

SUSSEX

BREEDING VALUE REPORT

September 2026



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The brand you need

 **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



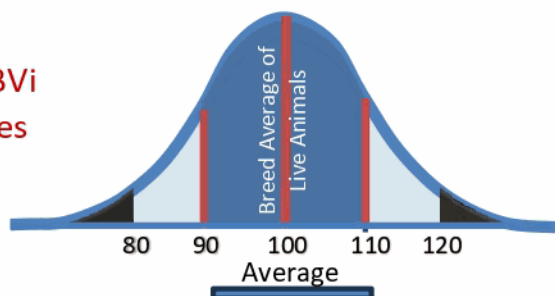
80% LOGIX Cow Value +
20% LOGIX Growth Value

LOGIX Carcass Value

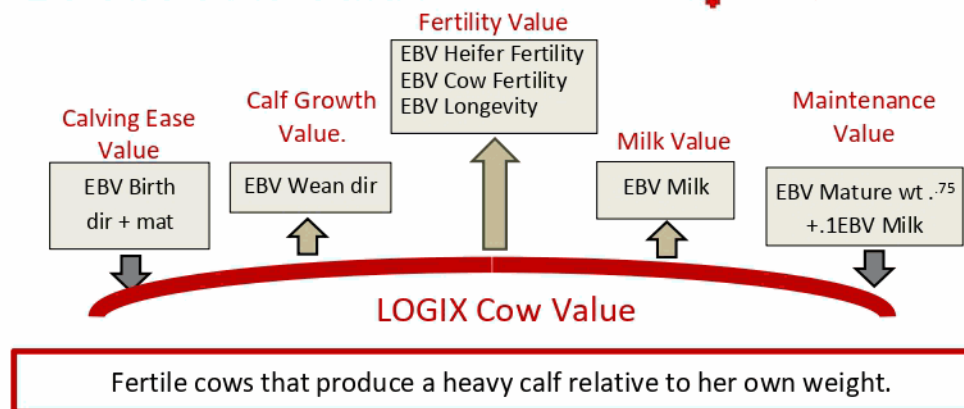


Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

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

Contemporary Groups

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

1. Animals at the same time, place and treatment

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

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

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

3. Larger groups stabilise Breeding Values

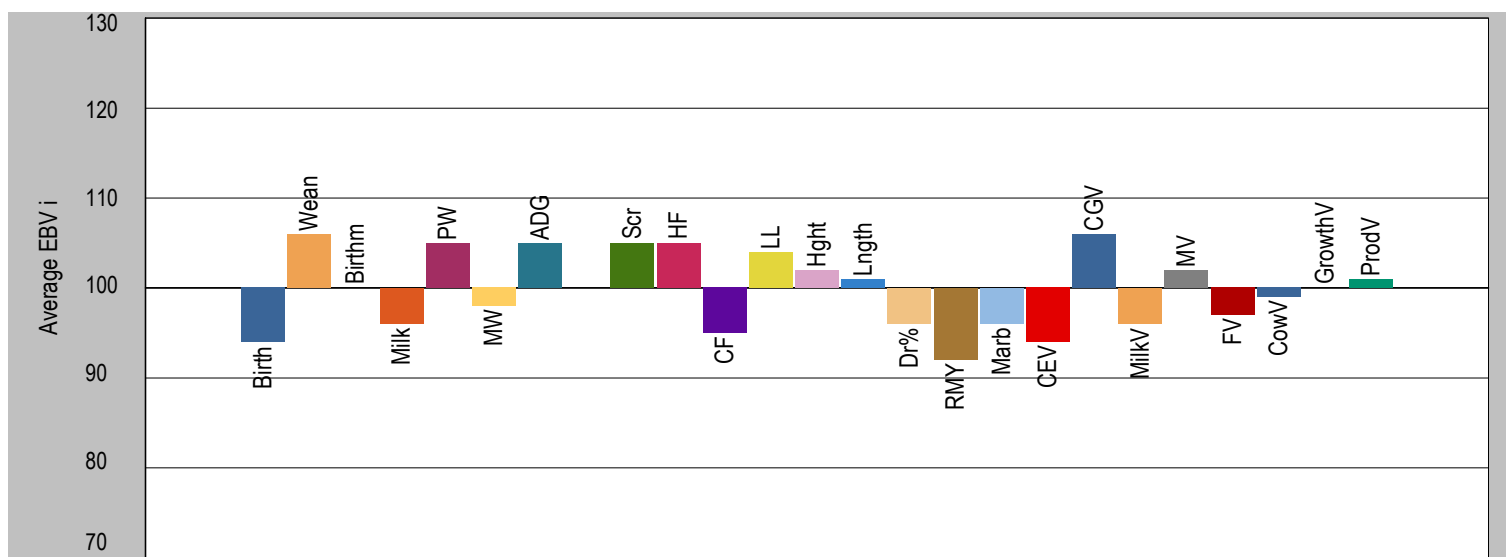
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for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

4. Measure all animals in the contemporary group

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



Herd and Breed Averages



Breeding Values:

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

Selection Values:

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

	Trait	EBV Herd	EBV Index	EBV Breed
Prewean Growth	Birth Weight	1.60	94	1.09
	Wean Weight	18.2	106	15.4
	Birth Mat.	0.43	100	0.44
	Milk (Wn.Mat.)	4.9	96	6.2
Postwean Growth	Postwean Wt	34.3	105	29.9
	Mature Weight	23	98	26
	ADG	138	105	113
	FCR			-90
Fertility	Scrotal Circumf.	16.0	105	13.7
	Heifer Fertility	-5.4	105	-1.5
	Cow Fertility	-4.7	95	-5.8
	Longevity	27.5	104	24.9
Frame	Height	20	102	19
	Length	33	101	32
Carcass	Dressing%	-0.16	96	-0.05
	RedMeatYield	-2.0	92	0.4
	Marbling	-0.98	96	-0.65

Selection Value	Ave. Herd
Calving Ease	94
Calf Growth	106
Milk	96
Maintenance	102
Fertility	97
Cow Value	99
Growth Value	100
Production Value	101

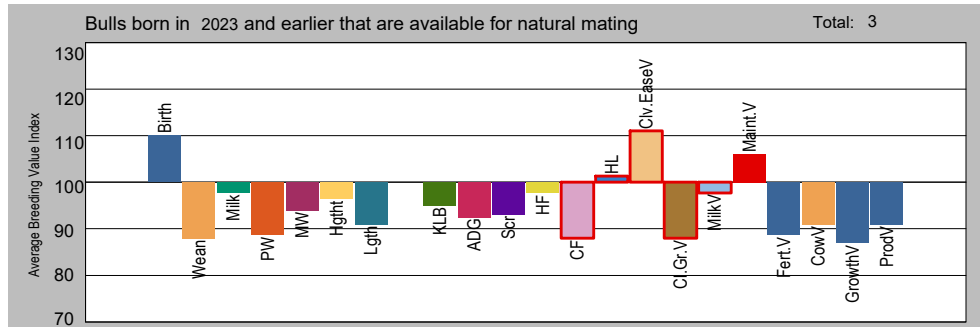
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

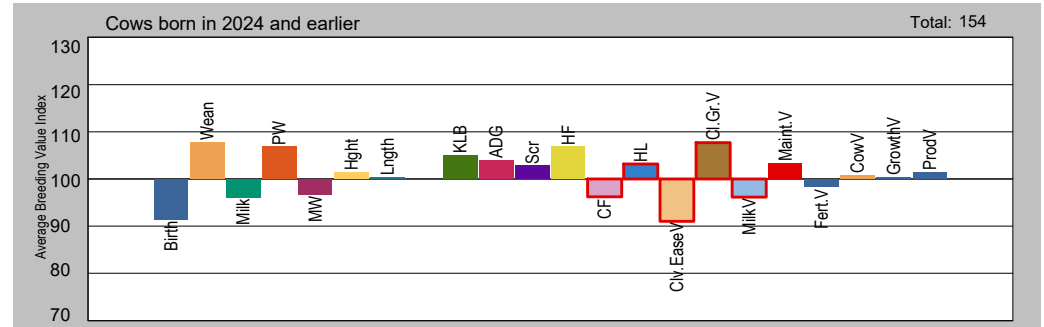
Genetic Windows

Bulls on the farm



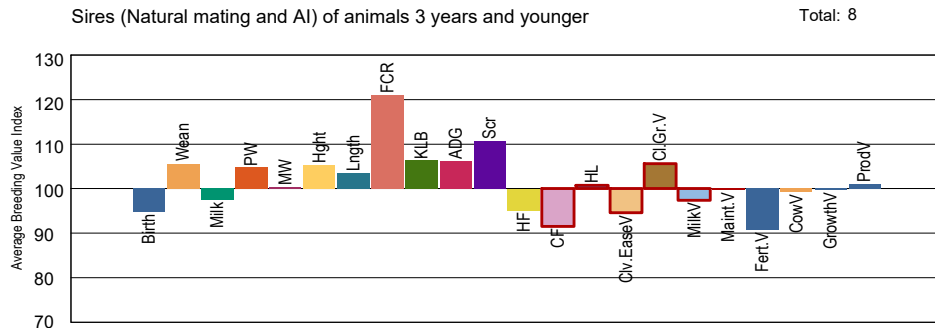
Animals available for breeding

Cow Herd

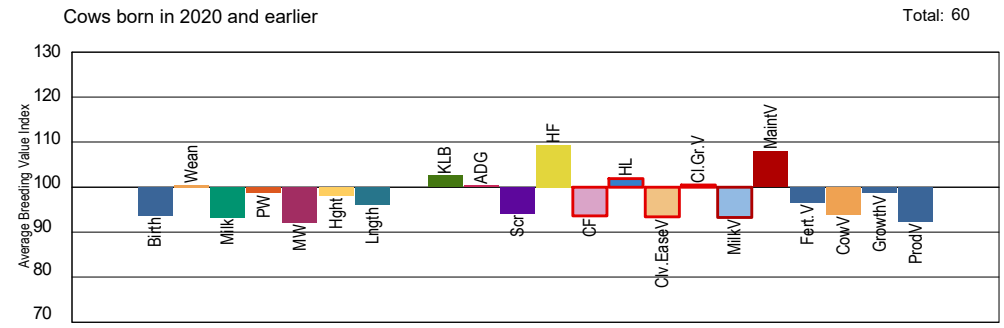


Results of previous selection decisions

Sires of young animals

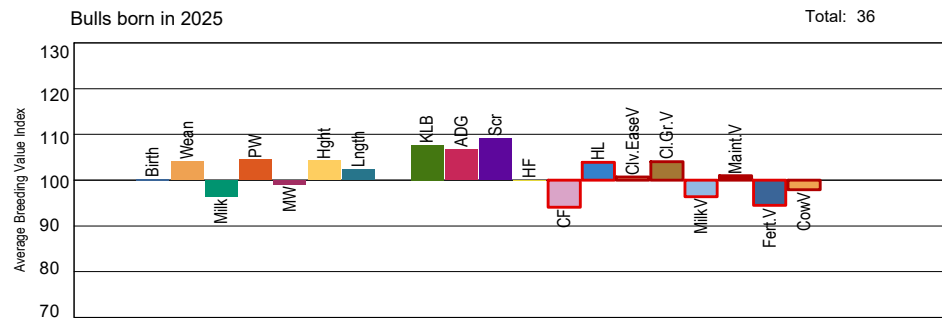


Cows older than 6 years

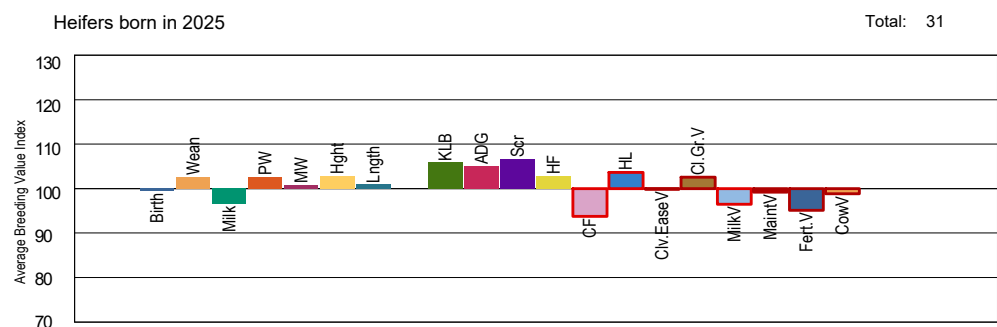


Selection possibilities

Bull calves



Heifer calves

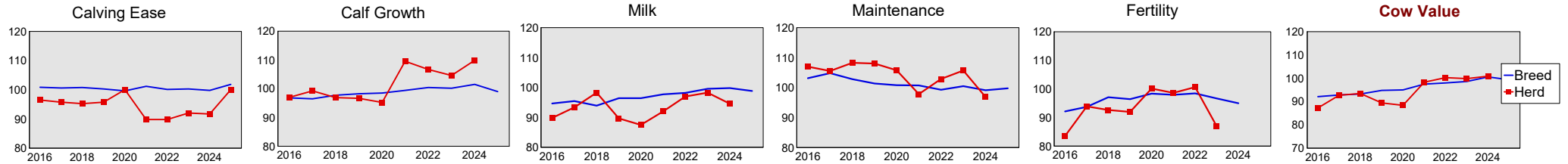


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertiity				Frame		
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
Cows in Breed Average:			100	100	100	100	100	100	99	99	100	100	100	100	100	100	100	99	99	99	100	100	100	99	99
2014	2	★★★☆☆	96	97	78	120	114	89			96	97	103	78	95	81	95	100	87	115	111	103	95	91	
2015	14	★★★★	96	95	97	107	87	90			97	95	98	97	93	93	98	100	90	113	83	100	97	95	
2016	8	★★★★	94	108	94	104	90	99			94	108	102	94	107	97	103	104	96	105	88	103	102	100	
2017	3	★★★★	102	89	109	110	101	98			103	89	88	109	90	90	98	100	89	148	87	109	95	94	
2018	13	★★★★	89	104	94	106	100	96	104	91	90	104	98	94	102	94	105	106	98	104	99	98	104	102	
2019	13	★★★★	90	103	92	111	96	95	98	97	91	103	99	92	101	89	99	102	96	102	95	103	93	91	
2020	7	★★★★☆	96	98	85	108	111	89	97	80	96	98	105	85	95	92	98	100	95	113	108	106	97	95	
2021	12	★★★★☆	90	110	95	96	106	102			91	110	99	95	110	104	106	107	106	106	104	109	103	101	
2022	18	★★★★☆	87	112	99	100	103	107	99	109	88	112	97	99	111	100	105	105	107	107	102	105	103	102	
2023	26	★★★★☆	89	112	101	101	97	108	100	107	90	112	96	101	112	99	107	106	110	104	96	100	105	105	
2024	38	★★★★☆	91	113	96	99	97	105	105	110	91	113	99	96	113	101	108	109	111	105	95	105	103	103	
2025	31	★★★★	100	103	96	99	95	99			100	103	102	96	103	101	105	106	107	103	94	104	103	101	
2026	11	★★★★	96	101	96	101	88	94			96	101	102	96	100	99	104	104	100	103	86	106	100	100	
Cows in Herd Average:			94	103	95	105	99	98	101	99	94	103	99	95	102	95	102	104	99	110	96	104	100	98	

Genetic Trends for On-Farm Traits

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



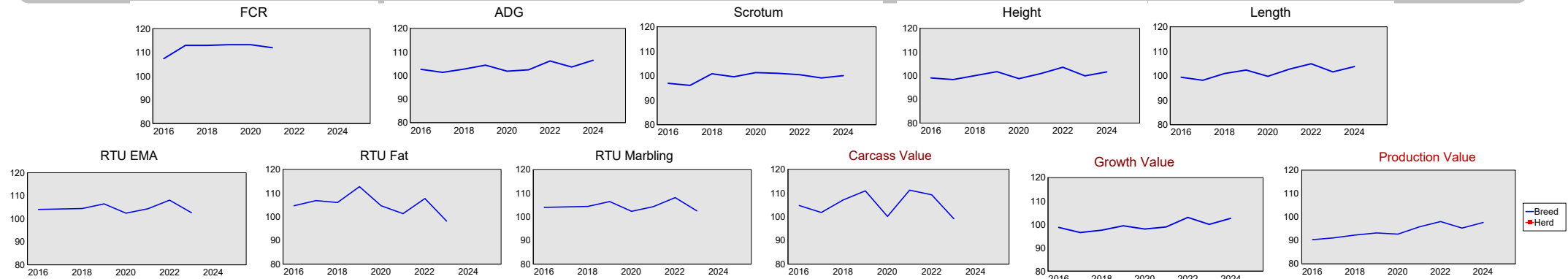
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility							Cow Value
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Milk	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		
2016	66	1.43	0.34	96	57	14.0	97	57	3.07	90	57	25.1			107	19	-2.0	14	-1.2	55	20.4	84	87
2017	85	1.46	0.47	96	87	15.1	99	87	4.18	93	87	27.7			106	33	-3.8	3	-2.7	61	21.3	94	93
2018	73	1.47	0.62	95	73	13.9	97	73	5.70	98	73	26.3			108	23	-0.1	20	-4.0	50	19.2	93	94
2019	82	1.49	0.34	96	80	13.8	97	80	3.01	90	80	25.5			108	26	0.1	19	-4.1	58	21.8	92	89
2020	60	1.14	0.26	100	56	13.1	95	56	2.33	88	54	24.8	1	42	106	17	-3.4	18	-5.5	42	22.1	100	88
2021	86	1.99	0.36	90	70	20.2	110	70	3.74	92	69	37.3	2	35	98	23	-2.4	15	-6.7	56	22.6	99	98
2022	81	1.95	0.55	90	71	18.7	107	71	5.30	97	70	34.3			103	26	-7.6			14	22.6	101	100
2023	79	1.75	0.56	92	78	17.8	105	78	5.70	98	78	33.0			106	5	2.9					87	100
2024	77	1.83	0.39	92	75	20.4	110	75	4.56	95	75	37.9			97								101
2025	75	1.13	0.32	100																			

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility							Cow Value		
	Birth Weight		Calv. Ease	Dir EBV	Mat EBV	Weaning Weight	Calf Growth	Milk (Wn.Mat.)		Milk	Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity			
	Number	EBV				Number		EBV	Number		EBV	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number			EBV	Number
2016	1955	1.03	0.37	101		1392	13.8	97		1392	4.56	95	1016	27.2	155	24	103	490	1.9	379	-4.2	1999	17.9	92	92
2017	2176	1.04	0.42	101		1503	13.7	97		1503	4.83	95	1143	26.9	231	21	105	589	1.5	426	-4.4	2201	18.1	94	93
2018	2151	1.03	0.34	101		1437	14.3	98		1437	4.35	94	1018	28.3	233	23	103	512	-0.1	390	-5.4	2143	17.4	97	93
2019	2032	1.08	0.35	100		1356	14.5	98		1356	5.11	96	967	28.6	173	26	101	519	0.5	353	-5.2	2109	18.7	96	95
2020	2209	1.13	0.42	100		1596	14.7	99		1596	5.13	96	1107	28.3	226	27	101	587	-0.5	403	-5.6	2251	18.7	98	95
2021	2344	1.00	0.39	101		1733	15.1	99		1733	5.53	98	1384	29.5	220	25	101	696	-0.1	414	-5.4	2145	19.1	98	98
2022	2141	1.10	0.38	100		1549	15.6	100		1549	5.68	98	1124	30.7	148	25	99	479	1.6	92	-5.9	898	19.9	98	98
2023	2136	1.05	0.46	100		1634	15.5	100		1634	6.11	100	1211	29.9	17	26	100	237	0.4	3	-6.6			97	99
2024	2177	1.09	0.46	100		1492	16.2	102		1491	6.17	100	992	31.7			99	22	-3.8					95	101
2025	2001	0.91	0.46	102		1255	14.9	99		1255	5.87	99	218	32.9			100								99
2026	686	0.88	0.57	102		27	18.8	107		27	8.86	108													112

Genetic Trends for Growth Test Traits



Herd

Birth Year	Growth									Frame						Carcass						Selection Values			
	FCR			ADG			Scrotum			Height			Length			EMA			Fat		Marbling		Carcass Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	RTU Number	EBV	EBVi	EBV	EBVi	EBV	EBVi			
2017																									
2018																									
2019																									
2020																									
2021																									
2022																									
2023																									
2024																									
2025																									

Breed

Birth Year	Growth									Frame						Carcass						Selection Values			
	FCR			ADG			Scrotum			Height			Length			RTU Number	EMA		Fat		Marbling		Cracss Value	Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		EBV	EBVi	EBV	EBVi					
2017	4	-123	113	264	120	101	263	11.8	96	264	18	98	264	30	98	51	-0.06	102	1.13	107	-0.29	104	102	96	91
2018	3	-124	113	218	128	103	218	14.1	101	218	19	100	218	33	101	39	0.53	107	1.02	106	-0.27	104	107	98	92
2019	10	-124	113	147	137	104	147	13.5	100	147	20	102	147	35	102	28	0.60	108	1.85	113	-0.09	106	111	99	93
2020	7	-123	113	182	123	102	182	14.3	101	182	18	99	182	32	100	49	-0.11	102	0.85	105	-0.45	102	100	98	93
2021	3	-120	112	253	127	102	253	14.2	101	253	20	101	253	36	103	27	0.70	108	0.45	101	-0.28	104	111	99	96
2022				221	146	106	221	13.9	100	221	22	104	221	38	105	48	0.94	111	1.23	108	0.05	108	109	103	98
2023				241	133	104	241	13.2	99	241	19	100	241	34	102	94	-0.31	100	0.07	98	-0.43	103	99	100	95
2024				154	148	106	166	13.8	100	132	20	102	132	37	104									103	98
2025																									
2026																									

Sires

Bull			Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.
	Name																												
GMO 060050		WRA 010016 GMO 970040	96 86	97 85	59 80	120 21	106 56	76 61	92 20	76 53	94 1.60 87	97 14.0 85	115 -0.20 78	59 -6.4 80	91 22.2 71	80 5 21	101 117 33		91 9.4 40	111 -10.1 66	103 -6.5 45	102 26.3 72	96 16 26	91 21 24				17 7	13 36
GMO 130011		TL 080038 GMO 050063	99 87	109 87	97 67	107 18	102 52	109 57			100 1.12 89	109 19.9 87	91 0.83 67	97 5.4 67	113 41.1 65	93 18 18	116 199 26		113 20.1 30	107 -7.3 65	100 -5.8 40	97 22.6 71	113 29 26	113 48 25				24 2	24 6
GMO 160052		MS 100028 GMO 060030	92 85	98 84	74 70	111 20	78 50	75 57			91 1.92 86	98 14.3 84	112 -0.07 70	74 -2.0 70	97 27.0 66	89 14 20	91 65 23		72 0.3 26	96 1.9 61	77 -0.2 40	104 27.8 65	86 8 26	84 12 25				12 4	13 8
GMO 170043		GMO 130011 GMO 060013	104 83	100 81	94 63	113 8	110 43	104 50			104 0.76 84	100 15.6 81	100 0.45 65	94 4.3 63	101 30.7 55	87 12 8	102 125 14		101 14.3 19	119 -17.1 54	106 -7.1 32	106 29.3 57	103 21 16	101 33 15				11 5	10 5
GMO 170048		TZ 120194 GMO 140060	85 85	113 84	81 58	104 22	77 44	89 53			85 2.40 87	113 21.8 84	104 0.26 57	81 0.2 58	111 39.8 62	96 22 22	113 183 28		106 16.6 30	75 19.2 58	82 -1.5 31	96 22.2 61	114 30 30	112 47 29				22 3	21 3
GMO 210084		MS 180005 GMO 160034	77 83	117 83	90 48		86 30				78 3.05 86	117 23.9 83	99 0.48 49	90 3.1 48	114 41.8 60				103 15.4 7	94 3.1 41	86 -2.5 19	100 24.6 48						18	15
GMO 220063		GMO 190087 GMO 180065	94 77	93 71	91 46	112 8	99 28	87 39			94 1.62 80	93 12.0 71	99 0.49 45	91 3.4 46	91 22.3 48	88 13 8	103 129 20		96 11.6 23	101 -2.4 36	99 -5.5 20	110 32.2 45	99 18 23	96 27 22			6		
JA 180004		NW 130055 JA 130036	112 93	106 92	94 62	94 44	90 44	104 60			109 0.33 95	106 18.6 92	121 -0.44 69	94 4.4 62	106 35.5 82	106 32 44	111 172 15		116 21.5 18	102 -3.5 61	89 -3.1 28	101 25.7 65	109 26 18	110 45 17				109 4	94 6
JA 210029		JA 180004 JA 140002	102 85	99 82	94 50	98 25	87 27	92 45			101 0.99 88	99 14.7 82	107 0.12 52	94 4.4 50	99 28.8 64	102 28 25				98 -0.1 39	87 -2.6 15	110 32.1 49						51	24
JRE 150053		JRE 110004 JRE 120093	105 90	85 89	56 72	105 31	109 52	61 61	92 34	65 56	102 0.94 91	85 7.9 89	126 -0.66 74	56 -7.5 72	78 11.3 70	95 21 31	93 79 60		105 16.1 69	87 8.9 65	113 -9.0 39	92 19.3 68	89 11 71	91 21 68	114 1.36 59	101 0.44 53	110 0.25 51	60 11	54 16
JRE 190098		JRE 160004 JRE 130088	90 88	77 87	109 55	140 29	72 41	83 54	78 34	79 50	92 1.82 90	77 3.9 87	84 1.11 60	109 9.0 55	73 6.2 70	60 -15 29	82 17 59		80 4.1 69	94 3.4 58	71 1.1 24	90 17.7 59	88 10 71	89 18 67	79 -2.87 58	97 -0.05 52	77 -2.63 50	55	47

Sires

Bull			Selection Values								Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny	
ID	Index	Sire ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.
	EBV Acc																			Dam ID									
MS 100028		TL 070118 MS 030015	90	94	50	120	49	50	82	54	88	94	121	50	90	80	82	75	73	88	48	85	82	78	84	94	105	98	86
BIGMAC			95	93	89	40	70	73	23	63	2.17	12.3	-0.43	-9.4	21.3	5	19	-25	0.5	8.2	6.8	14.5	5	4	-2.24	-0.45	-0.20	30	80
MS 120012		TZ 090080 PKB 060315	102	75	114	101	63	76	90	77	103	75	85	114	71	99	96		89	127	52	97	91	91				97	90
HOEKA			94	93	88	30	67	70	24	61	0.84	3.0	1.08	10.7	5.2	25	91		8.4	-23.1	5.8	23.0	12	21				24	80
MS 170053		JC 120046 MS 100029	96	102	84	113	69	86			95	102	105	84	101	87	96		84	89	69	87	94	91				3	2
CURLS 1			77	66	59	18	40	46			79	66	59	59	30.7	12	91		6.1	7.5	1.6	15.5	14	20				2	2
MS 180005		JC 120046 MS 130012	83	118	98	98	70	101			85	118	96	98	115	102	113		111	79	74	86	112	111				39	34
CURLS 2			89	88	53	9	42	50			2.47	24.4	0.62	5.5	43.0	28	183		19.1	16.0	0.5	14.7	28	46				2	2
NJB 150002		KC 100217 NJB 080034	102	97	118	102	88	107	109	106	104	97	85	118	103	98	100	92	95	86	91	81	97	104	109	101	107	56	54
NJB150002			91	91	77	37	56	65	44	61	0.76	14.2	1.06	11.7	32.1	24	115	-70	11.4	10.1	-3.7	11.6	16	37	0.79	0.42	-0.05	10	20
PSS 166077		PSS 122606 AJS 150018	128	104	87	79	107	104	103	102	125	104	144	87	106	121	114		98	89	111	93	115	109	102	100	91	38	24
ZUMA 2 ND			90	88	67	38	47	60	39	56	-1.17	17.4	-1.41	2.3	35.5	47	185		12.8	7.2	-8.3	20.1	30	44	-0.12	0.24	-1.45	8	6
SF 210085		PSS 166077 SF 170022	132	84	95	92	104	95	87	91	129	84	124	95	87	108	98		106	88	107	95	105	95	90	92	85	16	
CHIEFTAIN 2ND			82	72	49	24	30	44	34	42	-1.54	7.6	-0.59	4.8	18.8	34	104		16.7	8.0	-7.5	21.7	22	26	-1.52	-0.71	-1.98		
SWM 120011		JRE 060061 SWM 060604	98	118	105	89	100	117	107	114	98	118	105	105	116	111	109		106	82	105	98	111	114				24	20
LIMO			88	86	72	34	54	62	22	54	1.29	24.3	0.21	7.9	43.4	37	159		16.5	13.0	-7.1	23.6	27	50				2	11
TL 080038		LP 030003 TL K 0023	101	101	98	113	92	102	105	101	101	101	96	98	106	87	112	110	110	108	89	92	105	112				122	106
TL0838			96	94	90	39	71	74	27	65	0.99	16.0	0.61	5.5	35.4	12	178	-114	18.6	-8.4	-3.0	19.2	23	47				28	121
TL 120064		TL 070053 TL 030156	95	113	84	82	73	89	125	95	95	113	100	84	111	118	125		106	98	71	93	119	121	122	113	110	35	33
TL 120064			91	90	77	24	59	63	27	56	1.53	22.0	0.42	1.4	39.0	45	244		16.6	0.1	1.1	20.1	33	59	2.36	1.91	0.21	6	20
TZ 120194		GA 050081 TZ 070090	79	96	79	121	84	75	101	78	79	96	107	79	90	79	103		88	78	89	85	101	96				47	47
COLORADO 110DE			92	92	80	44	62	69	28	61	2.93	13.6	0.16	-0.3	21.2	4	128		7.9	16.1	-3.1	14.0	19	27				9	34

Sires

Bull			Selection Values							Calf		Dam		Growth				Fertility				Frame		Carcass			Measured Progeny		
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	EMA	Fat	Marbling	Birth Grwth Test	Wean Dgt/Calvs.
TZ 150052		GA 120050 TZ 120040	83	103	100	107	74	91	95	90	84	103	94	100	100	93	104	106	113	90	75	93	88	89				50	48
PLUTO 1STE			91	91	80	20	58	63	38	58	2.48	17.1	0.71	6.1	29.6	19	134	-105	19.8	6.8	0.2	19.7	10	19				16	29
TZ 180018		GA 110001 TZ 110038	79	136	95	71	131	120	105	116	79	136	104	95	135	129	117	121	139	116	130	111	109	113				114	106
PEARL 3DE			92	91	70	29	52	61	40	57	2.94	33.1	0.25	4.7	59.8	56	205	-143	32.4	-14.6	-12.9	32.5	26	48				9	9
TZ 200057		GMO 170065 TZ 170121	100	121	107	87	77	116	129	118	100	121	97	107	124	113	124		140	91	78	104	119	117				64	37
TARZAN			88	87	55	14	33	48	34	45	1.09	25.6	0.58	8.4	50.6	39	238		33.1	6.0	-0.5	27.4	33	54					
											91	87	53	55	63	14	59		69	40	26	52	71	67					

Growth Tests

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

Animal				Cow Value	Weight		Frame				Growth				Carcass			
Test Code	Sex	Test no	Sire ID		Wean dir	End- weight	Length	Height	Length/ Height	Scrotum	Intake	ADG	FCR	Growth Value	EMA	Fat	Marbling	Carcass Value
Test station		ID	Dam ID															
202202	D11	M	0087240SSX															
SKIETLAAGTE FARMS PTY LTD		SF 210085 93755601	PSS 166077 SF 170022	95	84	96	95	105	81	106		98		87	90	92	85	93
				44	72	26 68	26 67	22 71	1.17 69	16.7 69		104 59		34	-1.52 25	-0.71 22	-1.98 21	24

Breeding Values and Accuracies: Bulls

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

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
ID Number Name																														
JA 210029 91781401 DRAAD 3DE	6	JA 180004 JA 140002	102 85	99 82	94 50	98 25	87 27	92 45				101 0.99 88	107 0.12 52	102 28 25	99 14.7 82	94 4.4 50	94 61 52		99 28.8 64											
SF 210085 93755601 CHIEFTAIN 2ND		PSS 166077 SF 170022	132 82	84 72	95 49	92 24	104 30	95 44	87 34	91 42	93 24	129 -1.54 85	124 -0.59 49	108 34 24	84 7.6 72	95 4.8 49	82 34 48		87 18.8 61	98 104 59										
GMO 230049 96262423 RUSTY	1	JRE 190098 GMO 200014	99 72	81 71	104 40	128 14	75 28	86 39				100 1.08 74	90 0.85 42	72 -4 14	81 6.1 71	104 7.5 40	100 75 42		80 12.6 49	87 43 29										
GMO 240017 97453997 CHARMER	2	JA 210029 GMO 200043	104 71	86 70	79 40	107 12	102 24	76 37				102 0.92 74	112 -0.05 40	93 19 12	86 8.5 70	79 -0.4 40	75 18 41		84 15.7 47	94 79 10										
GMO 240024 97454060 TRAFALGAR 2	2	JA 210029 GMO 180043	99 72	93 70	88 43	106 12	81 26	82 38				98 1.26 74	109 0.05 42	94 20 12	93 11.9 70	88 2.5 43	88 46 42		91 21.7 48	100 115 8										
GMO 240027 97454094 KINGMAN	2	JA 210029 GMO 180004	95 72	97 70	92 44	99 12	86 26	85 38				95 1.57 74	105 0.23 45	101 27 12	97 13.7 70	92 3.8 44	91 55 42		93 23.9 49											
GMO 240034 98745524 BRUNO	6	JA 210029 GMO 160049	101 72	98 70	83 44	101 9	75 26	82 38				100 1.12 74	111 -0.03 45	99 24 9	98 14.4 70	83 0.8 44	86 42 41		98 28.1 49											
GMO 240037 98745425 DIESEL	2	GMO 210084 GMO 220001	91 70	95 70	86 39		99 22					91 1.91 73	101 0.40 38		95 12.9 70	86 1.9 39	90 51 37		92 22.9 46	96 91 14										
GMO 240041 98745433 ESPRESSO	3	JA 210029 GMO 180024	97 72	99 70	96 43	99 10	76 25	89 37				97 1.40 74	101 0.38 42	101 27 10	99 15.0 70	96 5.0 43	96 66 41		97 27.7 48	107 151 12										
GMO 240044 98745466 SPECKLE	2	JA 210029 GMO 190031	101 72	98 70	88 44	102 13	109 25	93 38				99 1.15 74	111 -0.03 44	98 24 13	98 14.5 70	88 2.5 44	90 52 42		96 26.2 48	102 125 11										
GMO 240045 98745474 HERSHEY	2	JA 210029 GMO 150025	100 72	93 71	92 48	106 12	84 27	86 39				99 1.18 74	104 0.26 47	94 19 12	93 12.0 71	92 3.8 48	91 54 44		92 23.0 50	101 121 6										
GMO 240053 98745409 MAVERICK	2	GMO 210084 GMO 210050	84 70	118 70	97 38		101 22					85 2.45 73	99 0.50 38		118 24.6 70	97 5.4 38	108 92 37		118 45.4 46	112 177 14										

Green: >120 High
White: 80-120 Average
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Breeding values with an accuracy < 5% are not printed

ORPEN 446259

Breeding Values and Accuracies: Bulls

Green: >120 High
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Inbreeding in red is high

Value <80 Value >120

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
GMO 250016 6020462914 BOUNCER	4	TZ 200057 GMO 160062	97 73	107 58	103 47		71 28					98 1.30 75	96 0.59 46		107 19.0 58	103 7.1 47	108 93 36		108 36.9 43	111 172 31		114 20.6 37	103 -4.1 36	68 1.9 19	104 27.8 39	106 24 37	104 37 35		
GMO 250018 6020454804 STRONGMAN	3	TZ 200057 GMO 200064	97 71	108 56	98 40		88 24					97 1.40 74	99 0.47 41		108 19.4 56	98 5.5 40	105 85 33		107 35.8 38	109 163 28		114 20.5 34	109 -8.7 32	85 -2.1 16	107 29.5 35	106 24 35	105 38 33		
GMO 250019 6020462930 GALLANT	2	TZ 200057 GMO 180003	103 73	102 58	104 45	96 8	81 28	100 35				103 0.83 75	98 0.52 45	104 30 8	102 16.4 58	104 7.3 45	103 81 37		102 31.4 43	110 166 30		115 21.1 36	101 -2.5 35	79 -0.7 20	99 24.0 37	107 24 37	105 38 35		
GMO 250024 6020462963 SATURN	8	TZ 200057 GMO 160018	116 73	110 58	109 45		81 22					115 -0.25 75	100 0.45 44		110 20.3 58	109 9.0 45			116 43.6 38	122 229 25		125 25.6 33	100 -1.7 32	79 -0.7 11	103 26.8 37	120 34 34	119 56 31		
GMO 250026 6020462989 MONSTERMAN	1	SF 210085 GMO 210080	110 70	99 50	100 36	89 12	112 24	102 31				108 0.36 73	110 0.01 38	111 38 12	99 14.7 50	100 6.3 36	95 63 33		99 28.7 39	103 131 33		110 18.8 39	107 -7.1 33	111 -8.3 16	103 26.7 34	104 22 40	101 33 38		
GMO 250028 6020454796 ARMSTRONG	3	TZ 200057 GMO 200049	97 71	113 56	106 40		92 24					98 1.32 74	95 0.66 41		113 22.0 56	106 8.1 40	114 108 33		115 43.2 38	114 190 28		121 23.7 34	102 -2.7 32	90 -3.4 16	107 29.6 34	114 29 35	111 46 33		
GMO 250029 6020462567 BUSBY	2	JA 210029 GMO 220013	83 71	110 53	98 33	107 12	88 20	99 30				84 2.54 74	97 0.57 38	93 19 12	110 20.4 53	98 5.5 33	109 95 33		108 36.8 40	103 130 11		105 16.0 16	97 0.8 32	88 -2.8 9	107 29.5 33	100 19 17	102 35 15		
GMO 250030 6020462575 CARLOS	2	JA 210029 GMO 220049	96 71	108 54	95 35	95 11	106 22	103 31				96 1.45 74	103 0.30 39	105 31 11	108 19.5 54	95 4.8 35	101 77 33		109 37.5 40	104 136 12		107 17.3 17	108 -7.6 33	105 -6.9 12	109 31.2 34	100 19 17	102 35 16		
GMO 250034 6020462609 APOLLO	2	TZ 200057 GMO 190018	100 72	108 57	97 42		71 26					99 1.14 74	102 0.35 42		108 19.5 57	97 5.3 42	104 83 34		109 38.0 40	108 157 29		109 18.2 35	95 2.9 33	70 1.4 18	106 29.4 36	105 23 36	102 35 34		
GMO 250038 6020462633 JUMBO	4	TZ 200057 GMO 140040	95 73	109 59	89 49		104 26					95 1.55 75	104 0.25 48		109 20.0 59	89 2.8 49	100 74 37		107 36.3 42	110 166 29		114 20.5 35	106 -6.4 34	103 -6.4 18	104 27.6 39	107 24 35	104 37 32		
GMO 250041 6020462682 TITAN	1	SF 210085 GMO 160019	116 72	100 53	99 46	92 14	109 27	106 35				114 -0.13 74	111 -0.04 45	108 34 14	100 15.3 53	99 6.1 46	96 67 38		101 30.9 41	103 128 31		104 15.7 37	100 -1.4 35	110 -8.2 19	102 26.3 38	106 24 37	102 34 35		
GMO 250042 6020462666 JOLLYBOY	3	JA 210029 GMO 220017	103 71	90 54	97 32	113 11	79 20	88 30				102 0.88 74	102 0.34 37	87 12 11	90 10.4 54	97 5.4 32	95 64 32		89 20.8 40			89 8.6 11	100 -1.3 32	77 -0.2 8	107 30.1 32	92 13 12	93 23 10		

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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID		Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																														
GMO 250047 6020462724 HOOCH	2	TZ 200057 GMO 180049		105 73	109 58	103 45	98 7	96 27	111 35				105 0.68 75	96 0.63 45	102 28 7	109 19.8 58	103 7.3 45	109 95 37	113 40.8 41	109 163 32		114 20.6 38	99 -0.5 35	96 -4.9 19	100 24.9 38	108 25 39	107 40 37			
GMO 250049 6020462740 MUSCLEMAN	2	JA 210029 GMO 220036		93 71	111 54	96 36	90 11	101 22	102 31				93 1.72 74	106 0.20 39	110 37 11	111 21.0 54	96 5.1 36	102 79 34	110 38.8 40	109 159 12		114 20.3 16	108 -7.8 33	99 -5.5 12	110 32.0 34	105 22 16	106 40 15			
GMO 250052 6020462773 SEBASTIAN	2	TZ 200057 GMO 180029		91 73	113 59	95 45	100 10	98 27	105 36				91 1.89 75	100 0.43 45	100 25 10	113 21.7 59	95 4.8 45	107 90 38	112 40.5 43	116 196 32		120 23.3 37	99 -0.7 34	98 -5.4 20	99 23.9 40	112 28 38	110 44 36			
GMO 250055 6020462815 SHIRLOCK	1	SF 210085 GMO 180056		112 72	101 52	97 43	98 12	98 26	103 34				110 0.19 74	109 0.07 43	102 28 12	101 16.1 52	97 5.3 43	98 71 36	104 33.1 40	104 136 30		106 16.5 35	93 4.1 34	99 -5.6 19	100 24.9 36	107 24 36	102 34 34			
GMO 250056 6020462823 MAGNUM	2	GMO 220063 GMO 150003		99 71	89 52	77 44	121 6	82 26	75 32				98 1.31 73	108 0.09 44	79 4 6	89 9.8 52	77 -0.8 44	81 32 34	86 17.4 39	89 57 10		81 4.5 14	102 -3.0 34	80 -0.9 19	101 25.9 38	87 9 14	84 11 13			
GMO 250057 6020462799 OXFORD	1	SF 210085 GMO 180063		108 72	96 53	94 44	101 15	99 28	96 35				106 0.52 74	112 -0.08 43	99 25 15	96 13.6 53	94 4.4 44	93 59 37	97 26.9 42	105 138 32		105 16.3 38	93 4.5 35	101 -6.0 21	97 23.0 37	107 24 38	102 34 36	98 -0.56 5		
GMO 250059 6020462849 MISTER	3	TZ 200057 GMO 150052		95 73	103 59	104 48		92 26					96 1.49 75	95 0.66 47		103 17.2 59	104 7.5 48	106 88 37	102 31.8 42	109 162 30		114 20.3 37	107 -7.5 34	90 -3.3 18	102 26.4 39	106 24 37	104 37 34			
GMO 250060 6020462856 NEPTUNE	6	TZ 200057 GMO 190003		89 73	117 58	102 45		87 25					90 2.03 75	95 0.67 45		117 24.1 58	102 6.9 45	115 109 35	118 45.3 41	114 190 32		124 25.1 38	95 2.8 34	88 -2.8 16	104 27.8 37	106 24 39	106 40 37			
GMO 250061 6020462518 SATURN	7	TZ 200057 GMO 190001		105 73	102 55	101 45		98 24					105 0.67 75	100 0.44 45		102 16.6 55	101 6.4 45		104 33.7 40	111 172 32		117 21.7 38	104 -5.0 33	97 -5.0 16	104 27.4 37	102 20 39	101 33 36			
GMO 250063 6020462534 AMSTEL	7	TZ 200057 GMO 190005		90 73	119 57	103 44		86 24					91 1.88 75	95 0.65 45		119 25.1 57	103 7.2 44		122 48.5 40	116 200 32		125 25.5 38	91 5.5 33	87 -2.7 16	100 25.2 37	109 26 39	107 41 36			
GMO 250064 6020462542 LION	2	GMO 220063 GMO 160022		95 71	95 53	85 46	115 7	99 27	86 34				94 1.59 73	104 0.28 45	85 11 7	95 12.8 53	85 1.6 46	90 52 35	93 24.2 38	96 95 12		90 8.8 15	104 -4.9 35	98 -5.2 19	108 30.6 38	95 15 14	92 21 13			
GMO 250065 6020469505 SABLE	3	TZ 200057 GMO 190029		100 73	107 58	100 45	95 6	102 26	105 34				100 1.12 75	98 0.52 44	105 31 6	107 19.1 58	100 6.1 45	103 83 36	108 37.1 40	113 184 32		123 25.0 39	96 1.7 34	104 -6.6 18	105 28.7 37	112 28 39	109 44 37			

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Green: >120 High
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Animal				Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass				
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling		
ID Number Name																															
GMO 250067 6020469489 STRONGARM	1	SF 210085 GMO 200060	124 70	88 51	93 39	104 10	118 24	100 31				121 -0.79 73	114 -0.17 40	96 22 10	88 9.5 51	93 4.2 39	87 46 33	90 21.2 38	99 108 28			101 14.1 34	107 -7.3 32	118 -10.0 16	102 26.4 33	102 20 34	96 27 32				
GMO 250069 6020469521 SOLAR	1	SF 210085 GMO 190031	116 71	91 53	89 44	102 14	117 26	95 34		93 14		113 -0.03 73	118 -0.34 43	98 23 14	91 10.8 53	89 2.7 44	85 41 37	89 20.7 41	96 93 33			102 14.5 39	98 -0.2 34	119 -10.2 19	102 26.0 36	99 18 40	93 23 37	97 -0.65 16	96 -0.20 13	96 -0.97 12	
GMO 250071 6020469547 JONAH	1	SF 210085 GMO 160049	119 72	93 53	86 44	97 13	84 29	88 35				116 -0.34 74	119 -0.35 44	103 29 13	93 11.9 53	86 1.8 44	83 36 37	95 26.0 42	98 102 30			98 12.6 36	79 15.9 36	89 -3.1 22	98 23.5 38	101 20 37	95 26 35	94 -0.99 5			
GMO 250072 6020469414 MORNE	3	GMO 220063 GMO 160017	101 71	100 53	95 46	109 5	107 26	101 33				101 1.02 73	101 0.40 45	91 16 5	100 15.6 53	95 4.6 46	100 75 35	100 30.0 36	103 129 11			96 11.9 15	102 -2.9 34	107 -7.4 18	106 29.4 37	100 19 13	98 30 11				
GMO 250073 6020469422 MUSICA	3	TZ 200057 GMO 190019	95 73	114 57	96 43	101 5	92 26	107 33				95 1.54 75	100 0.44 44	99 25 5	114 22.4 57	96 5.0 43	108 94 35	115 43.1 40	108 156 29			109 18.1 35	99 -0.3 33	92 -3.7 18	105 28.7 37	103 21 35	102 34 33				
GMO 250074 6020469430 MANGO	1	SF 210085 GMO 210036	107 71	108 52	93 40	86 12	113 25	105 33				105 0.65 73	113 -0.13 41	114 41 12	108 19.5 52	93 4.1 40	96 65 35	110 38.4 40	106 143 33			113 20.0 39	100 -1.7 34	114 -9.0 16	105 28.1 34	107 24 40	103 36 38				
GMO 250078 6020469471 JACK	5	TZ 200057 GMO 190072	88 73	119 57	99 43		84 24					89 2.12 75	100 0.43 43		119 24.9 57	99 5.9 43	111 101 34	118 45.6 40	117 205 32			127 26.7 38	95 3.0 33	84 -1.9 16	104 27.7 36	113 29 39	111 46 37				
GMO 260002 6020454119 ROCKETMAN	2	JA 210029 GMO 210055	97 56	104 54	93 39	100 10	94 22	96 31				97 1.40 58	103 0.30 38	100 26 10	104 17.6 54	93 3.9 39	98 70 34	104 33.7 40					100 -1.4 32	93 -4.2 12	108 30.8 34						
GMO 260004 6020454135 MAN UTD	2	JA 210029 GMO 200043	98 58	101 55	80 40	98 12	104 24	87 33				97 1.36 59	112 -0.06 40	102 27 12	101 15.7 55	80 0.1 40	85 40 36	99 29.0 40	101 121 10			102 14.6 15	101 -2.0 33	104 -6.6 16	106 29.0 36	98 17 16	99 31 14				
GMO 260006 6020484793 BERTRAM	3	JA 210029 GMO 190050	101 58	96 56	101 42	105 11	88 26	96 34				101 1.00 59	99 0.49 42	95 20 11	96 13.6 56	101 6.6 42	100 76 36	97 27.6 42	102 126 11			103 15.1 16	103 -3.5 35	86 -2.4 16	105 28.3 37	94 15 16	97 28 15				
GMO 260010 6020454184 JUMPER	2	JA 210029 GMO 150028	97 60	103 58	100 48	99 12	97 28	100 36				96 1.42 61	103 0.30 47	101 27 12	103 17.1 58	100 6.1 48	102 80 39	103 32.8 44	108 156 6			105 16.2 10	101 -2.1 37	96 -4.9 18	106 29.4 40	109 26 10	107 41 9				
GMO 260013 6020454218 MANFRED	2	JA 210029 GMO 170006	105 58	91 56	106 46	105 12	88 26	95 35				105 0.65 59	93 0.73 45	95 20 12	91 10.9 56	106 8.0 46	100 74 38	93 24.0 43				96 11.7 8	124 -21.2 36	80 -0.9 17	110 32.0 38	96 16 9	97 28 7				

Breeding Values and Accuracies: Bulls

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

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal			Selection Values									Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
GMO 260016 6020454242 MARTAIN	2	JA 210029 GMO 220045	93 56	109 54	92 36	96 11	107 22	101 31				93 1.72 58	105 0.24 37	104 30 11	109 20.1 54	92 3.7 36	100 74 34	109 37.7 40	107 148 11		109 17.8 16	106 -6.5 33	106 -7.3 11	111 33.0 34	100 19 16	102 34 14			
GMO 260018 6020454267 BUSTER 2	2	JA 210029 GMO 210037	95 57	109 54	100 40	93 12	105 24	105 32				95 1.58 58	101 0.41 40	107 33 12	109 19.8 54	100 6.2 40	104 84 35	109 37.3 40	106 147 10		110 18.7 15	107 -7.1 34	103 -6.5 15	112 33.0 36	101 20 16	102 35 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		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calv Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
GMO 140040 80795206 CARLEIGH	3	GMO 060050 GMO 100002	95 84	95 80	73 82	118 12	131 48	86 55				94 1.61 84	112 -0.07 80	82 7 12	95 12.8 80	73 -2.3 82	81 31 58	89 20.1 57	96 94 21		88 8.0 26	121 -18.7 58	127 -12.3 37	104 27.7 60	95 15 17	90 20 15			
GMO 140056 80794803 SABRA	2	TL 080038 GMO 080021	97 83	99 81	83 82	121 18	97 54	92 59				97 1.33 83	94 0.68 79	79 4 18	99 15.0 81	83 1.0 82	94 62 60	101 30.7 62	94 83 24		86 7.1 27	109 -8.8 65	94 -4.3 43	102 26.3 64	94 14 27	91 21 26			
GMO 150003 81743353 ADDIE	2	MS 100028 GMO 050001	100 82	87 78	63 77	130 19	65 50	63 56				97 1.32 82	118 -0.32 77	70 -5 19	87 8.9 78	63 -5.4 77	70 7 58	82 14.0 63	76 -15 21		66 -2.5 23	103 -3.7 60	61 3.7 41	93 19.6 63	75 0 23	71 -5 23			
GMO 150005 81743379 JULES	2	MS 100028 GMO 060035	86 82	86 79	60 79	126 21	80 52	56 57				86 2.35 82	103 0.33 78	74 -1 21	86 8.5 79	60 -6.4 79	66 -4 60	80 12.7 64	76 -13 23		52 -9.3 26	115 -13.6 61	74 0.5 42	87 15.7 61	68 -5 26	67 -10 25			
GMO 150024 82392432 RONELL	1	TL 080038 GMO 100063	91 84	97 81	107 82	112 19	104 52	102 58				94 1.64 84	80 1.30 80	88 13 19	97 14.1 81	107 8.3 82	108 94 61	100 30.1 61	106 147 28		101 14.1 31	111 -10.0 62	101 -6.0 43	105 28.3 63	106 24 29	104 37 28			
GMO 150028 82392473 MALIFICIENT	2	TZ 120194 GMO 120024	91 84	108 81	105 83	100 21	107 52	109 59				92 1.84 84	99 0.47 80	100 26 21	108 19.6 81	105 7.8 83	110 99 62	108 36.8 61	112 178 27		107 17.1 29	103 -4.1 64	106 -7.3 41	103 26.7 62	120 34 29	113 49 28			
GMO 150033 82402488 UDA	2	TL 080038 GMO 080073	91 83	116 80	93 81	95 26	88 54	103 60				91 1.93 83	103 0.32 79	105 31 26	116 23.6 80	93 4.0 81	105 87 62	118 45.2 61	111 173 25		106 16.5 28	112 -10.8 63	84 -1.9 44	107 29.6 62	116 31 28	114 49 27			
GMO 150034 82400391 UMNIYA	2	MS 120012 GMO 060028	92 83	99 80	109 80	103 15	81 52	97 57				94 1.63 83	86 1.02 79	97 22 15	99 14.7 80	109 9.0 80	107 92 58	97 27.3 60	106 143 27		99 13.5 31	112 -11.4 65	76 0.1 40	100 24.9 62	105 23 28	101 33 27			
GMO 150043 83498378 BARBIE	1	MS 100028 GMO 120052	103 83	89 80	86 80	117 20	88 52	84 58				102 0.89 83	106 0.18 79	83 8 20	89 10.0 80	86 2.0 80	87 46 60	90 21.3 62	94 79 19		86 6.8 22	108 -7.7 62	84 -2.0 43	96 21.7 63	94 14 22	90 20 21			
GMO 150052 83412114 CUP CAKE	2	MS 120012 GMO 090043	98 83	81 80	104 81	110 14	107 49	87 56				98 1.24 83	93 0.75 79	90 15 14	81 6.2 80	104 7.5 81	93 58 58	77 10.1 60	95 85 27		87 7.5 31	124 -21.1 59	101 -6.0 39	101 25.3 60	94 14 28	90 20 27			
GMO 150056 83412411 ADDY	2	MS 120012 GMO 090045	97 82	89 79	99 79	109 14	70 50	82 55				98 1.30 82	94 0.69 78	91 17 14	89 9.7 79	99 5.8 79	94 60 57	85 16.8 59	93 74 23		83 5.4 27	106 -6.3 61	65 2.5 38	104 27.6 59	88 10 26	87 16 25			
GMO 150061 89988232 GMO 150061	3	MS 120012 GMO 050049	104 83	86 74	114 81	97 14	94 52	94 55				104 0.72 83	95 0.67 79	103 29 14	86 8.5 74	114 10.7 81	99 73 56	82 14.6 56	101 118 23		92 10.1 27	127 -23.1 63	86 -2.4 40	102 26.2 61	100 19 27	100 33 26			

Breeding Values and Accuracies: Cows

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Animal			Selection Values									Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calv Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
GMO 150063 83411918 SUGAR & SPICE	2	MS 120012 GMO 080026	89 82	94 80	102 81	105 15	92 50	89 56				90 1.96 82	95 0.66 78	95 20 15	94 12.4 80	102 6.9 81	99 73 59	88 19.9 59	98 105 27		93 10.4 30	119 -17.0 61	85 -2.3 39	100 25.2 60	98 17 28	96 27 26			
GMO 150071 83412130 CLARISE	3	TL 120064 GMO 060011	103 82	104 79	104 79	97 13	88 50	104 55				102 0.88 82	100 0.44 76	103 29 13	104 17.5 79	104 7.4 79	105 86 57	104 33.1 58	113 181 28		104 15.5 31	113 -11.8 59	83 -1.7 40	100 24.9 60	111 27 31	111 46 30			
GMO 150074 83412106 MERIEKE	2	MS 120012 GMO 070001	106 82	97 79	99 79	97 15	82 50	94 56				106 0.59 82	101 0.38 77	103 29 15	97 13.8 79	99 6.0 79	96 66 58	96 26.6 58	100 111 25		85 6.5 29	105 -5.5 62	79 -0.8 38	94 20.6 61	93 14 29	95 25 28			
GMO 150079 83411942 ANNA	2	MS 120012 GMO 050060	96 82	93 75	109 81	105 16	78 53	93 56				97 1.39 82	94 0.70 78	95 20 16	93 11.8 75	109 9.1 81	104 84 57	91 21.7 58	97 100 27		94 11.1 30	119 -17.1 65	71 1.2 41	105 28.7 62	96 16 30	95 25 29			
GMO 160006 83411868 MAGIC	2	MS 120012 GMO 110043	104 78	90 74	108 69	101 16	80 50	93 53				105 0.65 79	91 0.81 71	99 25 16	90 10.6 74	108 8.8 69	100 74 53	90 20.9 57	99 108 23		97 12.3 27	118 -15.7 60	74 0.5 39	97 22.7 58	98 17 27	95 26 25			
GMO 160017 85701886 FAYBEE	4	SWM 120011 GMO 050036	100 83	113 80	96 81	107 16	114 50	115 56				100 1.11 83	103 0.29 80	93 19 16	113 21.8 80	96 4.9 81	110 97 59	113 40.8 57	103 129 23		97 12.2 28	102 -3.5 62	115 -9.3 38	102 26.5 61	100 19 24	100 33 22			
GMO 160018 85701894 FANCY	4	TL 120064 GMO 130033	93 80	125 77	97 75	88 14	84 49	111 54				92 1.77 81	105 0.24 74	112 38 14	125 27.6 77	97 5.2 75	111 101 55	126 52.1 56	120 220 25		109 18.0 28	110 -9.4 61	80 -0.9 37	102 26.2 60	120 34 28	120 58 27			
GMO 160019 85701282 USEFUL	1	SWM 120011 GMO 100017	92 82	119 78	101 78	91 17	115 48	116 55				92 1.81 82	99 0.49 76	109 35 17	119 25.0 78	101 6.7 78	112 103 58	118 45.5 55	107 153 23		102 14.6 26	111 -10.8 59	113 -8.9 37	109 30.9 60	108 25 27	108 42 26			
GMO 160033 85701274 CANDICE	1	TZ 120194 GMO 060013	89 83	101 80	90 79	120 22	94 50	94 57				89 2.08 83	102 0.35 78	80 5 22	101 16.2 80	90 3.1 79	101 78 60	98 28.3 59	96 90 29		89 8.2 31	105 -5.5 61	93 -4.0 40	103 27.2 60	96 16 31	92 22 31			
GMO 160034 85701332 ZEST	1	MS 100028 GMO 100062	85 83	111 81	87 81	107 19	101 52	97 58				85 2.41 83	103 0.31 78	93 19 19	111 20.8 81	87 2.3 81	101 78 60	111 39.2 64	100 113 22		97 12.1 25	111 -10.7 62	98 -5.3 42	105 28.5 62	100 19 22	99 30 21			
GMO 160049 85701340 BEAUTY 2	2	MS 100028 GMO 110035	93 80	109 77	72 74	101 18	64 52	80 56				92 1.79 81	113 -0.12 74	99 24 18	109 19.7 77	72 -2.3 74	86 43 56	109 37.5 59	98 101 18		89 8.5 21	69 23.9 62	70 1.4 42	101 25.3 61	98 17 21	95 26 20			
GMO 160062 85701464 SOPHIE	2	MS 120012 GMO 080012	96 82	93 79	99 78	113 15	65 50	86 55				97 1.39 82	96 0.61 77	87 12 15	93 11.8 79	99 5.9 78	99 73 57	92 22.6 62	99 106 28		88 8.1 31	116 -14.3 62	58 4.4 39	105 28.2 61	94 14 28	90 19 27			

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Animal			Selection Values									Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
GMO 170006 86732047 CINDY	2	MS 120012 GMO 110026	107 80	83 78	117 77	112 15	88 50	98 55				109 0.30 80	79 1.33 74	88 13 15	83 7.1 78	117 11.6 77	106 88 57	87 19.1 60	96 94 23		89 8.2 27	150 -42.3 62	72 0.8 38	110 31.9 59	92 13 27	92 23 26			
GMO 170011 86732278 SENDER	2	MS 120012 GMO 070018	103 80	89 76	103 71	112 16	95 49	94 53				104 0.76 80	93 0.75 74	88 14 16	89 9.9 76	103 7.1 71	98 71 54	90 21.0 58	94 84 24		88 8.1 27	141 -35.1 61	83 -1.6 37	107 29.7 58	97 17 27	92 22 26			
GMO 170047 86731197 FABULOUS	2	MS 120012 GMO 120006	96 83	95 79	107 77	105 17	120 50	102 56				97 1.36 83	91 0.81 78	95 21 17	95 12.8 79	107 8.3 77	103 82 58	94 24.8 62	103 127 25		91 9.2 28	152 -43.6 62	107 -7.3 37	111 32.6 61	96 16 27	98 29 26			
GMO 180003 88643705 CYPRUS	2	MS 120012 GMO 120015	100 80	88 77	98 74	104 14	84 50	83 54				100 1.12 81	100 0.45 73	96 21 14	88 9.3 77	98 5.5 74	91 53 55	82 14.7 60	96 94 22		90 9.1 25	112 -11.0 60	80 -0.9 39	94 20.5 53	96 16 25	93 23 24			
GMO 180004 88643713 UNICE	3	MS 120012 GMO 110042	94 80	91 77	94 74	104 15	84 50	81 54				94 1.64 81	100 0.42 74	96 22 15	91 10.8 77	94 4.4 74	90 52 55	85 16.7 58	95 90 24		90 8.8 27	112 -10.9 61	79 -0.7 40	98 23.2 53	95 15 27	91 20 26			
GMO 180015 88643747 CYNTHIA	1	NJB 150002 GMO 110049	87 79	111 77	106 73	90 17	112 46	108 53				89 2.08 80	90 0.87 72	110 36 17	111 20.7 77	106 8.1 73	109 95 56	112 40.0 55	110 167 32		107 16.9 37	90 6.9 57	116 -9.5 36	97 22.7 55	111 27 38	114 49 36			
GMO 180024 88643796 CAFTAN	3	TZ 150052 GMO 150035	88 78	106 77	99 72	100 11	65 46	91 52	104 20	91 46		89 2.11 79	94 0.68 68	100 26 11	106 18.3 77	99 5.8 72	103 83 53	102 31.7 54	109 163 35		107 17.0 40	91 5.6 57	65 2.7 35	100 25.2 55	104 22 40	101 34 39			
GMO 180026 88643804 UNDEEN	3	NJB 150002 GMO 100017	94 80	107 77	90 73	99 17	109 48	99 54				94 1.62 81	102 0.37 73	101 27 17	107 18.9 77	90 3.0 73	97 68 56	106 35.3 55	101 120 32		94 10.8 37	111 -10.0 58	107 -7.4 37	97 22.6 56	99 18 38	100 32 36			
GMO 180029 89987390 ZOEY	2	TZ 120194 GMO 120013	80 81	106 77	83 74	114 24	119 49	93 56				81 2.80 81	104 0.28 75	86 12 24	106 18.2 77	83 1.1 74	97 68 58	101 30.8 58	108 154 29		100 13.6 31	107 -7.5 59	119 -10.2 39	94 20.5 59	104 22 32	102 34 31			
GMO 180043 88643911 JUSTINE	3	TZ 120194 GMO 080073	83 78	105 76	80 70	108 21	75 48	80 54				83 2.66 79	111 -0.01 67	92 17 21	105 17.7 76	80 0.1 70	92 56 56	99 28.8 56	103 129 30		90 8.8 32	94 3.2 59	75 0.3 38	96 21.9 59	110 26 32	101 34 31			
GMO 180049 88643937 FIESTY	2	NJB 150002 GMO 080021	102 80	102 78	97 74	109 15	115 48	106 54				102 0.93 81	95 0.66 74	91 17 15	102 16.3 78	97 5.4 74	103 82 56	105 34.0 56	95 87 32		88 8.1 37	107 -7.0 60	114 -9.2 37	96 22.4 55	98 17 37	96 27 35			
GMO 180051 88643945 TRISH	2	TZ 120194 GMO 140051	84 81	102 76	86 68	116 16	118 47	93 52				85 2.45 82	98 0.54 74	84 10 16	102 16.2 76	86 1.7 68	96 66 53	98 28.2 55	101 121 26		89 8.5 28	109 -9.0 58	116 -9.7 36	89 16.9 58	103 21 27	96 28 26			

Breeding Values and Accuracies: Cows

Green: >120 High
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Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
GMO 180056 88643465 HARRIET	3	GMO 130011 GMO 090045	91 79	118 77	99 72	104 8	92 46	112 51				92 1.78 80	93 0.72 71	96 22 8	118 24.1 77	99 6.0 72	115 108 52	120 46.7 50	110 169 13		105 16.3 17	98 0.2 56	91 -3.7 35	105 28.2 54	108 25 15	108 42 14			
GMO 180063 88643531 TINY	2	TZ 120194 GMO 140059	82 80	109 77	93 73	110 22	94 48	97 55				83 2.63 81	100 0.43 72	90 15 22	109 19.7 77	93 3.9 73	105 87 57	106 35.3 57	111 172 29		105 16.0 31	97 1.1 59	95 -4.5 38	99 24.3 57	110 27 31	108 43 30			
GMO 180064 88643549 CUTIE	1	GMO 130011 GMO 080069	86 80	110 77	93 72	108 13	129 47	107 52				87 2.23 81	96 0.59 72	92 18 13	110 20.3 77	93 4.1 72	106 88 54	109 37.4 52	110 165 23		107 17.2 27	118 -16.3 57	127 -12.1 37	104 27.4 57	107 24 23	105 38 22			
GMO 180065 88643556 CUPIDO	2	TZ 120194 GMO 120006	88 80	103 77	100 73	111 23	106 49	101 55				89 2.03 81	95 0.67 72	89 15 23	103 17.0 77	100 6.1 73	107 90 58	104 33.0 59	110 167 29		96 11.7 31	101 -1.9 59	106 -7.3 39	104 27.4 59	106 23 31	105 39 30			
GMO 190001 88658505 SUPERGIRL	2	TZ 150052 GMO 090029	102 80	90 69	91 73	114 12	119 48	93 51	91 20	90 45		102 0.96 81	104 0.29 73	86 11 12	90 10.2 69	91 3.4 73	90 53 51	89 20.1 54	98 105 36		93 10.4 41	118 -16.1 58	116 -9.5 38	104 27.5 56	85 8 40	84 12 38			
GMO 190003 88658554 LUSH	2	TZ 150052 GMO 130076	87 79	108 76	101 73	112 12	97 48	105 52				89 2.12 80	92 0.78 73	88 13 12	108 19.4 76	101 6.5 73	112 103 54	107 36.2 55	105 141 33		107 17.1 38	99 -0.4 59	97 -5.0 36	105 28.3 56	94 14 38	95 26 36			
GMO 190005 88658588 BAMBIE	4	TZ 150052 GMO 080012	80 79	119 75	99 70	109 12	95 48	110 52	102 20	107 46		82 2.70 80	93 0.72 73	91 17 12	119 24.7 75	99 6.0 70	118 116 52	119 46.5 57	109 161 36		109 18.0 41	92 5.0 58	96 -4.9 37	97 22.9 55	100 19 39	97 28 37			
GMO 190010 88658380 LAMBIE	2	TZ 150052 GMO 140056	85 70	108 75	94 69	114 12	79 47	95 51				86 2.32 70	89 0.89 68	86 12 12	108 19.2 75	94 4.4 69	107 91 52	107 36.0 54	99 110 33		100 13.6 38	95 2.9 59	79 -0.7 35	104 27.5 54	91 12 38	91 20 36			
GMO 190018 90086331 DELLY	2	GMO 160052 GMO 160012	94 77	99 73	85 66	110 10	65 44	82 49				94 1.66 78	108 0.10 67	90 15 10	99 15.1 73	85 1.6 66	92 57 50	97 27.6 51	93 76 15		79 3.4 18	99 -0.3 56	62 3.4 31	109 31.3 52	91 12 18	87 16 17			
GMO 190019 90086349 DORA	2	GMO 160052 GMO 160017	94 79	105 75	86 68	114 11	106 44	99 50				93 1.68 80	103 0.30 71	86 11 11	105 18.1 75	86 2.0 68	99 74 51	105 34.2 51	92 73 15		78 3.2 18	106 -6.7 55	105 -6.9 34	107 29.9 52	88 10 17	87 15 16			
GMO 190029 90081670 HULK	2	JRE 150053 GMO 100063	94 80	98 77	90 73	102 17	127 47	95 53	100 20	94 46	101 25	94 1.60 81	100 0.44 72	98 24 17	98 14.2 77	90 3.2 73	92 56 56	95 25.7 55	103 129 35		106 16.8 41	101 -2.6 57	129 -12.7 37	107 30.0 55	105 23 39	101 34 38	112 1.16 27	103 0.60 23	112 0.38 22
GMO 190030 90076126 HAGEN	3	TZ 150052 GMO 150013	84 73	100 72	79 55	120 11	69 37	77 44				85 2.45 75	102 0.37 54	80 5 11	100 15.2 72	79 -0.3 55	91 54 46	96 26.2 55	88 48 33		85 6.3 38	97 1.3 46	68 2.0 28	90 17.7 48	77 2 38	76 2 37			

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Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling	
ID Number Name																														
GMO 190031 90081688 AFRON	1	JRE 150053 GMO 120072	103 79	93 77	84 72	113 17	130 47	94 53			94 24	101 0.99 80	112 -0.08 72	87 13 17	93 12.1 77	84 1.4 72	88 46 55		89 20.4 56	94 83 32		97 12.3 37	108 -8.4 58	130 -13.0 36	108 30.4 54	93 13 37	91 21 35	105 0.23 26	100 0.32 22	108 0.04 21
GMO 190050 90081282 DOVE	2	TZ 150052 GMO 120079	100 77	94 76	108 70	112 12	88 48	100 52				101 1.01 78	90 0.85 67	88 13 12	94 12.5 76	108 8.8 70	107 92 53		96 26.3 57	101 119 33		103 15.0 38	107 -7.0 59	85 -2.3 37	99 24.4 56	90 11 39	92 22 37			
GMO 190062 90076365 EVA	2	TZ 150052 GMO 150024	85 77	105 74	104 64	109 13	96 44	102 49				87 2.26 78	86 1.04 66	91 17 13	105 18.0 74	104 7.4 64	111 100 50		105 34.2 54	106 143 34		107 17.3 39	105 -5.3 57	94 -4.3 32	103 26.9 53	98 17 39	97 29 37			
GMO 190072 90076621 JESS	2	TZ 150052 GMO 150028	82 78	114 76	93 69	100 11	90 46	98 51				83 2.64 79	103 0.30 70	100 26 11	114 22.2 76	93 4.1 69	105 87 52		110 38.2 54	111 172 33		114 20.4 38	98 -0.1 58	90 -3.3 34	104 27.9 54	108 25 39	105 38 37			
GMO 190086 90077447 VINO	2	GMO 160052 GMO 160033	85 78	102 75	85 67	119 10	82 44	86 49				86 2.39 79	101 0.39 68	81 6 10	102 16.4 75	85 1.4 67	97 69 51		100 29.8 51	90 58 17		75 1.8 19	105 -5.3 54	79 -0.8 33	108 30.3 51	87 9 19	83 11 18			
GMO 200023 92226661 SANDY	2	MS 170053 GMO 170047	89 76	101 71	97 59	113 9	90 40	95 45				90 1.96 77	93 0.75 63	87 12 9	101 16.1 71	97 5.2 59	104 84 46		100 30.2 50	95 88 13		82 5.0 16	123 -19.8 53	83 -1.6 26	104 27.4 49	90 11 15	89 18 14			
GMO 200030 92226935 ALICE	2	JRE 150053 GMO 110004	100 77	92 74	73 64	108 17	110 44	79 50			93 23	98 1.25 78	115 -0.21 66	92 18 17	92 11.7 74	73 -2.0 64	76 21 52		86 18.0 53	95 86 31		97 12.4 36	102 -3.3 57	110 -8.2 31	102 26.4 54	91 12 37	89 18 35	103 0.00 25	100 0.28 21	106 -0.14 21
GMO 200043 92227214 MARY	1	JRE 150053 GMO 110018	95 76	103 74	66 63	99 16	120 44	81 50			100 24	93 1.73 77	116 -0.24 61	101 27 16	103 16.7 74	66 -4.3 63	76 19 51		99 29.1 51	99 110 32		100 13.9 37	103 -3.8 55	121 -10.7 32	102 26.0 52	97 17 38	97 28 36	110 0.81 26	102 0.55 23	108 0.04 22
GMO 200045 92227073 JOYCE	2	JRE 150053 GMO 100063	85 77	100 74	70 64	106 17	119 45	79 50	97 20	80 44	98 25	85 2.44 78	109 0.08 66	94 20 17	100 15.5 74	70 -3.1 64	79 27 52		93 24.2 54	99 109 35		101 14.3 41	101 -2.1 57	120 -10.6 33	105 28.4 53	101 19 39	96 28 38	109 0.77 27	102 0.51 23	111 0.32 22
GMO 200049 92226737 KIMBERLEY	2	GMO 170043 GMO 150028	98 76	104 72	107 61	109 5	106 40	110 45				98 1.23 77	93 0.74 64	91 16 5	104 17.3 72	107 8.3 61	112 102 46		105 34.4 46	105 142 11		101 14.4 14	112 -11.5 53	102 -6.4 27	110 31.7 48	109 26 13	104 38 12			
GMO 200060 92226745 LUCY	5	GMO 170043 GMO 140040	102 76	100 72	87 61		133 40					101 1.01 77	105 0.23 64		100 15.4 72	87 2.2 61			98 28.5 45			95 11.5 5	126 -22.6 52	128 -12.6 28	109 31.1 48					
GMO 200064 92227396 FIESTY	2	GMO 170043 GMO 150061	105 76	88 71	93 60	112 6	99 40	89 45				104 0.71 77	101 0.38 63	88 13 6	88 9.5 71	93 4.0 60	90 52 46		84 16.5 46	95 88 11		88 8.0 15	127 -23.4 53	92 -3.8 27	109 31.6 48	94 14 14	92 22 13			

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ID Number Name																													
GMO 210009 92772177 KATE	2	JRE 150053 GMO 120043	101 77	93 73	84 67	107 16	130 44	91 50			93 24	100 1.09 78	108 0.09 68	93 19 16	93 11.9 73	84 1.4 67	85 41 52	89 20.7 54	95 87 31		96 11.9 36	109 -8.5 55	130 -13.0 32	110 31.8 51	93 13 36	91 21 34	104 0.20 26	99 0.21 22	107 -0.04 21
GMO 210018 92759505 UNIQUE	2	GMO 170048 GMO 150034	90 72	109 71	97 48	102 9	81 40	98 44				91 1.94 74	95 0.66 48	98 24 9	109 20.0 71	97 5.2 48	106 88 43	109 37.5 48	111 172 17		105 16.1 20	95 2.7 54	81 -1.1 25	103 26.7 49	112 28 19	109 43 18			
GMO 210028 92759604 JULIETTE	2	MS 180005 GMO 180034	83 74	111 73	102 55		74 38					85 2.42 76	90 0.88 53		111 21.0 73	102 6.9 55	113 105 43	110 38.5 52	105 140 16		102 14.9 19	93 4.4 54	73 0.6 23	100 24.9 46	101 19 19	99 31 18			
GMO 210036 92759661 CATHY	2	TZ 180018 GMO 110018	83 77	130 74	92 62	80 11	122 42	115 48				83 2.60 78	102 0.34 66	120 47 11	130 30.5 74	92 3.7 62	109 95 49	131 56.9 51	113 183 33		120 23.3 38	112 -11.4 56	120 -10.6 29	114 34.5 51	109 26 39	110 45 37			
GMO 210037 92759679 KELLY	2	TZ 180018 GMO 110004	87 77	119 75	106 63	88 14	122 44	117 50				88 2.16 78	94 0.71 62	112 38 14	119 24.8 75	106 8.0 63	114 107 51	118 45.7 54	109 162 33		117 22.1 37	116 -14.1 58	120 -10.5 31	113 33.9 53	103 21 38	103 35 36			
GMO 210050 92759802 CELESTE	2	TZ 180018 GMO 110035	91 76	118 74	107 62	84 12	115 41	116 48				92 1.83 77	95 0.66 61	116 43 12	118 24.3 74	107 8.4 62	112 103 49	121 47.6 51	109 163 33		114 20.5 38	99 -0.7 56	116 -9.7 26	115 35.5 50	104 22 39	105 38 37			
GMO 210055 92759851 MOONSHINE	3	GMO 170048 GMO 120024	92 75	110 73	91 61		100 40					92 1.80 76	99 0.48 57		110 20.6 73	91 3.4 61	102 79 46	110 38.5 51	108 154 9		102 14.8 12	102 -2.7 54	100 -5.7 26	107 29.5 50	115 30 12	109 43 11			
GMO 210060 92759901 KUKI	3	TZ 180018 GMO 110008	94 76	103 75	94 63	99 12	118 40	100 48				95 1.57 77	98 0.51 61	101 27 12	103 17.1 75	94 4.4 63	98 70 50	103 32.9 54	101 117 33		102 14.9 38	108 -7.7 57	117 -9.8 24	112 33.1 50	92 13 39	93 23 37			
GMO 210069 92759984 SONJA	3	GMO 170048 GMO 160062	88 74	99 73	80 58	114 9	71 36	78 44				88 2.16 76	102 0.35 55	86 11 9	99 14.9 73	80 0.1 58	89 51 47	95 25.8 50	101 119 17		90 9.1 20	100 -1.1 53	69 1.6 20	108 30.2 47	98 17 19	95 26 18			
GMO 210070 92759992 CELIA	3	MS 180005 GMO 160022	94 77	107 74	101 59		92 40					96 1.49 78	90 0.85 63		107 18.9 74	101 6.7 59	110 99 45	109 37.8 54			96 11.6 7	99 -0.4 55	92 -3.7 25	104 27.7 48					
GMO 210073 92760024 ARIA	3	TZ 180018 GMO 140031	82 75	119 71	74 53	101 6	123 40	98 44				81 2.79 76	114 -0.16 60	99 25 6	119 24.7 71	74 -2.0 53	94 62 43	114 41.8 50	105 138 30		108 17.4 36	117 -15.5 55	120 -10.5 25	110 32.3 49	97 16 34	95 26 32			
GMO 210080 92847573 GERTY	3	TZ 180018 GMO 150061	94 75	107 70	108 53	85 11	120 41	109 45				95 1.54 76	96 0.62 60	115 41 11	107 19.1 70	108 8.7 53	106 89 45	106 35.2 50	109 159 33		115 20.9 37	125 -22.1 55	114 -9.2 27	110 31.7 50	104 22 38	106 39 36			

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ID Number Name																													
GMO 220007 93786226 LOUISE	1	JRE 190098 GMO 190010	83 67	95 71	100 44	128 15	77 36	89 43			86 23	85 2.45 69	87 1.00 45	72 -3 15	95 12.8 71	100 6.2 44	108 93 43	92 22.6 43	89 57 32		88 8.0 38	98 0.4 54	76 0.0 19	102 26.4 44	88 10 39	88 17 37	86 -1.96 25	99 0.16 21	91 -1.43 21
GMO 220009 93786242 AMAZON	2	JRE 190098 GMO 190031	98 72	82 71	104 45	132 15	102 36	93 43			81 26	99 1.15 73	89 0.91 55	68 -7 15	82 6.4 71	104 7.3 45	102 79 44	79 12.2 50	83 23 32		82 4.8 38	106 -6.5 53	100 -5.8 18	104 27.9 44	84 7 39	83 11 37	87 -1.91 28	98 0.00 24	91 -1.39 23
GMO 220013 93828341 LANA	1	JRE 190098 GMO 190003	75 74	114 71	105 46	115 15	89 36	107 43			99 23	78 3.08 76	86 1.04 56	85 10 15	114 22.4 71	105 7.9 46	122 126 44	112 40.1 50	103 128 33		106 16.8 39	96 1.6 54	89 -3.1 19	103 26.9 44	102 21 39	104 37 37	98 -0.54 25	102 0.53 21	95 -1.13 20
GMO 220017 93828374 DIANE	1	JRE 190098 GMO 190018	99 74	84 71	99 43	128 14	70 36	84 42			82 24	99 1.20 76	97 0.56 54	72 -3 14	84 7.6 71	99 5.8 43	98 70 43	82 14.6 49	85 31 29		75 1.8 35	101 -2.5 53	67 2.1 18	105 28.1 43	86 8 35	84 12 34	84 -2.29 26	98 0.02 22	90 -1.52 21
GMO 220022 94090941 COLLETTE	1	JRE 190098 GMO 190012	84 74	104 71	113 44	111 14	83 36	105 43			99 23	86 2.30 76	85 1.06 55	89 15 14	104 17.6 71	113 10.4 44	119 118 43	104 33.3 49	102 123 33		104 15.6 39	90 6.6 54	85 -2.0 18	101 25.9 44	103 21 40	103 36 37	98 -0.62 25	102 0.53 21	94 -1.20 20
GMO 220030 94086881 KATE	2	MS 180005 GMO 120072	87 75	103 72	97 49	113 8	103 38	99 43				88 2.17 77	100 0.46 57	87 12 8	103 17.1 72	97 5.2 49	106 87 43	98 27.9 55	100 115 12		95 11.3 15	102 -3.0 55	102 -6.3 21	101 25.5 48	100 19 14	96 28 13			
GMO 220034 94086923 KIM	2	TZ 180018 GMO 110004	81 76	122 73	102 56	89 14	127 42	116 47				82 2.69 77	93 0.72 62	111 38 14	122 26.2 73	102 6.8 56	113 105 48	120 46.7 53	109 161 33		117 21.9 37	120 -18.0 58	124 -11.4 27	110 31.7 50	103 21 38	102 35 36			
GMO 220036 94086949 SUGAR	2	TZ 180018 GMO 150063	76 76	130 72	95 53	81 12	115 40	112 45				77 3.16 77	104 0.26 60	119 45 12	130 30.1 72	95 4.8 53	111 101 46	126 52.1 51	114 186 33		124 25.3 38	117 -15.4 55	111 -8.4 24	110 32.0 49	111 27 38	112 47 37			
GMO 220037 94086956 CHARM	2	TZ 180018 GMO 130072	88 74	118 73	97 54	92 12	118 34	112 44				88 2.20 76	105 0.21 54	108 34 12	118 24.4 73	97 5.3 54	109 95 46	116 43.9 51	111 172 33		119 22.9 38	102 -3.0 44	119 -10.4 24	105 28.3 47	107 24 37	106 40 36			
GMO 220039 94264256 KARA	2	TZ 180018 GMO 120013	84 76	123 73	99 55	90 18	131 42	118 48				85 2.48 77	100 0.43 61	110 36 18	123 26.8 73	99 5.8 55	113 104 49	123 49.5 54	114 188 34		124 25.3 39	123 -20.4 56	127 -12.3 28	108 30.8 50	108 25 40	109 44 38			
GMO 220046 94264298 COOL RAIN	2	TZ 180018 GMO 110018	85 76	126 73	101 54	80 11	122 40	118 46				86 2.31 77	94 0.70 61	120 47 11	126 28.2 73	101 6.5 54	112 103 46	128 54.4 50	113 182 33		119 23.1 38	115 -13.9 56	120 -10.5 25	110 32.3 49	109 26 39	110 45 37			
GMO 220047 94264306 FAMOUS	2	TZ 180018 GMO 160018	89 76	129 72	96 51	80 11	110 38	117 44				89 2.09 77	107 0.16 59	120 46 11	129 29.7 72	96 4.9 51	111 100 45	129 55.2 50	118 207 33		122 24.5 38	117 -15.2 55	106 -7.1 22	110 32.1 49	113 29 38	115 51 37			

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ID Number Name																															
GMO 220049 94264322 FRIENDLY	2	TZ 180018 GMO 180049		89 76	119 72	96 50	91 12	126 39	114 45	99 20	109 40		90 2.00 77	99 0.48 59	109 35 12	119 24.7 72	96 5.1 50	108 93 45		119 46.7 50	105 139 34		112 19.4 40	117 -15.1 55	123 -11.3 23	108 30.3 46	102 20 40	103 35 38			
GMO 220055 94264389 BEVERLY	2	TZ 180018 GMO 120052		91 74	118 73	102 53	89 14	113 36	114 44				91 1.88 76	98 0.50 54	111 37 14	118 24.2 73	102 6.8 53	111 99 47		119 46.2 54	113 183 33		121 24.1 38	108 -8.2 45	112 -8.7 26	104 27.8 48	110 26 39	110 45 37			
GMO 220059 94264421 UNITY	3	TZ 180018 GMO 150070		86 76	125 72	92 51	84 9	117 38	112 44				86 2.34 77	101 0.40 59	116 42 9	125 28.1 72	92 3.8 51	107 91 44		125 51.1 50	111 174 32		114 20.3 37	123 -20.4 55	112 -8.6 22	108 30.6 48	109 25 38	108 42 36			
GMO 220061 94264447 CORA	3	MS 180005 GMO 160022		85 75	111 72	88 49		87 38					86 2.35 77	102 0.37 57		111 21.0 72	88 2.6 49	103 82 41		109 37.8 53			96 11.9 7	97 1.1 55	87 -2.6 20	101 25.5 47					
GMO 220070 94392420 ULA	2	MS 180005 GMO 150033		89 73	114 72	97 48	101 12	84 38	103 44				90 2.00 75	98 0.52 49	99 24 12	114 22.2 72	97 5.1 48	109 94 44		113 41.2 54	107 151 11		101 14.4 14	106 -6.6 54	81 -1.1 21	101 25.6 46	108 25 14	106 40 13			
GMO 220074 94392461 KANTA	2	MS 180005 GMO 120015		96 73	106 72	101 48	103 5	86 31	103 40				96 1.43 75	101 0.39 49	97 23 5	106 18.6 72	101 6.5 48	107 91 42		104 33.0 54			102 14.7 7	88 8.2 42	88 -3.0 20	91 18.7 44	106 24 7	103 36 6			
GMO 230002 94984234 UNI	2	JRE 190098 GMO 160019		87 71	99 70	104 48	117 16	96 36	99 43			93 24	88 2.15 73	91 0.82 48	83 8 16	99 14.8 70	104 7.4 48	109 96 45		95 25.8 50	94 80 30		90 8.7 36	108 -7.9 53	93 -4.2 19	107 29.7 46	97 17 37	97 28 35	93 -1.20 26	99 0.21 22	92 -1.33 21
GMO 230004 94984259 TINA	1	JRE 190098 GMO 180063		72 71	106 70	96 46	120 15	84 31	92 41			97 24	74 3.39 73	93 0.73 47	80 5 15	106 18.2 70	96 5.1 46	111 99 44		100 30.2 50	101 116 32		98 12.8 37	93 4.2 41	85 -2.1 21	95 21.1 42	104 22 38	104 37 36	97 -0.75 26	102 0.51 22	93 -1.27 21
GMO 230006 94984275 JUMBO	1	JRE 190098 GMO 150013		93 71	79 70	84 47	139 16	67 32	69 42			72 24	94 1.67 73	97 0.59 47	61 -14 16	79 4.8 70	84 1.3 47	85 41 44		75 8.1 52	74 -25 30		65 -3.3 36	100 -1.6 41	64 2.8 23	87 16.0 44	74 0 37	72 -3 35	74 -3.50 26	95 -0.34 23	88 -1.66 22
GMO 230009 94984309 HAELI	1	JRE 190098 GMO 180056		88 71	99 70	103 45	120 14	82 29	97 40			95 23	90 2.01 73	89 0.90 46	80 5 14	99 15.0 70	103 7.2 45	110 99 43		98 27.9 48	98 103 29		95 11.5 35	95 2.7 40	82 -1.5 18	97 23.0 41	101 19 35	101 33 33	96 -0.87 25	100 0.33 21	92 -1.31 20
GMO 230013 95246252 DEAR	1	JRE 190098 GMO 130076		95 72	87 70	103 49	132 16	90 32	94 42			87 24	96 1.41 74	87 0.97 50	68 -7 16	87 9.1 70	103 7.3 49	106 89 45		87 18.4 51	91 67 31		87 7.3 37	105 -5.5 42	88 -2.8 23	96 21.8 45	91 12 37	91 21 35	88 -1.76 26	99 0.17 22	92 -1.37 21
GMO 230016 95840427 GMO 230016	1	JRE 190098 GMO 200010		96 57	87 56	113 39	121 15	72 28	93 35			91 24	98 1.29 58	86 1.02 40	79 4 15	87 8.8 56	113 10.2 39	109 95 37		86 18.0 43	91 63 32		88 7.8 38	93 3.8 40	71 1.2 17	93 20.0 39	93 13 39	94 25 37	92 -1.35 26	99 0.21 22	91 -1.39 21

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ID Number Name																													
GMO 230021 95840641 SUZIE	2	TZ 180018 GMO 140057	83 74	126 73	95 54	89 14	119 36	115 45				84 2.56 76	97 0.55 54	111 37 14	126 28.3 73	95 4.6 54	111 101 47	127 53.3 52	111 170 33		118 22.3 38	113 -11.9 45	117 -9.8 26	103 26.9 48	104 22 38	106 40 37			
GMO 230028 95840716 BETTY	2	TZ 180018 GMO 160006	97 69	110 59	103 49	86 12	106 34	107 39				97 1.37 71	98 0.54 51	114 40 12	110 20.2 59	103 7.3 49	105 85 40	110 38.4 45	108 157 33		118 22.4 37	117 -15.1 44	102 -6.2 24	104 27.6 44	103 21 38	104 37 36			
GMO 230030 95840732 BLANCHE	3	TZ 180018 GMO 190027	86 73	112 72	95 47	98 10	108 32	103 41	93 20	99 37		86 2.30 75	98 0.54 50	102 28 10	112 21.4 72	95 4.7 47	105 86 43	111 39.5 50	102 123 34		110 18.7 39	111 -10.8 42	105 -7.0 21	103 27.2 44	92 13 40	93 24 38			
GMO 230032 95840740 DAFFODIL	2	JRE 190098 GMO 200018	93 73	98 71	112 42	115 15	84 30	103 40			96 24	94 1.61 75	87 1.00 44	85 10 15	98 14.4 71	112 10.0 42	115 108 43	99 29.0 50	95 86 32		91 9.5 38	87 9.1 41	87 -2.6 18	93 20.1 41	98 17 39	99 31 37	96 -0.82 26	100 0.32 22	92 -1.32 21
GMO 230035 95840773 TOPSY	2	TZ 180018 GMO 190019	87 73	120 72	91 48	93 10	119 32	110 41				87 2.28 75	104 0.28 51	107 33 10	120 25.6 72	91 3.4 48	106 89 43	120 47.1 49	104 137 31		108 17.5 36	111 -10.3 42	117 -10.0 22	109 31.0 44	98 17 37	99 31 35			
GMO 230037 95840799 JANICE	2	TZ 200057 GMO 170047	89 73	118 72	104 47	93 9	100 28	113 39				90 1.99 75	95 0.64 47	107 33 9	118 24.5 72	104 7.5 47	114 108 43	119 46.1 50	116 197 31		119 22.9 36	122 -19.6 36	94 -4.3 19	107 30.0 41	111 27 37	111 46 35			
GMO 230038 95840807 JULIE	2	TZ 200057 GMO 120088	97 73	109 72	98 50	108 9	92 28	106 40				98 1.30 75	97 0.58 48	92 18 9	109 19.7 72	98 5.6 50	108 94 44	110 38.2 48	104 135 31		106 16.7 36	110 -9.4 36	88 -2.9 21	101 25.3 42	101 19 37	100 32 35			
GMO 230039 96262324 NYX	3	TZ 200057 GMO 160017	90 73	132 72	99 48	90 8	97 28	123 39				90 1.96 75	102 0.37 47	110 36 8	132 31.3 72	99 6.0 48	119 119 43	133 58.3 48	120 217 30		127 26.9 36	93 4.1 36	99 -5.5 19	103 27.0 41	117 32 36	117 53 34			
GMO 230041 96262340 KENYA	1	JRE 190098 GMO 200049	91 72	96 71	108 41	123 14	89 28	100 39			92 23	92 1.80 74	89 0.92 43	77 2 14	96 13.5 71	108 8.6 41	113 105 42	95 25.4 48	95 85 29		92 10.0 34	102 -3.0 39	88 -2.8 16	101 25.5 40	100 19 35	98 30 33	92 -1.32 25	100 0.25 21	91 -1.43 21
GMO 230052 96262456 ALVA	2	TZ 200057 GMO 120024	92 73	134 72	109 50	78 7	102 28	130 39				93 1.76 75	97 0.57 49	122 48 7	134 32.3 72	109 9.1 50	123 128 43	137 61.8 51	126 252 29		138 32.0 35	101 -2.0 37	102 -6.2 20	103 26.9 43	133 44 36	129 68 34			
GMO 230053 96262464 BESSIE	3	TZ 200057 GMO 130053	93 73	125 72	110 48	90 5	99 27	125 38				94 1.66 75	96 0.61 47	110 36 5	125 28.0 72	110 9.3 48	123 127 42	129 55.0 50	124 243 30		136 30.9 36	97 1.1 35	100 -5.7 19	104 27.5 42	123 36 36	123 62 34			
GMO 230054 96262472 ROSIE	4	TZ 180018 GMO 190005	81 73	126 72	97 49	90 9	113 32	115 41	103 20	111 37		82 2.71 75	99 0.49 52	110 36 9	126 28.4 72	97 5.4 49	114 107 43	126 52.5 50	113 183 35		124 25.2 40	104 -4.4 43	113 -9.0 22	104 27.7 44	104 22 41	105 38 39			

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ID Number Name																														
GMO 230056 96262498 MINNIE MOO	3	TZ 180018 GMO 180032	85 73	120 72	99 50	87 9	110 32	110 41	103 20	107 37		86 2.36 75	101 0.38 50	113 39 9	120 25.1 72	99 6.0 50	109 96 44	118 45.2 50	112 179 34		123 24.7 40	111 -10.4 42	107 -7.5 21	104 27.6 44	104 22 40	106 39 38				
GMO 230057 96262506 DAISY	2	MS 180005 GMO 120079	91 74	122 73	106 49	93 7	85 32	116 41				92 1.79 76	95 0.66 50	107 33 7	122 26.4 73	106 8.1 49	118 117 43	125 51.1 56	119 215 10		121 23.7 13	94 3.3 42	85 -2.2 21	92 19.4 45	118 33 13	121 58 11				
GMO 230058 96262514 AGATHA	3	TZ 200057 GMO 180051	88 73	121 71	96 43	97 5	99 26	112 37				89 2.09 75	98 0.51 45	103 29 5	121 26.1 71	96 5.1 43	112 103 40	122 48.8 47	117 202 30		121 23.7 36	97 0.7 34	99 -5.6 18	97 22.6 40	116 31 37	112 48 35				
GMO 230068 96262787 SPAIN	2	MS 180005 GMO 150028	82 74	121 73	101 49	95 6	89 32	109 41				83 2.64 76	98 0.54 49	105 31 6	121 26.0 73	101 6.5 49	115 109 43	119 46.6 54	116 200 12		114 20.5 14	89 7.8 42	92 -3.8 21	94 20.5 44	121 34 14	117 54 13				
GMO 230070 96262803 LILA	5	TZ 200057 GMO 150079	103 73	98 71	110 48		77 26					103 0.81 75	93 0.72 46		98 14.3 71	110 9.3 48	107 91 40	99 28.6 46	105 140 28		110 18.4 35	107 -7.4 35	73 0.8 17	104 27.9 40	101 20 36	99 31 34				
GMO 230075 96262852 LONDON	2	TZ 180018 GMO 140059	91 73	121 73	100 54	90 13	118 36	118 44				91 1.92 75	103 0.33 54	110 36 13	121 26.0 73	100 6.4 54	113 104 47	122 49.2 52	114 188 34		124 25.4 39	115 -13.3 45	116 -9.5 27	106 29.0 48	109 26 39	111 46 37				
GMO 230076 96262860 ITALY	2	TZ 180018 GMO 190053	89 72	121 70	96 49	86 12	116 32	112 41	102 20	109 37		89 2.04 74	102 0.35 51	114 40 12	121 25.6 70	96 5.1 49	107 92 44	120 47.3 48	108 158 34		114 20.7 40	107 -6.8 43	116 -9.5 22	101 25.8 44	103 21 40	106 40 38				
GMO 230079 96262894 CARL	3	TZ 180018 GMO 150070	77 73	136 72	93 51	81 9	115 34	117 42				78 3.04 75	98 0.50 53	119 45 9	136 33.1 72	93 4.0 51	114 107 44	134 59.6 50	114 185 32		117 21.8 37	118 -16.1 45	112 -8.5 22	104 27.7 46	111 27 38	111 46 36				
GMO 240001 96829882 JINGLE	2	TZ 180018 GMO 190018	86 72	120 71	91 48	90 10	98 32	104 41				86 2.36 74	106 0.19 49	110 37 10	120 25.5 71	91 3.4 48	105 85 43	119 46.4 48	106 145 31		110 18.5 36	107 -6.8 42	96 -4.9 22	109 31.5 44	101 20 37	101 33 35				
GMO 240002 96829890 JOYCE	2	TZ 180018 GMO 150052	83 73	115 72	99 53	90 12	120 34	108 43				84 2.54 75	98 0.51 54	110 36 12	115 23.1 72	99 6.0 53	107 91 46	113 40.7 51	106 148 33		114 20.2 38	119 -17.1 44	116 -9.6 23	105 28.7 46	102 20 38	102 35 37				
GMO 240003 96829908 JUBILANT	2	TZ 180018 GMO 190083	81 72	119 71	98 48	91 12	110 32	107 41	99 20	104 37		82 2.68 74	95 0.63 50	109 35 12	119 24.7 71	98 5.7 48	109 96 44	118 45.2 50	105 139 34		110 18.7 40	112 -10.9 43	107 -7.5 22	104 27.7 44	98 17 40	101 33 38				
GMO 240005 96829924 JOAN	2	TZ 180018 GMO 180026	72 72	141 71	88 50	77 12	122 33	118 42	111 20	116 38		71 3.66 74	105 0.24 51		123 49 12	141 36.0 71	88 2.6 50	113 105 44	139 63.4 50	116 196 34		125 25.8 40	109 -9.1 43	121 -10.8 23	104 27.6 45	112 28 41	114 50 39			

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ID Number Name																													
GMO 240008 96829940 KATE	2	TZ 180018 GMO 150071	92 72	129 72	102 53	78 11	111 34	122 43				92 1.84 74	103 0.33 53	122 48 11	129 29.9 72	102 6.9 53	115 109 45	130 56.0 50	120 218 34		128 27.1 38	112 -10.9 44	108 -7.8 24	105 28.5 46	116 31 39	118 55 37			
GMO 240010 96829965 KATELYN	2	TZ 180018 GMO 160018	85 72	130 71	96 51	81 11	107 34	116 42				85 2.42 74	104 0.28 52	119 45 11	130 30.3 71	96 5.0 51	112 103 44	130 55.8 50	117 204 33		121 24.1 38	113 -12.3 45	104 -6.8 22	106 29.2 46	113 28 38	114 50 37			
GMO 240011 96829973 KRIS	2	TZ 180018 GMO 120012	95 73	106 72	96 54	102 14	102 36	102 44				95 1.55 75	101 0.38 55	98 24 14	106 18.4 72	96 5.0 54	102 80 47	106 35.5 54	100 115 33		105 16.1 38	107 -7.3 45	100 -5.8 26	105 28.3 47	94 14 38	96 26 37			
GMO 240015 96830013 BEAUTY	3	TZ 180018 GMO 160062	97 72	110 72	102 52	94 11	98 34	107 43				97 1.35 74	99 0.49 53	106 32 11	110 20.5 72	102 6.8 52	107 91 45	112 39.9 51	107 148 33		112 19.3 38	116 -14.6 45	93 -4.2 23	108 30.2 46	100 19 38	100 32 37			
GMO 240018 97454011 JOYCE	4	JA 210029 GMO 190086	88 72	109 70	90 42	106 9	85 23	95 36				88 2.13 74	104 0.27 42	94 20 9	109 20.0 70	90 3.0 42	102 79 40	108 37.2 47				100 -1.2 32	84 -2.0 14	108 30.5 36					
GMO 240019 97454003 JEMIMA	2	GMO 210084 GMO 210060	86 70	109 70	93 39		101 22					87 2.27 73	97 0.55 38		109 19.9 70	93 4.2 39	104 84 37	108 36.5 46	100 113 14		98 12.7 18	102 -3.3 32	101 -6.0 13	107 30.0 35	95 15 18	94 25 17			
GMO 240020 97454029 CYNTHIA	2	JA 210029 GMO 160019	97 72	110 70	100 46	97 13	101 26	107 39				97 1.40 74	101 0.38 46	103 29 13	110 20.4 70	100 6.1 46	107 90 43	110 38.6 48			100 13.6 7	105 -5.7 35	100 -5.7 17	108 30.8 40	101 20 8	102 35 6			
GMO 240022 97454045 JASMINE	2	GMO 210084 GMO 210036	85 71	117 70	93 38		103 23					86 2.37 74	99 0.49 40		117 23.9 70	93 4.2 38	107 92 37	117 44.3 46	103 132 14		103 15.2 17	106 -6.0 32	102 -6.1 14	108 30.7 36	100 19 18	99 31 16			
GMO 240025 97454078 COSY	2	JA 210029 GMO 180056	100 72	115 70	100 43	97 10	90 25	111 37				100 1.13 74	100 0.43 44	103 29 10	115 22.7 70	100 6.3 43	110 98 41	118 45.3 46				96 2.1 34	91 -3.6 16	107 29.7 38					
GMO 240026 97454086 BOUNCERBOY	5	JA 210029 GMO 150005	89 72	97 70	78 46	116 10	83 26	78 38				89 2.08 74	103 0.30 46	84 10 10	97 14.2 70	78 -0.7 46	86 44 42	94 25.1 52				107 -7.2 35	80 -1.0 17	98 23.8 40					
GMO 240028 97454102 JOAN	5	JA 210029 GMO 150013	109 72	77 70	81 46	127 9	74 26	70 38				108 0.41 74	105 0.21 45	73 -2 9	77 3.9 70	81 0.3 46	76 20 42	76 9.5 52				106 -6.1 35	70 1.5 17	97 22.6 40					
GMO 240031 97454128 JULIA	2	GMO 210084 GMO 220004	80 70	115 70	95 37		101 22					81 2.79 73	95 0.64 37		115 23.0 70	95 4.7 37	109 95 37	113 41.3 46	102 124 14		103 15.1 17	115 -13.8 31	96 -4.9 12	106 29.3 35	100 19 17	98 30 16			

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GMO 240033 98745151 BELLA	3	JA 210029 GMO 140031	104 72	87 71	78 47	123 5	94 24	80 37				102 0.91 74	112 -0.05 46	77 2 5	87 9.1 71	78 -0.6 47	81 32 41	85 16.7 49				109 -8.6 34	91 -3.5 14	106 29.3 39						
GMO 240038 98744980 SPRINKLES	18	GMO 210084 GMO 210070	81 70	120 70	96 24							82 2.69 73	94 0.68 29		120 25.5 70	96 5.0 24		120 47.0 32				95 2.7 17		104 27.6 22						
GMO 240039 98744998 MOO	2	GMO 210084 GMO 210037	78 70	125 70	99 39		105 24					79 2.94 73	96 0.63 39		125 27.9 70	99 5.9 39	116 111 37	124 50.2 46	109 164 13			113 19.9 17	104 -4.4 32	104 -6.7 15	108 30.4 36	107 24 17	106 40 16			
GMO 240040 98745003 PENNY	14	GMO 210084 GMO 210028	75 69	122 69	97 23							77 3.18 73	94 0.71 23		122 26.3 69	97 5.2 23		119 46.7 32				92 4.8 18		102 26.2 22						
GMO 240046 98745011 BOSSY	1	JA 210029 GMO 150024	102 73	90 71	103 48	113 13	94 28	96 40				103 0.85 75	91 0.82 47	87 12 13	90 10.6 71	103 7.3 48	101 76 44	93 23.5 50	98 103 8			92 10.0 12	107 -7.0 36	92 -3.9 19	107 29.7 41	94 14 10	94 24 9			
GMO 240047 98745029 DAISY	2	GMO 210084 GMO 210055	86 70	107 70	92 38		92 22					87 2.26 73	97 0.57 37		107 19.0 70	92 3.6 38		105 34.4 46				101 -2.1 31	91 -3.6 13	105 28.3 35						
GMO 240052 98745037 ROSIE	2	GMO 210084 GMO 210026	72 70	137 70	95 36		79 21					74 3.42 73	97 0.56 36		137 33.8 70	95 4.8 36		137 61.6 44				88 8.3 31	80 -1.1 11	103 26.8 34						
GMO 240055 98745045 NELLIE	3	TZ 200057 GMO 160017	92 74	129 72	101 48	93 8	97 28	123 39				93 1.76 76	100 0.45 47	107 33 8	129 29.8 72	101 6.6 48	120 121 43	131 56.3 48	117 203 30			124 25.1 36	94 3.1 36	98 -5.3 19	103 27.2 41	114 30 36	114 49 34			
GMO 240058 6020518996 GMO 240058	2	TZ 200057 GMO 180049	101 60	111 58	102 45	98 7	96 27	111 34				101 1.01 61	96 0.62 45	102 28 7	111 21.0 58	102 6.9 45	110 97 37	114 42.3 41	109 163 32			114 20.6 38	99 -0.5 35	96 -4.9 19	100 24.9 38	108 25 39	107 40 37			
GMO 240059 98745052 MOCHA	3	JA 210029 GMO 200061	92 70	107 69	93 39	106 8	97 23	99 35				92 1.79 73	102 0.36 38	94 19 8	107 18.9 69	93 4.0 39	103 81 39	107 35.9 46				107 -7.3 32	95 -4.6 14	107 29.8 36						
GMO 240061 98745060 SUGAR	2	TZ 180018 GMO 140022	92 74	110 73	99 53	99 15	119 36	110 45				92 1.78 76	100 0.42 54	101 26 15	110 20.6 73	99 6.0 53	107 91 47	110 38.4 52	105 139 33			110 18.5 38	116 -14.2 45	116 -9.6 27	105 28.7 48	96 16 38	99 30 37			
GMO 240062 98745078 DOTTIE	2	TZ 200057 GMO 180029	82 73	127 72	95 45	96 10	99 27	114 39				83 2.62 75	101 0.41 45	104 30 10	127 28.9 72	95 4.7 45	115 110 42	127 52.9 49	119 214 32			125 25.6 37	97 1.3 34	100 -5.8 20	99 24.4 41	116 31 38	114 50 36			

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ID Number Name																													
GMO 240066 98745086 ADA	2	TZ 180018 GMO 140059	95 73	110 73	103 54	98 13	117 36	113 44				96 1.49 75	100 0.46 54	102 28 13	110 20.6 73	103 7.1 54	109 96 47	112 40.0 52	107 153 34		115 20.9 39	118 -15.9 45	113 -8.9 27	106 29.2 48	101 20 39	103 36 37			
GMO 240067 98745094 LILY	4	JA 210029 GMO 190005	85 72	118 71	97 43	100 10	92 25	107 38				86 2.34 74	100 0.45 44	100 25 10	118 24.4 71	97 5.4 43	112 102 41	119 45.9 50	109 162 12		110 18.6 17	93 3.9 34	93 -4.1 16	103 27.2 38	103 21 16	103 36 14			
GMO 240068 98745102 AMBER	4	TZ 200057 GMO 140038	89 73	114 71	87 49		97 26					89 2.06 75	99 0.48 46		114 22.3 71	87 2.3 49	104 84 41	113 41.1 48	106 144 29		106 16.5 36	104 -4.7 34	96 -4.7 18	105 28.5 40	99 18 35	97 28 33			
GMO 240070 98745110 ELSIE	3	TZ 200057 GMO 160033	95 73	109 71	99 48	107 7	85 28	104 39				95 1.54 75	98 0.52 47	93 18 7	109 19.9 71	99 6.0 48	110 97 42	109 37.7 48	106 145 31		109 18.2 37	99 -0.7 35	84 -2.0 20	104 27.4 41	103 21 37	100 32 35			
GMO 240072 98745128 PUMPKIN	3	TZ 200057 GMO 190019	103 72	108 71	100 43	104 5	91 26	109 37				103 0.81 74	99 0.49 44	96 22 5	108 19.6 71	100 6.2 43	108 93 40	111 39.7 46	105 141 29		105 16.3 35	100 -1.1 33	91 -3.6 18	106 28.8 38	100 19 35	98 30 33			
GMO 240073 98745367 DOE	7	TZ 200057 GMO 190001	101 72	104 70	100 45		98 24					101 1.02 74	99 0.48 45		104 17.5 70	100 6.2 45		105 34.6 46	107 150 32		111 18.9 38	106 -6.0 33	96 -4.8 16	104 27.6 38	97 17 39	95 26 36			
GMO 240074 98745136 OAKLEY	3	TZ 200057 GMO 150063	91 73	107 71	104 48		84 26					92 1.80 75	95 0.67 46		107 19.1 71	104 7.5 48	109 96 41	106 34.8 48	107 151 30		111 19.1 36	106 -6.4 35	81 -1.2 18	102 26.5 40	104 22 36	101 34 34			
GMO 240080 98744899 TULIP	3	TZ 200057 GMO 150074	108 73	108 71	106 47	93 7	80 27	109 38				108 0.42 75	98 0.50 46	107 33 7	108 19.4 71	106 8.1 47	108 93 42	111 39.4 48	111 171 31		112 19.3 37	98 0.4 35	79 -0.7 19	99 24.3 41	105 23 37	105 38 35			
GMO 240082 98744915 PARSLEY	2	TZ 200057 GMO 140057	97 73	114 71	103 48	100 10	91 28	113 39				98 1.29 75	92 0.79 47	100 26 10	114 22.6 71	103 7.3 48	114 107 43	119 46.0 48	111 172 31		115 20.7 36	102 -2.9 36	90 -3.4 21	101 25.5 42	106 23 37	105 38 35			
GMO 240083 98744923 CLOVER	2	TZ 200057 GMO 170006	105 72	102 71	114 47	101 8	83 28	109 39				106 0.57 74	87 0.99 45	99 24 8	102 16.2 71	114 10.5 47	112 103 42	106 35.0 48	108 157 30		112 19.5 36	121 -18.3 36	75 0.2 19	107 29.6 40	104 22 37	103 36 35			
GMO 250007 98938822 BRIGHT	2	JA 210029 GMO 170011	108 70	91 55	100 43	105 13	91 26	93 34				107 0.47 72	100 0.45 45	95 21 13	91 10.8 55	100 6.3 43	95 64 37	92 23.1 42			96 11.7 9	120 -17.6 36	85 -2.1 17	109 30.9 38	98 17 9	97 28 7			
GMO 250008 98938830 BASHFUL	2	JA 210029 GMO 200018	106 70	103 55	107 40	94 12	92 25	106 33				106 0.57 72	98 0.50 41	106 32 12	103 16.7 55	107 8.4 40	105 86 36	107 35.9 41	107 148 11		104 15.5 15	90 7.0 34	94 -4.4 16	103 27.1 36	104 22 15	106 40 14			

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Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calv Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
GMO 250017 6020462922 GEORGIE	2	TZ 200057 GMO 180026	97 73	114 58	98 45	93 9	93 26	107 35				97 1.38 75	99 0.48 45	107 33 9	114 22.4 58	98 5.7 45	107 90 37	115 43.0 41	112 179 32		117 21.9 38	101 -2.0 34	93 -4.0 19	100 25.0 38	109 25 39	109 43 37			
GMO 250020 6020462948 JOYCE	2	TZ 200057 GMO 200030	101 72	106 57	91 41	97 9	94 26	98 34				100 1.05 74	106 0.19 42	103 28 9	106 18.2 57	91 3.4 41	96 67 36	104 33.8 40	109 162 32		119 22.7 38	97 1.4 34	94 -4.4 17	103 26.9 37	105 22 39	103 36 37			
GMO 250021 6020454812 JOYSIE	2	TZ 200057 GMO 200023	90 71	114 56	100 40		84 24					91 1.93 74	95 0.66 41		114 22.4 56	100 6.3 40	111 100 33	114 42.2 40	109 163 29		111 19.0 35	107 -6.9 32	80 -1.1 16	104 27.4 35	104 22 35	103 36 33			
GMO 250022 6020462955 JOAN	2	JA 210029 GMO 220034	85 71	114 54	96 37	93 12	107 24	103 32				85 2.39 74	101 0.41 40	107 33 12	114 22.5 54	96 4.9 37	105 87 34	112 40.3 40	106 147 10		110 18.6 15	109 -9.1 34	105 -7.0 13	110 31.9 35	101 20 16	102 34 14			
GMO 250023 6020454820 CELEST	2	TZ 200057 GMO 160006	107 73	103 57	109 43	94 8	79 28	105 35				107 0.49 75	94 0.70 44	106 32 8	103 16.7 57	109 9.1 43	107 91 36	105 34.0 42	111 173 30		119 22.7 36	104 -4.8 35	76 0.0 20	100 25.1 38	108 25 37	106 40 35			
GMO 250025 6020462971 CAFTAN	2	TZ 200057 GMO 190083	105 73	102 57	108 43	98 6	82 26	105 34				106 0.58 75	92 0.78 43	102 27 6	102 16.4 57	108 8.7 43	107 91 35	106 34.7 40	108 158 32		112 19.4 38	99 -0.9 33	81 -1.2 18	101 25.3 37	103 21 39	104 37 37			
GMO 250027 6020462997 ALICE	2	TZ 200057 GMO 150043	109 73	100 59	99 48	102 9	83 29	100 37				109 0.33 75	101 0.39 47	98 23 9	100 15.3 59	99 6.1 48	101 76 39	103 32.9 44	109 159 30		113 19.9 35	99 -0.8 36	81 -1.3 22	100 24.6 41	106 24 36	104 37 34			
GMO 250031 6020462583 CUPID	2	TZ 200057 GMO 180065	98 73	110 58	105 45	99 9	92 26	109 35				98 1.28 75	95 0.63 44	101 27 9	110 20.2 58	105 7.6 45	111 99 37	112 40.5 42	117 203 32		118 22.4 37	96 2.0 34	92 -3.9 19	104 27.4 39	112 28 38	111 46 36			
GMO 250032 6020462559 BARBIE	1	SF 210085 GMO 140056	109 72	96 54	87 48	106 14	100 30	93 37				108 0.41 74	110 0.04 46	94 19 14	96 13.3 54	87 2.2 48	89 50 39	97 27.1 44	96 93 31		96 11.9 37	99 -0.4 37	100 -5.9 22	99 24.0 40	99 18 37	93 24 35			
GMO 250033 6020462591 BEAUTY	2	TZ 200057 GMO 150056	96 73	106 59	102 47	98 6	74 27	99 35				97 1.37 75	95 0.63 46	102 28 6	106 18.3 59	102 6.9 47	106 87 37	105 34.5 42	108 156 30		111 19.2 36	98 -0.1 35	72 1.0 19	104 27.5 39	103 22 37	102 35 35			
GMO 250035 6020462617 BASHFUL	2	JA 210029 GMO 220022	96 71	99 54	105 33	104 12	85 20	99 30				97 1.37 74	96 0.60 37	96 21 12	99 15.1 54	105 7.8 33	105 87 33	100 29.8 40	103 128 11		104 15.4 16	94 3.2 32	86 -2.3 9	106 29.0 33	101 19 17	102 35 15			
GMO 250036 6020462872 BETTINA	2	JA 210029 GMO 220009	90 70	96 54	95 33	115 12	95 20	92 30				91 1.90 73	99 0.50 37	85 10 12	96 13.7 54	95 4.8 33	100 74 33	94 24.3 40	93 78 11		92 10.1 16	102 -3.3 32	93 -4.2 9	107 30.0 33	91 12 16	92 22 15			

Breeding Values and Accuracies: Cows

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

Inbreeding in red is high

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Breeding values with an accuracy < 5% are not printed

Animal			Selection Values									Birth		Wean				Growth			Fertility				Frame		Carcass		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calv Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
GMO 250037 6020462625 CHRISTINE	2	JA 210029 GMO 220039	93 71	111 54	96 37	94 13	109 23	105 32				92 1.77 74	104 0.27 40	106 32 13	111 20.9 54	96 5.1 37	103 83 35	111 39.3 40	109 160 12			114 20.3 16	111 -10.3 33	107 -7.4 13	109 31.5 35	103 21 17	105 39 15		
GMO 250039 6020462641 ROSIE	3	JA 210029 GMO 220059	96 71	111 54	94 35	91 10	102 22	102 31				95 1.52 74	104 0.27 39	109 35 10	111 20.8 54	94 4.3 35	100 75 33	111 39.3 40	108 153 10			108 17.8 15	111 -10.2 33	99 -5.6 11	109 31.4 34	104 22 15	105 38 14		
GMO 250043 6020462674 MONICA	3	JA 210029 GMO 220030	90 71	104 54	94 34	106 9	95 20	95 30				90 2.01 74	104 0.28 38	94 20 9	104 17.5 54	94 4.2 34	101 76 32	101 30.3 41				100 -1.6 32	94 -4.4 8	106 28.8 34					
GMO 250044 6020462690 CYNTHIA	2	JA 210029 GMO 220046	87 71	116 54	95 36	89 11	105 22	104 31				87 2.22 74	101 0.40 40	111 37 11	116 23.6 54	95 4.7 36	105 86 34	117 44.2 40	108 157 11			111 19.2 16	107 -7.0 33	103 -6.6 12	110 32.2 34	104 22 16	105 39 15		
GMO 250046 6020462716 HAZEL	2	JA 210029 GMO 220047	99 71	111 54	96 35	89 11	98 22	105 31				98 1.25 74	107 0.15 39	111 37 11	111 21.1 54	96 5.1 35	102 79 33	112 40.7 40	111 170 11			113 19.9 15	108 -7.7 33	96 -4.8 11	110 32.1 34	106 23 16	108 42 14		
GMO 250048 6020462732 ELEANOR	2	TZ 200057 GMO 150033	96 73	118 59	100 48	91 14	83 28	109 37				96 1.48 75	100 0.45 47	109 35 14	118 24.5 59	100 6.3 48	110 99 40	121 47.7 44	117 206 31			123 24.8 36	101 -2.4 36	81 -1.2 21	105 28.5 41	118 32 37	115 52 35		
GMO 250050 6020462757 INKY	3	TZ 200057 GMO 180051	89 73	113 57	95 43	101 5	98 26	104 33				90 2.02 75	97 0.56 45	99 24 5	113 21.9 57	95 4.8 43	107 91 35	112 40.5 40	113 180 30			115 20.8 36	100 -1.5 34	97 -5.1 18	96 22.1 38	111 27 37	107 41 35		
GMO 250051 6020462765 KATHY	1	SF 210085 GMO 150005	102 72	90 53	75 47	109 14	92 29	75 36				101 1.05 74	114 -0.14 46	91 16 14	90 10.5 53	75 -1.6 47	76 20 38	87 18.7 44	87 45 31			79 3.7 37	102 -2.8 36	91 -3.5 22	91 18.7 38	86 9 37	81 8 35	84 -2.21 7	
GMO 250053 6020462781 SHELLY	1	SF 210085 GMO 210073	112 70	99 50	86 36	96 11	113 24	97 31				109 0.30 73	119 -0.37 38	104 29 11	99 14.9 50	86 1.8 36	87 46 32	99 28.8 40	101 121 33			107 17.0 39	103 -3.8 33	113 -9.0 15	103 27.0 34	101 19 39	95 26 37		
GMO 250054 6020462807 SHIRLEY	1	SF 210085 GMO 180004	111 72	89 53	94 44	98 13	94 28	88 35				109 0.31 74	112 -0.09 44	102 28 13	89 10.2 53	94 4.2 44	87 44 37	87 18.9 42	97 97 31			98 12.8 37	100 -1.4 36	93 -4.1 21	97 22.4 35	100 19 38	93 23 36		
GMO 250058 6020462831 ONASIS	8	GMO 220063 GMO 170047	92 71	96 52	98 43		110 18					93 1.76 73	95 0.64 43		96 13.4 52	98 5.5 43		94 24.8 34				130 -25.6 30	103 -6.4 7	111 32.4 33					
GMO 250062 6020462526 ABIGAIL	1	SF 210085 GMO 150034	119 72	88 54	104 47	98 13	92 30	96 36				117 -0.46 74	105 0.23 46	102 28 13	88 9.2 54	104 7.6 47	93 59 38	89 20.7 43	102 123 32			103 15.1 38	100 -1.7 37	91 -3.7 22	98 23.3 39	105 23 38	98 30 36		

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Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame		Carcass			
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling
ID Number Name																													
GMO 250066 6020469513 SOPHIE	1	SF 210085 GMO 210070	106 70	101 52	95 38	100 11	98 24	100 32				105 0.66 73	108 0.11 40	100 25 11	101 15.8 52	95 4.8 38	97 69 34	102 31.4 41	99 109 29		101 14.2 34	94 3.8 33	99 -5.6 15	100 24.7 33	102 20 35	96 27 33			
GMO 250068 6020469497 SOPHIA	1	SF 210085 GMO 190086	110 71	93 52	90 42	106 12	93 25	91 33				108 0.38 73	113 -0.10 42	94 20 12	93 11.9 52	90 3.1 42	89 50 35	93 24.1 40	94 81 30		91 9.3 35	97 1.3 33	93 -4.1 17	102 26.0 34	96 16 36	89 19 34	90 -1.58 6		
GMO 250070 6020469539 TAMMY	8	GMO 220063 GMO 160033	90 71	98 52	90 44		97 20					91 1.93 73	101 0.41 43		98 14.4 52	90 3.2 44		95 25.7 32				103 -3.9 31	96 -4.7 8	107 29.7 34					
GMO 250075 6020469448 MELODY	1	GMO 220063 GMO 210009	98 70	93 50	88 40	109 6	115 24	89 31				98 1.30 72	104 0.29 40	91 16 6	93 11.7 50	88 2.5 40	88 48 32	90 21.2 34	99 108 16		96 11.8 20	105 -5.4 31	114 -9.2 16	110 32.0 33	96 16 20	94 24 19			
GMO 250076 6020469455 PANDA	1	SF 210085 GMO 150024	108 72	94 54	99 48	102 15	104 30	98 37		98 6		107 0.43 74	102 0.35 47	98 24 15	94 12.3 54	99 6.0 48	96 65 39	96 26.2 43	102 125 32		103 15.4 38	99 -1.0 36	104 -6.8 23	100 25.0 39	105 23 38	100 32 36	98 -0.61 8		
GMO 260001 6020454101 BERTHA	2	JA 210029 GMO 150079	99 59	96 56	102 47	102 13	83 28	93 36				99 1.19 60	101 0.41 46	98 24 13	96 13.3 56	102 6.8 47	99 72 39	95 25.3 42			99 13.2 10	109 -8.6 37	79 -0.7 18	108 30.4 39	97 17 10	98 29 8			
GMO 260003 6020454127 BEAUTY	2	JA 210029 GMO 180043	93 58	102 56	87 43	103 12	81 26	86 34				92 1.82 59	109 0.06 42	97 23 12	102 16.2 56	87 2.3 43	93 58 37	99 28.8 42	103 131 8		97 12.1 11	96 1.5 35	81 -1.1 17	103 27.0 38	104 22 12	101 34 11			
GMO 260005 6020454143 ROSIE	3	JA 210029 GMO 210028	93 56	105 54	98 37	102 8	80 21	96 30				93 1.70 58	99 0.50 36	98 23 8	105 17.9 54	98 5.7 37	104 83 33	104 33.6 40				96 2.1 32	80 -1.0 10	105 28.5 33					
GMO 260007 6020454150 FIONA	2	JA 210029 GMO 230002	94 55	99 53	99 34	107 13	92 21	95 30				95 1.57 57	99 0.47 35	93 18 13	99 14.8 53	99 5.9 34	101 78 33	97 27.3 40	99 106 9		96 12.0 14	103 -4.0 32	90 -3.4 10	109 30.9 33	98 17 15	99 31 13			
GMO 260008 6020454168 ANNABELL	2	JA 210029 GMO 210018	96 55	104 54	95 34	100 10	84 22	95 30				96 1.47 57	101 0.39 35	100 26 10	104 17.4 54	95 4.8 34	100 74 33	104 33.2 39				97 1.3 32	84 -1.8 12	106 29.4 34					
GMO 260009 6020454176 ANNIE	5	JA 210029 GMO 160034	94 59	105 57	91 47	102 9	94 26	95 34				93 1.70 60	105 0.22 46	98 23 9	105 17.8 57	91 3.4 47	98 69 38	105 34.0 44				105 -5.4 35	92 -3.9 17	108 30.3 39					
GMO 260011 6020454192 JOSIE	2	JA 210029 GMO 150061	103 59	92 55	104 47	98 12	91 27	93 35				103 0.86 60	101 0.40 47	102 28 12	92 11.6 55	104 7.6 47	97 67 38	90 21.7 42				98 12.7 7	112 -11.6 36	86 -2.5 18	106 29.2 39	99 18 7	101 33 5		

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Animal			Selection Values										Birth		Wean				Growth			Fertility				Frame		Carcass							
Index EBV Acc	ID	Name	% Inbreeding	Sire ID	Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Carcass Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	EMA	Fat	Marbling			
GMO 260012	6020454200	JOYFUL	2	JA 210029	GMO 150074	104	98	97	97	85	93				103	104	103	98	97	95	97				94	102	83	102	96	98					
						59	57	46	12	26	35				0.79	0.25	29	14.2	5.2	63	27.7				10.9	-2.8	-1.7	26.3	16	29					
															60	46	12	57	46	38	42				10	36	17	39	10	9					
GMO 260014	6020454226	LILLY	2	JA 210029	GMO 220077	94	106	98	94	96	99				94	103	106	106	98	102	106	105			109	108	93	111	99	101					
						56	54	36	11	22	31				1.63	0.31	32	18.6	5.7	78	34.8	138			17.9	-7.7	-4.1	32.8	19	34					
															58	37	11	54	36	34	40	11			15	33	12	35	16	14					
GMO 260015	6020454234	LOLA	2	JA 210029	GMO 180064	94	104	94	103	108	100				94	102	97	104	94	100	104				105	108	107	107	103						
						58	56	44	11	26	34				1.61	0.36	23	17.5	4.3	74	33.1				16.2	-8.2	-7.4	29.7	21						
															59	44	11	56	44	37	40				8	34	17	38	5						
GMO 260017	6020454259	YVONNE	3	JA 210029	GMO 180024	95	102	96	99	76	91				95	101	101	102	96	99	100	107			105	95	76	105	101	101					
						58	56	43	10	25	33				1.55	0.40	27	16.5	5.1	72	30.3	148			16.1	2.7	0.1	28.7	20	34					
															59	42	10	56	43	36	42	12			17	34	16	36	17	16					

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	GMO 240076 HANK	TZ 180018	GMO 130072	2.1	84 73	128 72	94 54	80 12	120 34	114 43			
					★★★★								
1	GMO 240078 CASPER	TZ 180018	GMO 210009	1.3	87 72	123 71	88 48	79 12	132 32	109 41	108 20	107 37	
2	GMO 240081 FINN	TZ 180018	GMO 160034	1.9	91 73	115 73	93 53	88 12	116 36	106 44			
					★★★★								
1	GMO 240044 SPECKLE	JA 210029	GMO 190031	1.7	101 72	98 70	88 44	102 13	109 25	93 38			
2	GMO 240054 NEPTUNE	JA 210029	GMO 160022	5.0	97 73	103 71	85 47	103 10	94 27	90 39			
3	JA 210029 DRAAD 3DE	JA 180004	JA 140002	6.5	102 85	99 82	94 50	98 25	87 27	92 45			
4	SF 210085 CHIEFTAIN 2ND	PSS 166077	SF 170022	0.0	132 82	84 72	95 49	92 24	104 30	95 44	87 34	91 42	
					★★								
1	GMO 230049 RUSTY	JRE 190098	GMO 200014	1.1	99 72	81 71	104 40	128 14	75 28	86 39			
2	GMO 240024 TRAFALGAR 2	JA 210029	GMO 180043	2.4	99 72	93 70	88 43	106 12	81 26	82 38			
3	GMO 240027 KINGMAN	JA 210029	GMO 180004	1.6	95 72	97 70	92 44	99 12	86 26	85 38			
4	GMO 240034 BRUNO	JA 210029	GMO 160049	5.6	101 72	98 70	83 44	101 9	75 26	82 38			
5	GMO 240041 ESPRESSO	JA 210029	GMO 180024	3.1	97 72	99 70	96 43	99 10	76 25	89 37			
6	GMO 240045 HERSHEY	JA 210029	GMO 150025	1.9	100 72	93 71	92 48	106 12	84 27	86 39			
					★★								
1	GMO 240017 CHARMER	JA 210029	GMO 200043	1.9	104 71	86 70	79 40	107 12	102 24	76 37			

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	GMO 230052 ALVA	TZ 200057	GMO 120024	2.3	92 73	134 72	109 50	78 7	102 28	130 39			
					★★★★★								
1	GMO 230039 NYX	TZ 200057	GMO 160017	2.9	90 73	132 72	99 48	90 8	97 28	123 39			
2	GMO 230053 BESSIE	TZ 200057	GMO 130053	3.4	93 73	125 72	110 48	90 5	99 27	125 38			
3	GMO 240008 KATE	TZ 180018	GMO 150071	2.4	92 72	129 72	102 53	78 11	111 34	122 43			
4	GMO 240055 NELLIE	TZ 200057	GMO 160017	2.9	92 74	129 72	101 48	93 8	97 28	123 39			
					★★★★★								
1	GMO 160017 FAYBEE	SWM 120011	GMO 050036	3.8	100 83	113 80	96 81	107 16	114 50	115 56			
2	GMO 160018 FANCY	TL 120064	GMO 130033	3.6	93 80	125 77	97 75	88 14	84 49	111 54			
3	GMO 160019 USEFUL	SWM 120011	GMO 100017	1.3	92 82	119 78	101 78	91 17	115 48	116 55			
4	GMO 180056 HARRIET	GMO 130011	GMO 090045	2.7	91 79	118 77	99 72	104 8	92 46	112 51			
5	GMO 190005 BAMBIE	TZ 150052	GMO 080012	3.8	80 79	119 75	99 70	109 12	95 48	110 52	102 20	107 46	
6	GMO 200049 KIMBERLEY	GMO 170043	GMO 150028	2.3	98 76	104 72	107 61	109 5	106 40	110 45			
7	GMO 210036 CATHY	TZ 180018	GMO 110018	2.4	83 77	130 74	92 62	80 11	122 42	115 48			
8	GMO 210037 KELLY	TZ 180018	GMO 110004	1.6	87 77	119 75	106 63	88 14	122 44	117 50			
9	GMO 210050 CELESTE	TZ 180018	GMO 110035	2.4	91 76	118 74	107 62	84 12	115 41	116 48			
10	GMO 220034 KIM	TZ 180018	GMO 110004	1.6	81 76	122 73	102 56	89 14	127 42	116 47			
11	GMO 220036 SUGAR	TZ 180018	GMO 150063	1.8	76 76	130 72	95 53	81 12	115 40	112 45			
12	GMO 220037 CHARM	TZ 180018	GMO 130072	2.1	88 74	118 73	97 54	92 12	118 34	112 44			
13	GMO 220039 KARA	TZ 180018	GMO 120013	1.5	84 76	123 73	99 55	90 18	131 42	118 48			
14	GMO 220046 COOL RAIN	TZ 180018	GMO 110018	2.4	85 76	126 73	101 54	80 11	122 40	118 46			
15	GMO 220047 FAMOUS	TZ 180018	GMO 160018	2.5	89 76	129 72	96 51	80 11	110 38	117 44			
16	GMO 220049 FRIENDLY	TZ 180018	GMO 180049	1.8	89 76	119 72	96 50	91 12	126 39	114 45	99 20	109 40	
17	GMO 220055 BEVERLY	TZ 180018	GMO 120052	1.8	91 74	118 73	102 53	89 14	113 36	114 44			
18	GMO 220059 UNITY	TZ 180018	GMO 150070	2.7	86 76	125 72	92 51	84 9	117 38	112 44			
19	GMO 230021 SUZIE	TZ 180018	GMO 140057	1.6	83 74	126 73	95 54	89 14	119 36	115 45			
20	GMO 230035 TOPSY	TZ 180018	GMO 190019	2.2	87 73	120 72	91 48	93 10	119 32	110 41			
21	GMO 230037 JANICE	TZ 200057	GMO 170047	1.9	89 73	118 72	104 47	93 9	100 28	113 39			

Selection List on Cow Value

Cows 2 years and older

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	
Sorted on ID													
					★★★★☆								
22	GMO 230054 ROSIE	TZ 180018	GMO 190005	3.9	81 73	126 72	97 49	90 9	113 32	115 41	103 20	111 37	
23	GMO 230056 MINNIE MOO	TZ 180018	GMO 180032	3.5	85 73	120 72	99 50	87 9	110 32	110 41	103 20	107 37	
24	GMO 230057 DAISY	MS 180005	GMO 120079	2.0	91 74	122 73	106 49	93 7	85 32	116 41			
25	GMO 230058 AGATHA	TZ 200057	GMO 180051	2.8	88 73	121 71	96 43	97 5	99 26	112 37			
26	GMO 230075 LONDON	TZ 180018	GMO 140059	1.7	91 73	121 73	100 54	90 13	118 36	118 44			
27	GMO 230076 ITALY	TZ 180018	GMO 190053	1.7	89 72	121 70	96 49	86 12	116 32	112 41	102 20	109 37	
28	GMO 230079 CARL	TZ 180018	GMO 150070	2.7	77 73	136 72	93 51	81 9	115 34	117 42			
29	GMO 240005 JOAN	TZ 180018	GMO 180026	1.7	72 72	141 71	88 50	77 12	122 33	118 42	111 20	116 38	
30	GMO 240010 KATELYN	TZ 180018	GMO 160018	2.5	85 72	130 71	96 51	81 11	107 34	116 42			
31	GMO 240025 COSY	JA 210029	GMO 180056	1.8	100 72	115 70	100 43	97 10	90 25	111 37			
32	GMO 240058 GMO 240058	TZ 200057	GMO 180049	2.4	101 60	111 58	102 45	98 7	96 27	111 34			
33	GMO 240061 SUGAR	TZ 180018	GMO 140022	1.8	92 74	110 73	99 53	99 15	119 36	110 45			
34	GMO 240062 DOTTIE	TZ 200057	GMO 180029	1.8	82 73	127 72	95 45	96 10	99 27	114 39			
35	GMO 240066 ADA	TZ 180018	GMO 140059	1.7	95 73	110 73	103 54	98 13	117 36	113 44			
36	GMO 240082 PARSLEY	TZ 200057	GMO 140057	1.5	97 73	114 71	103 48	100 10	91 28	113 39			
					★★★★								
1	GMO 150024 RONELL	TL 080038	GMO 100063	1.0	91 84	97 81	107 82	112 19	104 52	102 58			
2	GMO 150028 MALIFICIENT	TZ 120194	GMO 120024	1.6	91 84	108 81	105 83	100 21	107 52	109 59			
3	GMO 150033 UDA	TL 080038	GMO 080073	1.5	91 83	116 80	93 81	95 26	88 54	103 60			
4	GMO 150071 CLARISE	TL 120064	GMO 060011	2.6	103 82	104 79	104 79	97 13	88 50	104 55			
5	GMO 170047 FABULOUS	MS 120012	GMO 120006	1.7	96 83	95 79	107 77	105 17	120 50	102 56			
6	GMO 180015 CYNTHIA	NJB 150002	GMO 110049	1.2	87 79	111 77	106 73	90 17	112 46	108 53			
7	GMO 180049 FIESTY	NJB 150002	GMO 080021	2.2	102 80	102 78	97 74	109 15	115 48	106 54			
8	GMO 180064 CUTIE	GMO 130011	GMO 080069	1.2	86 80	110 77	93 72	108 13	129 47	107 52			
9	GMO 180065 CUPIDO	TZ 120194	GMO 120006	2.1	88 80	103 77	100 73	111 23	106 49	101 55			
10	GMO 190003 LUSH	TZ 150052	GMO 130076	2.3	87 79	108 76	101 73	112 12	97 48	105 52			
11	GMO 190050 DOVE	TZ 150052	GMO 120079	1.6	100 77	94 76	108 70	112 12	88 48	100 52			
12	GMO 190062 EVA	TZ 150052	GMO 150024	1.6	85 77	105 74	104 64	109 13	96 44	102 49			
13	GMO 210060 KUKI	TZ 180018	GMO 110008	2.9	94 76	103 75	94 63	99 12	118 40	100 48			
14	GMO 210080 GERTY	TZ 180018	GMO 150061	2.6	94 75	107 70	108 53	85 11	120 41	109 45			

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
					★★★★								
15	GMO 220013	LANA	JRE 190098	GMO 190003	1.2	75 74	114 71	105 46	115 15	89 36	107 43		
16	GMO 220022	COLLETTE	JRE 190098	GMO 190012	1.4	84 74	104 71	113 44	111 14	83 36	105 43		
17	GMO 220070	ULA	MS 180005	GMO 150033	1.9	89 73	114 72	97 48	101 12	84 38	103 44		
18	GMO 220074	KANTA	MS 180005	GMO 120015	2.0	96 73	106 72	101 48	103 5	86 31	103 40		
19	GMO 230028	BETTY	TZ 180018	GMO 160006	1.8	97 69	110 59	103 49	86 12	106 34	107 39		
20	GMO 230030	BLANCHE	TZ 180018	GMO 190027	3.4	86 73	112 72	95 47	98 10	108 32	103 41	93 20	99 37
21	GMO 230032	DAFFODIL	JRE 190098	GMO 200018	1.5	93 73	98 71	112 42	115 15	84 30	103 40		
22	GMO 230038	JULIE	TZ 200057	GMO 120088	1.8	97 73	109 72	98 50	108 9	92 28	106 40		
23	GMO 230041	KENYA	JRE 190098	GMO 200049	0.8	91 72	96 71	108 41	123 14	89 28	100 39		
24	GMO 230068	SPAIN	MS 180005	GMO 150028	1.8	82 74	121 73	101 49	95 6	89 32	109 41		
25	GMO 240001	JINGLE	TZ 180018	GMO 190018	2.4	86 72	120 71	91 48	90 10	98 32	104 41		
26	GMO 240002	JOYCE	TZ 180018	GMO 150052	2.1	83 73	115 72	99 53	90 12	120 34	108 43		
27	GMO 240003	JUBILANT	TZ 180018	GMO 190083	1.7	81 72	119 71	98 48	91 12	110 32	107 41	99 20	104 37
28	GMO 240011	KRIS	TZ 180018	GMO 120012	1.7	95 73	106 72	96 54	102 14	102 36	102 44		
29	GMO 240015	BEAUTY	TZ 180018	GMO 160062	2.9	97 72	110 72	102 52	94 11	98 34	107 43		
30	GMO 240020	CYNTHIA	JA 210029	GMO 160019	2.0	97 72	110 70	100 46	97 13	101 26	107 39		
31	GMO 240067	LILY	JA 210029	GMO 190005	3.6	85 72	118 71	97 43	100 10	92 25	107 38		
32	GMO 240070	ELSIE	TZ 200057	GMO 160033	2.8	95 73	109 71	99 48	107 7	85 28	104 39		
33	GMO 240072	PUMPKIN	TZ 200057	GMO 190019	2.7	103 72	108 71	100 43	104 5	91 26	109 37		
34	GMO 240080	TULIP	TZ 200057	GMO 150074	2.5	108 73	108 71	106 47	93 7	80 27	109 38		
35	GMO 240083	CLOVER	TZ 200057	GMO 170006	1.8	105 72	102 71	114 47	101 8	83 28	109 39		
						★★★★☆							
1	GMO 140056	SABRA	TL 080038	GMO 080021	2.1	97 83	99 81	83 82	121 18	97 54	92 59		
2	GMO 150034	UMNIYA	MS 120012	GMO 060028	2.1	92 83	99 80	109 80	103 15	81 52	97 57		
3	GMO 150061	GMO 150061	MS 120012	GMO 050049	2.6	104 83	86 74	114 81	97 14	94 52	94 55		
4	GMO 150074	MERIEKE	MS 120012	GMO 070001	1.9	106 82	97 79	99 79	97 15	82 50	94 56		
5	GMO 150079	ANNA	MS 120012	GMO 050060	1.7	96 82	93 75	109 81	105 16	78 53	93 56		
6	GMO 160006	MAGIC	MS 120012	GMO 110043	1.5	104 78	90 74	108 69	101 16	80 50	93 53		
7	GMO 160033	CANDICE	TZ 120194	GMO 060013	1.2	89 83	101 80	90 79	120 22	94 50	94 57		
8	GMO 160034	ZEST	MS 100028	GMO 100062	1.5	85 83	111 81	87 81	107 19	101 52	97 58		

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	
					★★★★								
9	GMO 170006 CINDY	MS 120012	GMO 110026	2.0	107 80	83 78	117 77	112 15	88 50	98 55			
10	GMO 170011 SENDER	MS 120012	GMO 070018	2.0	103 80	89 76	103 71	112 16	95 49	94 53			
11	GMO 180024 CAFTAN	TZ 150052	GMO 150035	3.0	88 78	106 77	99 72	100 11	65 46	91 52	104 20	91 46	
12	GMO 180026 UNDEEN	NJB 150002	GMO 100017	2.8	94 80	107 77	90 73	99 17	109 48	99 54			
13	GMO 180029 ZOEY	TZ 120194	GMO 120013	2.0	80 81	106 77	83 74	114 24	119 49	93 56			
14	GMO 180051 TRISH	TZ 120194	GMO 140051	2.0	84 81	102 76	86 68	116 16	118 47	93 52			
15	GMO 180063 TINY	TZ 120194	GMO 140059	1.9	82 80	109 77	93 73	110 22	94 48	97 55			
16	GMO 190001 SUPERGIRL	TZ 150052	GMO 090029	2.1	102 80	90 69	91 73	114 12	119 48	93 51	91 20	90 45	
17	GMO 190010 LAMBIE	TZ 150052	GMO 140056	2.0	85 70	108 75	94 69	114 12	79 47	95 51			
18	GMO 190019 DORA	GMO 160052	GMO 160017	1.9	94 79	105 75	86 68	114 11	106 44	99 50			
19	GMO 190029 HULK	JRE 150053	GMO 100063	2.0	94 80	98 77	90 73	102 17	127 47	95 53	100 20	94 46	
20	GMO 190031 AFRON	JRE 150053	GMO 120072	1.4	103 79	93 77	84 72	113 17	130 47	94 53			
21	GMO 190072 JESS	TZ 150052	GMO 150028	2.3	82 78	114 76	93 69	100 11	90 46	98 51			
22	GMO 200023 SANDY	MS 170053	GMO 170047	1.7	89 76	101 71	97 59	113 9	90 40	95 45			
23	GMO 210009 KATE	JRE 150053	GMO 120043	1.5	101 77	93 73	84 67	107 16	130 44	91 50			
24	GMO 210018 UNIQUE	GMO 170048	GMO 150034	2.3	90 72	109 71	97 48	102 9	81 40	98 44			
25	GMO 210073 ARIA	TZ 180018	GMO 140031	2.7	82 75	119 71	74 53	101 6	123 40	98 44			
26	GMO 220009 AMAZON	JRE 190098	GMO 190031	2.3	98 72	82 71	104 45	132 15	102 36	93 43			
27	GMO 220030 KATE	MS 180005	GMO 120072	1.7	87 75	103 72	97 49	113 8	103 38	99 43			
28	GMO 230002 UNI	JRE 190098	GMO 160019	1.7	87 71	99 70	104 48	117 16	96 36	99 43			
29	GMO 230004 TINA	JRE 190098	GMO 180063	0.9	72 71	106 70	96 46	120 15	84 31	92 41			
30	GMO 230009 HAELI	JRE 190098	GMO 180056	0.9	88 71	99 70	103 45	120 14	82 29	97 40			
31	GMO 230013 DEAR	JRE 190098	GMO 130076	0.8	95 72	87 70	103 49	132 16	90 32	94 42			
32	GMO 230016 GMO 230016	JRE 190098	GMO 200010	1.2	96 57	87 56	113 39	121 15	72 28	93 35			
33	GMO 240018 JOYCE	JA 210029	GMO 190086	3.7	88 72	109 70	90 42	106 9	85 23	95 36			
34	GMO 240046 BOSSY	JA 210029	GMO 150024	1.4	102 73	90 71	103 48	113 13	94 28	96 40			
35	GMO 240059 MOCHA	JA 210029	GMO 200061	3.3	92 70	107 69	93 39	106 8	97 23	99 35			
					★★★								
1	GMO 140040 CARLEIGH	GMO 060050	GMO 100002	3.2	95 84	95 80	73 82	118 12	131 48	86 55			
2	GMO 150043 BARBIE	MS 100028	GMO 120052	1.3	103 83	89 80	86 80	117 20	88 52	84 58			

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	
★★													
3	GMO 150052	CUP CAKE	MS 120012	GMO 090043	2.3	98 83	81 80	104 81	110 14	107 49	87 56		
4	GMO 150056	ADDY	MS 120012	GMO 090045	2.1	97 82	89 79	99 79	109 14	70 50	82 55		
5	GMO 150063	SUGAR & SPICE	MS 120012	GMO 080026	1.6	89 82	94 80	102 81	105 15	92 50	89 56		
6	GMO 160049	BEAUTY 2	MS 100028	GMO 110035	2.4	93 80	109 77	72 74	101 18	64 52	80 56		
7	GMO 160062	SOPHIE	MS 120012	GMO 080012	2.4	96 82	93 79	99 78	113 15	65 50	86 55		
8	GMO 180003	CYPRUS	MS 120012	GMO 120015	1.6	100 80	88 77	98 74	104 14	84 50	83 54		
9	GMO 180004	UNICE	MS 120012	GMO 110042	2.6	94 80	91 77	94 74	104 15	84 50	81 54		
10	GMO 180043	JUSTINE	TZ 120194	GMO 080073	3.2	83 78	105 76	80 70	108 21	75 48	80 54		
11	GMO 190018	DELLY	GMO 160052	GMO 160012	1.8	94 77	99 73	85 66	110 10	65 44	82 49		
12	GMO 190086	VINO	GMO 160052	GMO 160033	1.7	85 78	102 75	85 67	119 10	82 44	86 49		
13	GMO 200043	MARY	JRE 150053	GMO 110018	1.2	95 76	103 74	66 63	99 16	120 44	81 50		
14	GMO 200064	FIESTY	GMO 170043	GMO 150061	1.7	105 76	88 71	93 60	112 6	99 40	89 45		
15	GMO 220007	LOUISE	JRE 190098	GMO 190010	1.1	83 67	95 71	100 44	128 15	77 36	89 43		
16	GMO 220017	DIANE	JRE 190098	GMO 190018	1.0	99 74	84 71	99 43	128 14	70 36	84 42		
17	GMO 240033	BELLA	JA 210029	GMO 140031	2.8	104 72	87 71	78 47	123 5	94 24	80 37		
★★													
1	GMO 190030	HAGEN	TZ 150052	GMO 150013	2.6	84 73	100 72	79 55	120 11	69 37	77 44		
2	GMO 200030	ALICE	JRE 150053	GMO 110004	1.6	100 77	92 74	73 64	108 17	110 44	79 50		
3	GMO 200045	JOYCE	JRE 150053	GMO 100063	2.0	85 77	100 74	70 64	106 17	119 45	79 50	97 20	80 44
4	GMO 210069	SONJA	GMO 170048	GMO 160062	2.7	88 74	99 73	80 58	114 9	71 36	78 44		
5	GMO 240026	BOUNCERBOY	JA 210029	GMO 150005	5.3	89 72	97 70	78 46	116 10	83 26	78 38		
6	GMO 240028	JOAN	JA 210029	GMO 150013	5.2	109 72	77 70	81 46	127 9	74 26	70 38		
★													
1	GMO 150003	ADDIE	MS 100028	GMO 050001	2.3	100 82	87 78	63 77	130 19	65 50	63 56		
2	GMO 230006	JUMBO	JRE 190098	GMO 150013	0.9	93 71	79 70	84 47	139 16	67 32	69 42		
★													

Selection List on Cow Value

Cows 2 years and older

ID Name Sorted on ID			Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
						★								
1	GMO 150005	JULES	MS 100028	GMO 060035	1.9	8682	8679	6079	12621	8052	5657			

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	GMO 250047	HOOCH	TZ 200057	GMO 180049	2.4	105 73	109 58	103 45	98 7	96 27	111 35		
					★★★★								
1	GMO 250001	MONSTER	JA 210029	GMO 180015	2.0	97 70	103 56	101 44	94 12	99 26	100 35		
2	GMO 250009	JACK	JA 210029	GMO 130076	1.7	97 71	105 57	94 47	106 14	98 28	101 37		
3	GMO 250019	GALLANT	TZ 200057	GMO 180003	1.7	103 73	102 58	104 45	96 8	81 28	100 35		
4	GMO 250026	MONSTERMAN	SF 210085	GMO 210080	1.0	110 70	99 50	100 36	89 12	112 24	102 31		
5	GMO 250030	CARLOS	JA 210029	GMO 220049	2.0	96 71	108 54	95 35	95 11	106 22	103 31		
6	GMO 250041	TITAN	SF 210085	GMO 160019	1.3	116 72	100 53	99 46	92 14	109 27	106 35		
7	GMO 250049	MUSCLEMAN	JA 210029	GMO 220036	1.8	93 71	111 54	96 36	90 11	101 22	102 31		
8	GMO 250052	SEBASTIAN	TZ 200057	GMO 180029	1.8	91 73	113 59	95 45	100 10	98 27	105 36		
9	GMO 250055	SHIRLOCK	SF 210085	GMO 180056	0.7	112 72	101 52	97 43	98 12	98 26	103 34		
10	GMO 250065	SABLE	TZ 200057	GMO 190029	3.1	100 73	107 58	100 45	95 6	102 26	105 34		
11	GMO 250067	STRONGARM	SF 210085	GMO 200060	0.7	124 70	88 51	93 39	104 10	118 24	100 31		
12	GMO 250072	MORNE	GMO 220063	GMO 160017	2.8	101 71	100 53	95 46	109 5	107 26	101 33		
13	GMO 250073	MUSICA	TZ 200057	GMO 190019	2.7	95 73	114 57	96 43	101 5	92 26	107 33		
14	GMO 250074	MANGO	SF 210085	GMO 210036	1.1	107 71	108 52	93 40	86 12	113 25	105 33		
15	GMO 260010	JUMPER	JA 210029	GMO 150028	2.0	97 60	103 58	100 48	99 12	97 28	100 36		
16	GMO 260016	MARTAIN	JA 210029	GMO 220045	2.0	93 56	109 54	92 36	96 11	107 22	101 31		
17	GMO 260018	BUSTER 2	JA 210029	GMO 210037	2.2	95 57	109 54	100 40	93 12	105 24	105 32		
					★★★★☆								
1	GMO 250011	BOND	JA 210029	GMO 200014	3.5	104 68	94 54	96 38	107 8	83 22	91 31		
2	GMO 250013	BOMBER	JA 210029	GMO 190010	2.7	91 67	104 55	94 42	106 11	83 26	94 34		
3	GMO 250029	BUSBY	JA 210029	GMO 220013	2.0	83 71	110 53	98 33	107 12	88 20	99 30		
4	GMO 250057	OXFORD	SF 210085	GMO 180063	0.7	108 72	96 53	94 44	101 15	99 28	96 35		
5	GMO 250069	SOLAR	SF 210085	GMO 190031	0.7	116 71	91 53	89 44	102 14	117 26	95 34		
6	GMO 260002	ROCKETMAN	JA 210029	GMO 210055	1.9	97 56	104 54	93 39	100 10	94 22	96 31		
7	GMO 260006	BERTRAM	JA 210029	GMO 190050	2.6	101 58	96 56	101 42	105 11	88 26	96 34		
8	GMO 260013	MANFRED	JA 210029	GMO 170006	1.6	105 58	91 56	106 46	105 12	88 26	95 35		

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	GMO 250004	JESTER	JA 210029	GMO 200045	1.4	9170	10155	8140	10213	10325	8534			
2	GMO 250042	JOLLYBOY	JA 210029	GMO 220017	2.5	10371	9054	9732	11311	7920	8830			
3	GMO 250064	LION	GMO 220063	GMO 160022	1.8	9571	9553	8546	1157	9927	8634			
4	GMO 250071	JONAH	SF 210085	GMO 160049	0.9	11972	9353	8644	9713	8429	8835			
5	GMO 260004	MAN UTD	JA 210029	GMO 200043	1.9	9858	10155	8040	9812	10424	8733			
						★★☆								
1	GMO 250056	MAGNUM	GMO 220063	GMO 150003	2.5	9971	8952	7744	1216	8226	7532			

Selection List on Cow Value

Heifers younger than 2 years

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	
Sorted on ID													
1	GMO 250008	BASHFUL	JA 210029	GMO 200018	1.9	106 70	103 55	107 40	94 12	92 25	106 33		
2	GMO 250017	GEORGIE	TZ 200057	GMO 180026	1.7	97 73	114 58	98 45	93 9	93 26	107 35		
3	GMO 250022	JOAN	JA 210029	GMO 220034	2.2	85 71	114 54	96 37	93 12	107 24	103 32		
4	GMO 250023	CELEST	TZ 200057	GMO 160006	1.9	107 73	103 57	109 43	94 8	79 28	105 35		
5	GMO 250025	CAFTAN	TZ 200057	GMO 190083	2.5	105 73	102 57	108 43	98 6	82 26	105 34		
6	GMO 250027	ALICE	TZ 200057	GMO 150043	2.0	109 73	100 59	99 48	102 9	83 29	100 37		
7	GMO 250031	CUPID	TZ 200057	GMO 180065	1.9	98 73	110 58	105 45	99 9	92 26	109 35		
8	GMO 250037	CHRISTINE	JA 210029	GMO 220039	1.9	93 71	111 54	96 37	94 13	109 23	105 32		
9	GMO 250039	ROSIE	JA 210029	GMO 220059	2.7	96 71	111 54	94 35	91 10	102 22	102 31		
10	GMO 250044	CYNTHIA	JA 210029	GMO 220046	2.4	87 71	116 54	95 36	89 11	105 22	104 31		
11	GMO 250046	HAZEL	JA 210029	GMO 220047	2.5	99 71	111 54	96 35	89 11	98 22	105 31		
12	GMO 250048	ELEANOR	TZ 200057	GMO 150033	2.1	96 73	118 59	100 48	91 14	83 28	109 37		
13	GMO 250050	INKY	TZ 200057	GMO 180051	2.8	89 73	113 57	95 43	101 5	98 26	104 33		
14	GMO 250066	SOPHIE	SF 210085	GMO 210070	0.7	106 70	101 52	95 38	100 11	98 24	100 32		
15	GMO 260015	LOLA	JA 210029	GMO 180064	1.8	94 58	104 56	94 44	103 11	108 26	100 34		
1	GMO 250007	BRIGHT	JA 210029	GMO 170011	1.9	108 70	91 55	100 43	105 13	91 26	93 34		
2	GMO 250020	JOYCE	TZ 200057	GMO 200030	1.6	101 72	106 57	91 41	97 9	94 26	98 34		
3	GMO 250032	BARBIE	SF 210085	GMO 140056	0.9	109 72	96 54	87 48	106 14	100 30	93 37		
4	GMO 250033	BEAUTY	TZ 200057	GMO 150056	2.4	96 73	106 59	102 47	98 6	74 27	99 35		
5	GMO 250035	BASHFUL	JA 210029	GMO 220022	2.2	96 71	99 54	105 33	104 12	85 20	99 30		
6	GMO 250036	BETTINA	JA 210029	GMO 220009	1.5	90 70	96 54	95 33	115 12	95 20	92 30		
7	GMO 250043	MONICA	JA 210029	GMO 220030	2.7	90 71	104 54	94 34	106 9	95 20	95 30		
8	GMO 250053	SHELLY	SF 210085	GMO 210073	1.1	112 70	99 50	86 36	96 11	113 24	97 31		
9	GMO 250062	ABIGAIL	SF 210085	GMO 150034	0.7	119 72	88 54	104 47	98 13	92 30	96 36		
10	GMO 250068	SOPHIA	SF 210085	GMO 190086	0.7	110 71	93 52	90 42	106 12	93 25	91 33		
11	GMO 250076	PANDA	SF 210085	GMO 150024	0.7	108 72	94 54	99 48	102 15	104 30	98 37		
12	GMO 260001	BERTHA	JA 210029	GMO 150079	2.3	99 59	96 56	102 47	102 13	83 28	93 36		
13	GMO 260005	ROSIE	JA 210029	GMO 210028	3.1	93 56	105 54	98 37	102 8	80 21	96 30		
14	GMO 260007	FIONA	JA 210029	GMO 230002	1.7	94 55	99 53	99 34	107 13	92 21	95 30		

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	
					★★★★☆								
15	GMO 260008	ANNABELL	JA 210029	GMO 210018	2.0	96 55	104 54	95 34	100 10	84 22	95 30		
16	GMO 260009	ANNIE	JA 210029	GMO 160034	5.0	94 59	105 57	91 47	102 9	94 26	95 34		
17	GMO 260011	JOSIE	JA 210029	GMO 150061	2.2	103 59	92 55	104 47	98 12	91 27	93 35		
18	GMO 260012	JOYFUL	JA 210029	GMO 150074	1.9	104 59	98 57	97 46	97 12	85 26	93 35		
19	GMO 260014	LILLY	JA 210029	GMO 220077	2.3	94 56	106 54	98 36	94 11	96 22	99 31		
20	GMO 260017	YVONNE	JA 210029	GMO 180024	3.1	95 58	102 56	96 43	99 10	76 25	91 33		
					★★★								
1	GMO 250054	SHIRLEY	SF 210085	GMO 180004	1.2	111 72	89 53	94 44	98 13	94 28	88 35		
2	GMO 250075	MELODY	GMO 220063	GMO 210009	1.4	98 70	93 50	88 40	109 6	115 24	89 31		
3	GMO 260003	BEAUTY	JA 210029	GMO 180043	2.4	93 58	102 56	87 43	103 12	81 26	86 34		
					★★★								
1	GMO 250051	KATHY	SF 210085	GMO 150005	0.7	102 72	90 53	75 47	109 14	92 29	75 36		

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

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

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

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

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

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

How to use breeding values to select animals

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

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

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

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

How to improve the herd genetically

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

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

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

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

Conclusion

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

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

