91 -1.2 42	96 10 38	100 3.5 35	88 -15 8	94 1.5 9	93 -0.1 45	113 -5.8 25	101 23.5 48	94 -1 9	93 0 9
RN 240116 98543762 RN 240116		T 160232 Q 140018		63 65	135 45	101 45	101 28	92 41	105 33	135 42	122 38	50 2.61 72	87 0.43 32	97 2 28	135 14.8 45	101 1.3 45	130 84 39	129 18.1 36	93 -3 5	95 1.9 7	72 16.7 50	103 -3.5 25	97 21.5 49	102 3 7	101 6 6
RN 240120 98524101 RN 240120		EX 200410 RN 220088		117 67	88 50	106 37	91 25	116 29	106 28	89 39	97 34	128 -1.26 74	86 0.44 34	107 11 25	88 -1.5 50	106 2.4 37	92 1 37	92 -0.1 34	95 1 28	105 5.9 34	103 -9.0 31	115 -6.5 17	112 29.4 38	100 2 34	100 5 32
RN 240122 98550627 RN 240122		T 160232 WT 160062		102 66	102 30	96 32	113 15	92 39	96 26	106 31	101 28	102 0.01 72	94 0.21 36	89 -6 15	102 3.2 30	96 0.1 32	103 25 26	102 4.6 20			95 -2.0 48	83 1.0 21	106 26.3 48		
RN 240123 98524127 RN 240123		EX 200410 RN 220104		100 67	79 51	96 38	93 25	117 29	97 29	77 40	85 34	147 -2.20 74	100 0.06 34	105 10 25	79 -4.9 51	96 0.1 38	77 -32 38	82 -5.1 34	92 -6 28	103 4.9 34	104 -9.8 31	115 -6.3 17	112 29.6 38	98 1 34	97 3 32
RN 240124 98524135 RN 240124		EX 200220 FHU 200041		65 68	123 45	98 35	87 27	115 33	113 29	118 38	116 34	65 1.84 74	95 0.20 38	113 16 27	123 10.7 45	98 0.5 35	110 39 36	123 15.2 36	114 42 29	99 3.2 34	109 -13.3 37	113 -5.9 21	109 28.2 41	118 11 35	114 16 33
RN 240126 98524150 RN 240126		EX 200410 RN 220024		101 66	74 46	95 32	104 22	112 26	96 25	78 36	85 30	147 -2.19 73	105 -0.10 30	96 1 22	74 -6.7 46	95 -0.3 32	75 -37 33	78 -7.3 28	92 -6 27	101 4.2 34	108 -12.7 28	107 -4.6 15	110 28.8 36	97 0 34	91 -2 32

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Index EBV Acc																								
ID	% Inbreeding	Sire ID									Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
Name		Dam ID																						
RN 240129 98524184 RN 240129		EX 200220 FHU 150115	110 69	107 44	96 36	82 27	127 37	116 30	100 39	107 34	113 -0.51 75	85 0.49 41	119 22 27	107 5.1 44	96 0.0 36	93 3 36	110 8.7 35	113 41 29	97 2.7 33	117 -20.1 42	126 -8.9 25	112 29.7 45	115 10 35	112 14 33
RN 240130 98524192 RN 240130	1	EX 200410 RN 220065	119 52	99 51	108 38	95 27	117 32	115 29	107 40	111 34	123 -1.01 56	75 0.76 29	103 7 27	99 2.1 51	108 2.9 38	104 27 39	105 6.4 38	101 14 27	112 8.3 33	109 -13.6 38	112 -5.7 18	113 30.2 39	105 5 34	102 7 32
RN 240131 98688849 RN 240131		T 160232 Q 140086	71 67	118 45	85 45	91 32	89 41	83 33	98 42	90 38	71 1.56 73	104 -0.06 37	109 13 32	118 9.1 45	85 -2.4 45	98 13 41	112 9.8 37	93 -5 6	92 0.8 8	79 11.3 50	94 -1.5 25	97 21.7 49	101 2 8	100 5 8
RN 250002 98688872 RN 250002		T 160232 RN 220079	103 50	100 41	88 30	104 21	89 36	85 27	92 35	88 31	99 0.19 55	117 -0.42 24	95 0 21	100 2.6 41	88 -1.9 30	91 -2 31	96 1.7 24	94 -2 7	95 1.8 10	80 10.7 47	92 -1.0 18	100 23.2 44	95 -1 10	97 3 9
RN 250004 98992704 RN 250004		T 160232 FHU 150061	108 57	93 30	92 32	110 15	87 41	84 26	88 31	85 28	107 -0.25 60	101 0.04 42	92 -2 15	93 0.1 30	92 -1.0 32	90 -4 26	95 1.0 19		92 0.1 50	87 0.3 23	95 20.5 49			
RN 250011 99397937 RN 250011		RN 200109 FHU 220089	90 64	101 42	102 24	101 10	93 29	92 23	99 31	95 27	91 0.55 70	94 0.24 37	97 2 10	101 2.9 42	102 1.4 24	103 25 25	99 3.4 20	95 0 7	93 1.2 9	108 -13.2 33	89 -0.4 16	94 19.9 37	98 1 9	96 2 8
RN 250017 99454142 RN 250017	1	T 170042 FHU 160047	69 69	105 31	111 28	93 14	91 36	91 24	98 31	94 28	62 2.01 74	114 -0.35 45	104 9 14	105 4.5 31	111 3.6 28	111 42 24	102 4.8 17		90 2.4 40	97 -2.1 23	93 19.5 46			
RN 250018 99454282 RN 250018		RV 160046 Q 230028	64 65	125 41	82 37	88 25	119 38	111 29	115 38	114 34	66 1.80 71	90 0.33 36	113 16 25	125 11.5 41	82 -3.2 37	98 15 34	122 14.9 31	100 11 17	103 5.0 20	112 -15.8 45	125 -8.7 25	101 23.7 45	107 6 20	107 10 20
RN 250019 99454290 RN 250019		RV 160046 FHU 160043	125 70	85 38	77 37	103 16	103 41	86 29	76 36	79 32	121 -0.93 75	112 -0.28 48	97 2 16	85 -2.7 38	77 -4.4 37	68 -51 30	84 -4.1 25		88 -0.8 5	101 -7.1 48	109 -5.1 27	93 19.7 49	90 -3 6	85 -6 5
RN 250020 99454308 RN 250020		RV 160046 FHU 220061	93 68	98 45	82 30	110 15	97 39	91 28	94 37	92 32	92 0.50 74	104 -0.06 40	92 -2 15	98 1.9 45	82 -3.3 30	85 -14 30	95 1.3 22	84 -24 6	90 -0.1 8	101 -6.8 46	103 -3.6 25	91 18.2 46	91 -3 8	86 -6 7

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★★★★								
1	RN 240012	RN 240012	EX 200220	Q 160101	0.6	62 63	136 55	100 49	82 39	118 37	120 35	128 47	125 41
2	RN 240026	RN 240026	EX 180207	T 120017	0.1	62 64	142 51	115 48	81 32	110 38	121 34	137 45	131 40
3	RN 240119	RN 240119	EX 200410	RN 220007	8.4	60 66	110 50	115 39	100 24	118 30	123 29	126 39	125 34
					★★★★☆								
1	RN 230133	RN 230133	EX 200410	RV 190001	0.0	122 68	81 47	110 43	110 33	112 33	110 31	96 41	102 36
2	RN 240008	RN 240008	EX 200220	Q 130118	0.2	76 63	121 56	92 53	83 41	120 39	113 37	110 49	112 43
3	RN 240015	RN 240015	EX 200410	EX 090199	2.2	116 64	88 53	81 51	115 28	122 36	113 33	100 45	106 39
4	RN 240017	RN 240017	EX 180207	FHU 150061	0.1	64 66	131 48	100 45	81 31	120 40	119 33	122 43	122 38
5	RN 240024	RN 240024	EX 200220	T 190151	0.0	94 62	107 41	97 39	95 28	115 27	111 27	109 36	110 32
6	RN 240121	RN 240121	EX 200410	RN 220008	0.5	63 66	107 46	106 33	105 23	110 27	113 26	117 36	115 31
7	RN 240125	RN 240125	T 170157	Q 190128	0.3	68 67	132 51	93 39	100 24	110 35	118 30	138 41	129 36
					★★★★								
1	RN 210042	RN 210042	EX 150302	EX 180045	3.3	118 62	87 72	137 51	97 39	103 43	109 40	101 56	104 48
2	RN 230073	RN 230073	EX 200019	EX 190105	2.1	102 66	91 52	131 43	91 29	103 34	105 32	97 43	100 38
3	RN 230077	RN 230077	RV 160046	RN 210011	0.5	101 68	112 46	85 36	90 21	112 39	103 30	103 39	103 34
4	RN 230116	RN 230116	T 180165	Q 190006	0.4	103 64	109 57	96 43	116 34	96 37	105 34	119 46	113 40
5	RN 230156	RN 230156	T 170157	Q 190073	0.3	68 68	128 51	92 39	84 26	112 35	109 31	115 41	112 36
6	RN 240014	RN 240014	EX 200220	Q 130084	0.2	105 64	119 56	88 52	79 39	111 38	101 36	98 48	99 42
7	RN 240016	RN 240016	T 170157	T 190198	0.4	98 64	104 44	87 33	98 19	109 36	100 28	102 37	101 32
8	RN 240046	RN 240046	T 170157	Q 190117	0.2	77 68	110 51	84 39	103 23	108 35	103 30	109 41	106 36
9	RN 240061	RN 240061	RV 160046	RN 150011	0.0	65 67	117 35	95 38	98 12	101 33	101 25	114 32	108 28
10	RN 240082	RN 240082	EX 200410	RN 220004	4.8	105 66	85 50	89 39	90 27	124 30	103 29	80 40	90 34
11	RN 240095	RN 240095	RV 160046	EX 210334	0.3	85 66	111 46	86 36	96 24	110 39	102 30	105 40	104 35
12	RN 240102	RN 240102	EX 200410	RN 220046	1.3	107 67	92 50	94 35	95 25	114 31	102 29	89 39	94 34
13	RN 240108	RN 240108	EX 200019	Q 190093	0.2	95 67	95 53	115 43	94 31	108 36	105 33	99 44	101 38
14	RN 240111	RN 240111	EX 200410	RN 220103	0.2	105 66	79 50	104 36	93 25	117 29	101 28	80 39	89 34

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★★★								
15	RN 240115	RN 240115	T 170042	RN 190007	0.0	64 65	118 28	124 32	99 12	91 26	105 21	124 27	115 24
16	RN 240117	RN 240117	T 160232	Q 210073	0.6	64 64	131 41	102 30	102 19	87 35	100 27	129 35	116 31
17	RN 240127	RN 240127	RV 160046	Q 210097	0.7	82 66	110 46	87 34	96 20	112 37	105 29	107 38	106 34
18	XA 170023	ARCHIE XA170023	GA 110152	DPN 100122	0.6	84 70	112 86	104 57	87 38	112 48	108 45	106 64	107 54
					★★★★☆								
1	EW 160036	EW 160036	MVN 090175	GJ 080028	0.4	106 47	116 83	120 69	70 47	92 54	91 49	87 67	88 58
2	Q 230094	Q 230094	T 180165	Q 160060	0.0	95 42	110 57	98 46	95 28	97 38	96 33	105 45	100 39
3	RN 200109	RN 200109	NS 100073	MFF 140002	0.1	100 59	100 50	107 37	92 10	94 30	90 26	91 37	90 32
4	RN 230135	RN 230135	EX 200019	RN 190001	0.0	115 66	87 39	126 31	97 21	93 27	96 24	92 33	93 28
5	RN 240010	RN 240010	RV 160046	EX 210127	0.2	123 62	80 46	92 38	104 26	113 39	99 31	82 40	89 36
6	RN 240019	RN 240019	T 170157	T 190215	0.0	69 63	117 37	90 23	100 10	99 26	98 21	112 29	106 25
7	RN 240021	RN 240021	T 160232	Q 130012	0.2	65 66	128 44	91 45	87 29	98 41	96 33	112 41	105 37
8	RN 240028	RN 240028	RV 160046	EX 190255	0.1	110 66	104 47	86 39	86 26	106 41	92 32	85 41	87 36
9	RN 240037	RN 240037	T 160232	EX 190105	0.0	80 65	108 42	105 37	97 26	90 38	92 30	103 38	97 34
10	RN 240042	RN 240042	T 160232	T 170165	13.3	121 63	97 25	93 27	111 8	93 33	93 21	97 26	95 24
11	RN 240057	RN 240057	EX 200019	WT 170025	0.1	120 67	86 46	114 41	106 26	94 37	95 31	91 40	92 36
12	RN 240063	RN 240063	T 160232	Q 190055	0.1	88 67	110 42	101 37	93 26	98 39	96 30	104 38	100 34
13	RN 240077	RN 240077	EX 200019	WT 180077	0.1	112 67	87 48	121 44	107 31	87 34	93 31	93 42	92 36
14	RN 240084	RN 240084	RV 160046	RN 190001	0.0	98 66	99 29	86 25	101 12	100 32	92 22	93 28	91 25
15	RN 240086	RN 240086	RV 160046	RV 190016	6.4	84 68	107 33	82 34	93 8	109 34	97 24	96 31	96 28
16	RN 240094	RN 240094	EX 200019	RN 190011	0.0	121 66	83 41	126 37	97 21	93 28	93 26	86 35	88 30
17	RN 240097	RN 240097	RV 160046	RN 150025	0.0	98 67	98 36	78 38	103 12	102 33	90 25	90 33	89 29
18	RN 240107	RN 240107	EX 200019	WT 170033	0.1	120 67	86 48	119 44	101 30	94 36	94 32	91 42	92 37
19	RN 240118	RN 240118	T 160232	Q 190073	0.3	64 67	129 42	99 36	87 25	97 39	99 30	115 38	108 34
20	RN 240128	RN 240128	RV 160046	Q 130118	0.0	68 68	116 50	76 49	97 35	107 43	98 36	106 46	102 41
21	RV 160046	RV 160046	ISF 060022	RV 090055	0.0	111 83	96 58	64 50	101 25	113 62	94 42	86 53	88 48
22	T 170042	T 170042	T 100086	T 130006	7.6	81 74	95 46	129 44	98 24	93 48	98 34	101 44	99 39

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
23	T 170157	T 170157	T 110378	T 070261	0.3	75 82	106 73	76 46	100 20	105 48	93 39	97 54	95 46
1	RN 220033	RN 220033	T 170157	RN 190008	0.0	101 65	99 61	92 31	97 10	97 26	89 26	91 40	89 33
2	RN 230029	RN 230029	T 170157	RN 190035	0.0	101 64	92 36	85 23	100 10	95 25	83 20	82 28	81 24
3	RN 230033	RN 230033	T 170157	Q 190097	0.0	81 67	112 52	70 40	104 28	94 35	86 31	100 43	92 37
4	RN 230035	RN 230035	Q 170004	RN 150758	0.0	99 67	100 47	98 37	90 21	92 28	83 27	84 37	82 32
5	RN 230040	RN 230040	T 170157	RN 190005	0.0	86 65	100 36	88 23	100 10	96 25	88 20	93 28	90 24
6	RN 240035	RN 240035	T 160232	Q 160060	0.4	67 63	118 44	87 42	97 22	90 39	88 30	105 39	97 34
7	RN 240039	RN 240039	RV 160046	RN 200023	0.0	114 65	82 29	81 25	101 12	102 33	84 22	74 28	77 25
8	RN 240051	RN 240051	T 160232	EX 180045	0.1	120 66	85 43	113 41	98 31	84 41	81 32	80 41	79 36
9	RN 240053	RN 240053	RV 160046	RN 150021	0.0	112 67	80 36	74 38	108 12	100 33	81 25	71 33	74 29
10	RN 240054	RN 240054	T 160232	RV 190019	0.0	125 66	102 34	97 37	95 21	87 38	84 28	91 34	87 31
11	RN 240055	RN 240055	RV 160046	RN 190005	0.0	119 65	84 29	82 25	101 12	100 32	84 22	76 28	78 25
12	RN 240064	RN 240064	T 170157	RN 180101	0.0	98 67	97 44	87 40	101 10	95 26	86 24	89 34	87 29
13	RN 240065	RN 240065	T 160232	Q 180007	0.4	66 66	119 43	86 40	93 27	88 40	84 31	100 40	92 36
14	RN 240066	RN 240066	T 160232	WT 160139	0.2	109 66	100 34	91 37	98 20	88 40	83 28	89 35	85 32
15	RN 240071	RN 240071	T 160232	RN 131008	0.0	102 66	100 29	100 34	105 10	78 30	80 22	92 28	85 25
16	RN 240073	RN 240073	T 160232	EX 170236	0.0	117 66	88 43	108 42	100 31	82 41	80 32	83 41	80 36
17	RN 240076	RN 240076	T 170157	RN 120389	0.0	89 66	101 42	92 37	101 10	93 26	88 24	95 33	91 28
18	RN 240079	RN 240079	EX 200019	RN 200016	0.1	120 66	79 51	133 36	93 24	88 35	87 30	78 41	81 36
19	RN 240080	RN 240080	T 160232	RN 190002	0.0	119 64	94 24	102 26	103 10	82 31	81 21	88 25	84 23
20	RN 240088	RN 240088	T 160232	T 170156	0.0	115 66	85 31	89 36	114 19	85 34	80 26	82 32	79 29
21	RN 240091	RN 240091	T 160232	RN 120607	0.0	120 66	93 29	102 34	105 10	80 32	81 23	87 29	83 26
22	RN 240109	RN 240109	T 170157	MEN 180029	0.7	108 67	91 46	87 39	108 25	97 33	89 29	87 39	87 34
23	RN 240133	RN 240133	T 160232	RN 220125	0.2	102 66	104 39	93 28	97 17	91 36	87 26	95 34	90 30

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc													
						★★★																				
1	RN	220083	RN	220083	Q	170004	RN	100039	0.0	88	66	105	67	94	37	86	21	89	27	79	30	82	45	79	38	
2	RN	240030	RN	240030	T	160232	FHU	160043	0.4	111	69	93	32	90	33	109	14	83	40	79	26	84	32	81	29	
3	RN	240044	RN	240044	T	160232	FHU	100097	0.8	120	69	96	28	91	28	96	16	84	42	75	26	79	31	76	28	
4	RN	240047	RN	240047	T	160232	FHU	160047	0.4	121	69	93	29	93	26	97	15	82	40	74	25	78	30	74	28	
5	RN	240056	RN	240056	T	160232	Q	160096	0.8	106	67	105	43	91	42	91	29	85	41	78	32	86	41	81	36	
6	RN	240092	RN	240092	T	160232	EX	160356	0.0	101	66	107	43	88	42	99	26	77	40	74	31	91	40	82	36	
7	T	160232	T	160232	PH	110041	T	070306	0.0	112	76	101	40	91	37	111	20	74	60	77	35	92	42	84	38	

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★★★★								
1	Q 180075	Q 180075	CVL 140013	LRC 150005	0.2	67 71	127 72	105 68	92 40	130 51	134 46	138 61	138 54
2	Q 190128	Q 190128	CVL 140013	LRC 150005	0.2	59 64	133 72	111 63	99 42	116 50	130 45	138 60	136 52
					★★★★★								
1	EX 160146	EX 160146	AZ 110054	EX 140440	1.7	92 62	98 78	129 78	92 65	121 56	123 53	113 69	118 61
2	EX 180220	PLATINUM DONKIE	EX 120209	EX 070508	0.3	81 66	112 77	129 73	86 54	115 59	122 52	120 68	121 60
3	EX 200265	STEENBOK	EX 170210	EX 150004	3.2	96 57	122 61	90 58	77 48	136 48	125 42	112 55	118 48
4	Q 170038	Q 170038	SK 060038	Q 110059	0.0	64 62	123 77	148 76	66 57	111 56	120 52	109 68	114 60
5	Q 230024	Q 230024	EX 180207	Q 090004	0.5	59 49	142 72	109 58	74 45	118 44	122 42	127 57	126 50
6	Q 230028	Q 230028	EX 180207	Q 130118	0.0	60 53	142 59	100 56	77 44	125 45	127 40	131 52	130 46
7	Q 230036	Q 230036	EX 180207	Q 120125	0.0	59 41	142 70	109 57	69 44	127 42	128 41	123 56	126 48
8	Q 230041	Q 230041	EX 180207	MVN 090116	0.4	66 41	132 71	121 57	76 44	116 43	122 41	125 56	125 48
9	Q 230092	Q 230092	Q 190141	Q 130012	0.6	73 51	129 55	108 49	79 33	120 35	121 33	121 45	122 39
10	RN 220007	RN 220007	AZ 110054	EX 180220	6.4	65 69	119 71	129 56	94 44	109 50	122 44	132 59	129 52
11	RN 230117	RN 230117	EX 200019	Q 180075	0.2	92 68	105 53	124 46	93 29	115 36	120 33	117 44	119 38
12	RN 240003	RN 240003	EX 200220	Q 210097	0.2	69 64	123 52	103 39	82 29	126 32	123 30	119 41	122 36
					★★★★★								
1	EX 210334	BOND KOLKOP	AZ 110054	EX 190105	4.1	69 54	122 71	108 53	90 42	106 47	111 42	122 57	117 50
2	Q 130012	Q 130012	RT 080001	Q 090039	0.2	63 73	139 80	92 82	73 55	121 55	116 53	115 70	116 62
3	Q 140018	Q 140018	SK 060038	Q 110051	0.0	59 64	129 80	111 82	94 52	109 58	119 53	134 70	128 62
4	Q 170015	Q 170015	SK 060038	MVN 090087	0.0	70 59	107 79	119 79	97 65	114 57	119 54	120 70	120 62
5	Q 190055	Q 190055	Q 160029	Q 170021	3.3	70 70	117 74	111 64	82 47	121 50	119 46	113 62	116 54
6	Q 190073	Q 190073	Q 160029	Q 170036	0.2	59 71	128 74	107 63	71 46	120 50	115 46	106 61	111 54
7	Q 190117	Q 190117	CVL 140013	Q 140018	0.2	60 68	120 74	92 63	108 39	111 49	116 44	127 60	123 52
8	Q 210073	Q 210073	Q 180004	Q 180120	6.1	59 52	135 72	112 48	95 33	100 39	114 37	138 53	128 45
9	Q 210097	Q 210097	Q 180004	Q 190013	2.1	63 55	122 72	111 46	92 33	111 42	116 38	125 53	122 46
10	RN 220050	RN 220050	EX 180037	EX 170212	1.6	96 67	103 58	106 51	96 41	113 45	112 39	109 51	110 45

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★★★☆								
11	RN 220065	RN 220065	Q 150104	Q 190128	0.6	77 65	134 71	115 50	85 35	108 45	118 40	134 55	128 48
12	RN 230037	RN 230037	T 170157	Q 190128	0.3	70 67	119 51	93 39	100 24	110 35	112 30	123 41	119 36
13	RN 230042	RN 230042	EX 200220	WT 160062	0.0	105 66	105 44	98 41	90 27	125 36	117 30	108 39	113 34
14	RN 240043	RN 240043	RV 160046	Q 180075	0.6	85 68	113 46	84 42	96 23	122 40	114 31	114 41	115 36
15	RN 240124	RN 240124	EX 200220	FHU 200041	0.1	65 68	123 45	98 35	87 27	115 33	113 29	118 38	116 34
16	RN 240129	RN 240129	EX 200220	FHU 150115	0.2	110 69	107 44	96 36	82 27	127 37	116 30	100 39	107 34
17	RN 240130	RN 240130	EX 200410	RN 220065	0.7	119 52	99 51	108 38	95 27	117 32	115 29	107 40	111 34
18	T 170165	T 170165	PH 110041	LP 090098	0.2	105 68	103 55	95 62	111 35	111 53	113 42	113 53	113 48
19	WT 160062	WT 160062	WT 120035	WT 120120	0.9	107 65	96 44	101 52	116 23	109 50	113 35	114 44	114 40
						★★★★							
1	EX 090199	FISHEAGLE	CS 060073	EX 080317	0.0	91 58	105 76	61 85	120 41	115 58	107 51	111 67	110 59
2	EX 150411	DONKIE	SS 110056	EX 110217	4.2	120 62	75 79	110 80	96 66	114 58	102 54	79 71	89 62
3	EX 160515	EX 160515	MVN 100160	EX 130101	1.1	113 61	96 77	88 75	117 61	107 56	107 52	107 68	107 60
4	EX 190105	EX 190105	EX 150321	EX 160448	4.5	83 60	102 73	118 64	88 47	106 49	105 45	100 60	102 52
5	EX 190241	PEDI RICO	EX 120209	EX 050101	0.5	98 63	95 75	117 68	76 48	112 56	101 49	79 64	88 56
6	EX 210127	ICE DONKIE	SW 160038	EX 150411	0.1	120 49	72 72	119 56	108 46	113 47	109 43	87 58	97 50
7	FHU 150115	FHU150115	GL 090026	FHU 090103	2.8	95 81	108 45	96 36	91 23	113 55	107 35	105 44	106 40
8	FHU 160041	FHU160041	PH 100003	FHU 040045	0.0	112 84	80 51	93 54	117 24	111 58	104 40	91 50	97 45
9	Q 160101	Q 160101	N 070055	Q 130016	0.0	59 62	133 79	105 76	91 62	95 56	103 53	127 69	116 61
10	Q 190093	Q 190093	CVL 140013	Q 150039	0.4	63 68	112 73	86 62	95 47	116 51	107 46	108 61	107 54
11	Q 190101	Q 190101	Q 160036	RT 100056	1.1	96 66	98 74	113 62	92 47	110 52	108 46	102 62	104 54
12	Q 190122	Q 190122	CVL 140013	Q 150018	0.7	78 65	110 74	82 63	114 47	102 50	103 46	113 61	108 54
13	Q 210058	Q 210058	Q 180004	Q 190023	1.5	99 54	103 72	101 49	85 36	113 42	104 39	93 54	98 46
14	Q 220129	Q 220129	Q 180035	Q 180054	0.1	63 53	124 70	100 48	87 33	108 40	107 37	115 52	112 44
15	Q 220147	Q 220147	Q 180035	EX 200265	0.2	83 50	120 52	93 45	76 34	118 39	107 34	100 44	103 39
16	Q 230068	Q 230068	T 180165	Q 160034	0.2	87 44	116 58	110 48	93 37	100 40	105 36	116 48	111 42
17	Q 230079	Q 230079	T 180165	Q 150015	0.4	95 44	115 58	112 47	84 32	101 40	102 35	105 47	103 41

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc													
						★★★																				
18	Q	230089	Q	230089	T	180165	FF	100132	1.0	122	44	99	72	105	51	111	37	102	43	108	39	111	55	110	47	
19	Q	230122	Q	230122	Q	190141	RV	060069	0.0	72	46	137	71	90	53	94	36	103	39	109	38	134	54	123	46	
20	Q	230139	Q	230139	T	180165	Q	170038	0.2	87	45	113	57	132	46	82	35	100	39	107	35	109	47	108	41	
21	RN	220004	RN	220004	EX	170210	EX	180522	1.7	86	67	120	70	77	56	77	45	122	49	105	44	95	58	100	51	
22	RN	220010	RN	220010	AZ	110054	EX	170236	6.3	91	68	97	70	118	57	102	45	97	49	101	44	104	58	102	51	
23	RN	220012	RN	220012	Q	150104	Q	190117	2.0	78	66	119	70	107	50	91	33	97	40	101	38	113	53	108	46	
24	RN	220027	RN	220027	Q	160029	MFF	140002	0.1	75	69	115	68	113	49	79	29	111	37	108	36	103	51	105	44	
25	RN	220082	RN	220082	Q	160029	RN	131008	0.0	65	69	126	69	110	48	78	27	102	33	103	35	109	50	106	42	
26	RN	220088	RN	220088	Q	160029	RN	180002	0.0	78	71	118	69	110	48	80	27	107	35	105	35	105	51	105	43	
27	RN	220102	RN	220102	Q	160029	RN	120607	0.0	84	71	114	69	107	48	79	27	106	35	101	35	98	51	99	43	
28	RN	220103	RN	220103	Q	160029	RN	160763	0.0	96	71	103	68	106	44	83	27	108	35	100	34	91	50	95	42	
29	RN	220106	RN	220106	Q	160029	RN	150005	0.0	75	69	113	69	114	48	81	27	104	35	102	35	101	50	101	42	
30	RN	220109	RN	220109	Q	160029	RN	150025	0.0	78	71	108	69	103	48	84	27	107	35	100	35	96	51	97	43	
31	RN	220112	RN	220112	T	170157	RV	190016	0.9	94	71	103	66	88	35	93	16	112	39	101	32	97	46	98	39	
32	RN	220122	RN	220122	T	170157	RV	190001	0.2	76	68	108	68	96	40	102	27	103	34	102	33	110	49	106	41	
33	RN	230013	RN	230013	Q	160029	Q	180051	6.7	65	69	119	58	105	49	73	31	112	36	104	34	95	47	98	40	
34	RN	230058	RN	230058	EX	200220	EX	180503	1.7	98	65	109	54	84	47	87	37	114	36	102	34	97	46	99	40	
35	RN	230062	RN	230062	EX	200410	Q	170036	0.7	106	68	92	54	99	48	93	36	116	36	105	34	91	46	97	40	
36	RN	230093	RN	230093	EX	200220	WT	170025	0.0	106	67	104	46	90	42	90	29	114	36	104	31	98	41	100	36	
37	RN	230099	RN	230099	EX	200220	WT	170036	0.1	105	66	104	47	99	45	88	32	115	36	107	32	100	42	103	37	
38	RN	230126	RN	230126	EX	200019	RN	150011	0.0	107	66	93	44	135	42	94	21	94	28	100	27	99	37	99	32	
39	RN	230132	RN	230132	EX	200410	RN	150005	0.0	114	66	79	43	106	41	106	21	107	25	100	26	86	35	91	30	
40	RN	230137	RN	230137	EX	200410	Q	180051	1.4	116	68	86	51	97	42	92	32	117	33	102	32	83	42	91	37	
41	RN	230142	RN	230142	T	180165	Q	210058	0.3	119	64	101	56	107	36	93	27	101	35	100	31	99	43	99	37	
42	RN	230144	RN	230144	T	180165	Q	210073	0.3	108	64	113	56	113	36	99	26	94	34	104	31	118	43	112	37	
43	RN	240013	RN	240013	EX	200220	Q	210113	0.2	120	61	99	51	91	38	89	29	115	30	103	29	92	40	97	34	
44	RN	240025	RN	240025	EX	200410	RN	150019	0.0	116	46	82	42	113	40	99	21	108	25	102	25	89	34	94	30	
45	RN	240027	RN	240027	RV	160046	EX	200265	0.2	108	66	107	42	77	38	88	27	125	39	108	30	97	39	102	34	
46	RN	240031	RN	240031	RV	160046	RN	150758	0.0	65	66	117	33	90	34	101	12	101	33	101	24	115	31	108	28	

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
Sorted on ID					Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	
					★★★★								
47	RN 240034	RN 240034	EX 200019	EX 160515	1.8	10566	8054	11648	10735	10337	10135	9146	9540
48	RN 240058	RN 240058	EX 200019	WT 180053	0.1	8267	10149	12146	10533	10136	10933	11343	11138
49	RN 240062	RN 240062	EX 200019	RV 180004	0.3	10767	9446	12543	9127	10636	10731	9941	10236
50	RN 240081	RN 240081	EX 200410	RN 220050	5.7	10166	7846	10437	10224	12029	10827	8937	9732
51	RN 240100	RN 240100	EX 200410	RN 220112	0.4	11866	8249	9533	10023	11930	10527	8738	9532
52	RN 240101	RN 240101	EX 200410	RN 220109	0.2	11367	8150	10237	9425	11729	10228	8239	9134
53	RN 240106	RN 240106	RV 160046	RV 190001	0.0	8469	10244	9142	10729	10639	10232	10441	10336
54	RN 240116	RN 240116	T 160232	Q 140018	0.4	6365	13545	10145	10128	9241	10533	13542	12238
55	RN 240120	RN 240120	EX 200410	RN 220088	0.2	11767	8850	10637	9125	11629	10628	8939	9734
56	RV 180004	RV 180004	FB 130106	RV 150027	0.6	8966	10851	10562	8832	11351	10940	10650	10845
57	RV 190001	RV 190001	Q 100041	RV 110014	0.3	7368	10358	11866	11151	9848	10844	11656	11350
58	T 190198	T 190198	T 120058	T 130041	0.0	11358	10650	9747	9633	11255	10939	10948	10944
59	WT 170041	WT170041	GL 120033	WT 110082	0.0	9664	10355	11663	9634	10352	10741	10952	10846
60	WT 180053	WT18053	GL 120033	WT 090055	0.0	9068	10460	9870	11548	10352	10845	11557	11251
						★★★★☆							
1	EX 170212	LIESBET OTTO	EX 120209	CS 090016	0.0	9663	9677	9173	9559	10858	9752	9168	9360
2	EX 170236	SHANKY	EX 120209	EX 090118	0.0	10462	9277	12675	9357	9055	9151	9067	9059
3	EX 180045	KOFFIE	SW 100012	EX 080203	0.1	11867	7776	13572	9058	9357	9151	7767	8259
4	EX 180520	ANNY	MVN 100160	EX 140234	0.3	11363	10676	8869	11257	9354	9650	10665	10158
5	EX 190255	MOOI LESUNDU	EX 120209	EX 150103	9.4	7657	12474	10860	7346	9852	9646	9661	9554
6	FHU 150061	FHU150061	LP 070198	FHU 080035	0.0	10583	8545	9253	10923	10056	9138	8447	8642
7	FHU 200041	FHU200041	PH 110127	FHU 160051	0.0	9376	10648	10132	10621	9043	9431	10641	10036
8	FHU 220089	FHU220089	T 120292	FHU 150061	0.0	7674	10368	9732	11417	9248	9635	10749	10242
9	Q 130118	Q 130118	N 070055	KMF 990001	0.0	6169	12782	8984	9367	10060	9957	11673	10965
10	Q 150033	Q 150033	FF 040055	Q 110084	1.0	6464	12679	9478	7760	10058	9353	9770	9562
11	Q 160058	Q 160058	Q 070062	Q 090068	0.1	7859	11580	9680	7162	11057	9554	8170	8762
12	Q 160060	Q 160060	DH 100041	Q 130128	0.0	6555	11778	8275	8839	10652	9647	10164	9856

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★★★								
13	Q 160137	Q 160137	N 070055	FF 100132	0.0	89 73	115 78	87 79	94 59	103 58	98 53	106 70	102 62
14	Q 170036	Q 170036	SK 060038	Q 110052	0.0	64 73	116 78	96 78	83 58	105 55	98 52	98 68	97 60
15	Q 180051	Q 180051	CVL 140013	Q 160058	0.5	77 68	106 71	93 64	80 48	107 50	93 46	83 61	87 54
16	Q 210113	Q 210113	Q 180004	LRC 180048	0.1	104 40	103 68	87 43	113 32	89 36	91 34	101 49	96 42
17	Q 220104	Q 220104	Q 180035	Q 170014	3.1	64 53	107 71	104 51	87 39	101 39	94 39	94 54	94 46
18	Q 230097	Q 230097	T 180165	Q 170026	0.5	106 43	101 58	117 47	98 37	93 40	98 36	104 48	101 42
19	RN 210005	RN 210005	RV 150055	RV 170043	0.1	77 71	108 67	98 43	93 33	97 48	92 39	98 53	95 46
20	RN 220008	RN 220008	T 150070	RN 150015	0.0	65 65	107 57	110 32	100 19	95 30	98 28	109 41	104 34
21	RN 220031	RN 220031	T 170157	RN 190002	0.0	90 66	106 55	93 30	97 10	99 26	94 25	100 37	96 31
22	RN 220037	RN 220037	T 170157	RN 190036	0.0	79 64	103 65	91 32	105 10	96 26	92 27	99 41	95 34
23	RN 220046	RN 220046	Q 170004	NH 170029	0.1	76 71	111 70	86 43	86 28	102 42	90 37	90 52	89 44
24	RN 220079	RN 220079	Q 170004	EX 160515	0.3	89 68	99 72	84 48	99 37	104 42	93 39	93 55	92 47
25	RN 220089	RN 220089	T 170157	RN 190007	0.0	69 66	111 65	98 32	100 10	99 26	99 27	111 41	105 34
26	RN 220104	RN 220104	Q 160029	RN 150018	0.0	89 72	111 70	91 51	83 27	107 35	96 36	92 52	93 44
27	RN 220117	RN 220117	Q 160029	T 170126	0.1	80 68	106 52	115 46	81 33	99 42	95 35	90 46	91 40
28	RN 220125	RN 220125	Q 170004	WT 170041	0.4	92 72	108 67	95 43	89 27	107 41	99 36	98 50	98 43
29	RN 220139	RN 220139	T 170157	RN 190001	0.0	82 66	105 36	92 23	100 10	96 25	92 20	99 28	95 24
30	RN 230069	RN 230069	EX 200019	RN 120389	0.0	117 66	86 44	126 42	98 21	90 28	92 27	89 37	90 32
31	RN 230071	RN 230071	EX 200019	Q 180007	0.0	94 67	98 54	112 47	88 33	101 37	95 34	89 45	91 40
32	RN 230075	RN 230075	EX 200019	FHU 130083	0.7	98 70	91 44	118 40	99 23	91 37	92 30	92 39	91 34
33	RN 230082	RN 230082	EX 200410	Q 160001	0.2	121 67	89 54	95 49	95 35	106 35	95 34	85 46	88 40
34	RN 230089	RN 230089	EX 200019	EX 170236	3.1	113 66	86 54	135 48	93 33	94 35	98 34	91 45	93 40
35	RN 230090	RN 230090	EX 200019	T 170156	0.0	123 66	82 46	116 43	107 29	98 31	99 30	90 40	93 35
36	RN 230101	RN 230101	EX 200019	RN 150021	0.0	120 66	83 44	114 42	102 21	93 28	91 27	85 37	86 32
37	RN 230113	RN 230113	EX 200019	RN 190002	0.0	112 66	88 41	129 36	96 21	94 27	97 25	93 34	94 30
38	RN 230131	RN 230131	EX 200410	RN 130477	0.0	122 66	81 44	100 43	107 21	104 24	96 26	84 36	89 31
39	RN 240023	RN 240023	T 160232	Q 170015	0.0	74 64	110 44	105 43	103 34	94 41	99 33	112 42	106 38
40	RN 240029	RN 240029	T 160232	Q 170038	0.2	94 64	107 43	121 42	84 30	93 41	94 32	95 41	94 36
41	RN 240049	RN 240049	T 160232	WT 170041	0.2	99 66	104 34	103 36	102 20	89 39	92 28	103 34	97 31

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc		
						★★★★									
42	RN	240050	RN 240050	T 170157	EX 170212	0.1	71 67	108 53	83 43	98 32	107 38	97 33	101 45	99 39	
43	RN	240052	RN 240052	T 170157	Q 210058	0.4	129 66	90 51	89 34	92 21	109 32	94 28	81 39	86 34	
44	RN	240060	RN 240060	EX 200019	EX 180520	1.8	115 66	87 53	116 46	102 34	96 36	96 34	94 45	94 40	
45	RN	240067	RN 240067	RV 160046	Q 160137	0.6	119 69	98 49	76 47	97 31	108 43	94 35	89 45	90 40	
46	RN	240068	RN 240068	T 170157	RN 180013	0.0	71 67	109 44	95 40	99 10	96 26	94 24	105 34	99 29	
47	RN	240069	RN 240069	RV 160046	RN 150005	0.0	114 67	92 36	87 38	101 12	100 33	90 25	86 33	87 29	
48	RN	240070	RN 240070	T 170157	FHU 160041	0.3	114 71	76 44	85 35	110 16	108 37	92 28	77 37	83 32	
49	RN	240072	RN 240072	EX 200019	Q 190097	0.0	95 67	102 54	104 45	100 33	91 37	92 34	100 45	95 40	
50	RN	240074	RN 240074	T 160232	Q 190101	0.4	119 66	94 42	102 36	100 26	92 39	90 30	91 38	89 34	
51	RN	240075	RN 240075	EX 200019	RN 160001	0.0	103 66	91 42	128 38	96 21	94 28	97 26	96 35	96 30	
52	RN	240078	RN 240078	T 170157	RN 210005	0.4	69 68	113 49	87 31	97 20	101 33	95 28	104 38	99 33	
53	RN	240087	RN 240087	T 160232	EX 180220	0.0	100 66	105 43	110 41	96 29	95 42	97 32	104 41	100 36	
54	RN	240089	RN 240089	T 170157	FHU 130083	0.3	70 71	112 42	84 35	102 14	94 36	90 27	103 36	96 32	
55	RN	240093	RN 240093	EX 200019	Q 180051	0.4	100 67	93 52	119 44	87 32	103 36	98 33	88 44	92 38	
56	RN	240096	RN 240096	T 170157	Q 190122	0.5	81 68	107 52	79 39	108 27	104 34	98 31	105 42	102 36	
57	RN	240099	RN 240099	EX 200410	RN 220102	0.2	97 67	79 50	105 37	91 25	116 29	99 28	79 39	87 34	
58	RN	240104	RN 240104	EX 200410	T 220086	0.1	106 65	75 39	96 31	104 22	112 28	97 25	80 33	87 29	
59	RN	240122	RN 240122	T 160232	WT 160062	0.2	102 66	102 30	96 32	113 15	92 39	96 26	106 31	101 28	
60	RN	240123	RN 240123	EX 200410	RN 220104	0.2	100 67	79 51	96 38	93 25	117 29	97 29	77 40	85 34	
61	RN	240126	RN 240126	EX 200410	RN 220024	0.2	101 66	74 46	95 32	104 22	112 26	96 25	78 36	85 30	
62	RV	190016	RV 190016	FB 130106	RV 160053	1.4	92 62	106 43	101 53	86 28	104 45	96 35	93 43	94 39	
63	RV	190019	RV 190019	FF 090187	RV 130081	0.0	101 65	116 56	102 64	85 37	101 47	99 41	104 52	101 46	
64	T	170156	T 170156		T 090270	0.0	113 62	86 49	87 61	117 33	96 32	92 34	90 45	90 40	
65	T	190151	T 190151		T 090086	0.0	95 35	96 31	99 45	124 18	90 17	98 21	112 28	106 24	
						★★★★									
1	FHU	100097	FHU 100097	JS 010262	FHU 070003	0.0	101 87	100 40	90 41	86 27	93 60	80 37	77 45	77 41	
2	FHU	220061	FHU220061	T 120292	FHU 160043	0.0	91 74	95 68	100 33	116 16	81 47	85 35	96 49	90 42	

Selection List on Cow Value

Cows 2 years and older

ID Name Sorted on ID		Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★								
3	FHU 220067	FHU220067	K 170041	FHU 130059	0.1	9374	10266	10333	9914	8941	8832	9646	9239
4	MEN 180029	MEN 180029	PH 120075	MEN 140016	0.0	11165	8657	9764	11348	8946	8642	8654	8548
5	Q 130084	Q 130084	N 070055	RT 070036	0.0	7265	13682	8083	8460	8259	8055	10672	9364
6	Q 140086	Q 140086	Q 070062	SK 080030	0.1	6668	12280	7981	7861	10357	8954	9071	8862
7	Q 160096	Q 160096	N 070055	GF 030148	0.0	6974	12177	9176	7954	9657	8752	9168	8860
8	Q 160105	Q 160105	N 070055	Q 140032	0.2	7069	12376	9971	9149	8655	8849	10865	9857
9	Q 180007	Q 180007	DH 100041	Q 120125	0.0	6467	11876	8071	8251	10252	8949	9065	8857
10	Q 220130	Q 220130	Q 180035	RT 070058	0.3	8846	10872	10756	8038	9541	8940	8755	8748
11	RN 220024	RN 220024	T 170157	RN 190012	0.0	10068	9755	8730	9910	9827	8925	8937	8831
12	RN 220101	RN 220101	Q 170004	RN 180013	0.0	10570	8769	9844	9421	9529	8332	7548	7740
13	RN 220115	RN 220115	Q 170004	BBC 170133	0.0	8767	10169	9143	10028	8933	8334	9149	8642
14	RN 220129	RN 220129	Q 170004	Q 160137	0.1	9570	10172	8449	9236	10038	8738	8654	8546
15	RN 230011	RN 230011	Q 170004	T 120017	0.0	9267	9652	10043	9225	8735	8031	8143	7937
16	RN 230018	RN 230018	Q 170004	EX 150411	0.1	10270	8959	9249	8939	10543	8838	7350	7844
17	RN 240002	RN 240002	T 170157	RN 200058	0.0	9665	9636	8723	10010	9525	8620	8728	8524
18	RN 240018	RN 240018	T 170157	T 190184	2.3	10862	9037	8324	1009	9828	8421	8029	8125
19	RN 240032	RN 240032	RV 160046	RN 190035	0.0	11966	8129	7825	10112	10033	8022	7028	7325
20	RN 240033	RN 240033	EX 200019	RN 190025	0.0	10766	7542	11538	9921	9328	8626	7635	7930
21	RN 240036	RN 240036	T 160232	Q 150033	0.2	8665	11444	9243	9032	8742	8333	9642	8938
22	RN 240038	RN 240038	T 160232	Q 170036	0.4	10967	10044	9443	9431	9040	8332	8741	8436
23	RN 240041	RN 240041	T 160232	RN 150190	0.0	9564	10425	10529	10210	8132	8421	9826	9124
24	RN 240045	RN 240045	RV 160046	RN 150018	0.0	12567	8238	7241	10812	10133	8326	7334	7630
25	RN 240131	RN 240131	T 160232	Q 140086	0.2	7167	11845	8545	9132	8941	8333	9842	9038
26	T 120017	T 120017	T 030191	T 070850	0.0	9161	9257	12263	10926	8049	8939	9651	9245
27	T 220086	T 220086		T 190198	0.0	11452	9225	8924	10016	9730	8721	8526	8524
28	WT 170025	WT 170025	GL 120033	WT 090039	0.0	11168	9351	8556	11628	8852	8539	9149	8744
29	WT 170033	WT170033	GL 120033	WT 100027	0.0	10968	9556	9464	11038	8851	8742	9253	8948
30	WT 180077	WT180077	GL 120033	WT 120067	0.0	10368	9358	9864	11843	7645	8041	9253	8547

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
						★★★								
1	EX	160356	EX 160356	EX 060330	EX 110244	6.3	9760	11176	8574	9248	8154	7449	8865	8057
2	FHU	130083	FHU 130083	LP 070198	FHU 060001	0.0	8284	9944	9152	10519	8355	7837	8945	8341
3	FHU	160043	FHU160043	PH 100003	FHU 060051	0.0	12583	7950	9054	10523	9254	7938	7148	7343
4	FHU	160047	FHU160047	GL 090026	FHU 060063	0.3	10184	9642	9436	8923	9054	7835	7443	7439
5	Q	190097	Q 190097	DH 100041	RV 060069	0.0	7967	11975	6566	11050	8252	7948	10363	9156
6	RN	200016	RN 200016	MII 130292	T 170099	0.0	12057	7966	12238	9220	7648	7136	6749	6742
7	RN	220039	RN 220039	Q 170004	RN 120389	0.0	9967	9768	9341	9321	9029	7931	8046	7838
8	RN	220093	RN 220093	Q 170004	WT 180077	0.0	9672	9770	8443	9731	8440	7237	7852	7344
9	RN	230001	RN 230001	Q 170004	NH 170071	0.0	8667	10752	8840	8523	8837	7631	7942	7636
10	RN	240048	RN 240048	T 160232	RN 130477	0.0	11865	9432	9438	10810	7830	7623	8430	7926
11	T	190184	T 190184		T 150089	0.0	11940	8220	9022	10014	9133	7720	7124	7222

Selection List on Cow Value

Bull Calves younger than 2 years

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★★★☆								
1	RN 250008	RN 250008	RN 200109	Q 220147	0.1	101 61	107 36	100 29	83 18	106 24	97 22	92 30	94 26
2	RN 250010	RN 250010	T 170042	RN 220101	0.1	100 66	88 42	113 31	96 14	94 28	90 24	86 33	86 28
3	RN 250023	RN 250023	T 170042	RN 220108	0.1	78 66	103 42	108 32	97 17	94 32	94 26	100 35	97 30
4	RN 250024	RN 250024	RV 160046	Q 210113	0.3	108 46	99 45	75 33	108 20	101 36	93 28	93 37	92 32
					★★★								
1	RN 250001	RN 250001	T 160232	EX 150411	0.0	116 49	88 44	101 44	102 35	94 42	89 33	85 42	86 38
2	RN 250003	RN 250003	T 160232	Q 160058	1.4	95 48	108 45	94 44	86 32	92 41	84 33	86 42	84 38
3	RN 250016	RN 250016	RN 200109	FHU 220067	0.2	93 65	102 41	105 25	95 8	91 26	89 21	95 30	91 26
					★★★								
1	RN 250012	RN 250012	T 160232	RN 220093	0.2	123 66	93 40	87 28	103 18	79 36	72 26	78 34	74 30
2	RN 250014	RN 250014		RN 230018	0.0	113 61	86 30	93 25	95 20	89 22	76 20	71 26	71 23

Selection List on Cow Value
Heifers younger than 2 years

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★★★☆								
1	RN 250018	RN 250018	RV 160046	Q 230028	0.1	64 65	125 41	82 37	88 25	119 38	111 29	115 38	114 34
					★★★★☆								
1	RN 250011	RN 250011	RN 200109	FHU 220089	0.1	90 64	101 42	102 24	101 10	93 29	92 23	99 31	95 27
2	RN 250017	RN 250017	T 170042	FHU 160047	0.7	69 69	105 31	111 28	93 14	91 36	91 24	98 31	94 28
3	RN 250020	RN 250020	RV 160046	FHU 220061	0.0	93 68	98 45	82 30	110 15	97 39	91 28	94 37	92 32
					★★								
1	RN 250002	RN 250002	T 160232	RN 220079	0.1	103 50	100 41	88 30	104 21	89 36	85 27	92 35	88 31
2	RN 250004	RN 250004	T 160232	FHU 150061	0.2	108 57	93 30	92 32	110 15	87 41	84 26	88 31	85 28
3	RN 250019	RN 250019	RV 160046	FHU 160043	0.0	125 70	85 38	77 37	103 16	103 41	86 29	76 36	79 32

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

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

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

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

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

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

How to use breeding values to select animals

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

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

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

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

How to improve the herd genetically

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

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

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

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

Conclusion

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

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

