

NGUNI

BREEDING VALUE REPORT

September 2026



MR E.L. MATJUDA

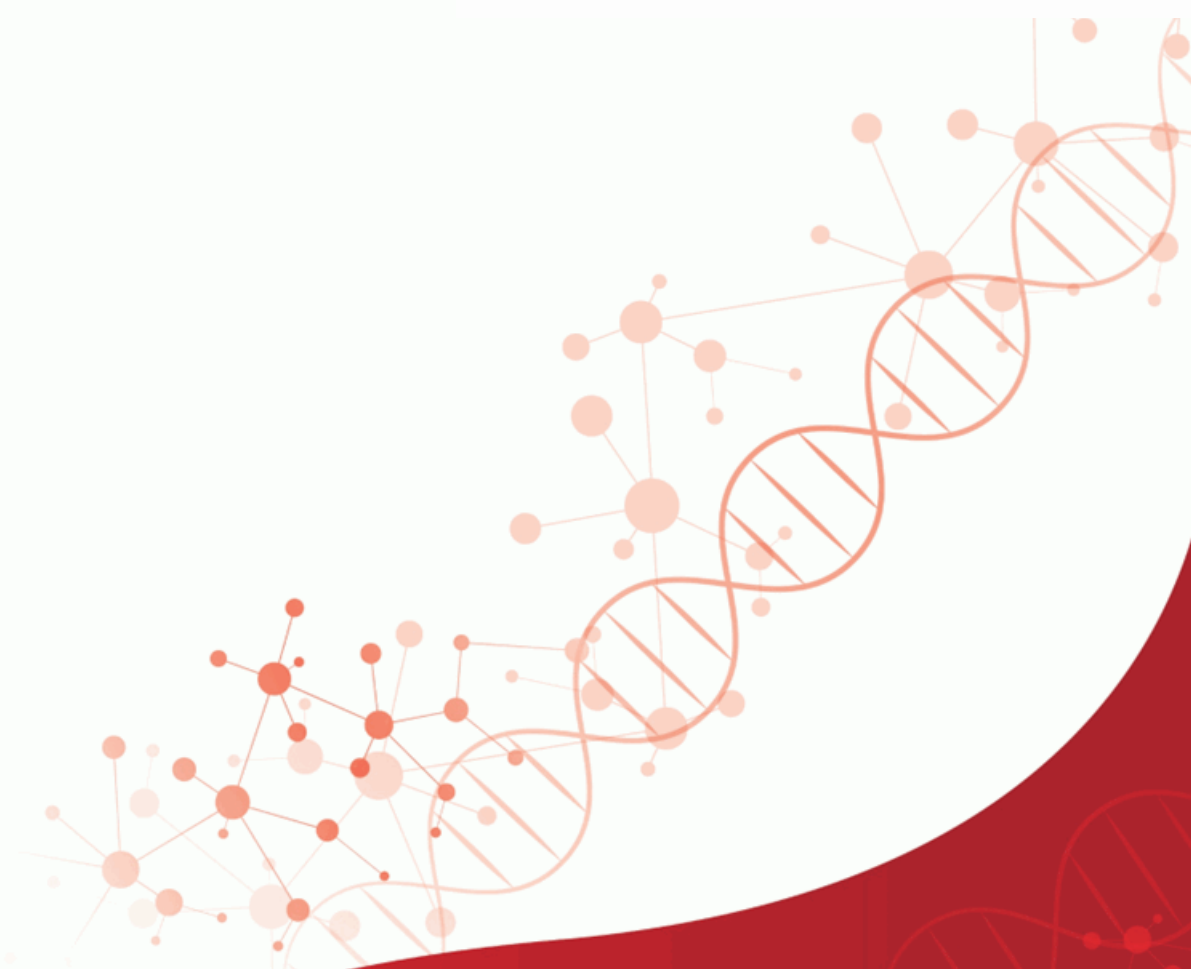
Herd Number: 304175

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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.

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



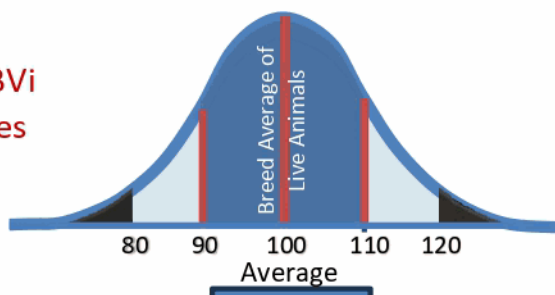
80% LOGIX Cow Value +
20% LOGIX Growth Value

LOGIX Carcass Value

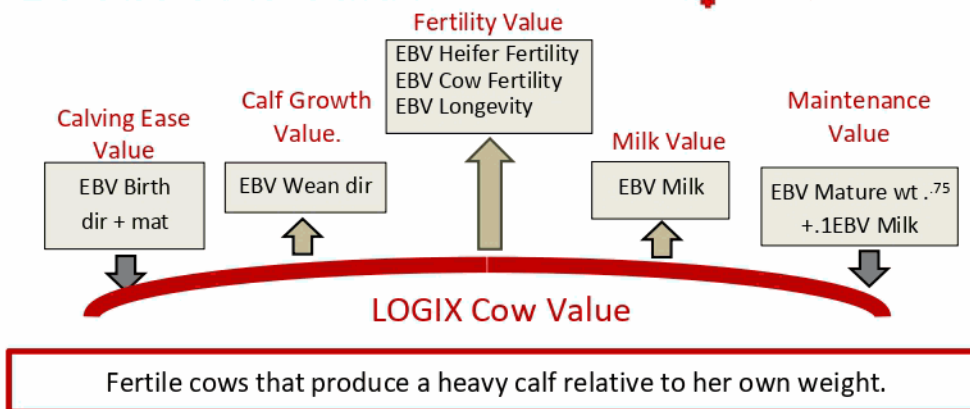


Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

Interpretation of EBVi and Selection Values



LOGIX Cow Value



How to use the Cow Value

Selection values should be compatible with your selection goal.

AVERAGE ANIMALS

(NO GROWTH EXTREMES)

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

GROWERS

(GOOD ENVIRONMENT)

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

LOW- MAINTENANCE ANIMALS

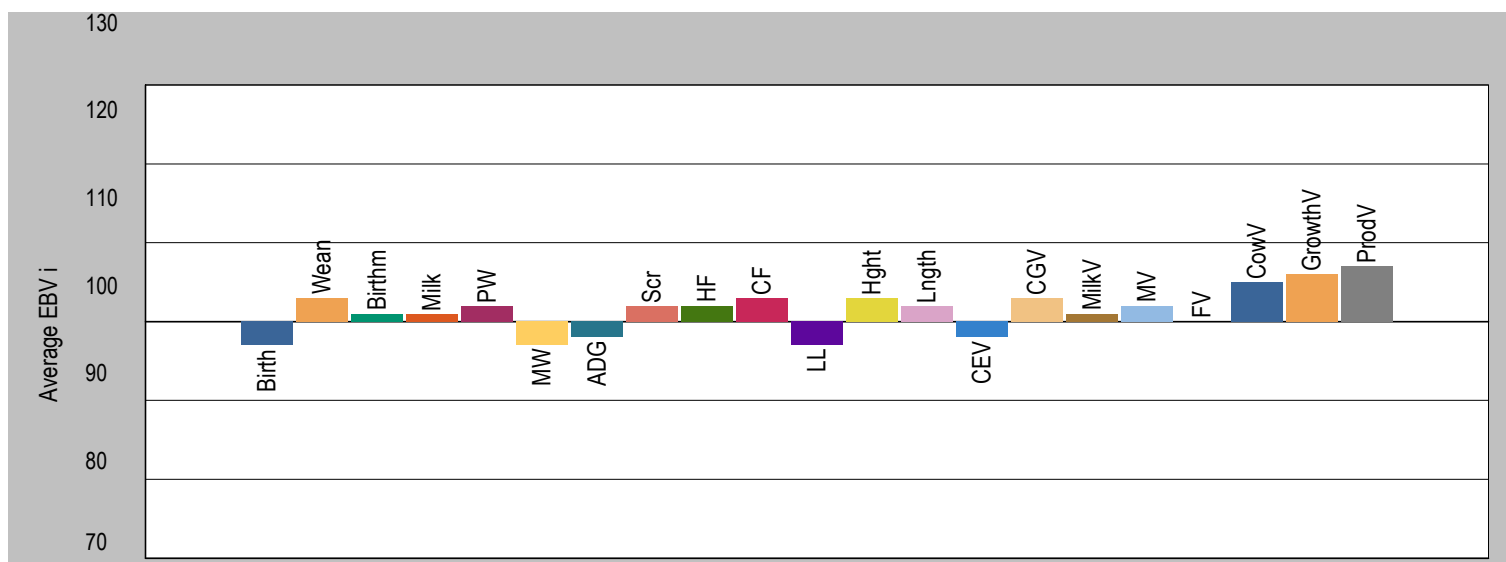
(HARSH ENVIRONMENT)

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

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	0.27	97	0.12
	Wean Weight	3.8	103	2.6
	Birth Mat.	0.03	101	0.05
	Milk (Wn.Mat.)	1.1	101	1.0
Postwean Growth	Postwean Wt	4.7	102	3.7
	Mature Weight	2	97	5
	ADG	8	98	12
Fertility	Scrotal Circumf.	4.5	102	3.8
	Heifer Fertility	-7.8	102	-6.2
	Cow Fertility	-3.6	103	-2.9
	Longevity	21.3	97	23.2
Frame	Height	4	103	2
	Length	6	102	5

Selection Value	Ave. Herd
Calving Ease	98
Calf Growth	103
Milk	101
Maintenance	102
Fertility	100
Cow Value	105
Growth Value	106
Production Value	107

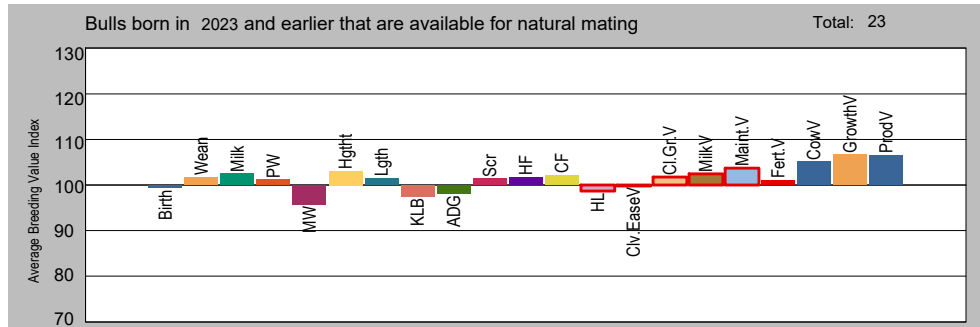
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

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

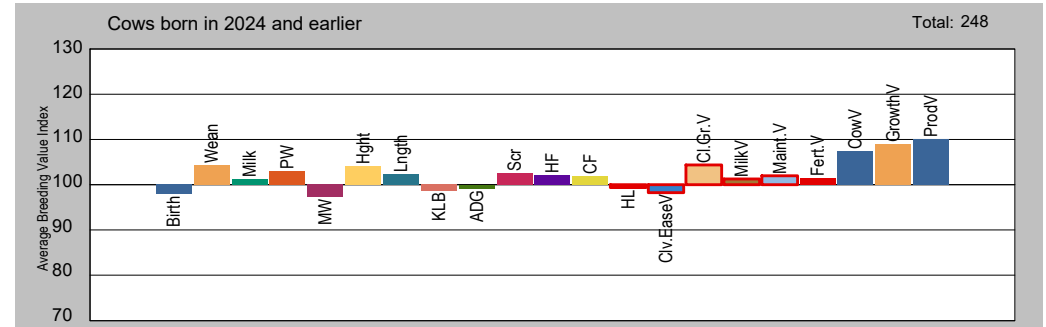
Genetic Windows

Bulls on the farm



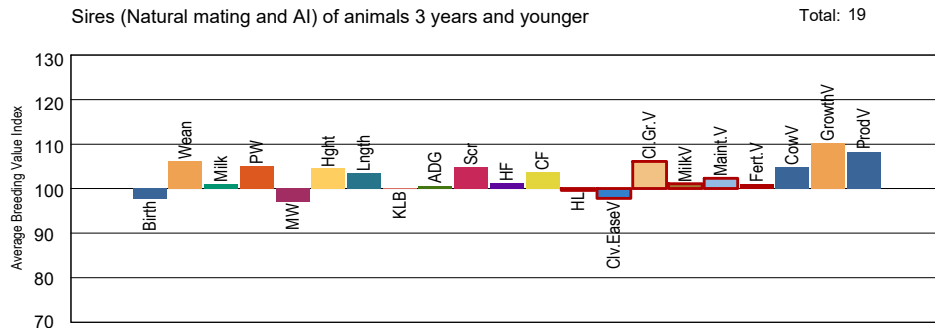
Animals available for breeding

Cow Herd

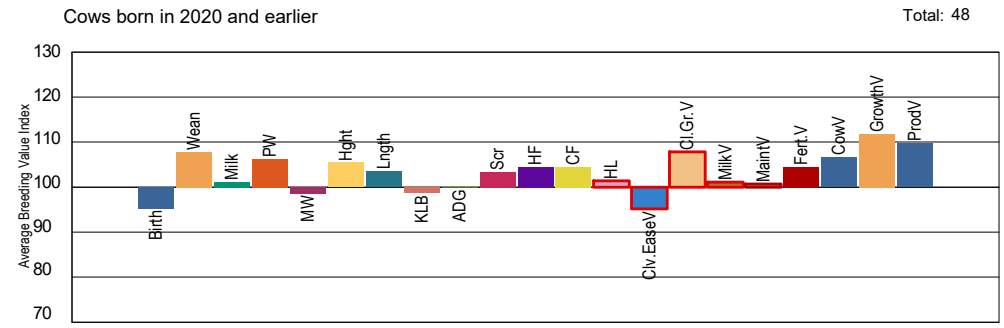


Results of previous selection decisions

Sires of young animals

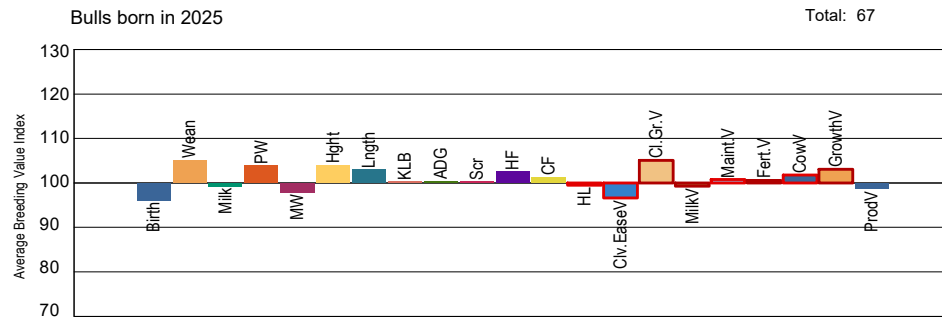


Cows older than 6 years

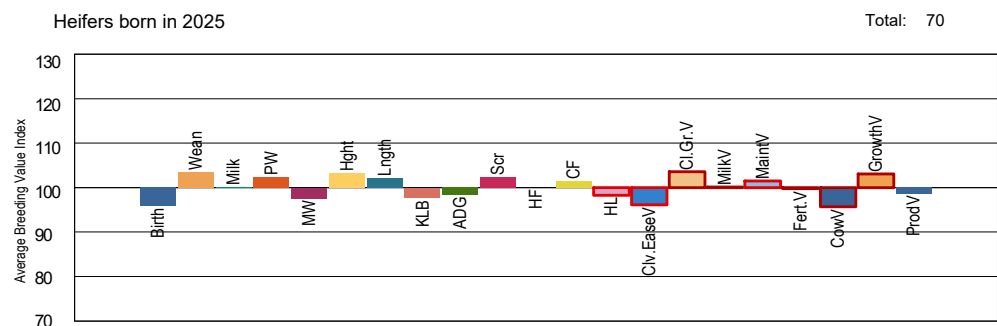


Selection possibilities

Bull calves



Heifer calves

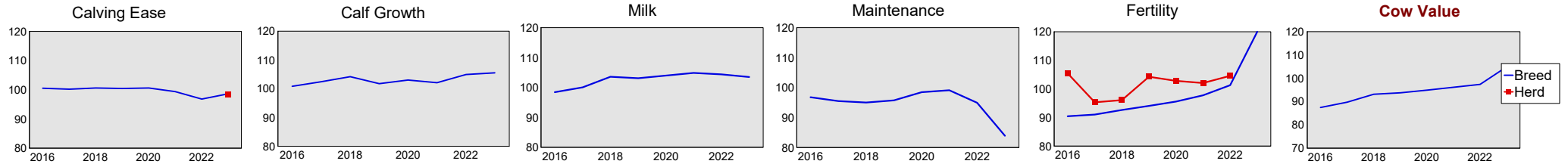


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertility				Frame	
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
			Cows in Breed Average:										100	100	100	100	100	100	100	100	100	100	100	100
2012	1	★★★★	77	117	113	94	90	97	114	106	78	117	97	113	114	104	85	74	100	106	99	78	119	112
2015	8	★★★★☆	95	104	96	100	102	101	103	102	95	104	98	96	105	100	98	100	98	104	104	100	106	100
2016	11	★★★★☆	101	102	97	108	97	103	108	106	99	102	105	97	100	93	93	92	105	101	102	96	105	99
2017	22	★★★★	97	101	100	104	92	98	102	100	95	101	107	100	99	96	95	94	100	102	101	92	103	101
2018	34	★★★★	96	102	97	105	94	98	102	102	94	102	107	97	100	95	94	93	98	104	101	88	101	100
2019	12	★★★★☆	97	106	101	101	101	103	108	105	96	105	104	101	104	98	98	96	103	103	107	94	103	102
2020	30	★★★★☆	96	105	101	102	102	106	110	109	96	105	100	101	104	98	99	98	101	104	101	102	104	103
2021	51	★★★★★	99	104	101	102	101	112	111	114	98	104	101	101	102	97	99	99	103	106	102	99	103	103
2022	37	★★★★★	100	106	101	103	106	116	114	119	100	106	99	101	105	97	101	100	102	107	99	107	105	104
2023	58	★★★★☆	98	104	103	102	98	105	107	109	97	104	100	103	102	97	98	97	103	103	102	93	104	102
2024	86	★★★★☆	99	101	100	103	95	101	102	102	99	101	102	100	100	96	98	98	101	96	100	94	103	100
2025	70	★★★★	96	104	100	102	100	96	103	99	96	104	100	100	102	98	98	98	102	100	101	98	103	102
Cows in Herd Average:			96	105	101	102	98	103	107	106	95	105	102	101	103	97	96	95	101	103	102	95	105	102

Genetic Trends for On-Farm Traits

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



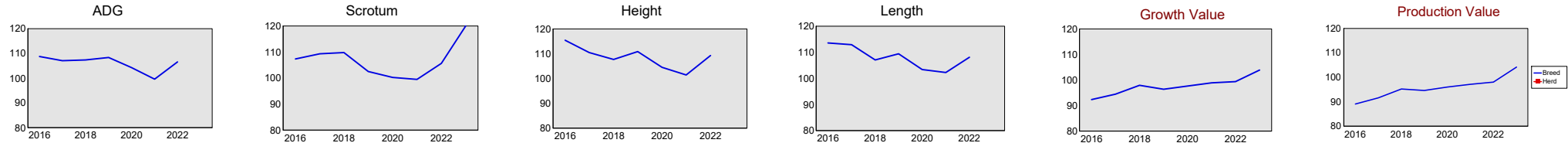
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance			Fertility						Cow Value	
	Birth Weight		Calv. Ease	Dir	Mat	Weaning Weight	Calf Growth	Milk (Wn.Mat.)		Postwean Weight	Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity			Ferti- lity
	Number	EBV						Number	EBV		Milk	Number		EBV	Number	EBV	Number	EBV	Number		
2016														5 -3.4		5 -5.7		5 22.2		105	
2017														3 -14.4		2 -2.4		3 17.9		95	
2018														11 -8.4		8 -3.0		11 15.8		96	
2019														11 -9.0		11 -4.8		10 20.5		104	
2020														19 -10.9		15 -3.6		18 22.3		103	
2021														20 -11.1		9 -5.6		16 18.0		102	
2022														14 -12.5				1 5.2		105	
2025	2	0.22	0.01	99																	

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		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	
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		
2016														
2017														
2018														
2019														
2020														
2021														
2022														
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 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
BN 080897		BN 040265 BN 050332	91	107	92	90	82	75	84	78	93	107	89	92	109	109	120	103	57	100	90	122	110				
08 897			36	44	34	22	60	35	43	39	0.45	5.0	0.37	-0.8	8.3	13	55	4.9	29.1	-2.8	17.8	13	13				
36											36	44	35	34	28	22	34	37	64	36	80	37	36				
DN 180199		LEB 090669 SVH 140216	108	81	116	108	103	103	92	96	107	81	100	116	81	92	88	107	107	114	86	87	91				
DN 180199			56	48	45	20	49	34	44	39	-0.21	-3.9	0.04	4.7	-5.7	-2	-14	6.5	-12.3	-6.3	15.5	-4	-2				
56											58	48	48	45	36	20	37	42	58	23	67	43	41				
EL 050007		EL 960004 EL 940002	75	112	73	113	73	72	96	84	78	112	89	73	114	90	97	96	82	82	80	101	102				
EL 050007			72	72	60	42	52	45	60	52	1.19	6.9	0.38	-5.2	11.0	-4	5	2.1	8.9	1.4	12.5	3	7				
72											75	72	58	60	40	42	45	48	54	33	68	49	47				
EL 050042		LEB 950627 DTK 990077	95	115	96	112	101	110	125	119	92	115	115	96	109	90	103	92	107	106	91	100	105				
EL 050042			79	81	62	44	68	52	69	60	0.54	7.9	-0.37	0.2	8.5	-5	17	0.6	-12.1	-4.4	18.4	2	9	4	7	2	2
79											82	81	65	62	62	44	46	51	74	46	84	52	50				
EL 060014		IDI 000108 EL 010021	69	141	106	91	103	116	138	129	75	141	78	106	135	107	118	137	98	110	95	150	132				
EL 060014			73	64	57	47	53	44	58	51	1.38	17.1	0.66	2.3	21.3	11	53	17.8	-4.9	-5.2	20.6	27	29	3	2		
73											77	64	55	57	46	47	51	54	55	38	67	55	54				
EL 070095		IDI 000108 EL 020036	114	90	122	113	85	96	101	98	113	90	102	122	99	87	111	132	85	90	92	138	116				
EL070095			70	71	55	36	47	42	57	50	-0.52	-0.9	-0.01	6.2	3.0	-7	35	15.9	6.3	-0.6	18.7	21	17				
70											74	71	52	55	48	36	63	72	46	30	66	74	70				
EL 090069		VAD 020006 EL 040036	105	123	104	93	88	96	117	107	105	123	98	104	120	105	98	149	99	114	62	112	119				
EL090069			69	72	40	25	54	40	55	48	-0.12	10.8	0.11	2.1	13.5	9	8	22.6	-5.1	-6.2	2.9	8	19				
69											74	72	43	40	43	25	62	71	55	33	75	73	70				
EL 100249		EL 050042 EL 050019	80	125	97	100	102	109	129	120	83	125	87	97	119	98	107	109	98	104	101	109	107				
EL 100249			68	69	55	37	64	46	60	53	0.95	11.5	0.43	0.4	13.2	3	28	7.3	-4.9	-3.7	23.5	7	11	4	4	1	5
68											71	69	54	55	56	37	32	36	72	41	78	37	35				
EL 110132		DML 070358 EL 070054	106	112	111	98	106	113	122	118	108	112	89	111	113	99	116	106	135	95	97	111	115				
EL 110132			45	49	35	25	57	36	45	40	-0.26	6.7	0.36	3.6	10.1	4	48	6.1	-35.1	-1.7	21.7	7	16				
45											47	49	36	35	30	25	26	30	65	32	74	30	29				
EL 110140		EL 050042 EL 040007	107	104	87	117	102	105	114	110	104	104	114	87	102	86	94	105	108	91	109	101	100				
EL 110140			54	54	48	35	53	39	50	44	-0.05	4.1	-0.34	-2.1	4.9	-8	-2	5.6	-13.2	-0.9	27.8	3	5				
54											56	54	47	48	38	35	35	38	55	32	71	39	38				
EL 110160		EL 060025 EL 050049	93	127	93	107	102	113	134	125	93	127	97	93	124	94	104	115	100	119	84	115	113				
EL 110160			57	54	50	40	61	43	53	48	0.46	12.3	0.13	-0.5	15.7	-1	20	9.4	-6.0	-7.3	14.3	9	15				
57											59	54	48	50	42	40	38	43	67	38	77	44	42				

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	
EL 110447 11447			99 13				94 20				100 0.14 13		96 0.15 14								103 25.0 57							
EL 120086 GHB 020031 EL 050067			94	107	94	111	99	103	112	108	91	107	111	94	102	91	81	88	100	98	101	105	98					
EL 120086			56	53	34	28	46	34	45	40	60	53	36	34	41	28	35	39	48	27	63	40	38					
EL 140097 WER 090007 EL 080110			91	102	120	90	102	104	102	103	91	102	100	120	100	107	99	121	92	119	88	105	105					
EL 140097			48	49	32	20	52	33	43	38	51	49	33	32	32	20	29	32	56	33	67	33	32					
EL 150183 EL 120152			90	106	106	89	107		102		89	106	103	106	103	109	103	107	104	113	97	107	109					
EL 150183			24	24	17	11	35		24		0.65 25	4.7 24	-0.02 17	2.4 17	5.3 14	13 11	18 11	6.3 13	-9.5 35	-5.9 21	21.4 49	5 13	12 13					
EL 160103 EL 110140 EL 080030			110	108	97	114	97	106	118	113	109	108	102	97	108	88	99	107	105	93	100	101	99					
16103			43	44	33	21	43	30	39	34	-0.30 45	5.5 44	-0.01 33	0.3 33	7.5 28	-7 21	9 24	6.4 27	-10.3 39	-1.3 19	23.0 71	3 28	4 26					
EL 160171 BN 080897 EL 110073			93	112	104	89	99	98	104	101	95	112	91	104	113	109	120	112	95	103	98	120	116					
16171			30	31	23	14	46	25	31	28	0.37 31	6.9 31	0.32 24	1.8 23	10.3 20	13 14	56 21	8.3 23	-2.4 46	-3.6 23	22.2 69	12 23	17 22					
EL 180035 EL 110132 EL 140250			96	112	104	96	111	113	119	117	96	112	100	104	110	101	108	106	119	95	116	109	112		2			
180035			29	28	22	16	36	22	28	25	0.34 30	6.9 28	0.04 22	2.0 22	8.8 18	6 16	30 16	6.0 18	-22.3 35	-1.6 18	31.6 54	7 18	14 17					
EL 180036 BN 080897 EL 120218			104	109	92	94	90	86	95	90	104	109	96	92	109	105	114	102	73	96	101	111	104					
1836			34	36	31	21	48	29	36	32	-0.07 35	5.7 36	0.17 31	-1.0 31	8.1 23	9 21	43 25	4.6 28	16.5 50	-2.0 26	23.8 67	8 28	8 27					
EL 180041 EL 140037			97	95	99	112	93				95	95	110	99	95	90	92	96	96	97	92	102	100					
1841			18	18	14	11	23				0.39 19	1.0 18	-0.24 14	0.8 14	1.0 12	-5 11	-5 12	2.3 13	-2.8 15	-2.3 10	19.1 44	3 14	5 13					
EL 180058 EL 070095 EL 130117			105	92	108	118	99	105	108	106	104	92	101	108	96	83	99	107	98	92	107	108	99					
1858			39	40	33	22	34	26	35	30	-0.06 41	-0.3 40	0.01 31	2.9 33	1.9 26	-10 22	9 33	6.5 38	-4.6 29	-1.1 18	26.9 56	6 39	4 37					
EL 180060 WER 090007 EL 090115			83	106	115	93	95	98	104	101	84	106	97	115	103	104	97	115	92	111	84	97	100					
1860			48	49	32	20	46	31	41	36	0.92 51	4.9 49	0.13 33	4.5 32	5.4 29	9 20	5 28	9.3 31	0.6 47	-5.4 29	14.6 61	0 31	5 30					

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		
EL 180070																													
EL1870																													
EL 180085			EL 050042																										
EL 150128																													
EL 180085																													
EL 180115			EL 160202																										
EL 100003																													
EL18115																													
EL 180120			EL 140097																										
EL 090031																													
EL 18 120																													
EL 180152			EL 120086																										
EL 110059																													
EL 18 152																													
EL 200024			EL 180085																										
EL 150185																													
EL2024																													
EL 200034			EL 160040																										
EL 200034																													
EL 200045			EL 110447																										
EL 160049																													
EL 200045																													
EL 200065			WER 090007																										
EL 150121																													
EL 20 65																													
GHB 020031																													
GHB0231 - HONZA																													
JA 060142			JA 010050																										
JA 990939																													
JA060142																													

Sires

Bull			Selection Values								Calf		Dam		Growth			Fertility				Frame		Measured Progeny				
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease	Calf Grwth	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Long- evity	Height	Length	Birth wt	Wean wt	Dgt/Calvs.	Grwth Test	
			Value	Value																								
LEB 090669		LEB 040400 TTT 990011	112	63	132	117	103	105	85	94	-0.49	-10.6	0.19	8.4	-10.9	-11	-42	3.5	-14.6	-6.2	15.1	-6	-5	85	66	16	38	2
LEB 090669			91	88	82	43	66	56	75	66	92	88	85	82	65	43	70	78	66	47	86	79	76					
WER 090007		NI 020599 NI 970327	81	103	130	80	98	98	92	94	0.85	3.5	0.52	7.9	4.9	23	34	8.4	-1.9	-7.2	11.5	6	13					
WER 090007			66	65	50	33	66	45	58	52	69	65	51	50	46	33	37	41	72	44	81	42	41					

Breeding Values and Accuracies: Bulls

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
DN 180199	87300075	3	LEB 090669 SVH 140216	108	81	116	108	103	103	92	96	107	100	92	81	116	102	81	88	107	107	114	86	87	91
DN 180199	87300075	3	LEB 090669 SVH 140216	56	48	45	20	49	34	44	39	-0.21	0.04	-2	-3.9	4.7	22	-5.7	-14	6.5	-12.3	-6.3	15.5	-4	-2
DN 180199	87300075	3	LEB 090669 SVH 140216	58								58	48	20	48	45	38	36	37	42	58	23	67	43	41
EL 180035	88912019		EL 110132 EL 140250	96	112	104	96	111	113	119	117	96	100	101	112	104	112	110	108	106	119	95	116	109	112
EL 180035	88912019		EL 110132 EL 140250	29	28	22	16	36	22	28	25	0.34	0.04	6	6.9	2.0	45	8.8	30	6.0	-22.3	-1.6	31.6	7	14
EL 180035	88912019		EL 110132 EL 140250	30								30	22	16	28	22	22	18	16	18	35	18	54	18	17
EL 180036	89059547		BN 080897 EL 120218	104	109	92	94	90	86	95	90	104	96	105	109	92	97	109	114	102	73	96	101	111	104
EL 180036	89059547		BN 080897 EL 120218	34	36	31	21	48	29	36	32	-0.07	0.17	9	5.7	-1.0	12	8.1	43	4.6	16.5	-2.0	23.8	8	8
EL 180036	89059547		BN 080897 EL 120218	35								35	31	21	36	31	29	23	25	28	50	26	67	28	27
EL 180041	92909217		EL 140037	97	95	99	112	93				95	110	90	95	99	100	95	92	96	96	97	92	102	100
EL 180041	92909217		EL 140037	18	18	14	11	23				0.39	-0.24	-5	1.0	0.8	18	1.0	-5	2.3	-2.8	-2.3	19.1	3	5
EL 180041	92909217		EL 140037	19								19	14	11	18	14	14	12	12	13	15	10	44	14	13
EL 180058	88921663		EL 070095 EL 130117	105	92	108	118	99	105	108	106	104	101	83	92	108	109	96	99	107	98	92	107	108	99
EL 180058	88921663		EL 070095 EL 130117	39	40	33	22	34	26	35	30	-0.06	0.01	-10	-0.3	2.9	37	1.9	9	6.5	-4.6	-1.1	26.9	6	4
EL 180058	88921663		EL 070095 EL 130117	41								41	31	22	40	33	32	26	33	38	29	18	56	39	37
EL 180085	93235331		EL 050042 EL 150128	92	116	96	98	117	118	123	121	92	100	100	116	96	109	113	108	97	105	118	109	105	106
EL 180085	93235331		EL 050042 EL 150128	43	44	33	23	45	30	40	35	0.53	0.04	5	8.2	0.0	37	10.3	29	2.8	-10.6	-7.1	28.1	5	10
EL 180085	93235331		EL 050042 EL 150128	45								45	35	23	44	33	33	33	26	29	46	28	62	29	28
EL 180152	93242832	4	EL 120086 EL 110059	107	97	101	119	103	110	115	113	104	111	82	97	101	108	95	80	86	99	101	106	104	95
EL 180152	93242832	4	EL 120086 EL 110059	38	37	27	17	36	25	33	29	-0.09	-0.26	-11	1.7	1.3	35	1.3	-31	-1.7	-5.3	-3.1	26.4	4	1
EL 180152	93242832	4	EL 120086 EL 110059	41								41	26	17	37	27	27	25	24	28	37	15	57	29	27
EL 200024	95365599	2	EL 180085 EL 150185	91	116	90	98	115	113	120	117	93	91	100	116	90	104	116	104	98	104	105	120	104	105
EL 200024	95365599	2	EL 180085 EL 150185	31	30	22	10	33	21	27	24	0.48	0.31	5	8.3	-1.4	26	11.5	21	3.0	-9.4	-4.1	33.8	4	8
EL 200024	95365599	2	EL 180085 EL 150185	32								32	24	10	30	22	21	19	15	18	33	15	50	18	17
EL 200034	92912468		EL 160040	102	94	92	110	99		95		99	114	92	94	92	91	90	90	99	106	95	100	96	92
EL 200034	92912468		EL 160040	19	19	18	16	24		20		0.20	-0.35	-3	0.4	-0.9	-1	-1.3	-11	3.3	-11.1	-1.6	23.0	0	-1
EL 200034	92912468		EL 160040	20								20	17	16	19	18	18	14	11	12	19	10	44	12	12
EL 200045	93225068		EL 110447 EL 160049	101				106				101	98										127		
EL 200045	93225068		EL 110447 EL 160049	6				15				0.09	0.11										37.5		
EL 200045	93225068		EL 110447 EL 160049									6	7										43		
EL 200065	91065409		WER 090007 EL 150121	81	108	100	91	102	98	101	99	83	88	107	108	100	102	107	101	101	95	105	102	105	106
EL 200065	91065409		WER 090007 EL 150121	38	38	31	21	40	27	35	31	0.94	0.38	11	5.5	1.0	24	7.2	15	4.2	-1.9	-4.0	24.2	5	10
EL 200065	91065409		WER 090007 EL 150121	40								40	31	21	38	31	30	26	23	25	39	23	57	26	25
EL 220042	94757879		DN 180199 EL 150053	109	88	96	117	103	102	99	100	108	103	85	88	96	93	87	87	96	107	104	96	84	87
EL 220042	94757879		DN 180199 EL 150053	34	31	29	17	31	22	29	26	-0.26	-0.03	-9	-1.5	0.0	3	-2.6	-17	2.3	-12.4	-3.8	21.1	-6	-5
EL 220042	94757879		DN 180199 EL 150053	35								35	31	17	31	29	26	20	21	24	33	16	43	25	24

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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																										
EL 220088 94758042 EL 220088		EL 110160 EL 120088		98 39	107 38	99 29	113 23	98 40	104 27	115 35	110 31	96 0.31 41	107 -0.14 28	89 -6 23	107 4.9 38	99 0.7 29	110 39 30	104 5.6 30	86 -20 26	97 2.7 29	105 -10.1 44	109 -4.9 24	83 14.0 51	110 7 30	102 7 29	
EL 220098 94753274 EL 220098		EL 160103 EL 170159		106 22	101 22	101 17	109 11	91 23		103 20		105 -0.13 23	101 0.03 16	93 -2 11	101 3.1 22	101 1.2 17	105 30 17	101 4.4 14	96 4 12	99 3.3 13	100 -6.6 20	91 -0.7 9	93 19.5 41	103 4 14	101 5 13	
EL 220136 94903721 EL22136		DN 180199 EL 150158		105 35	94 35	109 30	97 16	103 37	100 25	96 32	97 28	105 -0.13 36	95 0.21 30	100 5 16	94 0.4 35	109 3.2 30	102 23 27	92 -0.5 22	96 3 22	101 4.2 25	106 -11.4 43	113 -5.9 21	88 16.8 47	92 -2 25	94 0 24	
EL 220208 94756467 EL 220208		EL 160171 EL 160241		98 15	103 15	104 11	94 7	94 25				98 0.20 16	95 0.19 12	104 8 7	103 3.8 15	104 2.0 11	104 28 11	104 5.8 10	107 27 10	101 4.3 11	96 -2.6 23	96 -1.8 12	95 20.7 41	112 8 12	109 12 11	
EL 220212 94756491 EL 220212	1	EL 160171 EL 160042		99 27	108 26	104 20	100 12	98 30		111 24		99 0.15 28	95 0.18 20	98 3 12	108 5.5 26	104 2.0 20	111 42 19	110 8.6 16	106 24 17	108 6.8 19	96 -3.3 30	105 -4.0 14	94 19.8 45	115 10 19	107 11 19	
EL 230039 95582599 E2339		EL 110160 EL 200093		94 34	113 33	98 29	102 22	104 35	107 25	118 31	113 28	95 0.36 35	96 0.17 28	96 2 22	113 7.3 33	98 0.6 29	110 41 28	111 9.2 24	101 13 21	107 6.3 24	100 -6.6 37	112 -5.8 20	93 19.6 47	104 4 25	105 9 24	
EL 230101 95951232 EL 23 101		EL 180060 EL 170217		93 24	101 24	110 16	96 10	90 25		97 21		93 0.48 25	98 0.10 17	101 6 10	101 2.8 24	110 3.4 16	108 36 17	99 3.3 14	95 2 14	103 4.8 15	94 -1.1 23	99 -2.8 15	85 15.0 38	101 2 16	101 6 15	
EL 230174 96293121 EL 23 174		EL 110132 EL 170247		103 22	103 25	105 18	100 13	99 31		106 24		103 0.00 23	98 0.11 18	98 3 13	103 3.7 25	105 2.2 18	107 34 19	103 5.2 16	105 22 13	99 3.4 15	116 -19.5 33	94 -1.5 16	95 20.5 44	106 5 15	108 11 15	
EL 230183 96293212 EL 23 183		EL 110132 EL 130058		103 34	110 34	118 27	97 20	102 38	110 25	119 32	115 28	105 -0.10 35	91 0.32 27	100 5 20	110 6.1 34	118 5.1 27	122 67 27	112 9.8 22	109 31 20	113 8.8 22	126 -28.2 42	97 -2.1 22	92 18.6 49	113 9 23	112 14 22	
EL 230233 96316302 EL 23 233		DN 180199 EL 150093		104 31	88 27	109 25	108 13	102 33	102 21	95 26	98 24	103 0.00 32	103 -0.03 26	93 -2 13	88 -1.7 27	109 3.1 25	101 20 22	88 -2.1 19	88 -14 21	105 5.7 23	107 -12.1 39	107 -4.6 16	92 18.9 43	93 -1 24	93 0 23	
EL 240035 98313992 EL2435	1	EL 180120 EL 210154		98 24	106 25	106 12		103 24				98 0.24 26	99 0.08 14		106 4.7 25	106 2.4 12		105 6.3 10	98 8 14	111 8.0 16	100 -6.0 25	106 -4.2 8	99 22.5 38	105 5 17	105 9 16	
EL 240040 98285679 EL 24 40	1	EL 180120 EL 210086		97 24	108 24	101 12		105 23				97 0.26 26	99 0.08 13		108 5.6 24	101 1.3 12		107 7.0 9	99 11 12	111 7.8 15	103 -8.8 24	106 -4.4 7	100 23.0 38	104 4 16	106 9 15	

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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	
EL 240042 98285695 EL 24 42		EL 180120 EL 210062	94 24	110 25	103 12		105 24				94 0.42 26	100 0.06 13		110 6.0 25	103 1.8 12			107 7.5 9	100 11 13	110 7.8 15	103 -8.8 25	106 -4.2 8	101 23.8 39	104 4 16	106 9 15
EL 240043 98285703 EL 24 43		EL 200034 EL 210158	103 17	91 15	101 14	108 10	100 19				101 0.05 17	107 -0.15 15	93 -1 10	91 -0.6 15	101 1.3 14	96 10 13		89 -1.7 11	90 -10 11	99 3.4 12	104 -9.3 17	98 -2.4 7	100 23.2 32	96 0 12	95 1 12
EL 240044 98285711 EL 24 44	2	EL 180152 EL 210010	91 30	107 28	102 23	107 9	109 29		117 25		91 0.56 32	101 0.03 23	94 -1 9	107 5.1 28	102 1.4 23	110 40 20		105 6.3 21	95 0 15	93 1.3 19	103 -8.7 33	112 -5.8 13	101 23.5 40	101 2 19	97 3 18
EL 240045 98290703 EL 24 45		EL 180152 EL 200179	103 19	96 18	100 14	112 8	97 20				101 0.08 20	109 -0.20 13	89 -5 8	96 1.1 18	100 1.1 14	101 22 13		94 0.8 12	87 -17 12	89 -0.6 14	98 -4.6 18	97 -2.2 8	99 22.9 35	103 3 14	98 3 14
EL 240059 98290810 EL 24 59		EL 180120 EL 210115	99 24	98 24	106 12		103 23				98 0.20 26	100 0.06 15		98 1.8 24	106 2.5 12			96 2.0 9	91 -8 14	107 6.5 17	94 -1.5 24	109 -5.0 8	100 23.0 36	98 1 17	98 4 16
EL 240069 98290919 EL 24 69		EL 180036 EL 180071	97 19	105 22	93 18	96 12	94 28		95 22		97 0.29 20	100 0.06 17	103 7 12	105 4.4 22	93 -0.7 18	96 10 17		104 5.8 14	106 25 14	98 3.0 15	89 2.9 28	98 -2.4 15	97 21.6 41	106 5 16	101 6 15
EL 240077 98299001 EL 24 77		EL 200065 EL 210052	91 17	106 18	96 13		99 21				92 0.53 18	95 0.19 13		106 4.6 18	96 0.0 13	99 16 11		104 6.0 6		100 3.7 8	90 2.4 21	101 -3.1 7	103 24.8 36	105 5 8	104 8 7
EL 240079 98299027 EL 24 79		EL 180127	90 24	110 25	93 18	109 12	91 25		109 22		91 0.55 25	94 0.21 18	93 -2 12	110 6.1 25	93 -0.5 18	105 30 18		107 7.4 18	99 11 13	104 5.3 14	104 -9.7 29	103 -3.5 16	77 10.9 30	102 3 15	103 7 14
EL 240081 98299043 EL 24 81		EL 180120 EL 210271	95 21	104 22	97 8		96 20				93 0.46 23	106 -0.11 10		104 4.2 22	97 0.3 8			102 4.6 8	93 -4 12	107 6.6 14	93 -0.3 20	106 -4.4 6	89 17.2 33	100 2 14	101 6 14
EL 240084 98317217 EL2084	5	EL 180152 EL 210006	105 23	104 20	96 11		110 25				102 0.01 25	110 -0.22 11		104 4.0 20	96 0.2 11			101 4.3 8		94 1.6 9	108 -12.8 30	109 -5.0 6	104 25.1 39	100 2 11	96 2 7
EL 240086 98299084 EL 24 86	1	EL 180058 EL 190110	94 30	107 28	99 22	109 10	102 28		115 24		93 0.45 32	103 -0.04 21	92 -2 10	107 5.2 28	99 0.8 22	109 38 20		106 6.6 18	102 16 17	107 6.4 21	101 -7.5 30	102 -3.3 13	101 23.9 40	106 5 22	101 6 20
EL 240088 98299100 EL 24 88		DN 180199 EL 150158	105 35	94 35	109 30	97 16	103 37	100 25	96 32	97 28	105 -0.13 36	95 0.21 30	100 5 16	94 0.4 35	109 3.2 30	102 23 27		92 -0.5 22	96 3 22	101 4.2 25	106 -11.4 43	113 -5.9 21	88 16.8 47	92 -2 25	94 0 24

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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																								
EL 240089 98299118 EL 24 89	1	EL 200034 EL 210090	94 24	106 23	95 17	107 9	103 24		109 20		93 0.49 25	106 -0.11 17	94 0 9	106 4.6 23	95 -0.3 17	102 23 16	101 4.3 16	92 -5 9	99 3.4 12	108 -13.2 29	101 -3.1 9	100 23.1 35	103 3 12	99 4 11
EL 240102 98299621 EL 24 102		DN 180199 EL 160014	101 31	92 28	106 24	108 13	103 30	103 20	100 26	101 23	99 0.18 32	106 -0.12 26	93 -2 13	92 -0.1 28	106 2.4 24	102 22 22	90 -1.1 20	88 -16 21	102 4.7 23	105 -10.8 32	109 -4.9 15	93 19.4 43	96 0 24	97 3 23
EL 240110 98314065 EL 24 110		DN 180199 EL 170139	107 31	91 28	108 26	108 14	90 30	92 21	93 26	92 24	105 -0.14 32	102 -0.01 27	93 -2 14	91 -0.6 28	108 2.9 26	103 24 23	90 -1.2 20	94 -2 21	104 5.4 23	103 -9.0 32	104 -3.8 16	76 10.1 42	94 -1 24	95 1 23
EL 240113 98314099 EL 24 113		EL 180036 EL 180116	97 20	107 21	99 18	91 12	93 28		96 21		97 0.29 21	99 0.08 17	107 11 12	107 5.2 21	99 0.7 18	101 20 17	106 6.7 13	108 30 14	104 5.5 15	88 3.5 28	103 -3.5 15	91 18.5 41	109 7 15	107 10 15
EL 240116 98317209 EL 24 116		EL 150053	103 20	95 19	85 19	116 13	88 18				101 0.08 20	110 -0.22 19	86 -8 13	95 0.7 19	85 -2.6 19	87 -9 17	93 0.0 11	89 -12 11	89 -0.5 13	103 -8.8 16	96 -1.9 10	80 12.3 27	89 -4 13	91 -2 12
EL 240135 98341852 EL 24 135		EL 170177	100 20	93 20	100 17	108 11	80 17				97 0.27 21	110 -0.24 16	93 -2 11	93 0.1 20	100 1.0 17	97 11 16	93 0.5 14	95 1 17	102 4.5 19	96 -2.6 14	95 -1.7 9	70 6.8 28	105 4 20	101 5 19
EL 240139 98341894 EL 24 139		EL 170256	93 12	100 12	100 8	96 5	88 16				91 0.56 13	108 -0.18 9	102 7 5	100 2.6 12	100 0.9 8	98 14 8	97 2.4 6	98 7 6	100 3.6 6	101 -7.2 15	104 -3.7 9	73 8.8 25	102 3 7	104 8 6
EL 240160 98342108 EL 24 160		EL 180060 EL 180183	86 27	108 28	103 18	97 12	93 27		104 24		85 0.88 29	106 -0.13 19	101 6 12	108 5.5 28	103 1.8 18	108 37 19	103 5.3 18	97 4 16	104 5.4 18	96 -3.0 27	107 -4.6 16	81 12.9 39	101 3 18	104 8 18
EL 240166 98342165 EL 24 166	2	EL 180152 EL 200035	103 20	103 19	99 11		107 20				102 0.03 22	104 -0.07 11		103 3.6 19	99 0.8 11		100 3.9 8		92 0.6 10	101 -7.5 20		109 27.8 37	104 4 11	99 4 9
EL 240174 98342231 EL 24 174	1	DN 180199 EL 160203	105 33	87 30	107 27	102 13	95 34	90 22	86 28	87 25	104 -0.10 34	98 0.11 29	96 1 13	87 -2.1 30	107 2.7 27	97 11 23	89 -1.9 21	94 -2 20	100 3.7 23	85 6.1 39	105 -4.0 18	93 19.5 46	95 -1 24	93 0 23
EL 240177 98319676 EL 24 177		EL 180152 EL 200079	103 19	96 18	100 14	112 8	99 20				101 0.08 20	109 -0.20 13	89 -5 8	96 1.1 18	100 1.1 14	101 22 13	94 0.8 12	87 -17 12	89 -0.6 14	98 -4.6 18	97 -2.2 8	103 25.0 34	103 3 14	98 3 14
EL 240179 98368962 EL 24 179	13	EL 200065 EL 200106	85 7								87 0.74 8									98 -4.8 24		104 25.4 33		

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EL 240185 98369028 EL 24 185	1	DN 180199 EL 170102		96 30	94 27	113 24	101 10	97 29		97 25		96 0.31 31	100 0.05 26	96 1 10	94 0.4 27	113 4.0 24	107 33 20	93 0.2 19	95 0 20	108 6.7 22	102 -7.7 32	109 -5.1 13	82 13.5 42	98 1 23	99 4 22	
EL 240189 98369069 EL 24 189		EL 180035 EL 200091		98 17	108 17	104 12	98 8	102 21				98 0.23 18	99 0.09 13	100 5 8	108 5.3 17	104 2.0 12	109 38 12	106 6.8 10	102 16 11	106 5.9 12	107 -12.5 19	94 -1.6 9	106 26.5 36	106 5 13	108 11 12	
EL 240204 98369200 EL 24 204	1	EL 200065 EL 200039		90 25	109 25	101 20	98 12	108 28		114 23		92 0.51 26	91 0.31 20	99 4 12	109 6.0 25	101 1.2 20	108 36 19	108 7.8 16	102 17 13	104 5.3 15	110 -14.9 32	102 -3.4 14	107 26.7 39	105 5 15	105 9 15	
EL 240205 98369218 EL 24 205		EL 200065 EL 200023		88 25	112 25	105 20	90 12	106 29		109 23		90 0.61 26	91 0.30 20	108 12 12	112 6.7 25	105 2.1 20	109 37 19	110 8.8 15	108 30 14	106 6.0 16	114 -17.9 32	101 -3.0 17	102 24.4 38	106 5 16	109 12 15	
EL 240209 98369259 EL 24 209	1	EL 200065 EL 200006		91 24	108 23	103 19	97 12	101 28		108 22		93 0.48 25	92 0.27 19	101 5 12	108 5.3 23	103 1.6 19	107 34 18	107 7.4 14	103 18 14	102 4.4 15	113 -17.0 31	97 -2.2 15	98 22.1 39	107 6 16	107 10 15	
EL 240218 98918006 EL 24 218	1	EL 180152 EL 200070		101 20	98 19	98 13	112 7	100 20				98 0.22 21	110 -0.23 13	90 -5 7	98 2.1 19	98 0.5 13	101 21 13	96 1.6 10	88 -14 11	91 0.3 14	101 -7.2 19	101 -3.0 6	99 22.6 35	104 4 14	98 3 13	
EL 240222 98369366 EL 24 222		DN 180199 EL 160011		105 28	88 24	111 22	104 10	96 28		91 23		104 -0.09 29	100 0.05 24	95 0 10	88 -1.6 24	111 3.5 22	101 21 19	88 -2.2 18	91 -8 19	99 3.4 21	102 -7.6 29	101 -3.2 12	91 18.1 42	96 0 21	97 3 21	
EL 240227 98326507 EL24227		EL 180060 EL 180051		87 25	105 25	105 17	96 11	89 26		98 22		86 0.82 27	105 -0.09 18	102 6 11	105 4.3 25	105 2.3 17	107 34 18	101 4.4 16	97 5 15	107 6.4 16	96 -3.3 24	103 -3.7 15	77 10.9 38	100 2 17	102 6 16	
EL 250004 98565781 EL 250004		EL 200034 EL 210256		100 15	97 15	100 13	102 10	97 19				98 0.23 16	108 -0.18 13	96 1 10	97 1.4 15	100 0.9 13	98 14 13	94 0.9 10	93 -3 9	101 4.3 10	103 -8.5 17	98 -2.5 9	95 20.3 31	101 2 10	98 3 10	
EL 250013 98566771 EL 250013	8	EL 180060 EL 170136		86 17	104 19							87 0.77 20		104 4.0 19							95 -2.0 22		90 17.6 37			
EL 250017 98923980 EL2517		EL 180035 EL 200022		93 15	105 15	99 12	98 8	101 21				92 0.51 16	104 -0.05 12	100 5 8	105 4.5 15	99 0.9 12	103 26 12	103 5.2 10	99 10 9	98 2.9 10	109 -14.0 19	95 -1.6 9	101 24.0 34	104 4 10	105 9 10	
EL 250018 98930639 EL2518	2	EL 180035 EL 200095		106 39	105 22	97 12		107 21				105 -0.11 43	105 -0.09 18		105 4.5 22	97 0.3 12	103 26 12	103 5.1 6		104 5.4 7	113 -17.0 22	106 -4.2 6	99 22.6 35	104 4 8	105 9 6	

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EL 250022 6020028160 EL 25 22		EL 200045 EL 220025	98 9	100 9	104 7	98 5	99 16				98 0.23 9	101 0.02 8	100 5	100 2.6 9	104 1.9 7	103 24 7		99 10 5		96 2.3 5	106 -11.2 14	93 -1.2 8	102 24.4 25	104 4 5	104 8 5
EL 250033 6020028251 EL 25 33	4	EL 180058 EL 190040	105 25	90 26	106 17	116 5	96 20		101 20		104 -0.06 27	105 -0.08 16	85 -9 5	90 -1.1 26	106 2.5 17	104 27 16		93 0.3 11	92 -6 18	100 3.8 21	97 -4.1 19		100 23.4 37	105 5 22	95 1 21
EL 250035 6020028277 EL 25 35	1	EL 200024 EL 220028	93 22	114 22	104 16	97 6	115 25		123 20		95 0.39 23	90 0.33 17	101 5 6	114 7.6 22	104 1.9 16	114 48 15		114 10.9 12	108 29 11	106 6.1 13	115 -18.6 30	106 -4.4 10	113 30.1 36	109 7 13	109 12 13
EL 250036 6020028285 EL 25 36		EL 180058 EL 190114	102 20	93 20	104 16	112 11	94 20				101 0.10 21	104 -0.06 16	90 -4 11	93 0.2 20	104 1.9 16	102 23 16		95 1.1 13	96 3 17	99 3.6 19	98 -4.3 15	93 -1.2 9	98 22.3 35	105 4 19	100 5 19
EL 250038 6020028301 EL 25 38	4	EL 180085 EL 210212	94 20	109 21	96 10		108 21				93 0.48 22	105 -0.10 12		109 5.9 21	96 0.0 10			107 7.0 7		108 -13.2 23		102 24.2 35			
EL 250039 6020028319 EL 25 39	1	EL 180036 EL 170224	99 27	109 28	93 22	99 13	99 31	97 20	106 26	101 23	98 0.23 28	102 -0.02 22	99 4 13	109 5.6 28	93 -0.6 22	101 21 21		107 7.5 16	103 18 16	104 5.5 19	96 -2.8 33	98 -2.4 17	102 24.2 44	106 5 19	101 6 18
EL 250041 6020028335 EL 25 41		DN 180199 EL 180199	105 28	88 24	111 22	104 10	95 26		91 22		104 -0.09 29	100 0.05 24	95 0 10	88 -1.6 24	111 3.5 22	101 21 19		88 -2.2 18	91 -8 19	99 3.4 21	102 -7.6 29	101 -3.2 12	87 16.4 38	96 0 21	97 3 21
EL 250051 6020118045 EL 25 51	1	EL 180035 EL 200035	98 17	110 17	101 12	101 6	110 21				97 0.25 18	99 0.08 12	97 2 6	110 6.2 17	101 1.2 12	110 39 12		108 7.6 7	103 19 5	102 4.5 8	112 -16.0 20	99 -2.7 8	113 30.4 36	107 6 8	107 10 7
EL 250053 6020118052 EL 25 53		EL 180036 EL 170014	97 19	106 19	94 17	96 11	89 27		95 20		96 0.32 19	104 -0.06 17	102 7 11	106 4.7 19	94 -0.5 17	98 13 16		104 5.8 12	105 24 13	101 4.0 14	87 4.6 26	96 -2.0 14	92 18.8 42	107 5 15	104 8 14
EL 250056 6020118078 EL 25 56		EL 180035 EL 200119	96 14	104 14	99 11	102 8	101 20				95 0.35 15	104 -0.06 11	97 2 8	104 4.1 14	99 0.8 11	104 26 11		102 4.9 9	101 14 8	101 4.1 9	109 -14.0 18	96 -1.9 9	100 23.3 33	104 4 9	106 9 9
EL 250060 6020118110 EL 25 60	1	EL 200065 EL 210060	89 21	107 21	96 17	93 11	101 24		99 20		90 0.61 22	94 0.22 17	105 9 11	107 5.0 21	96 0.1 17	99 17 16		105 6.5 14	104 20 13	100 3.6 14	92 0.5 23	101 -3.2 12	104 25.4 37	106 5 15	104 8 14
EL 250062 6020118128 EL 25 62	1	EL 180035 EL 200043	101 17	107 17	103 11		107 20				100 0.10 18	101 0.04 11		107 5.0 17	103 1.6 11	109 37 10		106 6.6 7		102 4.7 7	110 -14.4 19	93 -1.2 6	115 31.3 36	106 5 8	106 10 7

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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																								
EL 250063 6020118136 EL 25 63	3	EL 180085 EL 210265	91 22	113 23	95 13		108 23				92 0.54 24	97 0.13 14		113 7.2 23	95 -0.2 13		110 8.9 11			105 -10.2 24	110 -5.3 8	101 23.9 37		
EL 250065 6020118409 EL 25 65		EL 180058 EL 190049	96 24	104 24	101 19	105 12	99 24		108 22		96 0.31 25	100 0.06 19	95 0 12	104 4.1 24	101 1.2 19	106 31 18	105 6.2 16	100 11 19	105 5.9 22	102 -7.5 21	99 -2.7 13	97 21.7 37	106 5 22	102 7 21
EL 250066 6020119605 EL 25 66		EL 170116	95 22	100 21	101 17	98 11	85 23		91 20		94 0.41 23	103 -0.03 18	99 4 11	100 2.6 21	101 1.3 17	101 20 16	98 2.9 14	99 10 13	96 2.2 14	93 -0.4 24	105 -4.0 15	70 6.8 31	102 3 15	104 8 14
EL 250067 6020118417 EL 25 67	1	EL 180035 EL 200143	101 19	106 19	103 13		104 21				100 0.11 20	102 -0.02 13		106 4.7 19	103 1.7 13	109 38 11	106 6.6 8	103 19 9	107 6.6 12	109 -13.8 19	94 -1.4 6	109 27.9 37	108 6 12	106 10 11
EL 250068 6020118425 EL 25 68	1	EL 200065 EL 210134	89 25	104 24	103 20	94 10	112 28		105 22		91 0.55 26	91 0.31 21	104 9 10	104 3.9 24	103 1.6 20	102 24 18	103 5.2 16	101 14 15	103 4.9 17	104 -9.5 32	115 -6.5 15	103 24.9 38	102 3 17	103 7 17
EL 250069 6020118433 EL 25 69		EL 180035 EL 200179	98 14	103 14	102 11	99 8	101 20				96 0.30 15	103 -0.05 11	99 4 8	103 3.7 14	102 1.4 11	104 27 11	102 4.6 10	101 14 8	99 3.3 9	108 -13.1 18	94 -1.4 9	104 25.5 33	105 5 9	106 10 9
EL 250070 6020118441 EL 25 70	3	EL 200024 EL 210010	83 27	116 25	96 18		114 26		119 21		85 0.85 29	91 0.31 19		116 8.4 25	96 0.0 18	108 35 15	115 11.5 16		100 3.6 8	105 -10.7 31	114 -6.3 11	108 27.2 37	101 2 9	102 7 7
EL 250071 6020118458 EL 25 71		EL 180085 EL 210140	95 21	105 22	96 17	100 11	104 24		106 20		93 0.45 22	105 -0.10 18	98 3 11	105 4.4 22	96 0.1 17	101 20 17	103 5.1 16	100 13 13	95 1.8 14	102 -7.6 23	107 -4.4 14	99 22.8 36	102 3 15	103 7 14
EL 250072 6020118466 EL 25 72	1	EL 200065 EL 210104	88 26	102 25	103 21	95 11	109 28		102 23		90 0.62 27	93 0.25 21	103 8 11	102 3.2 25	103 1.6 21	101 22 19	101 4.0 16	99 9 15	101 4.2 17	106 -11.1 32	109 -5.1 13	103 24.6 38	101 2 18	101 5 17
EL 250074 6020118482 EL 25 74		EL 180085 EL 210152	98 24	110 25	102 19	98 13	112 27		117 23		98 0.21 25	97 0.13 20	99 4 13	110 6.0 25	102 1.5 19	109 38 19	108 8.0 18	106 26 14	98 3.0 16	110 -14.8 27	105 -4.0 15	110 28.7 40	106 5 16	107 11 15
EL 250077 6020118508 EL 25 77		EL 180085 EL 210267	96 22	104 22	95 16	103 10	105 25		107 20		94 0.41 23	108 -0.16 18	96 1 10	104 4.1 22	95 -0.1 16	101 20 16	102 4.6 16	99 9 13	97 2.5 15	102 -7.6 24	108 -4.8 14	99 22.7 36	100 2 15	101 6 14
EL 250081 6020336902 EL 25 81	1	EL 180036 EL 160040	106 25	101 26	91 23	102 17	94 28		96 25		104 -0.08 26	105 -0.09 22	97 2 17	101 3.0 26	91 -1.0 23	94 6 22	99 3.1 16	100 12 15	104 5.2 17	93 -0.3 30	94 -1.5 12	99 22.6 42	103 3 17	95 1 17

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EL 250085 6020336928 EL 25 85	EL 180036 EL 170080			102 24	106 24	90 19	101 13	96 28		102 23		101 0.05 25	102 0.01 18	97 2 13	106 4.8 24	90 -1.4 19	97 11 19	103 5.4 16	106 24 12	98 3.0 14	91 1.5 27	102 -3.3 14	96 21.2 42	104 4 14	100 5 14
EL 250088 6020336944 EL 25 88	EL 180085 EL 210015			96 21	105 22	97 17	100 11	105 25		107 20		95 0.39 22	104 -0.05 18	98 3 11	105 4.4 22	97 0.4 17	102 23 17	103 5.3 16	100 13 13	95 1.7 14	101 -7.3 23	106 -4.2 14	102 24.1 37	103 4 15	104 8 14
EL 250089 6020336951 EL 25 89	EL 200065 EL 210154	1		92 24	106 24	105 19	99 12	102 25		110 22		93 0.46 25	94 0.23 19	99 4 12	106 4.9 24	105 2.2 19	109 39 18	106 6.8 15	104 20 14	104 5.3 16	104 -9.2 25	100 -2.8 12	103 24.7 38	108 6 16	108 11 16
EL 250090 6020336969 EL 25 90	EL 180058 EL 180107			101 30	98 30	103 23	115 14	101 29	107 20	111 26	109 23	99 0.19 31	108 -0.18 23	86 -8 14	98 1.8 30	103 1.7 23	107 34 22	98 2.9 20	95 0 20	101 4.1 23	106 -11.2 31	97 -2.2 17	102 24.2 40	100 2 23	97 3 22
EL 250094 6020337009 EL 25 94	EL 180120 EL 220018	1		95 27	111 28	102 15		102 23				95 0.35 29	96 0.16 16		111 6.5 28	102 1.5 15		108 7.6 11	96 3 10	106 6.2 15	90 1.9 25	107 -4.6 5	101 23.9 38	104 4 16	103 8 14
EL 250098 6020337041 EL 25 98	EL 180036 EL 170213			101 17	102 18	95 16	97 11	89 27				101 0.09 17	101 0.02 15	101 5 11	102 3.2 18	95 -0.1 16	96 10 15	101 4.2 12	104 20 12	97 2.6 14	85 6.3 25	95 -1.6 13	94 19.8 42	106 5 14	102 7 14
EL 250100 6020337058 EL 25 100	EL 120085			87 28	105 28	103 17	98 15	82 27		96 24		86 0.83 30	105 -0.10 18	99 4 15	105 4.5 28	103 1.7 17	107 33 20	103 5.1 22	89 -13 19	96 2.4 21	102 -8.1 30	99 -2.5 18	66 4.7 34	108 6 21	106 9 20
EL 250101 6020337066 EL 25 101	EL 200024 EL 200023	1		93 22	116 22	100 15		112 26				95 0.38 23	93 0.26 16		116 8.1 22	100 0.9 15	109 39 13	115 11.0 10	110 33 8	104 5.4 11	119 -21.7 30	101 -3.1 13	111 29.3 36	106 5 12	108 11 11
EL 250102 6020337074 EL 25 102	EL 200024 EL 200048	4		89 24	125 22	91 12		116 26				91 0.58 25	90 0.33 17		125 11.3 22	91 -1.0 12		122 15.0 9		106 6.2 10	107 -12.3 30	116 -6.6 11	108 27.6 37	108 6 11	109 12 9
EL 250104 6020337090 EL 25 104	EL 200065 EL 210243	1		94 22	106 21	99 15		98 20				95 0.38 23	96 0.17 15		106 4.8 21	99 0.8 15	104 28 13	105 6.3 8	100 12 6	103 4.8 10	98 -4.9 20	99 -2.6 5	97 21.8 36	103 3 10	103 7 9
EL 250105 6020337108 EL 25 105	EL 180058 EL 190115			101 29	101 30	104 24	110 15	105 30	110 21	112 27	111 24	101 0.09 30	102 0.01 23	91 -3 15	101 3.0 30	104 1.9 24	108 37 23	101 4.3 20	101 14 20	100 3.9 23	103 -8.8 31	103 -3.7 18	104 25.1 40	103 4 24	100 5 23
EL 250108 6020337132 EL 25 108	EL 180035 EL 200158			99 15	105 15	104 12	99 7	104 21				98 0.22 16	103 -0.03 12	98 3 7	105 4.5 15	104 2.0 12	108 36 11	104 5.7 8	102 16 8	101 4.0 10	109 -13.3 19	94 -1.4 8	109 27.8 35	107 5 10	107 11 9

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	EL 250109 6020337140 EL 25 109		EL 180036 EL 150082	94 26	109 31	93 24	93 16	98 34	93 22	99 28	96 25	95 0.38 27	95 0.19 22	105 10 16	109 5.8 31	93 -0.6 24	98 14 24	108 7.8 18	109 32 18	99 3.2 20	92 0.1 37	99 -2.7 20	102 24.0 46	108 6 20	101 6 19
	EL 250112 6020337165 EL 25 112		EL 200045 EL 220199	101 9	101 9	103 5		105 14				100 0.12 10	103 -0.02 7		101 3.1 9	103 1.8 5				98 3.1 6	99 -5.3 8		116 31.7 31	104 4 6	104 8 6
	EL 250113 6020337173 EL 25 113	1	EL 200034 EL 220094	104 16	100 16	92 12	112 7	103 16				101 0.07 17	109 -0.21 12	90 -4 7	100 2.5 16	92 -0.8 12	97 12 12	96 1.9 7		100 3.6 7	106 -11.5 13		104 25.5 32	97 1 7	95 1 6
	EL 250114 6020337181 EL 25 114		EL 200034 EL 200014	107 18	95 18	98 14	108 10	106 27				104 -0.09 19	107 -0.16 14	93 -1 10	95 0.8 18	98 0.5 14	96 10 14	93 0.2 12	96 2 9	98 3.1 11	116 -19.9 29	100 -3.0 17	102 24.2 35	96 0 11	96 2 10
	EL 250118 6020337215 EL 25 118	1	EL 180035 EL 200112	100 16	103 16	103 11	100 7	105 20				99 0.16 17	103 -0.03 12	98 3 7	103 3.7 16	103 1.7 11	105 30 11	103 5.1 8	100 11 7	99 3.4 9	108 -13.2 18	92 -1.1 7	113 30.1 35	106 5 9	105 9 9
	EL 250123 6020337256 EL 25 123		EL 180036 EL 160238	107 23	100 24	94 18	100 12	92 28		94 23		105 -0.13 24	105 -0.09 18	98 3 12	100 2.7 24	94 -0.5 18	95 8 18	101 4.4 15	101 14 15	98 3.0 17	86 5.6 28	94 -1.5 15	99 22.6 42	105 4 17	99 4 16
	EL 250124 6020337264 EL 25 124		EL 180035 EL 200050	98 17	103 17	103 13	98 9	103 23				98 0.21 18	98 0.10 14	100 5 9	103 3.7 17	103 1.8 13	105 29 13	103 5.4 11	102 17 9	99 3.3 10	99 -5.7 22	93 -1.3 11	113 30.4 36	106 5 10	105 9 10
	EL 250125 6020337272 EL 25 125	1	EL 180120 EL 210043	92 26	109 27	102 14		100 24		111 20		92 0.49 28	96 0.16 15		109 5.7 27	102 1.4 14	109 38 14	106 6.7 11	96 2 11	108 6.7 14	92 0.4 25	106 -4.4 8	98 22.2 39	103 4 15	102 7 14
	EL 250137 6020337363 EL 25 137	3	EL 200024 EL 210006	97 22	113 21	91 15		116 26				96 0.30 23	99 0.07 16		113 7.3 21	91 -1.2 15		111 9.4 9		100 3.9 10	110 -14.8 30	111 -5.5 11	111 28.8 37	100 2 11	101 6 9
	EL 250141 6020338387 EL 25 141	5	EL 200024 EL 200118	86 24	121 24	92 12		113 25				87 0.78 26	96 0.16 13		121 9.9 24	92 -0.9 12		116 11.8 10			106 -10.9 30	108 -4.7 8	112 29.9 36		
	EL 250145 6020337413 EL 25 145	1	EL 180035 EL 200064	91 23	108 22	107 17	92 9	108 24		109 20		91 0.56 24	101 0.04 17	105 10 9	108 5.6 22	107 2.6 17	109 38 16	106 6.7 14	106 26 11	105 5.9 13	109 -13.8 25	102 -3.4 10	106 26.6 38	106 5 13	109 11 13
	EL 250146 6020337421 EL 25 146	1	EL 180085 EL 210070	98 22	105 22	97 16	104 10	107 24		111 20		96 0.30 23	104 -0.07 18	96 1 10	105 4.4 22	97 0.3 16	103 25 16	103 5.3 16	100 11 12	94 1.6 14	104 -9.8 24	106 -4.4 11	104 25.2 38	101 2 14	102 6 13

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
EL 250148 6020337439 EL 25 148			EL 180008	90 14	99 14	94 9	100 7	80 16				89 0.67 15	107 -0.14 9	98 3 7	99 2.1 14	94 -0.3 9	94 6 10	96 1.6 11	90 -9 9	90 -0.1 10	99 -5.8 15	94 -1.6 9	69 6.6 25	98 1 10	98 3 10
EL 250149 6020338395 EL 25 149			EL 200045 EL 220204	100 10	102 9	101 7		103 15				99 0.18 11	102 0.00 8		102 3.4 9	101 1.1 7	102 24 7	101 4.2 5	96 2 6	98 3.2 7	98 -4.8 9		112 29.9 31	103 4 7	104 8 7
EL 250157 6020337470 EL 25 157	1		EL 180035 EL 200148	101 17	107 17	103 11		105 20				100 0.10 18	101 0.04 11		107 5.0 17	103 1.6 11	109 37 10	106 6.6 7		102 4.7 7	110 -14.4 19	93 -1.2 6	112 29.9 36	106 5 8	106 10 7
EL 250158 6020337488 EL 25 158			EL 180035 EL 200079	97 14	103 14	102 11	99 8	103 20				96 0.30 15	103 -0.05 11	99 4 8	103 3.7 14	102 1.4 11	104 27 11	102 4.6 10	101 14 8	99 3.3 9	108 -13.1 18	94 -1.4 9	108 27.6 33	105 5 9	106 10 9
EL 250162 6020338411 EL 25 162			EL 180085 EL 210256	95 24	108 25	101 19	97 13	107 26		110 23		94 0.40 25	102 0.01 20	101 5 13	108 5.3 25	101 1.3 19	106 32 19	106 6.7 18	102 17 14	100 4.0 16	102 -8.3 26	110 -5.2 15	99 22.9 38	105 5 16	105 8 16
EL 250163 6020337520 EL 25 163	2		EL 180085 EL 210142	95 22	109 23	96 15	100 5	109 23				94 0.41 23	103 -0.03 17	98 3 5	109 5.9 23	96 0.1 15	104 28 14	107 7.3 14	101 15 10	98 3.2 13	105 -10.3 23	110 -5.1 9	103 24.9 38	100 2 14	102 7 13
EL 250166 6020337538 EL 25 166			EL 180036 EL 150102	101 21	103 21	101 19	97 14	94 30		99 22		100 0.13 21	101 0.03 19	100 5 14	103 3.8 21	101 1.2 19	103 24 18	103 5.4 14	105 22 16	101 4.0 18	91 1.0 31	94 -1.4 16	101 23.8 42	112 8 18	103 7 18
EL 250169 6020337553 EL 25 169	2		EL 200024 EL 220037	96 18	104 17	97 10		117 23				96 0.30 19	95 0.18 12		104 4.2 17	97 0.3 10		104 5.5 6		99 3.5 6	105 -10.5 30	112 -5.6 6	116 31.6 34	102 3 7	101 6 5

Breeding Values and Accuracies: Cows

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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																								
EL 120085 78255882 EL 120085		GHB 020031 EL 050055	77 56	117 56	113 34	94 29	90 54	97 37	114 48	106 42	78 1.20 60	97 0.14 36	104 8 29	117 8.5 56	113 4.0 34	122 66 40	114 10.7 43	85 -21 37	100 3.9 42	106 -11.2 59	99 -2.7 36	78 11.5 67	119 12 42	112 14 41
EL 150082 83297564 EL 150082		JA 060142 EL 070092	84 41	109 50	95 36	93 24	106 53	101 34	104 44	102 39	86 0.83 43	94 0.21 31	106 10 24	109 5.8 50	95 -0.3 36	100 17 37	107 7.5 28	104 20 27	95 1.8 29	112 -16.3 60	102 -3.5 35	102 24.2 63	105 5 30	98 4 28
EL 150093 86775418 EL 150093		EL 110051	100 26	94 24	102 21	108 16	101 39	101 22	99 26	100 24	98 0.21 27	105 -0.09 21	93 -2 16	94 0.6 24	102 1.5 21	100 18 20	96 1.5 16	88 -14 19	103 4.9 22	107 -11.8 44	100 -2.9 20	98 22.3 52	99 2 22	95 1 21
EL 150102 86741352 EL 150102		EL 110072	97 24	98 25	110 23	102 18	98 39	100 23	103 27	101 25	96 0.33 25	106 -0.12 22	96 1 18	98 1.9 25	110 3.3 23	108 37 22	98 2.6 18	95 2 22	99 3.3 23	110 -14.5 40	91 -0.8 22	101 23.7 54	112 8 24	103 7 23
EL 150109 82993411 EL 150109		BN 080897 EL 120131	93 32	104 35	92 21	95 15	115 51	107 27	102 34	104 30	93 0.45 34	100 0.05 23	104 8 15	104 3.9 35	92 -0.9 21	94 5 24	102 4.7 24	100 12 22	94 1.4 25	93 -0.3 58	118 -7.2 33	112 29.6 63	112 8 25	103 8 24
EL 150128 83350470 EL 150128		BN 080897 EL 120108	89 34	117 36	95 26	89 15	121 52	117 29	115 35	116 32	92 0.52 35	86 0.45 29	111 15 15	117 8.5 36	95 -0.1 26	103 26 26	117 12.2 24	113 40 25	103 4.9 28	103 -9.1 57	130 -9.9 34	105 25.6 64	110 7 28	108 11 27
EL 150160 87085676 EL150160		EL 080123	110 34	92 35	96 21	111 16	90 34	89 23	91 30	89 26	106 -0.18 36	114 -0.34 21	91 -3 16	92 -0.2 35	96 0.0 21	93 3 24	94 0.7 22	88 -15 19	94 1.4 21	99 -5.3 28	92 -1.0 17	91 18.4 56	99 1 22	93 0 21
EL 150185 83350256 EL 150185	2	EL 050007 EL 120159	90 45	116 45	84 35	99 23	95 48	93 32	108 41	101 36	94 0.44 47	81 0.58 37	100 5 23	116 8.4 45	84 -2.8 35	99 16 34	118 12.8 28	101 14 27	99 3.3 30	102 -8.2 54	92 -1.1 31	98 22.1 60	103 4 30	103 7 29
EL 160014 83350561 EL 160014		EL 120184	94 28	103 28	96 18	108 16	103 34	104 21	108 27	106 24	91 0.57 30	112 -0.29 19	93 -1 16	103 3.7 28	96 0.2 18	102 23 21	99 3.5 22	87 -17 18	98 2.8 21	104 -9.3 30	103 -3.5 18	100 23.2 55	106 5 21	103 7 20
EL 160036 86741394 EL 160036		EL 050023	97 38	105 38	103 36	115 33	91 36	101 29	114 37	108 33	95 0.36 39	105 -0.10 34	86 -8 33	105 4.3 38	103 1.7 36	113 47 36	104 6.0 26	90 -11 26	112 8.2 29	101 -7.2 33	97 -2.1 21	87 16.1 54	111 7 29	103 7 28
EL 160040 86776028 EL 160040		EL 050029	108 38	94 38	91 36	114 32	97 37	96 29	97 37	96 33	104 -0.08 39	115 -0.36 34	88 -6 32	94 0.3 38	91 -1.1 36	91 -1 35	89 -2.0 28	86 -19 22	105 5.7 24	113 -17.1 37	92 -1.0 20	97 21.4 53	95 -1 24	86 -6 23
EL 160044 87357257 EL-1644	3	EL 090069 EL 130118	107 38	101 40	106 24	110 13	94 33	100 23	107 32	103 28	105 -0.13 41	105 -0.08 24	91 -3 13	101 2.9 40	106 2.3 24	110 39 26	100 3.8 19	88 -16 33	119 11.1 38	99 -5.0 30	105 -4.2 12	83 13.8 58	106 5 39	103 7 37

Breeding Values and Accuracies: Cows

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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																										
EL 160092 93215465 EL 160092	4	EL 110160 EL 080040	99 44	120 43	88 32	113 23	116 48	124 31	135 40	131 36	99 0.17 47	99 0.07 30	89 -5 23	120 9.8 43	88 -1.8 32	111 43 33	114 10.9 30	103 18 20	105 5.7 24	112 -16.4 53	120 -7.5 30	100 23.4 62	105 4 25	103 7 23		
EL 160166 93215473 EL 160166	8	EL 060014 EL 090116	88 49	117 46	101 34	99 24	126 46	129 32	132 41	132 36	90 0.60 52	88 0.38 32	99 4 24	117 8.6 46	101 1.3 34	115 51 35	113 10.5 22	102 17 26	116 9.9 29	118 -21.4 54	130 -9.8 25	106 26.2 59	126 15 30	109 12 29		
EL 160203 92905579 EL 160203		BN 080897 TSB 110032	102 34	92 35	98 31	98 21	86 48	79 29	81 36	78 32	102 0.02 35	96 0.17 30	100 4 21	92 -0.2 35	98 0.6 31	92 0 29	96 1.9 25	99 10 18	92 0.8 22	63 24.5 53	95 -1.7 29	100 23.4 62	102 3 22	96 2 21		
EL 160210 87230702 EL-16210		EL 120056	102 19	95 16	97 15	100 8	80 27				100 0.13 20	107 -0.14 15	98 3 8	95 1.0 16	97 0.3 15	94 5 13	93 0.2 14	94 -2 16	105 5.7 18	98 -4.2 17	86 0.3 10	79 12.1 53	98 1 19	98 4 18		
EL 160238 91035600 16238		EL 080123	110 34	92 35	96 21	111 16	93 32	92 22	93 30	91 26	106 -0.18 36	114 -0.35 21	91 -3 16	92 -0.2 35	96 0.0 21	93 3 24	94 0.7 22	88 -15 19	94 1.4 21	99 -5.3 28	92 -1.0 17	97 21.4 51	99 1 22	93 0 21		
EL 170012 87273025 EL-1712		EL 120090	99 28	102 27	97 24	98 16	96 37	92 22	97 28	94 25	96 0.31 29	111 -0.25 24	100 5 16	102 3.2 27	97 0.3 24	98 14 22	99 3.0 18	95 1 19	93 1.0 22	101 -6.8 37	94 -1.6 22	98 22.1 51	95 0 22	99 4 21		
EL 170014 88984554 EL-1714		EL 130074	91 18	103 14	96 14	99 11	89 25				88 0.71 19	113 -0.30 13	99 4 11	103 3.7 14	96 0.0 14	98 15 13	99 3.4 10	97 4 11	99 3.4 12	101 -7.2 15	96 -1.9 10	83 13.8 49	103 3 12	104 8 11		
EL 170080 85831055 EL 170080		EL 080040	101 34	104 35	88 23	113 18	103 33	103 23	109 31	106 27	99 0.18 37	107 -0.16 22	90 -5 18	104 3.9 35	88 -1.9 23	96 10 25	98 2.8 24	97 6 13	94 1.5 15	109 -13.4 26	108 -4.7 19	92 18.7 54	96 0 15	96 2 14		
EL 170108 90538943 EL17108		EL 070118	106 35	87 36	104 26	115 21	89 34	91 24	93 32	91 28	104 -0.05 37	108 -0.18 26	86 -8 21	87 -1.8 36	104 2.0 26	100 17 28	90 -1.3 22	86 -20 24	93 1.1 25	97 -3.6 31	96 -1.9 21	85 15.3 49	102 3 25	92 -1 25		
EL 170116 90539347 EL17116		WER 090007 EL 120211	94 43	106 42	110 35	94 22	96 47	97 31	103 39	100 35	96 0.34 45	92 0.28 35	104 8 22	106 4.7 42	110 3.2 35	110 41 33	105 6.3 30	106 24 26	99 3.4 29	87 4.3 49	112 -5.7 29	86 15.6 63	106 5 29	109 12 28		
EL 170122 87269254 EL-17122		EL 120184	94 28	103 28	96 18	108 16	101 33	102 20	107 26	104 23	91 0.57 30	112 -0.29 19	93 -1 16	103 3.7 28	96 0.2 18	102 23 21	99 3.5 22	87 -17 18	98 2.8 21	104 -9.3 30	103 -3.5 18	96 21.0 50	106 5 21	103 7 20		
EL 170177 90539354 EL17177		EL 070095 EL 120047	103 40	92 40	107 34	110 21	86 34	88 26	92 35	89 30	101 0.06 41	107 -0.15 32	91 -3 21	92 -0.4 40	107 2.5 34	102 24 32	95 1.5 27	97 6 33	111 8.1 38	93 -0.2 27	92 -1.0 18	86 15.8 57	112 8 39	102 7 37		

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ID Number Name																									
EL 170224 93209971 EL 170224	1	EL 110140 EL 090065	94 44	108 44	95 33	108 21	107 44	110 30	116 39	114 34	92 0.54 46	109 -0.20 32	93 -1 21	108 5.6 44	95 -0.2 33	105 30 33	106 6.8 25	91 -8 24	107 6.3 27	119 -22.1 48	100 -2.8 27	102 24.5 58	102 3 28	98 3 26	
EL 170256 87230793 EL-17256		EL 120152	90 24	106 24	106 17	89 11	103 33		100 24		89 0.65 25	103 -0.02 17	109 13 11	106 4.7 24	106 2.4 17	105 29 17	103 5.3 14	103 18 11	107 6.3 13	104 -9.4 29	109 -5.1 19	94 19.8 50	107 5 13	109 12 13	
EL 180008 87273066 EL-1808		EL 120099	85 28	103 28	96 17	97 13	87 33	83 20	92 26	87 23	85 0.87 30	100 0.06 18	101 6 13	103 3.8 28	96 0.0 17	98 14 19	100 3.8 22	88 -15 18	87 -1.1 20	100 -6.6 31	91 -0.8 18	85 15.4 50	99 2 21	97 3 20	
EL 180055 91318311 1855		EL 120259	104 23	94 21	91 18	118 13	100 32		103 23		100 0.12 24	116 -0.41 18	84 -10 13	94 0.4 21	91 -1.0 18	94 6 17	91 -0.8 14	89 -12 12	92 0.7 14	111 -15.2 30	102 -3.2 18	91 18.4 49	88 -4 14	91 -2 14	
EL 180065 93223063 EL 18 65		EL 080084	108 35	98 35	92 24	104 20	100 34	96 24	98 31	96 28	107 -0.25 37	99 0.08 23	95 0 20	98 2.0 35	92 -0.8 24	94 4 26	97 2.1 26	93 -3 15	97 2.6 17	111 -15.1 31	114 -6.2 21	78 11.3 49	101 3 17	96 2 16	
EL 180066 89068506 1866		EL 120097	104 22	91 23	97 13	114 8	93 32		95 22		100 0.11 24	116 -0.39 15	88 -7 8	91 -0.4 23	97 0.3 13	96 8 15	89 -1.7 14	86 -18 14	100 3.6 16	98 -4.2 30	99 -2.6 18	90 17.8 49	92 -2 16	94 0 15	
EL 180068 88921762 1868		EL 130181	90 25	103 24	109 19	98 13	99 33		105 24		89 0.66 26	102 0.00 20	99 4 13	103 3.7 24	109 3.2 19	110 40 19	102 4.9 16	100 11 15	107 6.6 16	102 -7.8 31	107 -4.5 18	88 16.8 50	108 6 17	105 9 16	
EL 180071 88912076 1871		EL 150082	90 20	102 25	94 18	98 12	98 31		96 24		89 0.65 21	104 -0.06 16	100 5 12	102 3.2 25	94 -0.4 18	95 8 18	99 3.5 14	98 8 13	94 1.4 15	105 -10.6 30	100 -2.9 18	93 19.4 46	101 3 15	99 4 14	
EL 180073 93235315 EL 180073		EL 150109	95 16	99 17	93 10	99 7	101 31				93 0.46 17	107 -0.14 11	99 4 7	99 2.2 17	93 -0.7 10	92 2 11	97 2.1 12	96 4 11	93 1.2 12	96 -2.6 29	108 -4.8 16	96 21.0 48	105 4 13	101 6 12	
EL 180074 93217412 EL 180074		EL 110073	96 24	106 22	104 15	95 9	98 31		103 22		95 0.37 26	103 -0.04 17	102 7 9	106 4.7 22	104 2.0 15	106 32 15	104 5.9 16	107 27 13	107 6.4 14	112 -16.4 28	101 -3.1 16	88 16.9 50	108 6 15	110 13 14	
EL 180075 93348290 EL 18 75		EL 080123	110 34	92 35	96 21	111 16	85 31	84 22	89 29	85 26	106 -0.18 36	114 -0.35 21	91 -3 16	92 -0.2 35	96 0.0 21	93 3 24	94 0.7 22	88 -15 19	94 1.4 21	99 -5.3 28	92 -1.0 17	82 13.5 47	99 1 22	93 0 21	
EL 180078 88912084 1878		EL 150053	103 20	95 19	85 19	116 13	97 23		97 20		101 0.08 20	110 -0.22 19	86 -8 13	95 0.7 19	85 -2.6 19	87 -9 17	93 0.0 11	89 -12 11	89 -0.5 13	103 -8.8 16	96 -1.9 10	97 21.4 43	89 -4 13	91 -2 12	

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Animal		Selection Values							Birth		Wean				Growth		Fertility				Frame	
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																				
EL 180089		EL 050042																				
93229193	6	EL 090066	90	116	94	102	95	99	87	116	97	116	94	109	112	96	102	105	100	89	103	105
EL 18 89			52	53	37	21	48	33	0.76	-0.41	2	8.3	-0.3	38	9.6	3	4.6	-10.1	-2.9	17.0	4	9
									55	38	21	53	37	37	31	22	28	57	27	61	29	27
EL 180097		EL 150160	103	93	94	109	89		100	114	93	93	94	92	93	90	93	99	95	86	98	96
88912092			17	17	10	8	23		0.15	-0.34	-2	0.1	-0.3	1	0.1	-10	1.2	-5.2	-1.7	15.7	1	2
1897									18	10	8	17	10	12	11	9	11	14	9	46	11	10
EL 180098		EL 120070	97	97	100	98	84	86	93	118	100	97	100	97	93	90	91	97	99	72	102	105
89058416			25	25	17	15	30	24	0.46	-0.44	5	1.4	1.1	11	0.2	-11	0.4	-3.9	-2.7	8.3	3	9
1898									27	18	15	25	17	19	18	15	18	28	15	47	18	17
EL 180107	1	EL 050042	97	104	98	113	104	108	94	115	89	104	98	106	100	91	95	114	102	97	92	95
93235349		EL 150144	45	46	34	23	50	32	0.43	-0.36	-5	4.0	0.4	31	3.8	-8	1.7	-17.7	-3.4	21.6	-2	1
EL 180107									47	36	23	46	34	34	33	25	28	56	33	60	29	28
EL 180108		EL 150105	96	97	96	99	95		95	104	99	97	96	94	97	100	95	93	102	92	105	103
88912100			9	11	9	5	26		0.36	-0.06	4	1.7	0.1	5	2.1	11	1.8	-0.6	-3.3	19.1	5	7
18108									9	9	5	11	9	8	7	8	9	21	12	44	9	9
EL 180116		EL 120152	90	106	106	89	97	96	89	103	109	106	106	105	103	103	107	104	109	81	107	109
88903018			24	24	17	11	31	23	0.65	-0.02	13	4.7	2.4	29	5.3	18	6.3	-9.4	-5.1	13.1	5	12
18116									25	17	11	24	17	17	14	11	13	29	19	46	13	13
EL 180117	7	EL 110140	96	111	90		105		95	104		111	90		110		108	106	96	111	110	
93236511		EL 130085	27	28	19		42		0.36	-0.05		6.5	-1.4		8.6		6.8	-11.0	-1.9	28.9	7	
EL 180117									29	19		28	19		10		5	51	20	54	7	
EL 180118	4	EL 110140	96	111	98	96	106	105	95	107	102	111	98	105	108	104	110	124	93	105	103	105
93449197		EL 130216	36	35	28	15	43	26	0.39	-0.14	7	6.5	0.4	30	7.9	21	7.6	-26.4	-1.2	26.1	4	9
EL 18 118									38	28	15	35	28	26	16	17	21	51	20	57	22	20
EL 180127	1	EL 100249	84	126	94	112	108	120	90	75	90	126	94	121	123	106	115	110	108	101	107	107
93237121		EL 080088	48	49	36	24	50	34	0.64	0.75	-4	11.7	-0.4	63	15.3	25	9.6	-14.3	-4.7	24.0	5	10
EL 18 127									51	35	24	49	36	36	34	26	29	57	32	60	29	28
EL 180139		EL 130033	90	108	94		93		90	99		108	94	102	104			102	102	83		
88921689			21	21	14		25		0.61	0.07		5.6	-0.5	23	5.9			-8.2	-3.4	14.2		
18139									23	11		21	14	13	9			26	5	45		
EL 180151	2	EL 140097	86	107	112	93	103	104	85	102	104	107	112	113	105	94	114	110	114	84	104	100
93215515		EL 090065	41	43	27	11	46	28	0.84	-0.01	8	5.2	3.8	47	6.3	-2	9.3	-14.5	-6.1	14.8	4	5
EL 180151									44	27	11	43	27	27	21	22	25	53	31	55	26	24
EL 180161		EL 080076	97	97	95	115	101	102	94	115	87	97	95	99	94	86	99	107	114	81	95	94
93235984			34	36	20	14	32	22	0.42	-0.36	-8	1.6	-0.2	16	0.5	-18	3.6	-12.1	-6.3	13.2	-1	0
EL 18 161									37	20	14	36	20	23	20	19	21	30	17	48	21	21

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ID Number																									
EL 180178	88956149 18178	EL 150123		96 18	100 18	96 14	108 11	89 23				94 0.42 19	108 -0.18 14	93 -1 11	100 2.7 18	96 0.1 14	99 17 14	99 3.2 12	94 -2 12	99 3.5 13	103 -8.9 15	102 -3.3 10	75 9.6 45	105 5 13	102 6 13
EL 180183	89058424 18183	EL 120087		89 28	110 28	92 18	101 17	91 32	90 20	103 26	96 23	86 0.83 30	115 -0.38 19	98 3 17	110 6.0 28	92 -0.9 18	101 21 21	103 5.2 22	97 4 16	94 1.6 19	100 -6.6 31	104 -3.8 18	78 11.3 47	106 5 19	107 10 18
EL 180201	88902721 18201	EL 120088		100 28	90 28	98 17	113 14	86 35	85 21	89 26	86 24	96 0.31 30	115 -0.37 16	89 -5 14	90 -1.0 28	98 0.6 17	95 7 20	88 -2.5 22	80 -32 18	86 -1.5 20	98 -4.7 36	97 -2.1 18	78 11.4 50	101 2 21	95 1 20
EL 180257	88921671 18257	EL 130117		95 20	94 19	94 19	115 14	93 26		97 21		94 0.43 20	107 -0.15 19	87 -7 14	94 0.4 19	94 -0.5 19	95 7 17	93 0.2 11	90 -11 11	88 -0.9 12	105 -10.3 19	96 -1.9 11	89 17.3 48	88 -4 12	90 -2 12
EL 180288	89068217 18288	EL 120165		102 29	103 27	103 24	108 17	98 33	102 21	109 27	105 24	99 0.15 30	111 -0.26 24	93 -2 17	103 3.6 27	103 1.6 24	108 35 23	101 4.1 20	97 4 20	100 3.7 23	100 -5.9 31	97 -2.2 20	99 22.5 49	103 4 23	103 7 22
EL 190001	92907658 1901	EL 120127		97 28	109 25	91 24	109 16	86 30	89 20	105 25	97 22	95 0.38 28	111 -0.25 25	93 -2 16	109 5.8 25	91 -1.2 24	103 24 22	106 6.7 18	97 6 19	107 6.3 22	99 -5.5 30	94 -1.6 15	80 12.4 46	105 4 22	107 10 21
EL 190023	93466837 EL 19 23	EL 160057		96 19	107 20	96 12	99 8	88 29		99 20		94 0.40 20	105 -0.08 13	99 4 8	107 5.2 20	96 0.0 12	102 23 13	105 6.2 12	99 10 16	111 8.2 19	96 -3.2 26	98 -2.4 15	82 13.3 46	106 5 19	107 10 18
EL 190040	94882669 EL 190040	EL 070118		106 35	87 36	104 26	115 21	94 34	95 24	95 32	95 28	104 -0.05 37	108 -0.18 26	86 -8 21	87 -1.8 36	104 2.0 26	100 17 28	90 -1.3 22	86 -20 24	93 1.1 25	97 -3.6 31	96 -1.9 21	94 20.0 49	102 3 25	92 -1 25
EL 190049	91026096 EL 19 49	EL 120110		88 29	116 28	93 20	93 12	98 33	96 20	107 26	102 23	89 0.69 30	98 0.11 24	106 10 12	116 8.4 28	93 -0.6 20	104 26 20	113 10.4 22	101 13 19	104 5.2 21	105 -10.4 32	106 -4.3 20	88 16.5 48	104 4 21	106 10 20
EL 190050	92908482 EL 190050	EL 150183 EL 130073		103 28	103 26	107 23	96 17	108 43	108 24	108 29	108 26	101 0.06 29	103 -0.04 22	101 6 17	103 3.8 26	107 2.7 23	108 35 22	103 5.3 16	101 14 16	108 6.7 18	102 -7.6 51	114 -6.2 28	99 22.5 49	107 6 18	105 9 18
EL 190051	91062703 EL1951	EL 110140 EL 130048	8	101 33	107 34	90 25		112 39		123 29		99 0.18 35	106 -0.12 24		107 5.1 34	90 -1.3 25	104 27 21	104 5.7 14		106 6.2 5	114 -17.5 52	101 -3.1 13	113 30.0 52	100 2 6	
EL 190058	91026047 EL1958	WER 090007 EL 120097		97 40	96 40	115 28	97 18	99 49	99 29	98 37	98 33	96 0.30 42	101 0.03 30	100 5 18	96 1.1 40	115 4.6 28	109 38 29	95 1.0 27	95 1 23	109 7.4 26	97 -3.7 57	111 -5.4 33	88 16.8 57	97 1 26	100 5 25

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ID Number Name																								
EL 190082 93264885 EL 190082	3	EL 140097 EL 090074	90 43	102 43	118 31	97 19	110 47	113 30	112 38	113 34	89 0.66 45	104 -0.05 31	99 4 19	102 3.2 43	118 5.1 31	116 54 31	102 4.6 24	91 -9 26	112 8.3 29	103 -9.0 54	118 -7.2 31	96 20.9 56	107 5 29	97 3 28
EL 190106 93224897 EL 190106	13	EL 110160 EL 120187	100 35	115 31	95 23		107 44				100 0.13 38	99 0.08 22		115 7.9 31	95 -0.2 23		113 10.2 12		96 2.3 17	106 -10.9 55	115 -6.5 22	93 19.5 55	98 1 19	99 5 15
EL 190115 91066225 EL 19 115		EL 050042 EL 150158	98 44	111 47	100 37	99 25	111 51	112 34	117 43	115 38	97 0.25 46	102 0.00 37	99 4 25	110 6.3 47	100 1.0 37	108 36 36	106 6.6 34	103 19 26	93 1.2 29	108 -13.0 58	114 -6.2 36	100 23.4 58	98 1 29	101 6 28
EL 190123 91061689 EL19123		EL 050042 EL 150105	96 41	108 42	98 32	102 23	111 49	111 31	115 39	113 35	95 0.39 42	105 -0.08 34	97 2 23	108 5.4 42	98 0.4 32	106 30 32	106 6.6 31	105 22 24	94 1.6 27	102 -7.7 55	111 -5.4 34	107 27.1 59	107 5 27	106 9 27
EL 200003 94845724 EL2003		EL 110160 EL 120135	97 29	111 27	99 25	103 20	100 36	104 23	115 28	110 26	97 0.25 30	98 0.10 24	96 1 20	111 6.5 27	99 0.9 25	110 40 24	109 8.5 21	99 9 19	103 4.8 21	98 -4.4 34	103 -3.7 19	98 22.0 54	110 7 22	108 11 21
EL 200011 91070268 EL 20 11	2	EL 110140 EL 130077	96 34	107 35	102 27	101 17	90 44	93 27	105 33	99 30	95 0.35 35	100 0.06 27	97 2 17	107 5.0 35	102 1.5 27	108 36 26	105 6.4 21	100 12 21	111 7.9 24	96 -3.3 52	75 2.9 26	111 29.1 54	106 5 24	106 10 23
EL 200014 93910354 EL2014		EL 110132 EL 130005	111 31	96 31	103 22	105 15	114 48	114 26	108 32	111 29	110 -0.38 33	101 0.03 23	95 0 15	96 1.1 31	103 1.8 22	102 22 23	96 1.8 20	102 16 16	98 2.9 18	127 -28.8 55	106 -4.4 32	104 25.3 56	95 0 19	99 4 18
EL 200022 94735982 EL2022		EL 180008	90 14	99 14	95 9	100 7	90 21				89 0.67 15	107 -0.14 9	98 3 7	99 2.1 14	95 -0.3 9	94 6 10	96 1.6 11	90 -9 9	90 -0.1 10	99 -5.8 15	94 -1.6 9	87 16.3 40	98 1 10	98 3 10
EL 200023 93348175 EL 200023		EL 110132 EL 130216	96 34	115 35	110 26	89 18	110 47	112 28	117 34	115 31	97 0.28 36	94 0.21 27	109 13 18	115 7.9 35	110 3.3 26	115 51 26	113 10.5 20	115 45 18	111 7.9 21	133 -34.0 55	97 -2.1 32	103 24.7 54	108 6 21	112 14 20
EL 200032 91061663 EL2032		WER 090007 EL 150093	91 36	98 35	116 27	91 18	110 47	108 28	101 34	104 31	92 0.53 37	94 0.22 28	106 11 18	98 2.1 35	116 4.7 27	108 37 27	99 3.2 24	99 10 21	108 6.7 23	106 -11.0 55	114 -6.2 31	100 23.2 55	104 4 24	103 7 23
EL 200035 93448926 EL 200035		EL 110447 EL 160092	99 23	108 22	97 16	108 11	110 30		118 22		99 0.15 24	98 0.11 17	93 -1 11	108 5.5 22	97 0.3 16	107 33 16	105 6.5 14	98 8 10	98 3.0 12	104 -9.6 26	104 -3.8 15	111 29.2 49	105 4 12	103 7 12
EL 200039 92910454 EL 200039	1	EL 110132 EL 130048	100 34	111 35	102 27	110 19	114 44	122 27	128 34	126 30	101 0.08 35	94 0.23 26	92 -3 19	111 6.4 35	102 1.5 27	115 50 27	109 8.4 22	103 18 15	107 6.4 18	126 -27.9 55	100 -2.9 24	111 29.3 54	105 5 18	103 7 17

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ID Number Name																								
EL 200043 93224947 EL 200043		EL 160103 EL 160232	106 22	101 22	101 17	109 11	102 26		109 21		105 -0.13 23	101 0.03 16	93 -2 11	101 3.1 22	101 1.2 17	105 30 17	101 4.4 14	96 4 12	99 3.3 13	100 -6.6 20	91 -0.7 9	114 30.9 49	103 4 14	101 5 13
EL 200048 91026104 EL 20 48	2	EL 110160 EL 120110	86 40	133 39	93 31	93 21	117 48	122 30	137 37	132 34	89 0.68 42	90 0.34 33	105 10 21	133 14.3 39	93 -0.6 31	117 56 30	129 18.5 29	106 25 25	115 9.4 29	111 -15.3 56	127 -9.1 30	97 21.4 57	113 8 30	113 15 28
EL 200050 93910388 EL 200050		EL 110447 EL 160203	101 19	94 18	102 15	99 10	95 30		91 20		101 0.08 19	96 0.16 17	99 4 10	94 0.5 18	102 1.6 15	97 12 14	96 2.0 13	97 4 9	92 0.5 11	79 10.8 26	92 -0.9 14	111 29.2 49	103 4 11	99 4 11
EL 200051 93224962 EL 200051		EL 110447 EL 160069	97 26				98 16				98 0.24 25	93 0.25 28										112 29.6 45		
EL 200053 91066217 EL2053		EL 110132 EL 130154	103 29	105 31	110 25	110 18	103 36	112 23	119 30	116 26	103 -0.01 30	99 0.08 24	91 -4 18	105 4.2 31	110 3.4 25	117 55 25	105 6.4 20	106 25 19	107 6.5 22	112 -16.6 36	95 -1.6 18	105 25.7 54	111 7 22	110 12 21
EL 200056 92910322 EL 200056	3	EL 100249 EL 120099	77 43	119 44	98 31	95 16	100 43	102 28	116 37	110 32	80 1.11 46	86 0.44 30	103 7 16	119 9.3 44	98 0.5 31	112 44 30	114 10.6 34	95 1 20	95 2.0 25	104 -9.5 57	95 -1.7 19	103 24.7 54	105 5 25	101 6 23
EL 200059 92910355 EL 200059		EL 100249 EL 120092	91 34	110 34	101 28	100 19	99 36	101 25	112 32	107 28	93 0.49 35	93 0.25 27	98 3 19	110 6.1 34	101 1.3 28	110 39 27	107 7.2 28	101 13 16	100 3.8 18	97 -3.9 36	96 -1.9 21	104 25.1 52	107 5 18	105 9 18
EL 200064 91065953 2064		WER 090007 EL 150027	87 37	105 36	109 28	89 19	104 39	101 26	99 33	100 30	87 0.78 39	101 0.03 29	109 13 19	105 4.4 36	109 3.1 28	106 32 28	102 4.7 25	104 21 21	105 5.7 23	99 -5.2 39	110 -5.2 24	97 21.6 54	103 3 24	105 9 23
EL 200070 93713006 EL200070		EL 160172	94 10	100 13	94 9	101 6	97 22				92 0.54 11	109 -0.20 8	97 2 6	100 2.4 13	94 -0.4 9	95 7 9	96 1.8 7	96 4 7	96 2.3 8	103 -9.0 15	100 -3.0 10	92 18.8 41	103 3 9	101 6 8
EL 200087 93237253 EL 200087		EL 070100	91 36	85 36	98 31	106 19	87 30	79 24	77 31	77 28	87 0.76 38	117 -0.44 29	94 0 19	85 -2.6 36	98 0.5 31	88 -9 29	88 -2.5 16	84 -23 20	86 -1.4 21	99 -5.3 32	91 -0.7 13	86 15.7 46	86 -5 21	86 -6 20
EL 200093 91318329 EL2093		WER 090007 EL 150053	96 39	99 38	103 31	99 21	106 39	103 27	102 35	102 31	97 0.27 40	94 0.21 32	99 4 21	99 2.2 38	103 1.7 31	102 22 30	98 2.7 26	98 7 22	99 3.2 24	101 -7.2 39	106 -4.3 24	103 24.8 54	94 -1 25	97 3 24
EL 200095 93264877 EL 200095		EL 090032	106 41	103 36	89 20	113 14	102 31	103 22	108 29	106 26	103 -0.03 43	113 -0.30 34	89 -5 14	103 3.5 36	89 -1.5 20	97 13 23	98 2.9 16	90 -10 19	102 4.7 21	107 -11.8 31	116 -6.7 17	82 13.5 46	98 1 21	98 3 21

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ID Number Name																									
EL 200106 91061697 EL20106		WER 090007 EL 150105	89 34	102 34	114 26	87 16	118 47	114 27	103 33	108 30	91 0.55 36	89 0.37 27	111 15 16	102 3.2 34	114 4.3 26	107 34 25	102 4.8 24	108 30 20	104 5.5 23	102 -7.7 54	124 -8.5 31	106 26.5 55	111 7 23	109 12 22	
EL 200117 93063493 EL 20 117		EL 160103 EL 170154	106 22	101 22	101 17	109 11	100 26		108 21		105 -0.13 23	101 0.03 16	93 -2 11	101 3.1 22	101 1.2 17	105 30 17	101 4.4 14	96 4 12	99 3.3 13	100 -6.6 20	91 -0.7 9	109 28.3 49	103 4 14	101 5 13	
EL 200118 92910363 EL 200118	3	EL 100249 EL 120087	81 43	125 44	94 31	99 20	111 47	116 30	131 39	125 34	81 1.07 46	102 0.00 31	99 4 20	125 11.5 44	94 -0.4 31	115 51 32	117 12.1 33	104 20 19	103 4.8 23	107 -12.4 57	111 -5.3 26	105 25.9 57	112 8 24	111 14 23	
EL 200119 93225043 EL 200119		EL 170214	97 10	97 8	94 8	110 6	90 17				95 0.37 10	108 -0.17 8	92 -2 6	97 1.4 8	94 -0.5 8	95 7 7		94 -1 5	96 2.3 6	99 -5.8 8		85 15.0 39	98 1 6	100 5 6	
EL 200143 93225050 EL 200143		EL 160103 EL 170177	107 29	100 29	102 22	112 13	96 29	101 20	108 26	105 23	105 -0.12 30	105 -0.08 22	89 -5 13	100 2.5 29	102 1.4 22	106 32 21	101 4.5 19	98 8 20	109 7.2 23	99 -5.3 23	93 -1.2 11	102 24.2 52	107 5 24	100 5 23	
EL 200148 93063576 EL 20 148		EL 160103 EL 160236	106 22	101 22	101 17	109 11	100 26		108 21		105 -0.13 23	101 0.03 16	93 -2 11	101 3.1 22	101 1.2 17	105 30 17	101 4.4 14	96 4 12	99 3.3 13	100 -6.6 20	91 -0.7 9	109 28.1 48	103 4 14	101 5 13	
EL 200158 93242931 EL 200158		EL 180070 EL 180288	102 14	99 13	104 12	104 9	96 23				101 0.09 15	105 -0.10 12	95 0 9	99 2.2 13	104 1.9 12	104 27 11	98 2.7 10	95 1 10	95 2.0 11	98 -4.4 16	93 -1.2 10	101 23.9 44	104 4 12	103 7 11	
EL 200916 95454518 EL 200916	4	EL 100249 EL 170012	89 36	113 36	97 28	99 11	106 43	107 26	116 33	112 30	90 0.63 38	99 0.09 28	99 4 11	113 7.3 36	97 0.3 28	108 36 25	109 8.1 27	101 14 13	101 4.2 18	101 -7.0 52	102 -3.3 24	109 28.1 52	102 3 18	103 7 17	
EL 210006 92908417 EL 210006	4	EL 110160 EL 120259	102 36	111 33	92 28	118 18	116 46	124 27	131 33	129 30	100 0.12 37	108 -0.18 28	84 -10 18	111 6.3 33	92 -1.0 28	109 39 26	107 7.3 20	95 0 19	103 4.9 23	117 -20.3 56	117 -6.9 25	101 23.9 56	97 0 24	98 4 23	
EL 210010 92906395 EL 210010		EL 100249 AW 080017	75 50	117 46	102 40	93 26	114 49	114 34	119 43	117 38	78 1.21 52	91 0.31 40	105 9 26	117 8.5 46	102 1.4 40	112 44 37	115 11.4 38	109 32 28	101 4.3 31	107 -12.0 57	124 -8.4 32	95 20.6 58	97 1 31	100 5 30	
EL 210029 93449015 EL2129	2	EL 160171 EL 160044	100 23	107 23	105 13		102 28		108 20		100 0.12 25	98 0.12 14		107 4.9 23	105 2.1 13	108 37 13	107 7.0 10	104 20 16	116 9.7 20	97 -3.7 25	104 -3.9 8	100 23.4 50	113 9 20	109 12 19	
EL 210043 92910090 EL 21 43		EL 100249 EL 120044	91 34	110 34	101 28	100 19	98 36	100 25	111 32	106 28	93 0.49 35	93 0.25 27	98 3 19	110 6.1 34	101 1.3 28	110 39 27	107 7.2 28	101 13 16	100 3.8 18	97 -3.9 36	96 -1.9 21	102 24.4 52	107 5 18	105 9 18	

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ID Number Name																								
EL 210060 93551885 EL 21 60		EL 180036 EL 180071	97 19	105 22	93 18	96 12	99 30		98 22		97 0.29 20	100 0.06 17	103 7 12	105 4.4 22	93 -0.7 18	96 10 17	104 5.8 14	106 25 14	98 3.0 15	89 2.9 28	98 -2.4 15	107 26.7 47	106 5 16	101 6 15
EL 210061 93062354 EL 21 61		DN 180199 EL 150093	104 31	88 27	109 25	108 13	114 40	112 23	101 28	106 26	103 0.00 32	103 -0.03 26	93 -2 13	88 -1.7 27	109 3.1 25	101 20 22	88 -2.1 19	88 -14 21	105 5.7 23	115 -18.6 52	114 -6.1 19	101 24.0 49	93 -1 24	93 0 23
EL 210062 93062347 EL 21 62		EL 110132 EL 140250	96 29	112 28	104 22	96 16	107 35	110 22	117 27	114 24	96 0.34 30	100 0.04 22	101 6 16	112 6.9 28	104 2.0 22	112 45 22	110 8.8 18	108 30 16	106 6.0 18	119 -22.3 35	95 -1.7 18	108 27.7 52	109 7 18	112 14 17
EL 210070 93558385 EL2170		EL 180070 EL 180055	103 12	94 10	98 9	111 6	97 23				101 0.08 12	108 -0.17 9	91 -4 6	94 0.6 10	98 0.6 9	98 13 8	93 0.2 6	92 -7 6	91 0.5 7	103 -9.0 15	95 -1.7 9	98 22.3 44	96 0 7	97 3 7
EL 210079 93062735 EL 21 79		EL 110132 EL 130093	99 37	118 37	97 29	93 19	112 45	112 28	119 35	116 32	101 0.07 38	86 0.45 32	106 10 19	118 8.9 37	97 0.4 29	109 37 28	118 12.7 25	109 31 22	102 4.7 25	127 -28.5 57	102 -3.3 25	105 25.7 54	100 2 26	106 10 25
EL 210085 93558369 EL210085	1	EL 180115 EL 180131	99 19	109 19	95 14	99 7	99 24				97 0.27 20	106 -0.10 15	99 4 7	109 5.8 19	95 -0.1 14	103 25 13	106 6.7 10	97 6 12	106 6.1 15	101 -6.8 19	102 -3.3 8	95 20.4 46	102 3 15	105 9 14
EL 210086 94579315 EL-21 86		EL 110132 EL 130095	102 29	109 29	100 23	101 17	107 34	109 22	117 28	113 25	102 0.03 30	99 0.08 23	97 2 17	109 6.0 29	100 1.0 23	109 37 23	108 7.9 18	108 30 16	106 6.0 18	119 -22.2 35	96 -2.0 18	106 26.2 50	109 7 18	112 14 17
EL 210090 93062800 EL 21 90	2	EL 100249 EL 120160	86 43	117 43	97 32	102 20	108 45	112 30	124 38	119 34	87 0.78 46	98 0.12 31	97 2 20	117 8.7 43	97 0.3 32	113 46 32	112 9.8 33	95 2 21	99 3.4 25	111 -15.4 58	108 -4.6 23	100 23.3 55	110 7 25	105 9 24
EL 210096 93063261 EL 21 96		EL 110160 EL 120140	90 35	122 36	95 31	99 23	121 46	125 29	133 36	130 32	90 0.60 36	96 0.16 28	99 4 23	122 10.3 36	95 -0.2 31	113 47 30	117 12.3 24	105 24 24	111 7.9 27	125 -27.4 56	125 -8.6 28	98 22.2 55	117 11 27	110 13 26
EL 210104 93063337 EL 21 104		DN 180199 EL 150082	96 35	95 35	105 29	99 16	115 43	111 26	103 33	107 30	96 0.31 36	97 0.13 29	99 4 16	95 0.9 35	105 2.2 29	100 19 27	94 0.9 22	96 3 23	101 4.2 25	117 -20.3 54	114 -6.2 24	104 25.1 51	96 0 26	95 1 25
EL 210109 95454526 EL 210109		EL 170012	97 14	98 13	95 12	101 8	93 21				95 0.39 15	112 -0.29 12	98 3 8	98 1.8 13	95 -0.2 12	94 6 11	95 1.3 9	94 -2 9	93 1.0 11	100 -5.9 18	96 -2.0 11	91 18.2 34	96 0 11	99 4 11
EL 210115 93063352 EL 21 115		DN 180199 EL 160232	105 28	88 24	111 22	104 10	104 28	95 23			104 -0.09 29	100 0.05 24	95 0 10	88 -1.6 24	111 3.5 22	101 21 19	88 -2.2 18	91 -8 19	99 3.4 21	102 -7.6 29	101 -3.2 12	105 26.1 43	96 0 21	97 3 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
EL 210120 93558302 EL21120		EL 180036 EL 180107	100 28	106 29	95 23	102 15	102 35	101 22	107 28	104 25	99 0.18 29	105 -0.10 23	97 2 15	106 4.8 29	95 -0.3 23	101 21 22	104 5.9 20	103 18 17	98 3.2 19	93 -0.6 36	99 -2.7 20	108 27.6 50	102 3 19	99 5 19
EL 210127 93910305 EL 21 127	6	EL 100249 EL 120218	98 42	118 43	94 36	99 18	103 44	106 30	119 38	113 34	99 0.17 44	95 0.20 34	99 4 18	118 8.9 43	94 -0.3 36	109 38 32	114 10.5 27	108 29 9	105 5.9 16	107 -12.1 56	99 -2.6 21	103 24.7 56	104 4 17	103 7 15
EL 210133 93063634 EL 21133		EL 160103 EL 160034	106 22	101 22	101 17	109 11	98 26		107 21		105 -0.13 23	101 0.03 16	93 -2 11	101 3.1 22	101 1.2 17	105 30 17	101 4.4 14	96 4 12	99 3.3 13	100 -6.6 20	91 -0.7 9	107 27.0 48	103 4 14	101 5 13
EL 210134 93448918 EL 21 134	1	DN 180199 EL 150128	98 33	99 30	105 26	96 11	122 43	118 24	108 30	113 27	99 0.15 34	93 0.25 28	102 6 11	99 2.3 30	105 2.3 26	103 24 22	99 3.3 21	100 13 22	105 5.7 25	113 -17.1 54	126 -9.0 23	105 25.7 51	99 1 25	99 5 24
EL 210139 95454286 EL21139	1	EL 160171 EL 160166	90 28	115 27	102 19	94 11	117 34	118 20	120 25	120 22	93 0.49 30	90 0.35 19	104 8 11	115 7.7 27	102 1.6 19	111 42 19	113 10.4 11	111 37 14	114 9.1 17	107 -11.9 36	116 -6.7 14	110 28.5 51	123 14 18	113 15 17
EL 210142 94737160 EL21142	1	EL 180115 EL 180257	98 16	103 16	97 13	102 7	100 22				97 0.29 17	105 -0.09 13	97 2 7	103 3.6 16	97 0.2 13	100 19 12	101 4.2 6	95 1 10	100 3.6 12	104 -9.9 14	101 -3.1 6	97 21.6 46	95 0 12	98 4 11
EL 210149 93712941 EL18149	1	EL 180115 EL 180039	99 16	106 15	95 11		100 21				97 0.27 17	107 -0.15 11		106 4.8 15	95 -0.1 11	100 19 10	103 5.4 6	99 9 8	105 5.8 11	103 -8.4 13	102 -3.3 5	97 21.4 44	103 3 11	105 9 10
EL 210152 93063675 EL 21 152		EL 110132 EL 140050	104 22	103 25	108 18	99 13	106 34	108 20	111 25	109 22	105 -0.11 23	94 0.21 18	98 3 13	103 3.7 25	108 2.9 18	110 40 19	104 5.7 16	105 23 13	98 3.2 15	115 -19.0 33	92 -0.9 16	111 29.2 52	108 6 15	109 12 15
EL 210154 93063683 EL 21 154		EL 110132 EL 130154	103 29	105 31	110 25	110 18	103 35	112 23	119 29	116 26	103 -0.01 30	99 0.08 24	91 -4 18	105 4.2 31	110 3.4 25	117 55 25	105 6.4 20	106 25 19	107 6.5 22	112 -16.6 36	95 -1.6 18	104 25.1 52	111 7 22	110 12 21
EL 210158 94854213 EL 21 158		DN 180199 EL 160011	105 28	88 24	111 22	104 10	102 29		94 23		104 -0.09 29	100 0.05 24	95 0 10	88 -1.6 24	111 3.5 22	101 21 19	88 -2.2 18	91 -8 19	99 3.4 21	102 -7.6 29	101 -3.2 12	101 23.5 47	96 0 21	97 3 21
EL 210170 93064111 EL 21 170	1	EL 110132 EL 160040	107 29	103 31	101 25	107 19	104 41	107 25	111 31	109 28	106 -0.17 30	102 0.00 24	94 -1 19	103 3.5 31	101 1.2 25	105 30 25	101 4.1 20	101 14 16	106 5.9 19	127 -28.4 52	88 0.0 20	106 26.5 51	103 3 19	100 5 18
EL 210176 93064145 EL 210176		DN 180199 EL 160049	105 28	88 24	111 22	104 10	106 30		96 23		104 -0.09 29	100 0.05 24	95 0 10	88 -1.6 24	111 3.5 22	101 21 19	88 -2.2 18	91 -8 19	99 3.4 21	102 -7.6 29	101 -3.2 12	109 27.8 48	96 0 21	97 3 21

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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																							
EL 210184	EL 180115	100	103	99	97	99				98	105	101	103	99	101	101	97	102	101	99	98	102	104
93712958	EL 180202	14	14	9	6	20				0.20	-0.08	6	3.7	0.8	20	4.3	5	4.4	-6.8	-2.8	22.2	3	8
EL21184										15	10	6	14	9	10	8	10	11	12	7	42	11	11
EL 210199	EL 160103	100	115							98			115								106		
95454567	EL 170087	9	5							0.20			7.8								26.2		
EL21199										11			5								44		
EL 210212	EL 180118	96	103	95	100	98				94	110	99	103	95	98	100	98	101	111	95	95	100	102
95368601		18	18	14	8	25				0.43	-0.24	3	3.5	-0.1	14	3.7	8	4.3	-15.7	-1.8	20.3	2	6
EL 210212										19	14	8	18	14	13	8	8	10	26	10	38	11	10
EL 210226	EL 160103	100	107	101	100	105		111		99	102	98	107	101	107	105	101	107	104	101	105	104	104
93064558	EL 170256	24	25	18	11	27		23		0.17	-0.01	3	5.1	1.3	34	6.4	14	6.3	-9.9	-3.2	25.7	4	8
EL21226										25	18	11	25	18	18	15	13	15	23	12	46	15	15
EL 210243	EL 160103	108	104	98						106	103		104	98		103			102		93		
93064780	EL 170139	22	23	10						-0.19	-0.04		4.1	0.7		5.4			-8.0		19.4		
EL21243										24	9		23	10		9			18		47		
EL 210251	DN 180199	103	90	113	106	109	109	101	105	101	103	94	90	113	105	89	92	103	115	105	102	100	97
93910404	EL 150102	30	27	25	14	38	23	28	26	0.06	-0.04	0	-1.0	4.0	29	-1.5	-6	4.9	-18.8	-4.0	24.3	2	3
EL 21 251										31	27	14	27	25	22	20	21	24	51	16	48	24	23
EL 210256	EL 130103	98	99	107	96	96		97		97	103	101	99	107	104	99	97	104	100	102	90	105	103
93064996		25	24	19	14	31		24		0.27	-0.02	6	2.4	2.6	28	3.1	5	5.2	-6.0	-3.4	17.6	5	7
EL 21 256										26	19	14	24	19	19	16	15	16	30	18	44	16	16
EL 210260	EL 160171	95	109	103	100	101		112		95	98	98	109	103	110	109	105	112	98	100	102	115	109
93448991	EL 160036	24	24	21	17	30		24		0.36	0.11	3	5.6	1.7	41	8.1	23	8.3	-4.8	-2.8	24.4	10	12
EL 210260										25	20	17	24	21	21	14	15	17	27	12	50	18	17
EL 210265	EL 180127	90	110	93	109	100		113		91	94	93	110	93	105	107	99	104	104	103	94	102	103
93910065		24	25	18	12	29		23		0.55	0.21	-2	6.1	-0.5	30	7.4	11	5.3	-9.7	-3.5	19.7	3	7
EL 21 265										25	18	12	25	18	18	18	13	14	29	16	42	15	14
EL 210267	EL 180066	100	93	95		93				97	115		93	95	93	90	90	96	98	98	89	95	96
94864097		11	11	7		20				0.29	-0.36		0.0	-0.1	3	-1.1	-11	2.3	-4.6	-2.4	17.3	-1	2
EL21267										12	8		11	7	7	6	7	8	15	9	37	8	8
EL 210268	EL 180070	99	103	97		99				98	102		103	97		102			101	92	106		
93551851	EL 180117	13	14	9		27				0.20	0.01		3.6	0.4		4.9			-6.9	-1.0	26.6		
EL21268										14	10		14	9		5			25	10	45		
EL 210271	EL 190001	97	102	92	108	89				94	112	94	102	92	97	99	95	100	99	96	84	101	103
93712974		14	13	12	8	19				0.42	-0.29	-1	3.2	-0.9	11	3.1	1	3.6	-5.3	-2.0	14.6	2	7
EL21271										14	12	8	13	12	11	9	9	11	15	8	33	11	11

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ID Number Name																								
EL 220018 94854023 EL 220018	6	EL 100249 EL 120194	97 39	114 39	102 30	103 10	101 36	108 24	121 32	115 28	98 0.20 41	93 0.25 29	96 1 10	114 7.7 39	102 1.5 30	115 52 26	111 9.1 28	102 16 14	97 2.8 21	94 -0.9 40	98 -2.3 15	109 27.9 52	108 6 22	107 10 19
EL 220019 94749710 EL 220019		EL 110132 EL 130093	99 37	118 37	97 29	93 19	114 45	114 28	120 35	118 32	101 0.07 38	86 0.45 32	106 10 19	118 8.9 37	97 0.4 29	109 37 28	118 12.7 25	109 31 22	102 4.7 25	127 -28.4 56	102 -3.3 25	109 28.0 54	100 2 26	106 10 25
EL 220022 94749736 EL 220022	7	EL 100249 EL 120110	80 43	132 43	95 29	91 10	103 39	108 26	127 35	119 30	84 0.92 45	84 0.49 31	108 12 10	132 13.9 43	95 -0.1 29	117 55 27	127 17.2 29	108 29 11	112 8.4 18	105 -10.4 46	109 -4.9 19	93 19.5 51	110 7 19	110 13 17
EL 220025 94853728 EL2225		EL 200023	96 17	104 17	101 13	96 9	92 24				95 0.38 18	104 -0.06 13	102 7 9	104 4.2 17	101 1.3 13	103 25 13	102 5.0 10	104 21 9	102 4.4 10	116 -19.5 28	97 -2.2 16	78 11.3 27	102 3 11	106 9 10
EL 220028 95031761 EL 22 28		EL 110132 EL 130181	95 33	112 34	118 25	95 17	116 44	123 26	126 32	126 29	97 0.29 34	89 0.35 26	101 6 17	112 6.8 34	118 5.2 25	124 70 25	113 10.2 22	111 37 19	114 9.1 22	126 -27.8 55	107 -4.6 23	106 26.3 53	115 9 22	113 15 21
EL 220030 94749793 EL 220030		EL 110132 EL 130117	101 30	103 31	103 26	112 18	112 41	117 25	119 31	119 28	101 0.07 31	95 0.20 26	89 -5 18	103 3.6 31	103 1.6 26	109 39 25	103 5.5 18	101 15 17	94 1.6 19	129 -30.1 51	96 -2.0 19	110 28.4 52	95 -1 19	98 4 18
EL 220035 94749819 EL 220035		EL 200014	104 15	95 15	98 11	105 7	105 27				101 0.05 16	107 -0.15 12	95 0 7	95 0.8 15	98 0.6 11	96 10 11	94 0.6 10	97 6 8	95 1.9 9	113 -16.9 28	102 -3.3 16	100 23.4 37	96 0 9	99 4 9
EL 220037 95365458 EL 220037	1	DN 180199 EL 150109	101 32	93 30	104 25	100 12	119 42	113 24	102 29	107 26	100 0.12 33	100 0.05 27	98 3 12	93 0.0 30	104 1.9 25	98 13 22	92 -0.5 21	94 -1 21	100 3.9 24	106 -11.5 55	118 -7.1 20	111 29.3 50	100 2 24	97 3 23
EL 220039 95454575 EL 220039		EL 180115 EL 180073	98 16	105 16	96 11	95 6	106 24				96 0.31 17	105 -0.09 11	103 7 6	105 4.4 16	96 0.1 11	99 16 11	103 5.2 10	99 9 11	102 4.7 12	100 -6.1 18	107 -4.5 9	104 25.2 44	104 4 13	104 8 12
EL 220046 94756913 EL 220046		EL 110132 EL 130095	102 29	109 29	100 23	101 17	109 35	111 22	118 28	115 25	102 0.03 30	99 0.08 23	97 2 17	109 6.0 29	100 1.0 23	109 37 23	108 7.9 18	108 30 16	106 6.0 18	119 -22.2 35	96 -2.0 18	110 28.6 51	109 7 18	112 14 17
EL 220049 94756939 EL 220049		EL 110132 EL 140050	104 22	103 25	108 18	99 13	108 33		112 24		105 -0.11 23	94 0.21 18	98 3 13	103 3.7 25	108 2.9 18	110 40 19	104 5.7 16	105 23 13	98 3.2 15	115 -19.0 33	92 -0.9 16	115 31.4 50	108 6 15	109 12 15
EL 220070 96091889 EL2270		EL 170224	95 22	101 22	94 16	107 10	102 25		104 20		92 0.51 23	111 -0.27 16	94 -1 10	101 3.0 22	94 -0.4 16	98 14 16	99 3.1 12	92 -6 12	100 3.7 14	109 -13.5 24	99 -2.6 14	100 23.0 38	100 2 14	98 4 13

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ID Number Name																								
EL 220083 94757085 EL 220083		EL 160103 EL 170129	106 22	101 22	101 17	109 11	101 25		109 21		105 -0.13 23	101 0.03 16	93 -2 11	101 3.1 22	101 1.2 17	105 30 17	101 4.4 14	96 4 12	99 3.3 13	100 -6.6 20	91 -0.7 9	112 29.8 47	103 4 14	101 5 13
EL 220084 94757101 EL 220084		EL 160103 EL 170104	106 22	101 22	101 17	109 11	100 25		108 21		105 -0.13 23	101 0.03 16	93 -2 11	101 3.1 22	101 1.2 17	105 30 17	101 4.4 14	96 4 12	99 3.3 13	100 -6.6 20	91 -0.7 9	110 28.7 46	103 4 14	101 5 13
EL 220087 94757143 EL 220087	1	EL 110132 EL 130048	100 34	111 35	102 27	110 19	119 42	126 26	130 33	130 30	101 0.08 35	94 0.23 26	92 -3 19	111 6.4 35	102 1.5 27	115 50 27	109 8.4 22	103 18 15	107 6.4 18	132 -32.7 55	103 -3.6 18	114 30.8 53	105 5 18	103 7 17
EL 220093 94757275 EL 220093		EL 110132 EL 130077	95 30	110 34	114 23	93 14	113 43	117 25	120 31	119 28	98 0.24 31	87 0.41 23	104 8 14	110 6.3 34	114 4.4 23	118 57 24	111 9.1 20	111 36 19	111 8.2 21	122 -24.8 55	101 -3.1 22	111 29.1 53	111 7 22	114 16 21
EL 220094 94757317 EL 220094	1	EL 160103 EL 170080	105 26	106 27	92 19	114 11	107 26		117 24		104 -0.06 28	105 -0.08 18	89 -6 11	106 4.7 27	92 -0.8 19	103 25 19	103 5.1 16	98 8 10	100 3.9 13	107 -11.9 22	100 -3.0 9	109 28.0 48	99 1 14	97 3 13
EL 220105 94757325 EL 220105		EL 160103 EL 170247	105 22	101 22	98 17	110 11	101 25		108 21		103 -0.02 23	104 -0.07 16	92 -3 11	101 3.0 22	98 0.5 17	103 24 17	100 3.9 14	96 3 12	99 3.5 13	101 -7.1 20	93 -1.3 9	109 28.1 47	101 3 14	100 5 13
EL 220106 94757358 EL 220106		EL 110132 EL 140033	101 29	109 30	105 22	103 16	109 34	114 22	121 28	118 25	101 0.06 30	96 0.17 22	95 0 16	109 5.8 30	105 2.2 22	114 48 23	109 8.5 19	106 24 18	106 6.1 20	121 -23.9 35	100 -3.0 18	104 25.1 50	112 8 20	109 12 19
EL 220107 95365474 EL 220107	14	EL 160103 EL 170087	100 9	115 5							98 0.20 11			115 7.8 5								98 22.0 40		
EL 220116 94757523 EL 220116	3	EL 110160 EL 120118	98 40	114 39	91 30	107 23	109 43	112 29	121 36	117 32	96 0.34 42	108 -0.19 30	94 -1 23	114 7.6 39	91 -1.2 30	106 31 31	108 7.6 28	90 -9 23	105 5.8 27	113 -16.8 56	104 -3.7 19	105 25.7 55	106 5 28	102 6 27
EL 220123 94757549 EL 220123		DN 180199 EL 150107	105 28	88 24	111 22	104 10	96 27		91 23		104 -0.09 29	100 0.05 24	95 0 10	88 -1.6 24	111 3.5 22	101 21 19	88 -2.2 18	91 -8 19	99 3.4 21	102 -7.6 29	101 -3.2 12	90 17.6 41	96 0 21	97 3 21
EL 220124 94854171 EL 220124		EL 160103 EL 170136	100 24	105 24	101 18	105 10	104 27		112 22		99 0.15 25	101 0.03 18	95 0 10	105 4.3 24	101 1.3 18	107 33 17	104 5.6 14	99 10 13	106 6.0 15	102 -7.5 24	97 -2.1 10	110 28.8 47	103 3 15	102 7 15
EL 220131 94758703 EL 220131		EL 160103 EL 170151	106 22	101 22	101 17	109 11	100 25		108 21		105 -0.13 23	101 0.03 16	93 -2 11	101 3.1 22	101 1.2 17	105 30 17	101 4.4 14	96 4 12	99 3.3 13	100 -6.6 20	91 -0.7 9	110 28.7 46	103 4 14	101 5 13

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ID	Sire ID																							
Number	Dam ID																							
Name	% Inbreeding																							
EL 220137	EL 160103	106	101	101	109	102		109			105	101	93	101	101	105	101	96	99	100	91	113	103	101
94755873	EL 170154	22	22	17	11	25		21			-0.13	0.03	-2	3.1	1.2	30	4.4	4	3.3	-6.6	-0.7	30.1	4	5
EL 220137											23	16	11	22	17	17	14	12	13	20	9	47	14	13
EL 220149	EL 160171	98	103	104	94	106					98	95	104	103	104	104	104	107	101	96	96	118	112	109
94757598	EL 160104	15	15	11	7	27					0.20	0.19	8	3.8	2.0	28	5.8	27	4.3	-2.6	-1.8	32.7	8	12
EL 220149											16	12	7	15	11	11	10	10	11	23	12	46	12	11
EL 220165	EL 160103	100	107	101	100	107		112			99	102	98	107	101	107	105	101	107	104	101	109	104	104
94757622	EL 170256	24	25	18	11	27		23			0.17	-0.01	3	5.1	1.3	34	6.4	14	6.3	-9.9	-3.2	28.3	4	8
EL 220165											25	18	11	25	18	18	15	13	15	23	12	47	15	15
EL 220168	EL 180036	104	102	88	104	100		100			102	103	96	102	88	92	101	102	96	88	96	112	100	97
94757671	EL 180078	19	20	18	11	27		20			0.00	-0.02	1	3.2	-1.8	2	4.0	15	2.1	3.9	-1.9	29.5	2	3
EL 220168											19	17	11	20	18	16	10	11	13	26	10	44	13	13
EL 220176	EL 160103	102	106	97	111	106		116			100	107	90	106	97	106	103	93	102	104	98	111	104	101
94756327	EL 170122	25	26	18	11	27		23			0.13	-0.15	-4	4.6	0.2	31	5.5	-4	4.6	-9.8	-2.4	28.9	4	6
EL 220176											27	18	11	26	18	18	16	14	16	23	10	48	16	16
EL 220182	EL 160103	105	101	98	110	102		108			103	104	92	101	98	103	100	96	99	101	93	110	101	100
94756392	EL 170212	22	22	17	11	25		21			-0.02	-0.07	-3	3.0	0.5	24	3.9	3	3.5	-7.1	-1.3	28.7	3	5
EL 220182											23	16	11	22	17	17	14	12	13	20	9	46	14	13
EL 220197	EL 160103	106	101	101	109	103		110			105	101	93	101	101	105	101	96	99	100	91	116	103	101
94757796	EL 170257	22	22	17	11	25		21			-0.13	0.03	-2	3.1	1.2	30	4.4	4	3.3	-6.6	-0.7	31.7	4	5
EL 220197											23	16	11	22	17	17	14	12	13	20	9	46	14	13
EL 220199	EL 180115	101	107	101		104					99	107		107	101		105	99	106	102		105	103	105
94758786	EL 180288	18	17	11		21					0.15	-0.14		5.2	1.3		6.2	9	5.9	-7.8		25.8	4	9
EL 220199											19	11		17	11		6	7	12	17		44	13	11
EL 220204	EL 180115	99	109	95	99	101					97	106	99	109	95	103	106	97	106	101	102	98	102	105
94758810	EL 180131	19	19	14	7	24					0.27	-0.10	4	5.8	-0.1	25	6.7	6	6.1	-6.8	-3.3	22.3	3	9
EL 220204											20	15	7	19	14	13	10	12	15	19	8	45	15	14
EL 220207	EL 160171	90	115	102	94	123	123	123	124		93	90	104	115	102	111	113	111	114	114	118	114	123	113
95454351	EL 160166	28	27	19	11	38	21	26	24		0.49	0.35	8	7.7	1.6	42	10.4	37	9.1	-17.9	-7.2	30.8	14	15
EL 220207											30	19	11	27	19	19	11	14	17	50	14	49	18	17
EL 220219	EL 160171	96	104	105	94	100					97	94	104	104	105	105	105	107	101	96	96	107	112	109
94864030	EL 160069	16	15	11	7	27					0.25	0.23	8	4.1	2.2	30	6.2	27	4.3	-2.6	-1.8	27.0	8	12
EL 220219											17	14	7	15	11	11	10	10	11	23	12	46	12	11
EL 220401	EL 200051	96				97					95	103										103		
95524963		13				11					0.35	-0.04										24.8		
EL22401											13	14										32		

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ID Number Name																								
EL 230022 95212635 EL2322		EL 190032	95 7	96 7	94 5		87 11				92 0.50 8	113 -0.32 5		96 1.3 7	94 -0.4 5	94 4 5	93 0.5 6	91 -7 5	94 1.5 5	100 -6.1 7	99 -2.6 5	77 10.7 22	99 2 5	100 5 5
EL 230036 95582565 EL2336		EL 110160 EL 200106	91 34	115 32	104 28	95 21	110 37	112 25	119 31	116 28	92 0.50 35	93 0.25 27	103 7 21	115 7.8 32	104 1.9 28	113 47 27	113 10.3 24	106 25 21	110 7.5 24	101 -6.8 41	121 -7.9 23	95 20.4 47	113 8 24	111 13 23
EL 230037 95582573 EL2337		DN 180199 EL 200079	103 28	88 24	107 22	106 10	99 26		92 22		102 0.02 29	104 -0.05 24	94 0 10	88 -1.7 24	107 2.7 22	99 15 19	87 -2.7 18	91 -9 19	99 3.6 21	102 -8.1 29	104 -3.7 12	93 19.6 38	94 -1 21	96 2 21
EL 230038 95582581 EL23118	6	EL 110160 EL 200118	87 34	126 33	94 27	102 10	107 34	114 22	133 29	125 26	87 0.77 36	100 0.07 26	97 2 10	126 11.9 33	94 -0.5 27	117 56 23	120 13.9 21	104 20 14	109 7.1 20	104 -9.2 41	115 -6.3 15	94 20.1 47	113 9 21	112 14 19
EL 230046 95689626 EL2346	4	EL 110160 EL 200082	92 32	119 31	97 27	103 15	101 32	107 22	123 28	116 25	93 0.48 34	95 0.19 25	96 1 15	119 9.2 31	97 0.4 27	114 50 24	115 11.5 22	102 16 15	107 6.6 20	98 -4.9 35	107 -4.6 14	94 20.0 46	111 7 21	109 12 19
EL 230057 95786307 EL2357		EL 180036 EL 180199	103 17	102 18	98 16	97 11	88 25				103 -0.02 17	98 0.12 15	101 6 11	102 3.2 18	98 0.6 16	99 16 15	102 4.7 12	104 21 12	96 2.4 14	84 6.8 25	92 -1.1 13	95 20.5 38	108 6 14	103 7 14
EL 230060 95788246 EL2360	3	EL 110132 EL 170139	106 25	106 27	106 17		92 31		108 23		106 -0.17 27	97 0.15 17		106 4.8 27	106 2.3 17	111 43 16	106 6.7 11	108 29 9	104 5.3 13	117 -20.3 35	94 -1.5 12	81 13.2 45	105 5 14	107 10 13
EL 230062 95792073 EL2362	3	EL 110160 EL 120218	105 40	119 38	92 35	101 25	97 38	101 28	119 36	111 32	104 -0.07 41	100 0.05 33	97 2 25	119 9.3 38	92 -0.8 35	110 39 33	116 11.8 24	106 25 23	108 6.9 28	101 -6.8 44	108 -4.7 19	85 15.1 51	107 6 28	106 9 27
EL 230065 95809786 EL2365	2	EL 180152 EL 180065	108 25	98 25	97 17	113 9	102 23		106 21		106 -0.17 27	105 -0.09 16	89 -6 9	98 1.9 25	97 0.3 17	100 19 17	96 1.7 14	87 -17 12	91 0.4 15	105 -10.2 23	107 -4.6 9	92 18.8 37	103 3 15	95 2 14
EL 230066 95809794 EL2366		EL 180060 EL 170154	93 24	101 24	110 16	96 10	94 25		99 21		93 0.48 25	98 0.10 17	101 6 10	101 2.8 24	110 3.4 16	108 36 17	99 3.3 14	95 2 14	103 4.8 15	94 -1.1 23	99 -2.8 15	93 19.3 38	101 2 16	101 6 15
EL 230067 95883815 EL2367	1	EL 110132 EL 170224	100 31	110 32	103 23	102 15	107 35	111 22	119 29	116 26	100 0.14 32	99 0.08 24	96 1 15	110 6.2 32	103 1.7 23	112 45 23	109 8.4 18	104 20 17	106 6.2 19	127 -28.6 39	97 -2.3 19	100 23.1 46	106 5 20	106 10 19
EL 230069 95950523 EL2369	1	EL 160103 EL 170102	98 24	107 24	103 18	107 10	94 26		110 22		97 0.27 25	101 0.03 18	94 -1 10	107 5.1 24	103 1.7 18	111 42 17	106 6.8 14	100 12 13	108 6.7 15	101 -6.8 24	99 -2.6 10	89 17.2 44	105 5 15	103 7 15

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ID Number Name																								
EL 230071 95950549 EL2371		EL 180036 EL 180194	101 17	102 18	95 16	97 11	89 26				101 0.09 17	101 0.02 15	101 5 11	102 3.2 18	95 -0.1 16	96 10 15	101 4.2 12	104 20 12	97 2.6 14	85 6.3 25	95 -1.6 13	93 19.5 40	106 5 14	102 7 14
EL 230075 95950606 EL2375	4	EL 180152 EL 180148	102 20	97 20			101 20				99 0.19 24			97 1.7 20			94 0.8 8		87 -1.1 7	104 -9.3 20		94 19.8 37	102 3 8	96 2 5
EL 230080 96928817 EL2380		EL 180115 EL 190013	98 16	105 16	96 11	95 6	99 22				96 0.31 17	105 -0.09 11	103 7 6	105 4.4 16	96 0.1 11	99 16 11	103 5.2 10	99 9 11	102 4.7 12	100 -6.1 18	107 -4.5 9	90 17.8 39	104 4 13	104 8 12
EL 230084 95951042 EL 23 84		EL 110160 EL 120140	90 35	122 36	95 31	99 23	105 40	109 27	125 34	118 30	90 0.60 36	96 0.16 28	99 4 23	122 10.3 36	95 -0.2 31	113 47 30	117 12.3 24	105 24 24	111 7.9 27	109 -13.5 45	114 -6.1 25	89 17.4 51	117 11 27	110 13 26
EL 230085 95951059 EL 23 85		EL 180058 EL 190081	91 30	100 29	111 22	99 14	94 29	95 20	100 26	97 23	92 0.50 31	93 0.25 22	98 3 14	100 2.5 29	111 3.6 22	110 39 22	101 4.2 20	98 6 20	102 4.6 23	98 -4.6 31	93 -1.4 17	96 21.2 40	107 5 24	101 6 23
EL 230088 95951075 EL 23 88		DN 180199 EL 150102	103 30	90 27	113 25	106 14	101 32	102 21	97 26	99 24	101 0.06 31	103 -0.04 27	94 0 14	90 -1.0 27	113 4.0 25	105 29 22	89 -1.5 20	92 -6 21	103 4.9 24	109 -13.4 37	103 -3.5 16	93 19.6 43	100 2 24	97 3 23
EL 230092 95951117 EL 23 92		DN 180199 EL 150082	96 35	95 35	105 29	99 16	105 36	101 24	98 32	99 28	96 0.31 36	97 0.13 29	99 4 16	95 0.9 35	105 2.2 29	100 19 27	94 0.9 22	96 3 23	101 4.2 25	110 -14.3 42	108 -4.9 21	94 19.9 46	96 0 26	95 1 25
EL 230094 95951174 EL 23 94	1	DN 180199 EL 160210	105 29	88 25	106 23	104 8	92 28		88 23		103 -0.04 30	104 -0.05 25	95 0 8	88 -1.5 25	106 2.5 23	98 13 19	87 -2.8 18	91 -8 20	106 6.1 22	102 -8.3 30	100 -3.0 10	83 13.8 43	93 -2 23	95 1 22
EL 230100 95951224 EL 23 100	2	EL 160103 EL 170204	102 31	108 31	97 24	111 9	90 26		110 26		103 -0.04 33	91 0.30 24	91 -3 9	108 5.3 31	97 0.3 24	107 35 21	109 8.1 12	98 8 13	102 4.4 16	97 -4.1 25	92 -1.1 8	91 18.4 45	97 1 17	97 3 15
EL 230102 95951240 EL 23 102	1	EL 180058 EL 190110	94 30	107 28	99 22	109 10	102 28		115 24		93 0.45 32	103 -0.04 21	92 -2 10	107 5.2 28	99 0.8 22	109 38 20	106 6.6 18	102 16 17	107 6.4 21	101 -7.5 30	102 -3.3 13	101 23.9 40	106 5 22	101 6 20
EL 230104 95951265 EL 23 104		EL 160171 EL 170060	98 15	103 15	104 11	94 7	88 26				98 0.20 16	95 0.19 12	104 8 7	103 3.8 15	104 2.0 11	104 28 11	104 5.8 10	107 27 10	101 4.3 11	96 -2.6 23	96 -1.8 12	85 15.4 42	112 8 12	109 12 11
EL 230105 95951273 EL 23 105		EL 110132 EL 130095	102 29	109 29	100 23	101 17	102 34	105 22	114 28	110 25	102 0.03 30	99 0.08 23	97 2 17	109 6.0 29	100 1.0 23	109 37 23	108 7.9 18	108 30 16	106 6.0 18	119 -22.2 35	96 -2.0 18	97 21.8 48	109 7 18	112 14 17

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ID Number Name																								
EL 230112 95951315 EL 23 112	1	EL 110160 EL 120085	85 40	122 38	103 29	99 23	96 39	104 27	124 35	115 31	86 0.83 42	97 0.14 29	99 4 23	122 10.4 38	103 1.7 29	121 63 30	119 13.2 29	94 -1 26	108 6.6 29	103 -8.6 44	109 -5.0 23	81 12.9 51	117 11 30	113 15 29
EL 230115 95951323 EL 23 115		EL 180060 EL 170257	93 24	101 24	110 16	96 10	96 25		100 21		93 0.48 25	98 0.10 17	101 6 10	101 2.8 24	110 3.4 16	108 36 17	99 3.3 14	95 2 14	103 4.8 15	94 -1.1 23	99 -2.8 15	96 21.2 38	101 2 16	101 6 15
EL 230116 95951331 EL 23 116	1	EL 180060 EL 170121	85 27	111 28	104 18	93 9	94 28		105 24		86 0.80 29	98 0.12 20	105 9 9	111 6.6 28	104 2.0 18	110 39 18	108 7.9 16	99 9 16	109 7.3 18	98 -4.9 28	108 -4.8 16	81 12.7 40	100 2 18	103 7 18
EL 230121 95951364 EL 23 121		EL 110160 EL 120070	95 38	113 37	100 30	98 24	96 39	99 27	112 35	106 31	93 0.46 40	109 -0.21 29	100 4 24	113 7.3 37	100 1.1 30	111 42 30	109 8.3 28	95 1 24	102 4.7 28	98 -4.4 44	110 -5.2 23	82 13.4 51	110 7 28	112 14 27
EL 230122 95951372 EL 23 122		EL 160103 EL 170097	106 22	101 22	101 17	109 11	92 24		104 20		105 -0.13 23	101 0.03 16	93 -2 11	101 3.1 22	101 1.2 17	105 30 17	101 4.4 14	96 4 12	99 3.3 13	100 -6.6 20	91 -0.7 9	95 20.4 42	103 4 14	101 5 13
EL 230126 95951414 EL 23 126	3	EL 180152 EL 180118	102 24	104 23	99 16		105 25				99 0.15 26	109 -0.20 16		104 4.1 23	99 0.9 16		102 4.6 9	92 -5 7	98 2.9 13	112 -15.9 29	97 -2.1 6	106 26.2 39	104 4 14	100 5 12
EL 230130 95951430 EL 23 130		EL 180060 EL 170090	91 24	100 24	107 16	97 10	94 26		97 21		91 0.59 25	102 0.00 17	100 5 10	100 2.8 24	107 2.7 16	106 31 17	98 2.9 14	95 1 14	103 5.0 15	94 -1.6 23	102 -3.3 15	89 17.2 39	99 1 16	100 5 15
EL 230131 95951448 EL 23 131		DN 180199 EL 160044	107 34	91 31	111 25	109 11	98 29	101 20	99 27	100 24	106 -0.17 35	103 -0.02 27	92 -3 11	91 -0.5 31	111 3.5 25	106 30 22	91 -1.0 21	88 -15 24	113 8.8 28	103 -8.7 32	110 -5.2 12	84 14.7 44	97 0 29	97 3 27
EL 230138 96372008 EL 23 138		EL 180060 EL 170151	93 24	101 24	110 16	96 10	92 25		98 21		93 0.48 25	98 0.10 17	101 6 10	101 2.8 24	110 3.4 16	108 36 17	99 3.3 14	95 2 14	103 4.8 15	94 -1.1 23	99 -2.8 15	90 17.7 37	101 2 16	101 6 15
EL 230144 96292909 EL 23 144	1	EL 180152 EL 180151	97 27	102 27	107 18	108 7	103 27		112 23		95 0.38 29	107 -0.14 18	93 -1 7	102 3.4 27	107 2.5 18	111 41 17	100 3.8 12	87 -17 15	100 3.8 19	104 -9.9 30	107 -4.6 12	95 20.6 39	104 4 19	97 3 18
EL 230150 96292941 EL 23 150		EL 180058 EL 190051	103 25	99 25	99 19	117 5	105 25		115 21		101 0.06 26	104 -0.05 18	84 -10 5	99 2.4 25	99 0.8 19	106 32 16	100 3.8 12	95 1 15	107 6.4 19	106 -11.1 29	97 -2.1 8	110 28.4 38	104 4 19	97 3 18
EL 230152 96292966 EL 23 152	1	EL 180041 EL 200006	99 16	101 16	102 13	109 7	97 25				98 0.21 17	103 -0.04 12	92 -2 7	101 3.0 16	102 1.6 13	106 32 12	101 4.3 7	98 8 9	99 3.4 11	113 -17.4 27	94 -1.4 12	93 19.6 35	106 5 11	103 8 10

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ID Number Name																										
EL 230153 96292974 EL 23 153		DN 180199 EL 160040		108 34	88 31	103 29	111 19	100 30	99 22	94 29	96 26	105 -0.15 35	108 -0.16 30	90 4 19	88 -1.8 31	103 1.8 29	97 11 26	85 -3.8 22	87 -16 21	106 6.1 24	110 -14.7 33	103 -3.6 15	91 18.5 43	91 -3 24	89 -4 23	
EL 230161 96293055 EL 23 161	1	EL 180058 EL 190023		100 21	100 22	102 16	110 9	93 21				99 0.17 22	103 -0.03 16	91 -3 9	100 2.5 22	102 1.5 16	105 30 16	101 4.1 11	99 9 18	109 7.3 21	97 -3.9 18	95 -1.7 8	94 20.1 36	107 6 21	103 7 20	
EL 230163 96293063 EL 23 163		EL 110132 EL 130077		95 30	110 34	114 23	93 14	104 38	108 23	115 30	112 26	98 0.24 31	87 0.41 23	104 8 14	110 6.3 34	114 4.4 23	118 57 24	111 9.1 20	111 36 19	111 8.2 21	116 -19.7 44	99 -2.7 22	99 22.4 49	111 7 22	114 16 21	
EL 230165 96293071 EL 23 165		EL 180058 EL 190049		96 24	104 24	101 19	105 12	99 24		108 22		96 0.31 25	100 0.06 19	95 0 12	104 4.1 24	101 1.2 19	106 31 18	105 6.2 16	100 11 19	105 5.9 22	102 -7.5 21	99 -2.7 13	97 21.7 37	106 5 22	102 7 21	
EL 230175 96293139 EL 23 175		EL 110132 EL 130093		99 37	118 37	97 29	93 19	106 40	106 26	116 34	112 30	101 0.07 38	86 0.45 32	106 10 19	118 8.9 37	97 0.4 29	109 37 28	118 12.7 25	109 31 22	102 4.7 25	123 -25.2 46	101 -3.0 25	96 21.2 50	100 2 26	106 10 25	
EL 230179 96293170 EL 23 179	1	DN 180199 EL 150128		98 33	99 30	105 26	96 11	112 36	109 22	103 28	106 25	99 0.15 34	93 0.25 28	102 6 11	99 2.3 30	105 2.3 26	103 24 22	99 3.3 21	100 13 22	105 5.7 25	105 -10.7 42	122 -8.1 20	95 20.6 46	99 1 25	99 5 24	
EL 230184 96293220 EL 23 184	1	EL 180152 EL 180139		99 21	103 20	98 14		98 20				97 0.26 23	105 -0.10 13		103 3.6 20	98 0.4 14	105 29 12	100 3.6 9		94 1.5 9	101 -6.7 21		95 20.3 36	103 4 10	97 3 8	
EL 230190 96293253 EL 23 190		EL 180058 EL 190115		101 29	101 30	104 24	110 15	105 30	110 21	112 27	111 24	101 0.09 30	102 0.01 23	91 -3 15	101 3.0 30	104 1.9 24	108 37 23	101 4.3 20	101 14 20	100 3.9 23	103 -8.8 31	103 -3.7 18	104 25.1 40	103 4 24	100 5 23	
EL 230191 96293261 EL 23 191		DN 180199 EL 170014		99 29	92 25	106 23	102 12	96 28		93 24		97 0.25 30	106 -0.13 25	96 1 12	92 -0.1 25	106 2.3 23	100 18 20	90 -1.1 18	92 -5 19	103 5.0 22	104 -9.8 30	105 -4.1 13	84 14.6 41	95 -1 22	98 3 21	
EL 230193 96293287 EL 23 193		EL 180036 EL 180183		96 22	109 22	92 18	97 12	90 28		99 22		95 0.38 23	106 -0.11 18	101 6 12	109 5.9 22	92 -0.9 18	99 16 17	106 6.7 15	105 23 14	98 3.1 16	87 4.9 29	100 -2.9 14	90 17.5 40	108 6 16	106 9 15	
EL 230194 96293295 EL 23 194	3	EL 180085 EL 200043		99 21	109 22	98 12		110 22				98 0.20 22	101 0.03 14		109 5.7 22	98 0.6 12		107 7.4 8			103 -8.6 22	104 -3.9 5	112 29.5 39			
EL 230206 96293394 EL 23 206	2	EL 160103 EL 170012		104 25	105 25	97 19	107 6	97 26		107 22		102 0.00 26	106 -0.13 18	94 -1 6	105 4.3 25	97 0.3 19	104 26 17	103 5.3 11	97 5 10	100 3.7 14	103 -8.6 25	94 -1.4 10	99 22.5 43	98 1 15	99 4 13	

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ID Number Name																								
EL 230212 96302559 EL23212		EL 180085 EL 200070	93 22	108 23	95 17	99 12	107 25		109 21		92 0.53 23	105 -0.08 18	99 4 12	108 5.3 23	95 -0.2 17	102 22 17	105 6.1 16	102 16 13	97 2.6 15	104 -9.8 24	109 -5.1 14	101 23.5 37	104 4 15	104 8 14
EL 230214 96302575 EL23214		EL 110132 EL 130216	96 34	115 35	110 26	89 18	104 39	107 25	114 32	111 28	97 0.28 36	94 0.21 27	109 13 18	115 7.9 35	110 3.3 26	115 51 26	113 10.5 20	115 45 18	111 7.9 21	128 -29.2 44	97 -2.2 24	95 20.5 49	108 6 21	112 14 20
EL 230215 96302583 EL23215		EL 180120 EL 200051	94 24	103 21	105 6		101 21				95 0.37 25	96 0.16 16		103 3.5 21	105 2.1 6		102 4.6 8	92 -5 11	103 4.9 13	91 0.9 19	102 -3.5 7	103 24.8 36	102 3 14	101 6 13
EL 230224 96928809 EL 230224		EL 180060 EL 160232	93 24	101 24	110 16	96 10	96 25		100 21		93 0.48 25	98 0.10 17	101 6 10	101 2.8 24	110 3.4 16	108 36 17	99 3.3 14	95 2 14	103 4.8 15	94 -1.1 23	99 -2.8 15	96 21.3 38	101 2 16	101 6 15
EL 230232 96316294 EL 23 232		EL 180060 EL 170146	93 24	101 24	110 16	96 10	85 25		94 21		93 0.48 25	98 0.10 17	101 6 10	101 2.8 24	110 3.4 16	108 36 17	99 3.3 14	95 2 14	103 4.8 15	94 -1.1 23	99 -2.8 15	75 9.8 38	101 2 16	101 6 15
EL 230234 96316310 EL 23 234	1	DN 180199 EL 150109	101 32	93 30	104 25	100 12	109 36	104 22	97 28	100 25	100 0.12 33	100 0.05 27	98 3 12	93 0.0 30	104 1.9 25	98 13 22	92 -0.5 21	94 -1 21	100 3.9 24	100 -6.3 43	116 -6.7 20	99 22.6 46	100 2 24	97 3 23
EL 230244 96316401 EL 23 244		EL 110132 EL 170122	100 27	107 28	104 20	102 15	103 32	107 20	114 26	111 23	99 0.15 28	101 0.04 20	96 1 15	107 5.2 28	104 1.9 20	111 41 21	106 6.8 18	102 15 16	102 4.5 18	119 -22.2 35	99 -2.6 18	97 21.4 44	108 6 18	109 12 17
EL 230251 98918048 EL 23 251	1	EL 180058 EL 190058	101 28	94 28	112 21	109 13	99 29		103 25		100 0.12 29	101 0.02 21	92 -3 13	94 0.4 28	112 3.8 21	109 38 21	95 1.5 17	97 5 20	108 6.9 23	98 -4.2 31	102 -3.2 16	98 21.8 40	103 3 23	99 4 22
EL 240004 96356316 EL2404		EL 180036 EL 180107	100 28	106 29	95 23	102 15	97 34	96 22	105 27	100 24	99 0.18 29	105 -0.10 23	97 2 15	106 4.8 29	95 -0.3 23	101 21 22	104 5.9 20	103 18 17	98 3.2 19	93 -0.6 36	99 -2.7 20	99 22.7 45	102 3 19	99 5 19
EL 240011 96929138 EL2411	2	EL 180036 EL 170261	92 25	114 26	91 24	97 18	90 28	89 20	104 25	96 22	93 0.48 26	97 0.15 22	102 6 18	114 7.4 26	91 -1.0 24	102 23 23	113 10.0 16	108 28 14	111 8.0 17	90 2.1 29	101 -3.2 12	86 15.6 42	112 8 17	107 10 16
EL 240018 96849203 EL2418		EL 180036 EL 160049	103 17	102 18	98 16	97 11	95 26				103 -0.02 17	98 0.12 15	101 6 11	102 3.2 18	98 0.6 16	99 16 15	102 4.7 12	104 21 12	96 2.4 14	84 6.8 25	92 -1.1 13	109 27.9 40	108 6 14	103 7 14
EL 240024 96926522 EL2424		EL 180036 EL 180187	101 17	102 18	95 16	97 11	89 26				101 0.09 17	101 0.02 15	101 5 11	102 3.2 18	95 -0.1 16	96 10 15	101 4.2 12	104 20 12	97 2.6 14	85 6.3 25	95 -1.6 13	94 19.8 40	106 5 14	102 7 14

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ID Number Name																								
EL 240028 96992896 EL2428		EL 180036 EL 180202	101 17	102 18	95 16	97 11	91 26				101 0.09 17	101 0.02 15	101 5 11	102 3.2 18	95 -0.1 16	96 10 15	101 4.2 12	104 20 12	97 2.6 14	85 6.3 25	95 -1.6 13	98 22.0 40	106 5 14	102 7 14
EL 240029 96992904 EL2429		EL 180036 EL 160172	97 19	107 22	93 18	96 11	97 28		99 22		97 0.27 20	100 0.05 17	102 7 11	107 5.0 22	93 -0.6 18	98 14 17	105 6.2 12	107 27 14	101 4.2 15	90 1.7 29	100 -2.8 14	99 22.7 42	110 7 16	104 8 15
EL 240031 98090459 EL2431		EL 180036 EL 180184	101 25	106 25	106 21	89 14	89 30		94 24		101 0.05 26	94 0.22 21	109 13 14	106 4.9 25	106 2.4 21	105 30 20	106 6.7 17	110 34 16	105 5.6 18	81 9.2 30	98 -2.4 17	92 18.8 44	112 8 19	109 12 18
EL 240032 97139851 EL2432		EL 180036 EL 210140	101 17	101 18	94 16	98 11	91 25				100 0.14 17	103 -0.03 15	100 5 11	101 3.1 18	94 -0.4 16	95 8 15	101 4.0 12	104 20 12	97 2.7 14	85 6.0 25	96 -1.9 13	95 20.7 38	105 5 14	102 6 14
EL 240036 97492631 EL2436		EL 180036 EL 180145	101 17	102 18	95 16	97 11	90 26				101 0.09 17	101 0.02 15	101 5 11	102 3.2 18	95 -0.1 16	96 10 15	101 4.2 12	104 20 12	97 2.6 14	85 6.3 25	95 -1.6 13	96 21.1 40	106 5 14	102 7 14
EL 240041 98285687 EL 24 41		EL 180036 EL 180199	103 17	102 18	98 16	97 11	88 25				103 -0.02 17	98 0.12 15	101 6 11	102 3.2 18	98 0.6 16	99 16 15	102 4.7 12	104 21 12	96 2.4 14	84 6.8 25	92 -1.1 13	95 20.5 38	108 6 14	103 7 14
EL 240047 98290729 EL 24 47	1	EL 200034 EL 210043	97 19	102 19	97 16	105 10	98 20				96 0.34 20	104 -0.05 15	95 0 10	102 3.3 19	97 0.2 16	101 19 15	98 3.0 14	95 1 7	99 3.6 9	101 -7.5 19	95 -1.8 8	101 23.7 34	101 3 9	99 4 8
EL 240048 98290976 EL 24 48		DN 180199 EL 160044	107 34	91 31	111 25	109 11	98 29	101 20	99 27	100 24	106 -0.17 35	103 -0.02 27	92 -3 11	91 -0.5 31	111 3.5 25	106 30 22	91 -1.0 21	88 -15 24	113 8.8 28	103 -8.7 32	110 -5.2 12	84 14.7 44	97 0 29	97 3 27
EL 240049 98290737 EL 24 49	1	DN 180199 EL 150128	98 33	99 30	105 26	96 11	112 36	109 22	103 28	106 25	99 0.15 34	93 0.25 28	102 6 11	99 2.3 30	105 2.3 26	103 24 22	99 3.3 21	100 13 22	105 5.7 25	105 -10.7 42	122 -8.1 20	95 20.6 46	99 1 25	99 5 24
EL 240051 98290752 EL 24 51	1	EL 180152 EL 200105	102 20	98 19	104 13	111 7	99 20				100 0.13 21	106 -0.11 13	90 -4 7	98 1.9 19	104 2.0 13	106 32 13	97 2.2 10	89 -13 11	92 0.8 14	99 -5.3 19	99 -2.7 6	99 22.8 36	105 5 14	99 4 13
EL 240055 98396211 EL 24 55	1	EL 180058 EL 190023	100 21	100 22	102 16	110 9	93 21				99 0.17 22	103 -0.03 16	91 -3 9	100 2.5 22	102 1.5 16	105 30 16	101 4.1 11	99 9 18	109 7.3 21	97 -3.9 18	95 -1.7 8	94 20.1 36	107 6 21	103 7 20
EL 240056 98396229 EL 24 56		EL 180058 EL 190001	101 23	101 23	99 19	114 12	92 22		106 21		99 0.16 24	106 -0.12 19	88 -6 12	101 2.8 23	99 0.9 19	105 30 18	101 4.3 15	98 7 18	107 6.4 21	99 -5.1 20	93 -1.3 9	93 19.6 36	106 5 22	103 7 21

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ID Number Name																									
EL 240066 98290885 EL 24 66	1	EL 180152 EL 200148	107 21	99 20	101 14	114 6	101 20				105 -0.11 22	106 -0.12 14	87 -7 6	99 2.4 20	101 1.3 14	106 32 13	98 2.8 10	88 -14 11	92 0.8 14	100 -6.0 19	96 -1.9 5	107 27.2 37	104 4 14	98 3 13	
EL 240072 98290943 EL 24 72	1	EL 180152 EL 200112	106 20	96 20	101 13	113 6	101 20				104 -0.06 22	108 -0.18 13	88 -6 6	96 1.1 20	101 1.3 13	103 24 13	95 1.3 9	86 -20 11	89 -0.5 14	98 -4.7 19	95 -1.8 6	108 27.5 36	103 3 14	96 2 13	
EL 240073 98290950 EL 24 73		EL 200034 EL 210060	99 14	99 14	92 12	101 9	99 18				98 0.24 14	107 -0.14 12	97 2 9	99 2.4 14	92 -0.8 12	94 4 12	97 2.3 8	98 7 8	98 3.2 9	97 -4.1 16	96 -2.0 6	103 24.8 32	101 3 9	97 3 9	
EL 240074 98290968 EL 24 74	1	EL 180120 EL 210120	96 23	107 24	98 11		102 22				96 0.34 25	102 -0.01 12		107 5.0 24	98 0.6 11		105 6.1 9	97 4 11	107 6.4 14	90 2.0 23	108 -4.7 6	101 23.7 38	100 2 15	100 5 13	
EL 240076 98298995 EL 24 76	1	EL 180120 EL 210145	95 21	105 22	103 7		97 22				95 0.35 23	97 0.13 9		105 4.5 22	103 1.8 7		104 6.0 8	99 9 11	108 6.9 13	91 1.0 21	106 -4.3 7	92 19.0 37	106 5 14	104 8 13	
EL 240087 98299092 EL 24 87		EL 180036 EL 180288	103 22	106 22	97 19	99 13	94 29		102 22		102 0.04 22	103 -0.04 19	99 4 13	106 4.7 22	97 0.3 19	102 23 18	105 6.1 15	105 23 15	101 4.2 17	86 5.3 29	97 -2.1 16	100 23.2 41	107 6 18	104 8 17	
EL 240092 98299142 EL 24 92	4	EL 180120 EL 210029	96 19	107 22							96 0.31 23			107 5.1 22			106 6.6 8		115 9.6 12	92 0.5 19		97 21.7 37	106 5 13	105 8 11	
EL 240095 98299563 EL 24 95		EL 180058 EL 190114	102 20	93 20	104 16	112 11	94 20				101 0.10 21	104 -0.06 16	90 -4 11	93 0.2 20	104 1.9 16	102 23 16	95 1.1 13	96 3 17	99 3.6 19	98 -4.3 15	93 -1.2 9	98 22.3 35	105 4 19	100 5 19	
EL 240098 98299589 EL 24 98	1	EL 180036 EL 180068	97 20	106 21	100 18	96 11	94 28		100 21		97 0.29 21	99 0.09 18	102 7 11	106 4.7 21	100 1.1 18	103 26 17	106 6.5 14	107 27 14	105 5.6 15	87 4.3 28	102 -3.3 14	95 20.3 42	110 7 16	105 9 15	
EL 240099 98299597 EL 24 99	8	EL 200065 EL 200011	88 15	107 17			96 22				89 0.64 18			107 5.2 17						96 -2.6 27		106 26.7 36			
EL 240100 98299605 EL 24 100	1	EL 180152 EL 200064	97 26	101 25	105 18	103 9	104 25		107 22		95 0.35 28	106 -0.12 18	96 1 9	101 3.0 25	105 2.2 18	107 33 17	98 3.0 16	92 -5 14	95 2.0 17	99 -5.3 25	105 -4.1 10	102 24.0 39	103 4 17	100 5 16	
EL 240101 98299613 EL 24 101		EL 180058 EL 190115	101 29	101 30	104 24	110 15	105 30	110 21	112 27	111 24	101 0.09 30	102 0.01 23	91 -3 15	101 3.0 30	104 1.9 24	108 37 23	101 4.3 20	101 14 20	100 3.9 23	103 -8.8 31	103 -3.7 18	104 25.1 40	103 4 24	100 5 23	

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ID Number Name																								
EL 240109 98314057 EL 24 109		EL 180058 EL 210267	102 20	92 20	102 16	114 10	96 19				100 0.11 21	108 -0.18 16	87 -7 10	92 -0.1 20	102 1.4 16	101 20 15	93 0.4 12	94 -1 17	102 4.4 19	98 -4.6 16	95 -1.8 8	98 22.1 34	102 3 20	98 3 19
EL 240112 98314081 EL 24 112		EL 180036 EL 210121	101 17	101 18	94 16	98 11	90 25				100 0.14 17	103 -0.03 15	100 5 11	101 3.1 18	94 -0.4 16	95 8 15	101 4.0 12	104 20 12	97 2.7 14	85 6.0 25	96 -1.9 13	95 20.5 38	105 5 14	102 6 14
EL 240118 98318702 EL 24 118		DN 180199 EL 170080	104 33	93 30	102 25	111 14	103 30	103 21	100 27	101 24	103 -0.02 34	104 -0.06 26	91 -3 14	93 0.0 30	102 1.4 25	99 16 23	90 -1.5 22	93 -4 19	101 4.0 22	108 -12.9 32	111 -5.5 15	89 17.1 42	92 -2 22	93 0 22
EL 240121 98318736 EL 24 121	2	EL 180058 EL 190050	104 23	98 22	108 18	109 9	103 26		108 20		102 0.00 24	102 -0.01 17	92 -2 9	98 1.8 22	108 2.8 18	108 36 16	100 3.6 10	100 12 17	107 6.6 20	100 -6.1 28	103 -3.6 12	103 24.7 37	108 6 20	102 6 19
EL 240122 98318744 EL 24 122		DN 180199 EL 170012	103 31	92 28	106 25	102 13	100 31	97 21	94 26	95 24	102 0.05 32	106 -0.10 27	96 1 13	92 -0.4 28	106 2.5 25	100 18 22	90 -1.3 20	92 -7 21	100 3.7 23	104 -9.6 34	104 -3.9 16	92 18.8 42	91 -2 24	95 1 23
EL 240125 98318777 EL 24 125		EL 180036 EL 180075	107 23	100 24	94 18	100 12	88 28		92 22		105 -0.13 24	105 -0.09 18	98 3 12	100 2.7 24	94 -0.5 18	95 8 18	101 4.4 15	101 14 15	98 3.0 17	86 5.6 28	94 -1.5 15	92 18.6 41	105 4 17	99 4 16
EL 240126 98318785 EL 24 126		EL 180036 EL 180257	100 20	101 20	93 18	103 12	92 27		96 21		99 0.18 20	101 0.01 18	96 1 12	101 3.1 20	93 -0.7 18	96 9 17	101 4.1 13	102 16 13	95 1.8 15	89 3.1 26	96 -2.0 14	95 20.6 41	100 2 15	97 3 15
EL 240127 98318793 EL 24 127		EL 180036 EL 180066	104 20	100 21	94 17	103 11	92 28		95 21		102 0.02 21	106 -0.11 17	96 1 11	100 2.6 21	94 -0.3 17	96 10 16	99 3.2 13	100 12 14	101 4.1 16	85 6.1 28	97 -2.3 15	96 20.8 41	102 3 16	99 4 15
EL 240131 98318819 EL 24 131		EL 180120 EL 210259	96 20	101 21	101 6		96 20				95 0.38 22	103 -0.03 8		101 2.9 21	101 1.2 6		99 3.3 8	92 -6 11	103 5.1 13	92 0.4 19	105 -4.0 7	92 18.7 33	100 2 14	100 5 13
EL 240134 98396245 EL 24 134	1	DN 180199 EL 150109	101 32	93 30	104 25	100 12	109 36	104 22	97 28	100 25	100 0.12 33	100 0.05 27	98 3 12	93 0.0 30	104 1.9 25	98 13 22	92 -0.5 21	94 -1 21	100 3.9 24	100 -6.3 43	116 -6.7 20	99 22.6 46	100 2 24	97 3 23
EL 240138 98341886 EL 24 138	2	EL 180036 EL 180139	97 18	109 19	93 15		92 24				97 0.27 19	98 0.12 14		109 5.6 19	93 -0.7 15	100 17 12	106 7.0 7			87 4.2 26	99 -2.7 5	92 19.0 40		
EL 240146 98341969 EL 24 146		DN 180199 EL 150082	96 35	95 35	105 29	99 16	105 36	101 24	98 32	99 28	96 0.31 36	97 0.13 29	99 4 16	95 0.9 35	105 2.2 29	100 19 27	94 0.9 22	96 3 23	101 4.2 25	110 -14.3 42	108 -4.9 21	94 19.9 46	96 0 26	95 1 25

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ID Number Name																								
EL 240149 98341993 EL 24 149	1	EL 180036 EL 180078	104 19	102 20	88 18	104 11	93 25		96 20		102 0.00 19	103 -0.02 17	96 1 11	102 3.2 20	88 -1.8 18	92 2 16	101 4.0 10	102 15 11	96 2.1 13	88 3.9 26	96 -1.9 10	99 22.6 40	100 2 13	97 3 13
EL 240150 98342009 EL 24 150	1	EL 180120 EL 210243	100 21	106 22	100 5		98 19				99 0.16 24	101 0.02 7		106 4.7 22	100 1.1 5		104 5.8 8	95 0 6	110 7.5 11	94 -1.6 18		94 19.7 36	100 2 12	99 4 10
EL 240153 98342033 EL 24 153	5	EL 180058 EL 190082	97 27	97 28	113 19		104 26		110 22		96 0.30 29	102 -0.02 17		97 1.5 28	113 4.0 19	113 46 16	99 3.3 12	95 0 18	110 7.4 22	101 -6.8 29	105 -4.1 10	101 23.9 39	108 6 23	98 4 21
EL 240154 98342041 EL 24 154		EL 180060 EL 180031	93 24	101 24	110 16	96 10	89 25		96 21		93 0.48 25	98 0.10 17	101 6 10	101 2.8 24	110 3.4 16	108 36 17	99 3.3 14	95 2 14	103 4.8 15	94 -1.1 23	99 -2.8 15	83 14.1 36	101 2 16	101 6 15
EL 240156 98342066 EL 24 156		EL 160238	103 17	93 17	94 10	109 8	83 16				99 0.15 18	114 -0.34 10	93 -2 8	93 0.1 17	94 -0.3 10	92 1 12	93 0.1 11	90 -10 9	93 1.2 11	99 -5.2 14	95 -1.7 9	75 9.7 26	98 1 11	96 2 10
EL 240162 98342124 EL 24 162	1	EL 200065 EL 210134	89 25	104 24	103 20	94 10	112 28		105 22		91 0.55 26	91 0.31 21	104 9 10	104 3.9 24	103 1.6 20	102 24 18	103 5.2 16	101 14 15	103 4.9 17	104 -9.5 32	115 -6.5 15	103 24.9 38	102 3 17	103 7 17
EL 240163 98342132 EL 24 163		EL 180035 EL 120085	86 31	114 31	109 20	95 16	101 32	105 21	116 27	111 24	87 0.77 33	99 0.09 21	103 7 16	114 7.7 31	109 3.0 20	117 56 22	112 9.7 23	97 4 20	103 4.9 22	113 -16.8 33	97 -2.2 19	97 21.6 43	114 9 23	112 14 22
EL 240167 98342173 EL 24 167		DN 180199 EL 160040	108 34	88 31	103 29	111 19	100 30	99 22	94 29	96 26	105 -0.15 35	108 -0.16 30	90 -4 19	88 -1.8 31	103 1.8 29	97 11 26	85 -3.8 22	87 -16 21	106 6.1 24	110 -14.7 33	103 -3.6 15	91 18.5 43	91 -3 24	89 -4 23
EL 240168 98342181 EL 24 168		EL 180058 EL 190102	101 24	101 24	104 20	112 14	96 24		110 22		101 0.09 25	100 0.05 19	90 -5 14	101 3.1 24	104 1.9 20	109 39 19	103 5.2 17	99 9 19	105 5.7 22	98 -4.5 22	98 -2.4 12	95 20.7 39	109 7 22	103 8 21
EL 240169 98342199 EL 24 169		DN 180199 EL 170213	103 28	88 24	107 22	106 10	96 27		90 23		102 0.02 29	104 -0.05 24	94 0 10	88 -1.7 24	107 2.7 22	99 15 19	87 -2.7 18	91 -9 19	99 3.6 21	102 -8.1 29	104 -3.7 12	86 15.6 41	94 -1 21	96 2 21
EL 240170 98918030 EL 24 170	1	EL 180058 EL 190058	101 28	94 28	112 21	109 13	99 29		103 25		100 0.12 29	101 0.02 21	92 -3 13	94 0.4 28	112 3.8 21	109 38 21	95 1.5 17	97 5 20	108 6.9 23	98 -4.2 31	102 -3.2 16	98 21.8 40	103 3 23	99 4 22
EL 240172 98342215 EL 24 172		DN 180199 EL 150093	104 31	88 27	109 25	108 13	102 33	102 21	95 26	98 24	103 0.00 32	103 -0.03 26	93 -2 13	88 -1.7 27	109 3.1 25	101 20 22	88 -2.1 19	88 -14 21	105 5.7 23	107 -12.1 39	107 -4.6 16	92 18.9 43	93 -1 24	93 0 23

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ID Number Name																								
EL 240176 98342256 EL 24 176	3	EL 180058 EL 190106	102 23	103 21	102 15		103 24				102 0.04 25	100 0.05 14		103 3.8 21	102 1.4 15		105 6.1 8		102 4.4 13	102 -7.8 28	104 -3.8 6	100 23.2 38	103 4 15	99 4 12
EL 240178 98320187 EL 240178	1	EL 200065 EL 210104	88 26	102 25	103 21	95 11	109 28		102 23		90 0.62 27	93 0.25 21	103 8 11	102 3.2 25	103 1.6 21	101 22 19	101 4.0 16	99 9 15	101 4.2 17	106 -11.1 32	109 -5.1 13	103 24.6 38	101 2 18	101 5 17
EL 240181 98368988 EL 24 181		EL 180036 EL 180055	104 20	101 20	92 18	107 11	95 28		99 21		102 0.02 21	106 -0.12 17	94 0 11	101 3.1 20	92 -1.0 18	96 9 16	100 3.6 12	102 15 12	97 2.6 14	92 0.7 28	99 -2.6 14	96 21.1 41	99 2 14	98 3 14
EL 240183 98369002 EL 24 183		EL 200034 EL 210015	101 10	94 10	96 9	107 8	95 14				98 0.22 10	110 -0.24 9	94 -1 8	94 0.5 10	96 0.0 9	93 4 9	92 -0.5 6	91 -7 5	95 2.0 6	102 -7.5 9	94 -1.4 5	97 21.6 29	98 1 6	97 2 6
EL 240184 98369010 EL 24 184		EL 180036 EL 180159	101 17	102 18	95 16	97 11	85 26				101 0.09 17	101 0.02 15	101 5 11	102 3.2 18	95 -0.1 16	96 10 15	101 4.2 12	104 20 12	97 2.6 14	85 6.3 25	95 -1.6 13	86 15.6 41	106 5 14	102 7 14
EL 240187 98369044 EL 24 187	1	EL 200034 EL 200143	104 16	97 16	97 13	111 8	97 17				102 0.04 17	109 -0.21 13	91 -4 8	97 1.5 16	97 0.3 13	99 15 12	96 1.6 9	94 -2 10	104 5.3 12	102 -8.2 13		101 23.6 34	101 3 12	96 2 11
EL 240192 98369085 EL 24 192		EL 180152 EL 200050	104 21	96 20	102 16	111 10	99 23				103 -0.01 22	104 -0.05 16	90 -4 10	96 1.1 20	102 1.4 16	102 23 15	96 1.6 14	89 -14 13	89 -0.6 15	89 2.8 22	96 -2.0 9	109 27.8 38	104 4 15	97 3 14
EL 240193 98369093 EL 24 193	1	EL 180058 EL 190074	100 31	103 31	109 25	110 15	100 29	107 21	113 27	111 24	102 0.02 32	91 0.32 24	91 -3 15	103 3.6 31	109 3.0 25	114 49 24	104 5.9 20	100 13 19	105 5.8 22	99 -5.7 31	99 -2.7 16	100 23.4 40	103 3 22	99 4 21
EL 240195 98369119 EL 24 195		EL 180036 EL 180178	100 18	104 20	94 17	99 11	89 27		96 20		99 0.18 19	102 0.00 16	99 4 11	104 4.2 20	94 -0.4 17	98 14 16	104 5.6 12	104 21 14	101 4.1 15	88 3.8 26	99 -2.6 13	88 16.7 41	108 6 15	103 7 15
EL 240196 98369127 EL 24 196		EL 180036 EL 180089	97 31	112 31	93 24	97 14	93 33	92 22	105 28	99 25	96 0.34 32	106 -0.12 24	101 6 14	112 7.0 31	93 -0.6 24	103 25 23	110 8.8 19	105 23 16	102 4.6 19	89 3.2 37	98 -2.5 18	95 20.4 45	107 6 19	105 8 18
EL 240199 98369150 EL 24 199		EL 180058 EL 190123	100 28	100 28	103 22	112 15	105 29	109 20	111 26	110 23	99 0.16 29	103 -0.03 23	90 -4 15	100 2.6 28	103 1.7 22	107 34 22	101 4.3 20	102 15 20	101 4.1 23	100 -6.2 30	101 -3.2 18	107 27.0 40	108 6 24	102 7 23
EL 240200 98369168 EL 24 200		EL 200065 EL 210079	90 26	113 26	99 21	92 12	107 29		110 24		92 0.50 27	87 0.42 22	106 11 12	113 7.2 26	99 0.7 21	105 30 20	112 9.9 17	105 23 15	102 4.4 17	111 -15.2 33	103 -3.6 15	103 25.0 39	103 3 18	106 10 17

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ID Number Name																								
EL 240206 98369226 EL 24 206	1	EL 180152 EL 200043	107 21	99 20	101 14	114 6	103 20				105 -0.11 22	106 -0.12 14	87 -7 6	99 2.4 20	101 1.3 14	106 32 13	98 2.8 10	88 -14 11	92 0.8 14	100 -6.0 19	96 -1.9 5	110 28.6 37	104 4 14	98 3 13
EL 240207 98369234 EL 24 207		EL 200065 EL 200119	89 19	102 19	97 16	98 10	96 22				89 0.65 20	98 0.11 16	100 4 10	102 3.5 19	97 0.2 16	99 15 15	101 4.1 12	98 7 11	99 3.2 13	97 -3.8 20	101 -3.1 11	93 19.6 34	102 3 13	103 7 12
EL 240211 98369275 EL 24 211	1	EL 200065 EL 210096	85 25	115 26	97 21	95 13	112 29		117 24		87 0.77 26	92 0.27 20	103 8 13	115 7.9 26	97 0.4 21	108 35 20	112 9.8 16	103 19 15	106 6.0 18	110 -14.6 33	115 -6.3 14	100 23.2 39	111 8 18	108 11 17
EL 240214 98369309 EL 24 214	3	EL 180152 EL 200003	102 21	104 19	100 12		102 21				101 0.08 23	105 -0.08 11		104 4.1 19	100 1.1 12		102 4.9 8	90 -11 5	94 1.5 12	98 -4.9 22		102 24.2 38	107 5 13	101 6 11
EL 240215 98369317 EL 24 215		DN 180199 EL 150185	99 36	99 33	100 28	102 15	99 34	97 23	100 30	98 26	100 0.11 37	91 0.31 30	96 1 15	99 2.3 33	100 0.9 28	100 19 25	100 3.5 22	95 0 22	103 4.9 25	105 -10.3 39	103 -3.7 19	92 18.8 45	95 0 26	97 3 25
EL 240220 98369341 EL 24 220		EL 200065 EL 170212	90 19	101 19	100 16	96 11	98 23				90 0.60 20	98 0.12 16	102 6 11	101 3.1 19	100 0.9 16	99 17 15	100 3.8 13	97 6 11	96 2.4 13	96 -2.9 20	99 -2.6 12	99 22.7 38	103 4 13	104 8 12
EL 240221 98369358 EL 24 221		EL 200034 EL 210085	100 14	101 13	94 11	104 7	99 16				98 0.23 14	110 -0.23 11	96 1 7	101 3.1 13	94 -0.5 11	97 12 10	98 2.7 8	93 -3 7	103 4.7 9	103 -8.9 12	98 -2.5 5	97 21.7 32	99 1 9	99 4 9
EL 240223 98369374 EL 24 223	3	EL 180035 EL 120218	106 30	111 31	98 25	97 11	101 31	102 21	111 27	107 24	105 -0.13 32	102 0.01 23	101 6 11	111 6.6 31	98 0.5 25	106 32 22	109 8.4 13	108 30 14	104 5.2 18	110 -15.0 35	96 -1.9 14	101 23.8 43	105 4 19	105 9 17
EL 240224 98369382 EL 24 224		EL 180008	90 14	99 14	94 9	100 7	80 16				89 0.67 15	107 -0.14 9	98 3 7	99 2.1 14	94 -0.3 9	94 6 10	96 1.6 11	90 -9 9	90 -0.1 10	99 -5.8 15	94 -1.6 9	69 6.6 25	98 1 10	98 3 10
EL 240225 98369390 EL 24 225		EL 180060 EL 200101	90 27	109 27	107 20	97 13	95 28		109 24		91 0.58 29	98 0.11 20	100 5 13	109 5.7 27	107 2.7 20	113 46 20	106 6.9 17	98 7 16	109 7.1 18	95 -1.9 28	107 -4.5 15	86 15.9 40	103 4 19	104 8 18
EL 250007 98565815 EL 250007		EL 200034 EL 210260	98 15	101 15	98 13	105 11	100 18				97 0.28 16	106 -0.12 13	95 0 11	101 3.0 15	98 0.4 13	101 20 13	99 3.4 9	97 6 9	105 5.8 10	102 -7.9 16	97 -2.2 6	101 23.7 33	106 5 10	101 6 10
EL 250008 98565823 EL 250008	9	EL 180060 EL 180049	86 23	110 25			92 25				86 0.82 27			110 6.2 25						95 -2.4 30	106 -4.3 6	81 12.9 39		

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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
EL 250009 98565831 EL 250009	1	EL 180060 EL 180131	90 27	106 27	103 20	99 13	93 27		104 24		89 0.66 29	103 -0.02 20	98 3 13	106 4.8 27	103 1.7 20	108 36 20	103 5.3 16	95 1 16	108 6.7 19	95 -1.7 27	104 -3.9 15	84 14.7 39	99 2 19	102 6 18	
EL 250010 98565849 EL 250010		EL 180060 EL 160049	93 24	101 24	110 16	96 10	98 25		101 21		93 0.48 25	98 0.10 17	101 6 10	101 2.8 24	110 3.4 16	108 36 17	99 3.3 14	95 2 14	103 4.8 15	94 -1.1 23	99 -2.8 15	100 23.3 38	101 2 16	101 6 15	
EL 250011 98565856 EL 250011		EL 180060 EL 160222	93 24	101 24	110 16	96 10	94 25		98 21		93 0.48 25	98 0.10 17	101 6 10	101 2.8 24	110 3.4 16	108 36 17	99 3.3 14	95 2 14	103 4.8 15	94 -1.1 23	99 -2.8 15	92 18.8 38	101 2 16	101 6 15	
EL 250012 98565864 EL 250012		EL 180060 EL 180097	93 25	100 25	105 17	99 10	92 25		97 22		92 0.53 27	106 -0.10 17	99 3 10	100 2.5 25	105 2.1 17	104 27 17	98 2.7 15	94 -2 15	104 5.3 16	95 -2.3 24	103 -3.5 14	85 15.1 38	97 1 16	98 4 16	
EL 250016 98916885 EL 25 16		EL 180035 EL 200087	93 23	99 22	101 18	100 11	99 23		98 20		91 0.55 24	109 -0.20 18	98 3 11	99 2.1 22	101 1.3 18	100 18 17	99 3.1 12	96 4 12	96 2.3 13	109 -13.8 23	93 -1.2 10	101 23.7 36	98 1 14	99 4 13	
EL 250019 99828733 EL2419		EL 180035 EL 200051	91 37	107 14	106 11	98 8	105 21				91 0.55 41	98 0.11 18	99 4 8	107 5.0 14	106 2.4 11	110 41 11	106 6.5 10	101 14 8	98 3.1 9	108 -12.6 18	91 -0.9 9	114 30.6 35	107 6 9	107 10 9	
EL 250025 6020028186 EL 25 25		EL 180085 EL 210045	96 21	105 22	97 17	100 11	105 24		107 20		95 0.39 22	104 -0.05 18	98 3 11	105 4.4 22	97 0.4 17	102 23 17	103 5.3 16	100 13 13	95 1.7 14	101 -7.3 23	106 -4.2 14	103 24.6 36	103 4 15	104 8 14	
EL 250026 6020028194 EL 25 26	6	EL 180085 EL 210268	96 13	109 15			108 20				95 0.36 16			109 5.9 15						103 -8.8 21		108 27.4 36			
EL 250027 6020028202 EL 25 27	1	DN 180199 EL 160210	105 29	88 25	106 23	104 8	92 28		88 23		103 -0.04 30	104 -0.05 25	95 0 8	88 -1.5 25	106 2.5 23	98 13 19	87 -2.8 18	91 -8 20	106 6.1 22	102 -8.3 30	100 -3.0 10	83 13.8 43	93 -2 23	95 1 22	
EL 250028 6020028210 EL 25 28	1	EL 180058 EL 190023	100 21	100 22	102 16	110 9	93 21				99 0.17 22	103 -0.03 16	91 -3 9	100 2.5 22	102 1.5 16	105 30 16	101 4.1 11	99 9 18	109 7.3 21	97 -3.9 18	95 -1.7 8	94 20.1 36	107 6 21	103 7 20	
EL 250029 6020028228 EL 25 29		DN 180199 EL 180145	103 28	88 24	107 22	106 10	97 27		91 23		102 0.02 29	104 -0.05 24	94 0 10	88 -1.7 24	107 2.7 22	99 15 19	87 -2.7 18	91 -9 19	99 3.6 21	102 -8.1 29	104 -3.7 12	89 17.0 40	94 -1 21	96 2 21	
EL 250030 6020028236 EL 25 30	1	EL 200024 EL 220030	96 20	109 21	96 16	106 7	113 24				97 0.27 21	93 0.25 17	95 0 7	109 5.9 21	96 0.1 16	106 32 15	109 8.5 11	103 18 9	96 2.3 11	116 -19.8 29	101 -3.0 9	115 31.1 35	99 2 12	101 6 11	

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ID Number Name																									
EL 250032 6020028244 EL 25 32		DN 180199 EL 180073	101 29	90 26	104 23	103 10	102 30		93 24		100 0.12 30	104 -0.05 25	96 1 10	90 -0.9 26	104 2.0 23	97 11 20		89 -1.8 18	92 -5 19	100 3.8 22	101 -7.5 34	111 -5.5 14	91 18.2 41	96 0 22	96 2 21
EL 250037 6020028293 EL 25 37		EL 180036 EL 150185	97 28	113 28	88 23	96 14	93 33	89 21	102 26	95 24	99 0.18 29	88 0.38 23	102 7 14	113 7.1 28	88 -1.9 23	98 14 22		113 10.4 18	108 28 18	100 3.9 20	87 4.2 35	94 -1.5 19	100 23.0 44	107 6 21	104 8 20
EL 250040 6020028327 EL 25 40		EL 200065 EL 210052	91 17	106 18	96 13		99 21				92 0.53 18	95 0.19 13		106 4.6 18	96 0.0 13	99 16 11		104 6.0 6		100 3.7 8	90 2.4 21	101 -3.1 7	103 24.8 36	105 5 8	104 8 7
EL 250042 6020028343 EL 25 42		DN 180199 EL 180201	104 31	86 28	107 24	111 12	95 30	94 20	90 26	91 23	101 0.05 32	108 -0.16 26	91 -4 12	86 -2.4 28	107 2.7 24	98 14 21		84 -4.1 20	84 -23 21	97 2.5 23	103 -8.5 33	105 -4.2 15	82 13.5 42	94 -1 24	93 0 23
EL 250043 6020028350 EL 25 43	2	EL 180058 EL 180178	100 21	96 21	102 16	113 8	94 19				99 0.18 22	105 -0.08 15	88 -6 8	96 1.2 21	102 1.5 16	104 27 15		98 2.6 10	96 3 16	103 5.0 19	101 -6.8 15	97 -2.2 5	91 18.2 36	107 5 20	100 5 19
EL 250044 6020028368 EL 25 44	1	EL 180035 EL 200003	97 19	112 19	102 15	99 10	106 23				97 0.29 20	99 0.07 15	99 4 10	112 6.7 19	102 1.4 15	111 43 15		110 8.6 11	104 20 9	104 5.4 12	109 -13.4 22	99 -2.7 8	107 26.8 38	110 7 12	110 12 11
EL 250045 6020028376 EL 25 45		EL 200065 EL 150128	85 25	112 26	97 20	90 12	112 32		108 25		88 0.73 26	87 0.41 21	109 13 12	112 7.0 26	97 0.4 20	103 25 19		112 9.7 18	107 27 16	102 4.6 18	99 -5.5 34	117 -6.9 20	103 24.9 42	108 6 19	107 10 18
EL 250046 6020028384 EL 25 46	1	EL 200065 EL 210061	92 24	98 23	104 19	98 9	108 27		101 21		93 0.47 25	96 0.18 20	100 5 9	98 1.9 23	104 2.0 19	102 22 17		98 2.5 14	95 0 14	103 4.9 16	105 -10.3 32	109 -5.0 12	102 24.1 37	99 2 17	100 5 16
EL 250049 6020118029 EL 25 49	2	EL 200024 EL 220182	98 16	109 16	94 8		108 17				98 0.23 17	98 0.12 10		109 5.7 16	94 -0.4 8			108 7.7 6			102 -8.3 16		115 31.3 33		
EL 250050 6020118037 EL 25 50		EL 150160	103 17	93 17	94 10	109 8	82 17				99 0.15 18	114 -0.34 10	93 -2 8	93 0.1 17	94 -0.3 10	92 1 12		93 0.1 11	90 -10 9	93 1.2 11	99 -5.2 14	95 -1.7 9	72 8.1 28	98 1 11	96 2 10
EL 250058 6020118094 EL 25 58		EL 200065 EL 210120	90 23	107 23	97 19	96 12	102 25		104 21		91 0.56 24	97 0.14 19	102 7 12	107 5.2 23	97 0.4 19	102 22 18		106 6.6 16	102 16 13	100 3.7 15	94 -1.2 25	102 -3.3 14	105 25.9 37	103 4 16	103 7 15
EL 250059 6020118102 EL 25 59		EL 180120 EL 210121	95 20	101 21	99 6		97 20				94 0.43 22	105 -0.08 8		101 2.9 21	99 0.8 6			99 3.1 8	92 -6 11	104 5.2 13	92 0.1 19	106 -4.3 7	91 18.6 34	99 2 14	100 5 13

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ID Number Name																								
EL 250076 6020118490 EL 25 76	1	EL 200024 EL 220093	93 21	113 22	102 14		114 25				95 0.36 22	89 0.36 16		113 7.3 22	102 1.5 14	111 42 13	113 10.3 12	108 29 10	105 5.6 12	113 -17.1 30	103 -3.6 10	115 31.5 36	108 6 13	109 12 12
EL 250078 6020118516 EL 25 78	1	EL 200065 EL 210127	89 28	113 28	97 23	95 12	103 28		110 25		91 0.56 29	92 0.29 22	103 8 12	113 7.2 28	97 0.3 23	106 31 21	110 8.9 18	105 22 11	103 5.0 14	101 -7.0 32	102 -3.3 12	102 24.4 39	105 4 15	105 8 14
EL 250079 6020336886 EL 25 79		EL 200045 EL 220035	102 9	95 8	102 6		106 17				101 0.07 9	103 -0.02 7		95 0.9 8	102 1.5 6	99 16 6	95 1.1 5		93 1.1 5	104 -9.9 14	95 -1.7 8	113 30.4 28	100 2 5	
EL 250080 6020336894 EL 25 80	2	EL 200024 EL 220087	95 21	113 21	96 13		117 24				97 0.28 22	92 0.27 14		113 7.4 21	96 0.1 13		112 10.0 9		102 4.7 5	118 -21.1 30	104 -3.8 8	117 32.3 35	105 4 6	
EL 250084 6020336910 EL 25 84	1	EL 180058 EL 180074	100 23	99 22	106 17	108 10	98 22		106 20		99 0.16 24	102 -0.01 17	93 -2 10	99 2.2 22	106 2.4 17	107 34 16	100 3.9 12	103 18 17	107 6.5 20	105 -10.5 20	97 -2.1 8	98 21.9 37	108 6 20	105 8 19
EL 250087 6020336936 EL 25 87	1	EL 180120 EL 220131	99 22	104 23	102 9		101 20				99 0.18 24	100 0.05 10		104 4.2 23	102 1.4 9		103 5.3 9	94 -3 12	107 6.4 14	94 -1.0 19		102 24.3 36	101 3 15	100 5 14
EL 250091 6020336977 EL 25 91	1	EL 180036 EL 170012	101 22	105 22	94 19	96 12	93 29		96 22		100 0.12 22	103 -0.04 19	102 7 12	105 4.4 22	94 -0.3 19	97 13 18	104 5.6 14	105 22 14	97 2.8 16	87 4.8 30	95 -1.8 16	100 22.9 42	103 4 17	101 6 16
EL 250092 6020336985 EL 25 92	1	EL 180058 EL 180118	101 26	101 25	103 20	108 8	102 26		110 22		99 0.16 27	104 -0.06 19	93 -2 8	101 3.1 25	103 1.7 20	107 33 18	102 4.9 11	101 15 17	109 7.1 21	111 -15.5 28	93 -1.1 10	106 26.5 39	106 5 21	102 6 20
EL 250093 6020336993 EL 25 93	1	EL 200065 EL 210158	93 23	98 22	105 19	96 10	102 24		97 21		94 0.43 24	94 0.22 20	101 6 10	98 2.0 22	105 2.2 19	102 22 17	97 2.5 15	96 3 14	100 3.8 16	98 -4.7 24	103 -3.6 12	101 23.8 37	101 2 16	102 6 16
EL 250095 6020337017 EL 25 95	2	EL 180120 EL 220207	91 22	111 23	102 8		113 24				93 0.49 25	94 0.21 10		111 6.5 23	102 1.5 8		109 8.3 8	101 14 10	115 9.3 14	100 -6.6 30		104 25.4 37	111 8 14	106 10 13
EL 250096 6020337025 EL 25 96		EL 200065 EL 210029	90 22	107 22	102 16	94 7	102 23				92 0.53 23	93 0.25 16	104 8 7	107 5.2 22	102 1.5 16	105 30 15	107 7.1 12	103 18 13	108 6.9 16	96 -2.8 22	104 -3.9 9	101 23.8 38	109 7 16	108 11 15
EL 250097 6020337033 EL 25 97	2	EL 200024 EL 220116	94 24	115 23	90 16		112 25		121 20		94 0.41 25	100 0.06 17		115 8.0 23	90 -1.3 16	105 29 14	112 9.6 14	97 6 11	102 4.4 14	108 -13.1 31	104 -3.9 9	112 29.8 36	105 5 15	103 7 14

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																								
EL 250103 6020337082 EL 25 103		EL 220070	95 10	98 11	94 8	106 5	88 13				93 0.49 11	113 -0.30 8	95 0 5	98 1.8 11	94 -0.5 8	94 6 8	95 1.3 6	92 -5 6	96 2.3 7	104 -9.3 12	98 -2.5 7	76 10.5 19	98 1 7	99 4 7
EL 250106 6020337116 EL 25 106		EL 180036 EL 160011	103 17	102 18	98 16	97 11	90 26				103 -0.02 17	98 0.12 15	101 6 11	102 3.2 18	98 0.6 16	99 16 15	102 4.7 12	104 21 12	96 2.4 14	84 6.8 25	92 -1.1 13	98 22.2 41	108 6 14	103 7 14
EL 250107 6020337124 EL 25 107		EL 200045 EL 220039	99 9	100 8	101 5		106 15				98 0.20 9	101 0.01 7		100 2.7 8	101 1.2 5	100 19 5		96 4 5	97 2.5 6	98 -4.5 9	98 -2.3 5	115 31.3 31	104 4 6	103 7 6
EL 250110 6020337157 EL 25 110	5	EL 180058 EL 190082	97 27	97 28	113 19		104 26		110 22		96 0.30 29	102 -0.02 17		97 1.5 28	113 4.0 19	113 46 16	99 3.3 12	95 0 18	110 7.4 22	101 -6.8 29	105 -4.1 10	101 23.9 39	108 6 23	98 4 21
EL 250115 6020337199 EL 25 115		EL 180035 EL 200093	96 24	105 23	104 19	98 12	108 26		110 22		96 0.31 25	97 0.13 19	100 5 12	105 4.5 23	104 1.9 19	107 33 18	104 5.7 15	103 19 13	102 4.6 15	110 -14.8 26	100 -3.0 14	109 28.2 38	102 3 15	104 8 14
EL 250116 6020337207 EL 25 116	2	EL 200024 EL 200106	90 20	109 20	102 12		117 26				92 0.52 21	90 0.34 14		109 5.8 20	102 1.5 12		109 8.2 7		101 4.3 8	103 -8.6 29	115 -6.3 12	113 30.2 36	107 6 8	107 10 7
EL 250119 6020337223 EL 25 119		EL 180085 EL 210076	95 21	105 22	96 17	100 11	104 24		106 20		93 0.45 22	105 -0.10 18	98 3 11	105 4.4 22	96 0.1 17	101 20 17	103 5.1 16	100 13 13	95 1.8 14	102 -7.6 23	107 -4.4 14	98 22.4 36	102 3 15	103 7 14
EL 250120 6020337231 EL 25 120		EL 170177	100 20	93 20	100 17	108 11	80 17				97 0.27 21	110 -0.24 16	93 -2 11	93 0.1 20	100 1.0 17	97 11 16	93 0.5 14	95 1 17	102 4.5 19	96 -2.6 14	95 -1.7 9	70 6.8 28	105 4 20	101 5 19
EL 250122 6020337249 EL 25 122		EL 180036 EL 160044	105 25	105 26	99 19	100 12	92 28		101 24		105 -0.10 26	100 0.05 19	98 3 12	105 4.3 26	99 0.7 19	103 25 19	104 5.9 14	101 14 20	111 7.8 23	86 5.7 28	101 -3.1 13	92 18.8 44	109 6 24	104 8 23
EL 250129 6020337298 EL 25 129		EL 200065 EL 210064	89 19	101 19	98 16	97 11	96 22				89 0.65 20	99 0.07 16	101 6 11	101 3.0 19	98 0.5 16	98 14 15	100 3.5 13	97 6 11	97 2.5 13	96 -3.2 20	100 -2.9 12	94 20.2 34	102 3 13	103 7 12
EL 250130 6020337306 EL 25 130		EL 180058 EL 180055	104 23	93 22	100 18	118 11	99 23		105 20		102 0.03 24	109 -0.20 18	84 -10 11	93 0.1 22	100 1.0 18	101 21 17	94 0.6 13	94 -2 17	100 3.6 20	104 -9.9 20	97 -2.2 11	99 22.7 37	98 1 20	95 1 19
EL 250131 6020337314 EL 25 131	3	EL 180085 EL 210085	95 23	112 23	96 14		108 23				94 0.40 24	103 -0.03 16		112 7.0 23	96 0.0 14		110 8.5 11	102 17 7	102 4.4 12	103 -8.7 23	110 -5.2 8	102 24.2 38	104 4 12	106 9 11

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																								
EL 250133 6020337322 EL 25 133	1	EL 180120 EL 220046	97 24	108 24	101 12		106 23				97 0.26 26	99 0.08 13		108 5.6 24	101 1.3 12		107 7.0 9	99 11 12	111 7.8 15	103 -8.8 24	106 -4.4 7	102 24.3 38	104 4 16	106 9 15
EL 250134 6020337330 EL 25 234	3	EL 200024 EL 220019	95 23	117 22	93 13		114 25				97 0.27 24	88 0.38 17		117 8.6 22	93 -0.5 13		117 12.1 8		100 3.8 10	115 -18.9 30	103 -3.7 9	114 30.9 36	102 3 10	105 9 9
EL 250138 6020337371 EL 25 138	1	EL 200065 EL 210139	86 23	111 23	101 18	93 9	110 24		111 21		88 0.71 24	89 0.36 17	106 10 9	111 6.6 23	101 1.3 18	107 33 17	110 8.8 12	106 26 12	108 6.6 14	101 -6.9 25	111 -5.3 10	106 26.3 38	114 9 15	109 12 14
EL 250139 6020338353 EL 25 139		EL 180120 EL 210219	95 20	101 21	99 6		97 20				94 0.43 22	105 -0.08 8		101 2.9 21	99 0.8 6		99 3.1 8	92 -6 11	104 5.2 13	92 0.1 19	106 -4.3 7	92 18.8 34	99 2 14	100 5 13
EL 250142 6020337397 EL 25 142	1	EL 180036 EL 160092	102 27	115 27	90 21	102 13	103 31	104 20	115 25	110 22	101 0.05 28	98 0.12 21	97 2 13	115 7.7 27	90 -1.4 21	104 27 20	111 9.5 16	108 30 12	104 5.1 16	92 0.0 34	108 -4.8 15	101 23.6 45	108 6 16	103 8 15
EL 250143 6020337405 EL 25 143	1	EL 180035 EL 200117	101 17	107 17	103 11		105 20				100 0.10 18	101 0.04 11		107 5.0 17	103 1.6 11	109 37 10	106 6.6 7		102 4.7 7	110 -14.4 19	93 -1.2 6	113 30.0 36	106 5 8	106 10 7
EL 250144 6020338379 EL 25 144		EL 200065 EL 210170	94 24	105 24	100 19	97 13	103 28		106 23		95 0.39 25	95 0.19 19	100 5 13	105 4.5 24	100 1.1 19	104 27 19	104 5.6 16	101 15 14	103 5.0 15	111 -15.1 32	96 -2.0 14	104 25.3 38	104 4 16	103 8 15
EL 250151 6020337454 EL 25 151	1	EL 180120 EL 220219	94 21	106 22	104 7		101 22				95 0.37 23	96 0.15 9		106 4.7 22	104 1.8 7		105 6.2 8	99 9 11	108 6.9 13	91 1.0 21	106 -4.3 7	101 23.5 37	106 5 14	104 8 13
EL 250156 6020337462 EL 25 156		EL 200034 EL 220168	103 13	98 13	90 12	108 9	99 17				100 0.10 13	108 -0.19 12	94 -1 9	98 1.8 13	90 -1.3 12	92 0 11	95 1.4 7	96 2 7	97 2.7 8	97 -3.6 15	95 -1.8 5	106 26.2 31	98 1 8	95 1 8
EL 250167 6020338403 EL 25 167	1	EL 180120 EL 220106	97 24	108 25	104 11		106 23				97 0.28 26	98 0.12 12		108 5.5 25	104 1.8 11		107 7.4 9	98 8 13	111 7.8 15	104 -9.6 25	109 -4.9 7	99 22.5 38	105 5 16	105 8 15
EL 250168 6020337546 EL 25 168	1	EL 200034 EL 220124	101 14	99 15	97 12	108 7	101 17				99 0.17 15	107 -0.16 11	93 -1 7	99 2.4 15	97 0.2 12	99 16 11	97 2.2 6	94 -1 6	102 4.7 8	104 -9.3 14		105 25.9 32	99 2 8	97 3 7
EL 250170 6020337561 EL 25 170		EL 180035 EL 200070	95 15	106 15	99 12	99 8	104 21				94 0.44 16	105 -0.08 11	99 4 8	106 4.6 15	99 0.8 12	104 26 12	103 5.3 9	102 17 8	101 4.2 9	111 -15.7 19	98 -2.3 9	104 25.2 34	106 5 10	106 10 9

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	EL 180035	180035	EL 110132	EL 140250	0.2	96 29	112 28	104 22	96 16	111 36	113 22	119 28	117 25
2	EL 180085	EL 180085	EL 050042	EL 150128	0.4	92 43	116 44	96 33	98 23	117 45	118 30	123 40	121 35
3	EL 180152	EL 18 152	EL 120086	EL 110059	3.5	107 38	97 37	101 27	119 17	103 36	110 25	115 33	113 29
4	EL 200024	EL2024	EL 180085	EL 150185	1.9	91 31	116 30	90 22	98 10	115 33	113 21	120 27	117 24
5	EL 230183	EL 23 183	EL 110132	EL 130058	0.2	103 34	110 34	118 27	97 20	102 38	110 25	119 32	115 28
						★★★★							
1	DN 180199	DN 180199	LEB 090669	SVH 140216	3.2	108 56	81 48	116 45	108 20	103 49	103 34	92 44	96 39
2	EL 180058	1858	EL 070095	EL 130117	0.0	105 39	92 40	108 33	118 22	99 34	105 26	108 35	106 30
3	EL 220042	EL 220042	DN 180199	EL 150053	0.1	109 34	88 31	96 29	117 17	103 31	102 22	99 29	100 26
4	EL 220088	EL 220088	EL 110160	EL 120088	0.1	98 39	107 38	99 29	113 23	98 40	104 27	115 35	110 31
5	EL 220136	EL22136	DN 180199	EL 150158	0.4	105 35	94 35	109 30	97 16	103 37	100 25	96 32	97 28
6	EL 230039	E2339	EL 110160	EL 200093	0.4	94 34	113 33	98 29	102 22	104 35	107 25	118 31	113 28
7	EL 230233	EL 23 233	DN 180199	EL 150093	0.0	104 31	88 27	109 25	108 13	102 33	102 21	95 26	98 24
8	EL 240088	EL 24 88	DN 180199	EL 150158	0.4	105 35	94 35	109 30	97 16	103 37	100 25	96 32	97 28
9	EL 240102	EL 24 102	DN 180199	EL 160014	0.0	101 31	92 28	106 24	108 13	103 30	103 20	100 26	101 23
						★★★★☆							
1	EL 200065	EL 20 65	WER 090007	EL 150121	0.0	81 38	108 38	100 31	91 21	102 40	98 27	101 35	99 31
2	EL 240110	EL 24 110	DN 180199	EL 170139	0.0	107 31	91 28	108 26	108 14	90 30	92 21	93 26	92 24
3	EL 240174	EL 24 174	DN 180199	EL 160203	0.8	105 33	87 30	107 27	102 13	95 34	90 22	86 28	87 25
						★★							
1	EL 180036	1836	BN 080897	EL 120218	0.0	104 34	109 36	92 31	94 21	90 48	86 29	95 36	90 32

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	EL 160092	EL 160092	EL 110160	EL 080040	3.6	99 44	120 43	88 32	113 23	116 48	124 31	135 40	131 36
2	EL 160166	EL 160166	EL 060014	EL 090116	8.3	88 49	117 46	101 34	99 24	126 46	129 32	132 41	132 36
3	EL 180127	EL 18 127	EL 100249	EL 080088	0.8	84 48	126 49	94 36	112 24	108 50	120 34	138 43	131 38
4	EL 200039	EL 200039	EL 110132	EL 130048	1.0	100 34	111 35	102 27	110 19	114 44	122 27	128 34	126 30
5	EL 200048	EL 20 48	EL 110160	EL 120110	1.7	86 40	133 39	93 31	93 21	117 48	122 30	137 37	132 34
6	EL 210006	EL 210006	EL 110160	EL 120259	4.1	102 36	111 33	92 28	118 18	116 46	124 27	131 33	129 30
7	EL 210096	EL 21 96	EL 110160	EL 120140	0.1	90 35	122 36	95 31	99 23	121 46	125 29	133 36	130 32
8	EL 220028	EL 22 28	EL 110132	EL 130181	0.4	95 33	112 34	118 25	95 17	116 44	123 26	126 32	126 29
9	EL 220087	EL 220087	EL 110132	EL 130048	1.0	100 34	111 35	102 27	110 19	119 42	126 26	130 33	130 30
10	EL 220207	EL 220207	EL 160171	EL 160166	1.3	90 28	115 27	102 19	94 11	123 38	123 21	123 26	124 24
						★★★★☆							
1	EL 150128	EL 150128	BN 080897	EL 120108	0.3	89 34	117 36	95 26	89 15	121 52	117 29	115 35	116 32
2	EL 170224	EL 170224	EL 110140	EL 090065	0.9	94 44	108 44	95 33	108 21	107 44	110 30	116 39	114 34
3	EL 190082	EL 190082	EL 140097	EL 090074	3.4	90 43	102 43	118 31	97 19	110 47	113 30	112 38	113 34
4	EL 190115	EL 19 115	EL 050042	EL 150158	0.0	98 44	111 47	100 37	99 25	111 51	112 34	117 43	115 38
5	EL 190123	EL19123	EL 050042	EL 150105	0.0	96 41	108 42	98 32	102 23	111 49	111 31	115 39	113 35
6	EL 200014	EL2014	EL 110132	EL 130005	0.2	111 31	96 31	103 22	105 15	114 48	114 26	108 32	111 29
7	EL 200023	EL 200023	EL 110132	EL 130216	0.3	96 34	115 35	110 26	89 18	110 47	112 28	117 34	115 31
8	EL 200053	EL2053	EL 110132	EL 130154	0.1	103 29	105 31	110 25	110 18	103 36	112 23	119 30	116 26
9	EL 200106	EL20106	WER 090007	EL 150105	0.4	89 34	102 34	114 26	87 16	118 47	114 27	103 33	108 30
10	EL 200118	EL 200118	EL 100249	EL 120087	3.2	81 43	125 44	94 31	99 20	111 47	116 30	131 39	125 34
11	EL 210010	EL 210010	EL 100249	AW 080017	0.2	75 50	117 46	102 40	93 26	114 49	114 34	119 43	117 38
12	EL 210061	EL 21 61	DN 180199	EL 150093	0.0	104 31	88 27	109 25	108 13	114 40	112 23	101 28	106 26
13	EL 210062	EL 21 62	EL 110132	EL 140250	0.2	96 29	112 28	104 22	96 16	107 35	110 22	117 27	114 24
14	EL 210079	EL 21 79	EL 110132	EL 130093	0.3	99 37	118 37	97 29	93 19	112 45	112 28	119 35	116 32
15	EL 210090	EL 21 90	EL 100249	EL 120160	1.6	86 43	117 43	97 32	102 20	108 45	112 30	124 38	119 34
16	EL 210104	EL 21 104	DN 180199	EL 150082	0.1	96 35	95 35	105 29	99 16	115 43	111 26	103 33	107 30

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	
					★★★★☆								
17	EL 210134	EL 21 134	DN 180199	EL 150128	0.8	98 33	99 30	105 26	96 11	122 43	118 24	108 30	113 27
18	EL 210139	EL21139	EL 160171	EL 160166	1.3	90 28	115 27	102 19	94 11	117 34	118 20	120 25	120 22
19	EL 210154	EL 21 154	EL 110132	EL 130154	0.1	103 29	105 31	110 25	110 18	103 35	112 23	119 29	116 26
20	EL 220019	EL 220019	EL 110132	EL 130093	0.3	99 37	118 37	97 29	93 19	114 45	114 28	120 35	118 32
21	EL 220030	EL 220030	EL 110132	EL 130117	0.0	101 30	103 31	103 26	112 18	112 41	117 25	119 31	119 28
22	EL 220037	EL 220037	DN 180199	EL 150109	0.6	101 32	93 30	104 25	100 12	119 42	113 24	102 29	107 26
23	EL 220046	EL 220046	EL 110132	EL 130095	0.2	102 29	109 29	100 23	101 17	109 35	111 22	118 28	115 25
24	EL 220093	EL 220093	EL 110132	EL 130077	0.3	95 30	110 34	114 23	93 14	113 43	117 25	120 31	119 28
25	EL 220106	EL 220106	EL 110132	EL 140033	0.1	101 29	109 30	105 22	103 16	109 34	114 22	121 28	118 25
26	EL 220116	EL 220116	EL 110160	EL 120118	2.6	98 40	114 39	91 30	107 23	109 43	112 29	121 36	117 32
27	EL 230036	EL2336	EL 110160	EL 200106	0.1	91 34	115 32	104 28	95 21	110 37	112 25	119 31	116 28
28	EL 230038	EL23118	EL 110160	EL 200118	6.0	87 34	126 33	94 27	102 10	107 34	114 22	133 29	125 26
29	EL 230067	EL2367	EL 110132	EL 170224	0.5	100 31	110 32	103 23	102 15	107 35	111 22	119 29	116 26
30	EL 230190	EL 23 190	EL 180058	EL 190115	0.4	101 29	101 30	104 24	110 15	105 30	110 21	112 27	111 24
31	EL 240101	EL 24 101	EL 180058	EL 190115	0.4	101 29	101 30	104 24	110 15	105 30	110 21	112 27	111 24
						★★★★							
1	EL 150082	EL 150082	JA 060142	EL 070092	0.0	84 41	109 50	95 36	93 24	106 53	101 34	104 44	102 39
2	EL 150093	EL 150093		EL 110051	0.0	100 26	94 24	102 21	108 16	101 39	101 22	99 26	100 24
3	EL 150102	EL 150102		EL 110072	0.0	97 24	98 25	110 23	102 18	98 39	100 23	103 27	101 25
4	EL 150109	EL 150109	BN 080897	EL 120131	0.0	93 32	104 35	92 21	95 15	115 51	107 27	102 34	104 30
5	EL 160014	EL 160014		EL 120184	0.0	94 28	103 28	96 18	108 16	103 34	104 21	108 27	106 24
6	EL 160036	EL 160036		EL 050023	0.0	97 38	105 38	103 36	115 33	91 36	101 29	114 37	108 33
7	EL 160044	EL-1644	EL 090069	EL 130118	3.1	107 38	101 40	106 24	110 13	94 33	100 23	107 32	103 28
8	EL 170080	EL 170080		EL 080040	0.0	101 34	104 35	88 23	113 18	103 33	103 23	109 31	106 27
9	EL 170122	EL-17122		EL 120184	0.0	94 28	103 28	96 18	108 16	101 33	102 20	107 26	104 23
10	EL 180107	EL 180107	EL 050042	EL 150144	1.2	97 45	104 46	98 34	113 23	104 50	108 32	114 42	112 37
11	EL 180118	EL 18 118	EL 110140	EL 130216	3.9	96 36	111 35	98 28	96 15	106 43	105 26	112 33	109 30

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	
					★★★★								
12	EL 180151	EL 180151	EL 140097	EL 090065	1.8	86 41	107 43	112 27	93 11	103 46	104 28	108 36	106 32
13	EL 180161	EL 18 161		EL 080076	0.0	97 34	97 36	95 20	115 14	101 32	102 22	105 29	104 26
14	EL 180288	18288		EL 120165	0.0	102 29	103 27	103 24	108 17	98 33	102 21	109 27	105 24
15	EL 190050	EL 190050	EL 150183	EL 130073	0.0	103 28	103 26	107 23	96 17	108 43	108 24	108 29	108 26
16	EL 200003	EL2003	EL 110160	EL 120135	0.0	97 29	111 27	99 25	103 20	100 36	104 23	115 28	110 26
17	EL 200032	EL2032	WER 090007	EL 150093	0.0	91 36	98 35	116 27	91 18	110 47	108 28	101 34	104 31
18	EL 200056	EL 200056	EL 100249	EL 120099	3.4	77 43	119 44	98 31	95 16	100 43	102 28	116 37	110 32
19	EL 200059	EL 200059	EL 100249	EL 120092	0.0	91 34	110 34	101 28	100 19	99 36	101 25	112 32	107 28
20	EL 200064	2064	WER 090007	EL 150027	0.1	87 37	105 36	109 28	89 19	104 39	101 26	99 33	100 30
21	EL 200093	EL2093	WER 090007	EL 150053	0.0	96 39	99 38	103 31	99 21	106 39	103 27	102 35	102 31
22	EL 200095	EL 200095		EL 090032	0.0	106 41	103 36	89 20	113 14	102 31	103 22	108 29	106 26
23	EL 200143	EL 200143	EL 160103	EL 170177	0.1	107 29	100 29	102 22	112 13	96 29	101 20	108 26	105 23
24	EL 200916	EL 200916	EL 100249	EL 170012	3.7	89 36	113 36	97 28	99 11	106 43	107 26	116 33	112 30
25	EL 210043	EL 21 43	EL 100249	EL 120044	0.0	91 34	110 34	101 28	100 19	98 36	100 25	111 32	106 28
26	EL 210086	EL-21 86	EL 110132	EL 130095	0.2	102 29	109 29	100 23	101 17	107 34	109 22	117 28	113 25
27	EL 210120	EL21120	EL 180036	EL 180107	0.0	100 28	106 29	95 23	102 15	102 35	101 22	107 28	104 25
28	EL 210127	EL 21 127	EL 100249	EL 120218	6.3	98 42	118 43	94 36	99 18	103 44	106 30	119 38	113 34
29	EL 210152	EL 21 152	EL 110132	EL 140050	0.0	104 22	103 25	108 18	99 13	106 34	108 20	111 25	109 22
30	EL 210170	EL 21 170	EL 110132	EL 160040	0.9	107 29	103 31	101 25	107 19	104 41	107 25	111 31	109 28
31	EL 210251	EL 21 251	DN 180199	EL 150102	0.0	103 30	90 27	113 25	106 14	109 38	109 23	101 28	105 26
32	EL 220018	EL 220018	EL 100249	EL 120194	6.3	97 39	114 39	102 30	103 10	101 36	108 24	121 32	115 28
33	EL 220022	EL 220022	EL 100249	EL 120110	6.7	80 43	132 43	95 29	91 10	103 39	108 26	127 35	119 30
34	EL 230046	EL2346	EL 110160	EL 200082	4.4	92 32	119 31	97 27	103 15	101 32	107 22	123 28	116 25
35	EL 230062	EL2362	EL 110160	EL 120218	3.2	105 40	119 38	92 35	101 25	97 38	101 28	119 36	111 32
36	EL 230084	EL 23 84	EL 110160	EL 120140	0.1	90 35	122 36	95 31	99 23	105 40	109 27	125 34	118 30
37	EL 230088	EL 23 88	DN 180199	EL 150102	0.0	103 30	90 27	113 25	106 14	101 32	102 21	97 26	99 24
38	EL 230092	EL 23 92	DN 180199	EL 150082	0.1	96 35	95 35	105 29	99 16	105 36	101 24	98 32	99 28
39	EL 230105	EL 23 105	EL 110132	EL 130095	0.2	102 29	109 29	100 23	101 17	102 34	105 22	114 28	110 25
40	EL 230112	EL 23 112	EL 110160	EL 120085	0.9	85 40	122 38	103 29	99 23	96 39	104 27	124 35	115 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	
					★★★★								
41	EL 230131	EL 23 131	DN 180199	EL 160044	0.1	107 34	91 31	111 25	109 11	98 29	101 20	99 27	100 24
42	EL 230163	EL 23 163	EL 110132	EL 130077	0.3	95 30	110 34	114 23	93 14	104 38	108 23	115 30	112 26
43	EL 230175	EL 23 175	EL 110132	EL 130093	0.3	99 37	118 37	97 29	93 19	106 40	106 26	116 34	112 30
44	EL 230179	EL 23 179	DN 180199	EL 150128	0.8	98 33	99 30	105 26	96 11	112 36	109 22	103 28	106 25
45	EL 230214	EL23214	EL 110132	EL 130216	0.3	96 34	115 35	110 26	89 18	104 39	107 25	114 32	111 28
46	EL 230234	EL 23 234	DN 180199	EL 150109	0.6	101 32	93 30	104 25	100 12	109 36	104 22	97 28	100 25
47	EL 230244	EL 23 244	EL 110132	EL 170122	0.1	100 27	107 28	104 20	102 15	103 32	107 20	114 26	111 23
48	EL 240048	EL 24 48	DN 180199	EL 160044	0.1	107 34	91 31	111 25	109 11	98 29	101 20	99 27	100 24
49	EL 240049	EL 24 49	DN 180199	EL 150128	0.8	98 33	99 30	105 26	96 11	112 36	109 22	103 28	106 25
50	EL 240118	EL 24 118	DN 180199	EL 170080	0.2	104 33	93 30	102 25	111 14	103 30	103 21	100 27	101 24
51	EL 240134	EL 24 134	DN 180199	EL 150109	0.6	101 32	93 30	104 25	100 12	109 36	104 22	97 28	100 25
52	EL 240146	EL 24 146	DN 180199	EL 150082	0.1	96 35	95 35	105 29	99 16	105 36	101 24	98 32	99 28
53	EL 240163	EL 24 163	EL 180035	EL 120085	0.0	86 31	114 31	109 20	95 16	101 32	105 21	116 27	111 24
54	EL 240172	EL 24 172	DN 180199	EL 150093	0.0	104 31	88 27	109 25	108 13	102 33	102 21	95 26	98 24
55	EL 240193	EL 24 193	EL 180058	EL 190074	0.8	100 31	103 31	109 25	110 15	100 29	107 21	113 27	111 24
56	EL 240199	EL 24 199	EL 180058	EL 190123	0.0	100 28	100 28	103 22	112 15	105 29	109 20	111 26	110 23
57	EL 240223	EL 24 223	EL 180035	EL 120218	3.2	106 30	111 31	98 25	97 11	101 31	102 21	111 27	107 24
						★★★★							
1	EL 120085	EL 120085	GHB 020031	EL 050055	0.0	77 56	117 56	113 34	94 29	90 54	97 37	114 48	106 42
2	EL 150185	EL 150185	EL 050007	EL 120159	2.0	90 45	116 45	84 35	99 23	95 48	93 32	108 41	101 36
3	EL 160040	EL 160040		EL 050029	0.0	108 38	94 38	91 36	114 32	97 37	96 29	97 37	96 33
4	EL 160238	16238		EL 080123	0.0	110 34	92 35	96 21	111 16	93 32	92 22	93 30	91 26
5	EL 170012	EL-1712		EL 120090	0.0	99 28	102 27	97 24	98 16	96 37	92 22	97 28	94 25
6	EL 170108	EL17108		EL 070118	0.0	106 35	87 36	104 26	115 21	89 34	91 24	93 32	91 28
7	EL 170116	EL17116	WER 090007	EL 120211	0.0	94 43	106 42	110 35	94 22	96 47	97 31	103 39	100 35
8	EL 180065	EL 18 65		EL 080084	0.0	108 35	98 35	92 24	104 20	100 34	96 24	98 31	96 28
9	EL 180089	EL 18 89	EL 050042	EL 090066	6.3	90 52	116 53	94 37	102 21	95 48	99 33	115 44	108 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	
					★★★★								
10	EL 180183	18183	EL 120087	0.0	89 28	110 28	92 18	101 17	91 32	90 20	103 26	96 23	
11	EL 190040	EL 190040	EL 070118	0.0	106 35	87 36	104 26	115 21	94 34	95 24	95 32	95 28	
12	EL 190049	EL 19 49	EL 120110	0.0	88 29	116 28	93 20	93 12	98 33	96 20	107 26	102 23	
13	EL 190058	EL1958	WER 090007	EL 120097	0.1	97 40	96 40	115 28	97 18	99 49	99 29	98 37	98 33
14	EL 200011	EL 20 11	EL 110140	EL 130077	1.6	96 34	107 35	102 27	101 17	90 44	93 27	105 33	99 30
15	EL 230085	EL 23 85	EL 180058	EL 190081	0.4	91 30	100 29	111 22	99 14	94 29	95 20	100 26	97 23
16	EL 230121	EL 23 121	EL 110160	EL 120070	0.0	95 38	113 37	100 30	98 24	96 39	99 27	112 35	106 31
17	EL 230153	EL 23 153	DN 180199	EL 160040	0.1	108 34	88 31	103 29	111 19	100 30	99 22	94 29	96 26
18	EL 240004	EL2404	EL 180036	EL 180107	0.0	100 28	106 29	95 23	102 15	97 34	96 22	105 27	100 24
19	EL 240122	EL 24 122	DN 180199	EL 170012	0.1	103 31	92 28	106 25	102 13	100 31	97 21	94 26	95 24
20	EL 240167	EL 24 167	DN 180199	EL 160040	0.1	108 34	88 31	103 29	111 19	100 30	99 22	94 29	96 26
21	EL 240196	EL 24 196	EL 180036	EL 180089	0.0	97 31	112 31	93 24	97 14	93 33	92 22	105 28	99 25
22	EL 240215	EL 24 215	DN 180199	EL 150185	0.2	99 36	99 33	100 28	102 15	99 34	97 23	100 30	98 26
					★★★★								
1	EL 150160	EL150160	EL 080123	0.0	110 34	92 35	96 21	111 16	90 34	89 23	91 30	89 26	
2	EL 170177	EL17177	EL 070095	EL 120047	0.0	103 40	92 40	107 34	110 21	86 34	88 26	92 35	89 30
3	EL 180008	EL-1808	EL 120099	0.0	85 28	103 28	96 17	97 13	87 33	83 20	92 26	87 23	
4	EL 180075	EL 18 75	EL 080123	0.0	110 34	92 35	96 21	111 16	85 31	84 22	89 29	85 26	
5	EL 180201	18201	EL 120088	0.0	100 28	90 28	98 17	113 14	86 35	85 21	89 26	86 24	
6	EL 190001	1901	EL 120127	0.0	97 28	109 25	91 24	109 16	86 30	89 20	105 25	97 22	
7	EL 240011	EL2411	EL 180036	EL 170261	1.7	92 25	114 26	91 24	97 18	90 28	89 20	104 25	96 22
					★★★★								
1	EL 160203	EL 160203	BN 080897	TSB 110032	0.1	102 34	92 35	98 31	98 21	86 48	79 29	81 36	78 32
2	EL 200087	EL 200087	EL 070100	0.0	91 36	85 36	98 31	106 19	87 30	79 24	77 31	77 28	

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	EL 250105	EL 25 105	EL 180058	EL 190115	0.4	101 29	101 30	104 24	110 15	105 30	110 21	112 27	111 24
					★★★★								
1	EL 250090	EL 25 90	EL 180058	EL 180107	0.4	101 30	98 30	103 23	115 14	101 29	107 20	111 26	109 23
					★★★☆☆								
1	EL 250039	EL 25 39	EL 180036	EL 170224	0.6	99 27	109 28	93 22	99 13	99 31	97 20	106 26	101 23
2	EL 250109	EL 25 109	EL 180036	EL 150082	0.1	94 26	109 31	93 24	93 16	98 34	93 22	99 28	96 25

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	EL	250142	EL 25 142	EL 180036	EL 160092	1.2	102 27	115 27	90 21	102 13	103 31	104 20	115 25	110 22
						★★★★☆								
1	EL	250042	EL 25 42	DN 180199	EL 180201	0.0	104 31	86 28	107 24	111 12	95 30	94 20	90 26	91 23
						★★								
1	EL	250037	EL 25 37	EL 180036	EL 150185	0.1	97 28	113 28	88 23	96 14	93 33	89 21	102 26	95 24

	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.

