

SOUTH DEVON

BREEDING VALUE REPORT

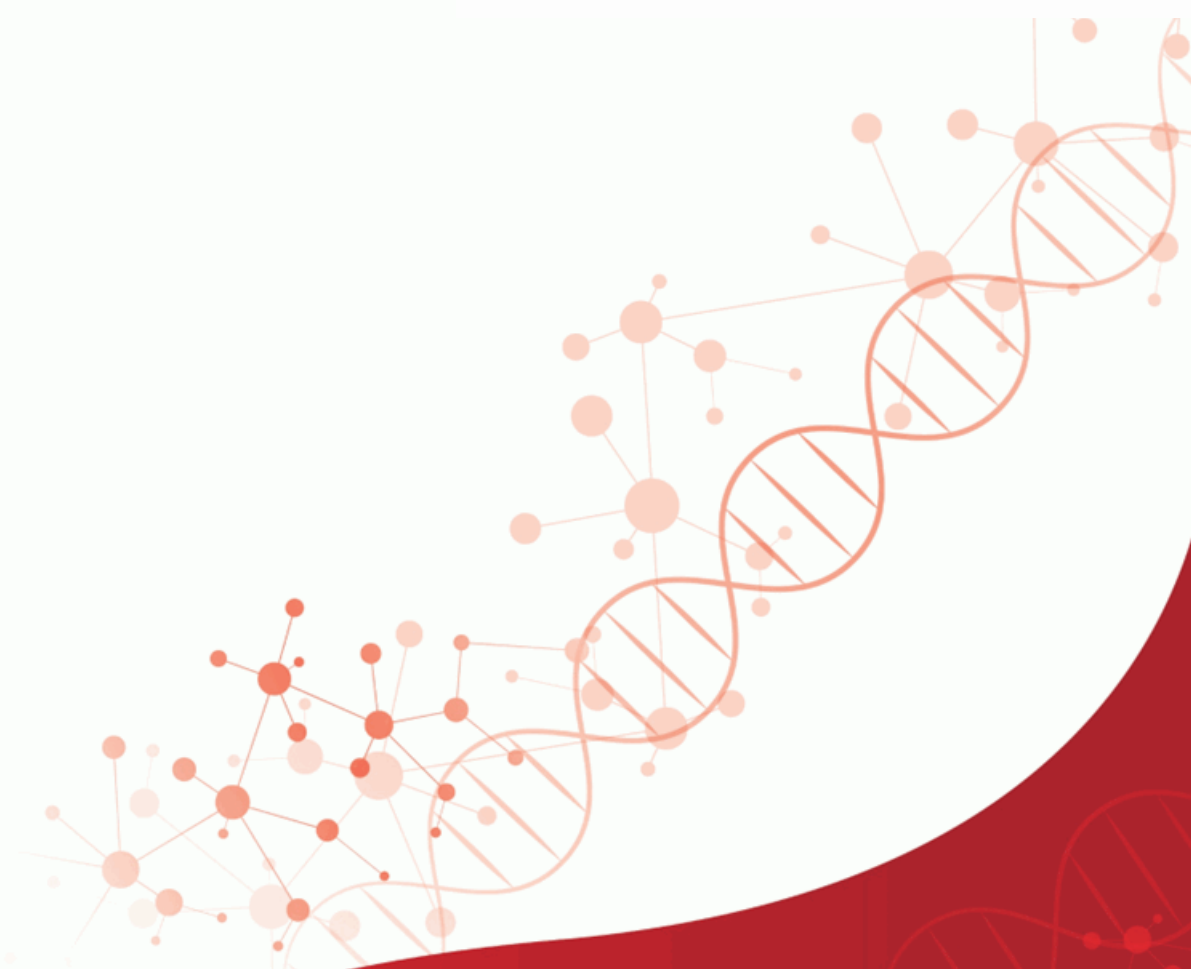
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EBVs, EBVi's and GEBVs

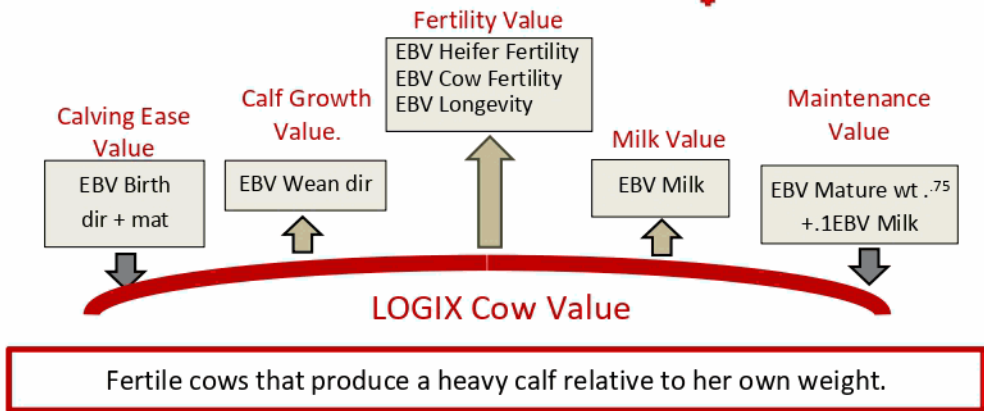
EBVi (Breeding Value Index): Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

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

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

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

LOGIX Cow Value



Selection Values

LOGIX Cow Value



Selecting for:

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

LOGIX Growth Value



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

LOGIX Production Value



80% LOGIX Cow Value +
20% LOGIX Growth Value

LOGIX Carcass Value



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

How to use the Cow Value

Selection values should be compatible with your selection goal.

AVERAGE ANIMALS

(NO GROWTH EXTREMES)

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

GROWERS

(GOOD ENVIRONMENT)

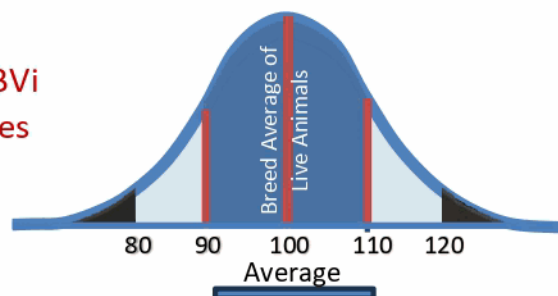
- WeanerCalf / Growth Value > 120
 - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

LOW- MAINTENANCE ANIMALS

(HARSH ENVIRONMENT)

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

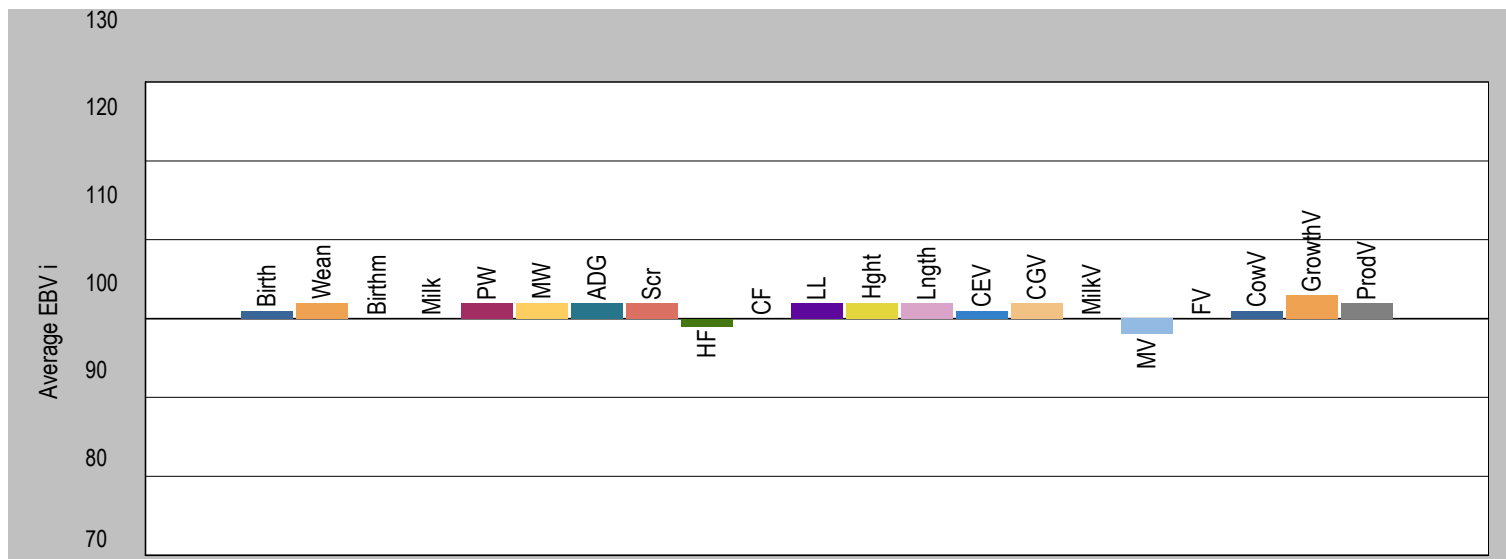
Interpretation of EBVi and Selection Values



Examples

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

Herd and Breed Averages



Breeding Values:

Birth:	Birth weight	Scr:	Scrotal circumf.
Wean:	Weaning weight	HF:	Heifer Fertility
Birthm:	Birth maternal	CF:	Cow Fertility
Milk:	Milk	LL:	Longevity
PW:	Post-wean weight	Hght:	Height
MW:	Mature weight	Lngth:	Length
ADG:	Average Daily Gain		

Selection Values:

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

	Trait	EBV Herd	EBV Index	EBV Breed
Prewean Growth	Birth Weight	-1.36	101	-1.27
	Wean Weight	17.7	102	16.9
	Birth Mat.	-0.15	100	-0.14
	Milk (Wn.Mat.)	-1.4	100	-1.4
Postwean Growth	Postwean Wt	25.8	102	24.5
	Mature Weight	18	102	15
	ADG	76	102	69
Fertility	Scrotal Circumf.	8.5	102	7.3
	Heifer Fertility	-3.0	99	-3.6
	Cow Fertility	-7.7	100	-7.7
	Longevity	27.3	102	26.5
Frame	Height	6	102	4
	Length	19	102	17

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

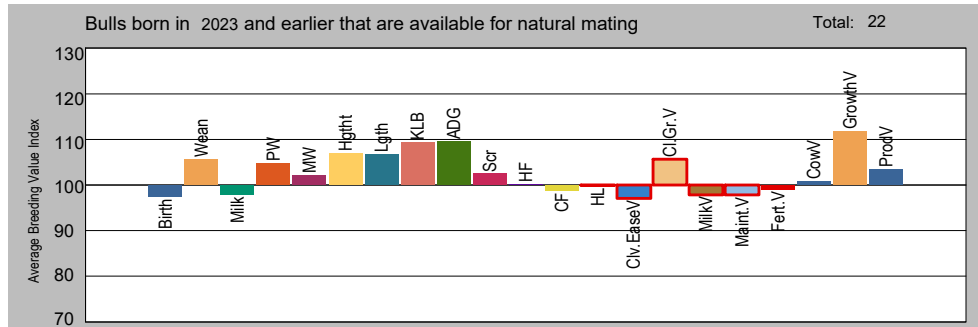
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

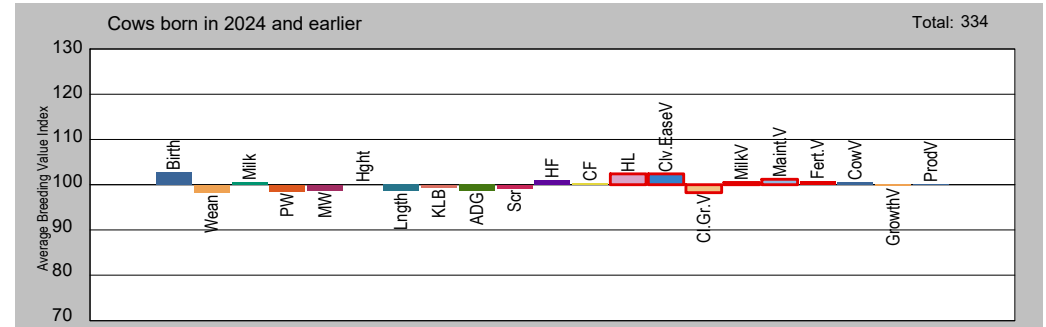
Genetic Windows

Bulls on the farm



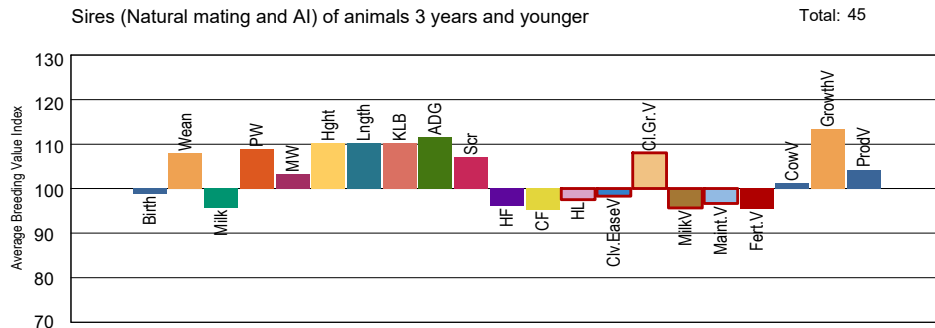
Animals available for breeding

Cow Herd

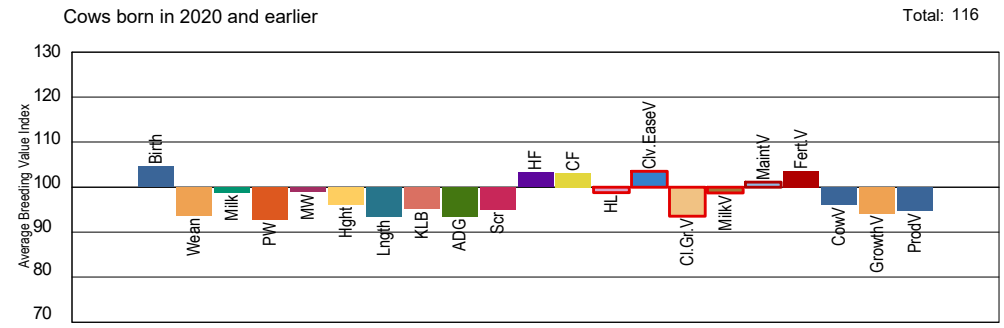


Results of previous selection decisions

Sires of young animals

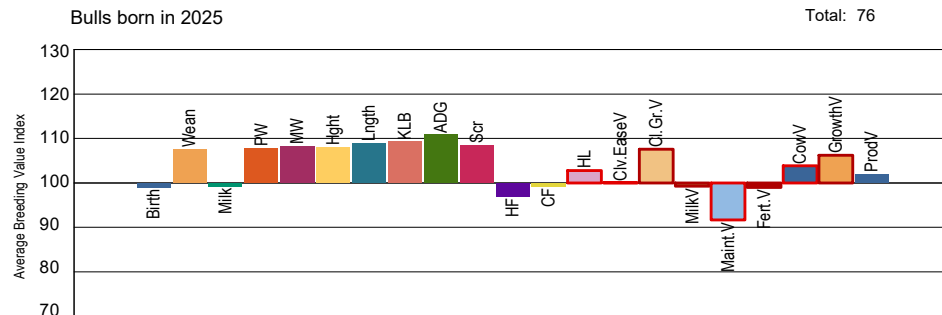


Cows older than 6 years

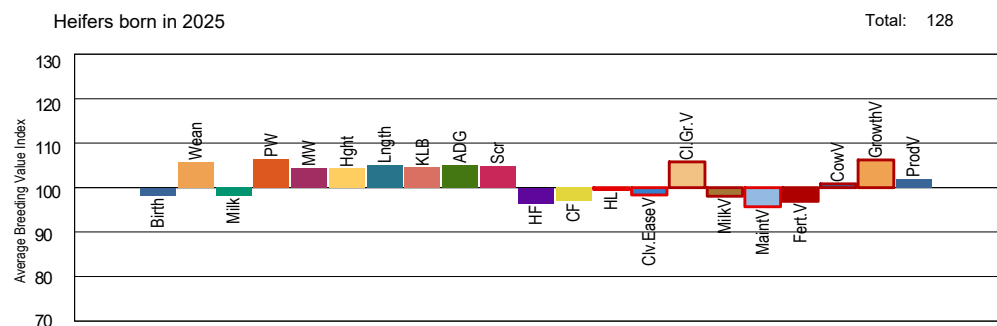


Selection possibilities

Bull calves



Heifer calves

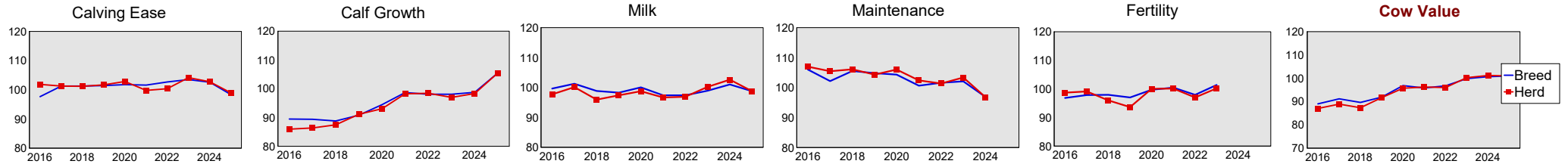


Summary of Cow Herd

			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	99	100	101	100	99	98	99	100	99	101	100	99	99	98	98	99	101	100	100	99	98
2012	1	★★★★★	110	82	137	86	101	112	104	111	127	82	106	137	85	114	109	107	121	112	98	89	123	111
2013	1	★★★★☆	104	81	106	97	101	88	83	85	107	81	65	106	86	103	89	97	90	66	108	85	88	81
2014	3	★★★★	95	98	101	96	99	95	100	95	93	98	109	101	97	104	98	101	94	96	99	90	100	94
2015	1	★★★★☆	116	91	96	102	106	101	85	96	109	91	129	96	81	98	87	86	91	102	107	124	103	91
2016	11	★★★★	103	89	108	102	105	99	89	96	103	89	98	108	89	98	91	92	96	105	105	95	101	94
2017	35	★★★★	97	96	104	97	106	98	95	97	97	96	102	104	94	103	94	94	94	102	107	101	97	96
2018	33	★★★★☆	104	89	93	104	103	86	85	84	104	89	103	93	86	96	87	92	91	104	102	97	88	85
2019	23	★★★★	103	96	97	103	98	97	97	96	103	96	102	97	98	97	94	95	97	101	96	98	97	97
2020	20	★★★★☆	111	97	98	104	112	106	101	105	116	97	113	98	97	96	98	99	97	107	112	110	96	95
2021	36	★★★★☆	99	100	101	99	103	100	99	100	101	100	98	101	100	101	97	96	102	99	103	103	100	98
2022	60	★★★★☆	102	101	99	103	97	101	103	102	103	101	100	99	102	97	101	101	99	96	98	102	103	103
2023	70	★★★★☆	105	101	101	104	99	105	105	105	103	101	100	101	102	96	103	105	103	102	98	103	102	102
2024	55	★★★★☆	100	101	106	98	100	104	102	104	99	101	97	106	101	102	102	102	103	101	99	110	103	102
2025	128	★★★★☆	98	106	98	96	97	101	106	102	98	106	99	98	106	104	105	104	105	96	97	100	104	105
Cows in Herd Average:			103	95	103	99	102	100	97	98	105	95	102	103	95	101	97	98	99	99	102	101	100	97

Genetic Trends for On-Farm Traits

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



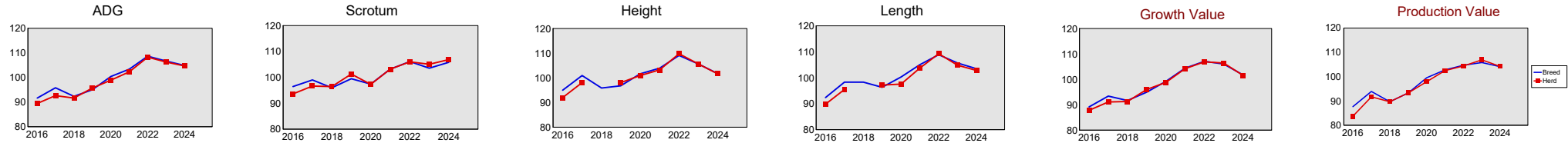
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility							Cow Value
	Birth Weight		Calv. Ease	Weaning Weight	Calf Growth	Milk (Wn.Mat.)		Postwean Weight	Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Fertility					
	Number	Dir EBV				Mat EBV	Number		EBV	Number		EBV	Number	EBV	Number	EBV	Number		EBV	Number	EBV		
2016	162	-1.66	-0.01	102	152	10.1	86	152	-2.31	98	106	13.0	51	4	107	52	-5.3	44	-7.3	126	16.3	99	87
2017	217	-1.59	-0.02	101	211	10.3	86	211	-1.33	100	137	15.9	61	8	105	65	-3.9	59	-7.7	215	17.6	99	89
2018	231	-1.58	-0.09	101	206	10.8	87	206	-3.01	96	146	15.0	58	4	106	62	-5.1	56	-6.4	212	18.8	96	87
2019	224	-1.64	-0.15	102	218	12.6	91	218	-2.44	97	120	20.4	51	8	104	53	-1.6	49	-5.6	226	19.0	94	92
2020	236	-1.70	-0.20	103	236	13.5	93	236	-1.89	99	118	21.1	48	7	106	50	-1.7	42	-8.1	206	21.1	100	96
2021	267	-1.48	-0.13	100	255	16.1	98	255	-2.73	97	154	23.5	60	13	102	67	-2.4	52	-8.2	258	23.2	100	96
2022	264	-1.40	-0.10	100	251	16.1	98	251	-2.62	97	143	25.2	65	10	101	68	-1.4	24	-8.1	115	23.0	97	96
2023	271	-1.65	-0.08	104	252	15.4	97	252	-1.32	100	155	25.0	24	11	103	24	-7.0					100	100
2024	250	-1.54	-0.07	103	219	16.1	98	219	-0.34	103	118	24.8			97								101
2025	240	-1.16	-0.11	99	236	19.6	105	236	-1.91	99													101

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance					Fertility							Cow Value
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity		
	Number	Dir EBV			Number	EBV		Number	EBV	Milk	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number		EBV	
2016	454	-1.18	-0.05	98	334	11.8	89	334	-1.55	100	165	14.6	55	5	106	78	-4.2	68	-6.6	465	16.8	97	89
2017	535	-1.52	-0.01	101	419	11.7	89	419	-0.90	101	245	18.6	80	11	102	109	-3.1	97	-7.1	562	17.2	98	91
2018	481	-1.47	-0.09	101	321	11.5	89	321	-1.86	99	160	15.7	72	5	106	106	-5.0	89	-7.0	488	18.6	98	90
2019	505	-1.50	-0.13	101	264	12.4	91	264	-2.09	98	136	20.4	70	8	105	117	-2.0	72	-6.8	484	18.7	97	92
2020	542	-1.51	-0.09	102	357	14.2	95	357	-1.36	100	185	22.7	62	8	104	86	-2.6	54	-8.0	483	20.3	100	97
2021	476	-1.61	-0.01	102	366	16.3	99	366	-2.45	97	197	24.9	66	15	101	86	-2.2	54	-8.3	480	20.5	100	96
2022	477	-1.66	0.03	103	329	16.0	98	329	-2.43	97	175	25.3	65	10	102	77	-1.7	24	-8.1	209	21.4	98	97
2023	326	-1.60	-0.04	103	307	16.0	98	307	-1.82	99	192	25.7	24	11	102	28	-6.9					101	100
2024	315	-1.52	-0.03	103	268	16.3	99	268	-0.98	101	130	25.0			97								101
2025	293	-1.10	-0.06	98	236	19.6	105	236	-1.91	99													101
2026	25	-0.95	-0.05	97																			

Genetic Trends for Growth Test Traits



Herd

Birth Year	Growth						Frame						Selection Values	
	ADG			Scrotal Circumf.			Height			Length			Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		
2016	49	32	89	49	3.2	94	49	-2	92	49	6	90	88	84
2017	63	44	93	63	5.2	97	63	3	98	63	12	95	91	92
2018	57	40	92	57	5.1	97							91	90
2019	52	54	96	52	8.1	101	52	3	98	52	14	97	96	93
2020	48	65	99	48	5.6	97	48	5	101	48	15	98	99	98
2021	62	77	102	62	9.2	103	62	6	103	62	22	104	104	102
2022	43	96	108	43	11.0	106	43	11	110	43	28	109	107	104
2023	54	90	106	54	10.5	105	54	8	106	54	23	105	106	107
2024	52	85	105	52	11.6	107	52	5	102	52	21	103	102	104
2025														

Breed

Birth Year	Growth						Frame						Selection Values	
	ADG			Scrotal Circumf.			Height			Length			Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		
2016	69	40	92	69	5.1	97	69	1	95	69	9	92	89	88
2017	115	54	96	115	6.7	99	115	5	101	115	15	98	93	94
2018	68	42	92	68	4.8	96	11	1	96	11	15	98	92	90
2019	62	52	95	62	7.0	100	62	2	97	62	13	96	95	93
2020	74	70	100	74	5.7	97	74	5	102	74	18	100	99	100
2021	73	80	103	73	9.3	103	73	7	104	73	23	105	104	103
2022	54	98	109	54	11.0	106	54	10	109	54	28	109	107	105
2023	65	91	107	70	9.5	104	70	8	106	70	24	106	106	106
2024	64	85	105	64	10.9	106	64	5	102	64	21	103	102	104
2025														

Sires

Bull			Selection Values							Calf		Dam		Growth			Fertility				Frame		Measured Progeny					
ID	Index EBV Acc	Sire ID Dam ID	Calv.	Calf	Milk	Maint.	Fertility	Cow	Growth	Prod	Birth	Wean	Birth	Wean	Post wn	Mature	ADG	Scrotal	Heifer	Cow	Long-	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth	
			Ease	Grwth	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight		Circ.	Fertility	Fertility	evity			wt	wt		Test	
11005		VAN05003P	81	118	95	89	79	94	107	96	82	118	99	95	111	111	100	101	88	77	45	111	103	11	11	1	4	1
		VAN01017P	74	75	38	32	25	43	30	40	0.56	25.7	-0.11	-3.4	32.8	30	70	7.6	5.1	-0.9	5.2	12	21					
		BURTERGILL HENRY 1105 ET	78	75				41	38		78	75	41	38	40	32	28	34	32	18	44	35	33					
642A		1121	70	137	65	85	99	85	134	96	78	137	54	65	139	115	129	129	87	101	92	122	125	32	32	9	35	10
		507T	90	90	79	66	53	70	76	71	0.95	34.7	1.98	-15.5	52.4	37	167	25.2	5.8	-8.0	23.6	19	47					
		EBS ELKER 1121 642A	91	90				78	79		91	90	78	79	78	66	72	78	68	38	74	74	72					
AC 120010		JM 030338	100	80	104	128	106	93	101	94	96	80	114	104	83	72	95	103	118	103	71	104	95	15	13	3	13	1
		XI 080291	83	82	65	41	42	57	48	55	-0.90	7.0	-0.80	0.3	12.3	-25	51	9.4	-16.4	-8.5	15.2	7	12					
		AC 120010	85	82				64	65		85	82	64	65	58	41	44	50	53	31	69	51	49					
BG 170036		JM 141778	105	92	115	96	128	110	85	104	131	92	107	115	92	104	98	106	108	131	118	69	71	42	42	14	42	13
		BG 090167	92	91	81	71	53	72	80	74	-4.45	12.8	-0.46	4.6	18.7	21	60	11.2	-9.5	-16.9	33.5	-17	-16					
		BG 170036	93	91				79	81		93	91	79	81	78	71	76	83	66	40	71	84	82					
BL 110043		BL 080133	99	102	128	111	92	122	117	123	99	102	92	128	107	89	112	119	104	89	82	119	121	44	42	15	53	10
		BL 080050	93	93	85	65	63	75	82	76	-1.13	17.9	0.23	9.7	29.5	0	110	18.9	-6.4	-4.5	19.5	18	42					
		BL110043	94	93				84	85		94	93	84	85	78	65	79	85	75	51	82	85	83					
BL 120069		BL 070107	99	80	124	113	77	97	67	88	99	80	89	124	83	87	72	105	103	72	73	74	69	63	58	23	81	11
		BL 080090	94	94	88	70	66	78	82	79	-1.18	7.3	0.39	8.2	12.2	-3	-28	10.3	-5.7	0.6	15.8	-15	-19					
		BL120069	95	94				87	88		95	94	87	88	82	70	79	85	78	55	82	84	82					
BL 140061		IRT 080059	94	88	98	130	96	91	118	97	141	88	112	98	99	70	105	124	106	94	89	110	112	103	76	19	45	21
		BL 070141	95	95	85	76	64	78	86	80	-5.43	11.1	-0.70	-2.3	23.8	-27	86	22.6	-7.6	-5.9	22.1	11	31					
		BL140061	96	95				84	85		96	95	84	85	85	76	84	89	77	50	83	88	86					
BL 150081		BL 110078	84	93	125	93	109	101	99	100	84	93	106	125	107	107	103	116	121	106	69	90	103	23	21	2	7	1
		BL 110046	88	88	65	50	42	60	70	62	0.36	13.3	-0.42	8.7	29.4	25	79	17.6	-18.2	-9.4	14.5	-3	20					
		BL150081	90	88				66	65		90	88	66	65	62	50	65	74	53	32	71	75	72					
BL 180092		JM 131648	77	114	89	97	90	88	116	93	78	114	107	89	117	103	117	124	80	92	101	126	113	54	49	12	21	12
		BL 130041	92	92	74	63	50	68	74	69	0.96	23.9	-0.48	-6.0	36.8	19	126	22.0	10.5	-5.3	26.9	23	32					
		BL180092	94	92				73	74		94	92	73	74	78	63	70	77	67	34	69	78	76					
C0008		U0011	93	107	64	111	96	79	109	84	91	107	111	64	101	89	103	107	96	96	62	104	105	45	40	9	23	11
		T0024	91	91	74	54	56	68	74	69	-0.34	20.3	-0.64	-15.7	25.1	0	77	11.4	-1.0	-6.5	11.8	7	23					
		KILDARE CADMAN	93	91				77	74		93	91	77	74	70	54	72	78	67	44	79	78	76					
DVPD008		A0055	89	110	57	81	78	61	101	67	88	110	137	57	100	119	109	82	74	79	69	110	99	50	47	11	21	12
		Y0008	91	92	75	53	56	68	76	70	-0.02	21.6	-1.88	-18.9	24.4	42	101	-4.0	15.0	-1.5	14.5	11	16					
		DAVELLE AWESOME REG D8	93	92				77	75		93	92	77	75	73	53	73	79	70	41	81	79	77					

Sires

Bull			Selection Values							Calf		Dam		Growth			Fertility				Frame		Measured Progeny					
ID	Index EBV Acc	Sire ID Dam ID	Calv.	Calf	Milk	Maint.	Fertility	Cow	Growth	Prod	Birth	Wean	Birth	Wean	Post wn	Mature	ADG	Scrotal	Heifer	Cow	Long-	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth	
			Ease	Grwth	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight		Circ.	Fertility	Fertility	evity			wt	wt		Test	
E530		B41 Y046	71	136	91	82	111	106	124	111	72	136	109	91	139	118	118	94	106	111	102	132	130	40	40	15	72	14
GUM HILL RED 530			91	91	86	71	60	75	80	76	1.55	34.6	-0.58	-4.9	52.4	41	128	3.3	-8.0	-11.0	27.1	27	52					
											92	91	84	86	81	71	76	82	71	49	73	80	78					
JGM14022P	1167		105	112	73	105	69	90	128	98	105	112	82	73	124	95	122	82	73	69	64	126	124	61	60	19	63	19
Z	1111		93	93	85	77	60	76	80	77	-1.81	22.7	0.68	-12.4	41.8	8	144	-3.8	15.7	1.5	12.7	22	45					
WAINUKA EASY 1422 ET											94	93	83	85	80	77	77	83	73	47	61	84	82					
JM 070051	AC 040047		108	75	111	77	95	82	93	83	126	75	93	111	85	123	98	100	113	91	66	103	90	94	88	25	120	15
JM070051			95	95	90	68	70	80	82	80	-3.91	4.8	0.17	3.0	13.7	48	61	7.6	-12.6	-4.9	13.1	6	6					
											96	95	90	90	76	68	79	85	81	58	88	85	83					
JM 101076	WB 930329		110	81	106	94	83	88	102	90	112	81	55	106	91	106	92	95	72	85	52	115	95	24	20	4	22	6
ADMIRAL JM101076			88	88	73	47	46	62	65	63	-2.50	7.8	1.92	1.0	18.2	24	41	4.0	16.4	-3.3	7.6	15	12					
											90	88	72	73	54	47	61	69	57	34	71	71	68					
JM 111199	SGHPZ027		98	129	76	80	101	104	134	112	98	129	94	76	128	120	125	115	98	101	96	126	132	24	24	10	46	10
BLACK MAGIC			90	90	84	65	59	73	82	75	-1.07	31.2	0.15	-11.1	44.9	44	154	16.8	-1.9	-8.0	25.1	23	55					
											91	90	83	84	71	65	78	84	71	47	78	85	83					
JM 111248	TNJ 050290		92	95	94	117	82	87	102	89	91	95	100	94	103	83	101	89	87	82	68	115	102	25	22	6	30	5
BANKER			90	89	79	56	56	69	76	70	-0.40	14.6	-0.16	-3.9	26.8	-8	73	0.3	5.7	-2.3	13.9	15	19					
											91	89	78	79	64	56	73	80	68	45	76	81	78					
JM 121367	SGHPZ027		107	79	63	93	110	59	100	64	108	79	77	63	78	107	102	88	104	111	86	91	91	69	65	18	80	23
CHESTER JM121367			93	93	87	66	62	75	83	77	-2.09	6.8	0.92	-16.2	8.6	26	76	-0.3	-6.6	-10.9	21.0	-2	7					
											94	93	86	87	80	66	81	86	72	51	81	85	83					
JM 121379	TSPU001		102	96	86	104	98	89	89	87	99	96	107	86	87	96	92	89	95	98	84	103	94	21	18	6	26	6
COIN IT JM121379			89	88	78	62	52	68	69	68	-1.19	15.1	-0.48	-6.9	15.2	9	40	0.4	0.1	-7.2	20.1	6	10					
											90	88	77	78	64	62	66	72	63	42	75	73	71					
JM 121398	LW 910005		93	89	132	99	101	109	79	102	92	89	102	132	80	101	83	97	98	101	87	95	86	39	36	8	28	9
CAPTAIN JM 12 1398			92	92	79	60	56	70	80	72	-0.49	11.7	-0.24	11.5	10.3	17	10	5.6	-2.3	-8.1	21.4	1	1					
											93	92	78	79	76	60	76	83	68	45	80	83	81					
JM 121474	BL 060021		89	96	117	99	82	98	93	96	93	96	77	117	99	101	99	90	86	82	55	98	100	72	56	14	43	15
CHAMPAGNE JM121474			94	93	83	65	60	74	80	75	-0.53	15.1	0.91	5.5	23.4	17	66	1.2	6.3	-2.3	8.9	2	18					
											95	93	82	83	78	65	77	83	73	47	84	83	81					
JM 131530	JM 101036		111	69	93	110	81	71	66	66	125	69	105	93	63	90	74	80	96	78	64	78	71	60	55	16	39	24
DIESEL			93	93	82	61	59	72	86	75	-3.85	1.6	-0.39	-4.3	-2.1	1	-21	-5.2	-0.5	-1.2	12.6	-11	-16					
											94	93	82	82	80	61	83	88	71	47	81	87	85					

Sires

Bull			Selection Values							Calf		Dam		Growth			Fertility				Frame		Measured Progeny						
ID	Index EBV Acc	Sire ID Dam ID	Calv.	Calf	Milk	Maint.	Fertility	Cow	Growth	Prod	Birth	Wean	Birth	Wean	Post wn	Mature	ADG	Scrotal	Heifer	Cow	Long-	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth		
			Ease	Grwth	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight		Circ.	Fertility	Fertility	evity			wt	wt		Test		
JM 131588		C0008 JM 060108	113	82	88	120	100	88	85	86	108	82	109	88	72	80	82	94	90	102	79	99	95		66	62	20	83	14
DOUBLE CADDY			94	94	87	66	64	76	83	77	-2.09	8.1	-0.55	-6.1	4.5	-13	7	3.4	3.4	-8.4	18.5	3	12						
											95	94	86	87	84	66	80	86	75	52	83	86	84						
JM 131650		JM 101051 JM 060016	96	55	104	111	100	61	69	58	137	55	98	104	56	89	69	122	120	96	60	63	72		75	74	17	61	24
DUKE HERMES			94	94	85	73	62	77	85	79	-5.08	-4.8	-0.06	0.1	-7.7	0	-35	21.4	-17.9	-6.5	10.8	-22	-15						
											95	94	84	85	82	73	83	88	74	51	83	87	85						
JM 141710		BL 110043 JM 111259	112	90	121	115	87	114	116	116	124	90	103	121	93	85	105	107	113	82	80	111	109		35	27	13	48	9
EVER SO CLEVER			92	91	84	68	60	74	80	75	-3.76	11.9	-0.26	7.0	19.3	-6	87	11.8	-12.7	-2.2	18.9	12	28						
											93	91	83	84	80	68	78	84	72	48	77	83	81						
JM 141806		JM 111199 JM 070124	98	132	74	84	97	105	112	107	97	132	101	74	121	116	115	101	86	99	83	111	124		155	114	29	44	43
EMPIRE			95	94	85	67	59	74	84	76	-0.95	32.6	-0.18	-12.0	40.0	38	120	8.0	6.1	-7.5	20.0	12	45						
											96	94	85	85	82	67	82	87	76	42	82	88	86						
JM 151952		DVPD008 JM 101069	93	101	77	91	94	76	106	81	92	101	139	77	100	109	121	90	88	95	84	112	100		25	24	12	30	2
FAT MAN			90	89	80	56	54	68	74	69	-0.41	17.5	-1.96	-10.6	24.7	29	141	0.7	5.2	-6.3	20.2	13	17						
											91	89	78	80	72	56	70	78	65	44	72	77	74						
JM 151976		JN 100431 JM 101034	77	96	113	77	100	84	79	80	81	96	89	113	90	123	84	95	98	100	84	95	102		17	12	2	8	3
FREMANTLE			86	85	68	45	44	60	72	62	0.70	14.8	0.39	3.7	17.4	48	15	4.0	-2.2	-7.6	20.4	1	20						
											88	85	66	68	60	45	68	76	52	35	69	73	70						
JM 152011		JM 121379 JM 090068	92	106	83	106	104	90	86	88	91	106	141	83	95	94	85	110	94	105	77	105	102		67	64	13	27	9
FETCHER			93	93	79	70	55	72	78	73	-0.31	20.0	-2.05	-8.3	20.7	7	18	13.4	0.7	-9.2	17.5	8	20						
											95	93	78	79	80	70	75	82	69	41	76	83	81						
JM 162110		E530 JM 131688	102	119	79	95	120	106	117	110	99	119	141	79	117	105	110	101	115	121	105	109	112		52	51	13	53	7
GUARDIAN			93	93	84	74	58	75	77	75	-1.19	26.3	-2.05	-9.9	36.9	22	104	7.6	-13.9	-13.9	28.3	10	31						
											94	93	81	84	76	74	74	81	68	48	74	82	80						
JM 162123		642A JM 070033	103	103	102	111	110	111	127	116	127	103	69	102	105	89	113	109	114	109	98	115	112		112	99	18	44	22
GAME CHANGER			95	95	84	75	61	77	85	79	-4.04	18.6	1.31	-0.4	28.2	0	111	12.7	-13.2	-10.3	25.9	15	31						
											96	95	84	84	84	75	83	88	75	47	78	88	87						
JM 162165		BL 120069 JM 131547	78	98	102	94	67	77	102	81	83	98	76	102	100	106	91	107	61	70	77	97	92		26	23	8	17	4
GLADIATOR			89	88	74	60	52	67	74	68	0.46	15.8	0.95	-0.5	24.6	24	37	11.7	23.6	1.3	17.4	2	9						
											91	88	72	74	64	60	70	78	63	40	72	79	77						
JM 172275		642A JM 111205	87	130	82	81	99	101	134	109	92	130	65	82	131	119	134	123	94	100	71	124	127		92	72	7	7	15
HOFF			92	92	66	48	49	64	79	67	-0.47	31.5	1.47	-8.8	46.7	42	185	21.7	0.7	-7.7	15.1	21	48						
											95	92	70	66	70	48	76	82	66	32	68	83	81						

Sires

Bull			Selection Values							Calf		Dam		Growth			Fertility				Frame		Measured Progeny					
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Long- evity	Height	Length	Birth wt	Wean wt	Dgt/Calvs.	Grwth Test	
	Name																											
JM 172278	642A	BL 110149	91	125	71	83	93	91	106	93	93	125	86	71	113	117	98	129	77	96	101	92	104	26	25	5	8	9
HOLLYWOOD			89	89	68	57	46	64	78	67	-0.56	29.1	0.50	-13.1	33.6	40	62	25.2	12.9	-6.5	26.9	-2	22					
JM 172293	BL 140061	JM 141777	114	97	97	115	74	102	118	106	123	97	108	97	106	85	100	114	71	75	101	105	112	17	17	5	10	2
HARVEST			87	87	70	58	48	64	72	66	-3.63	15.2	-0.53	-2.8	28.8	-5	68	16.3	16.7	-0.3	26.7	8	31					
JM 172320	TSPU001	JM 101069	76	76	104	108	92	66	87	67	77	76	102	104	71	92	88	58	70	97	71	112	81	85	81	10	16	13
HAWK			93	94	73	63	50	69	80	71	1.02	5.2	-0.22	0.3	3.8	4	27	-19.1	17.9	-6.8	15.1	13	-4					
JM 182481	SGHPZ027	JM 151998	113	97	90	97	93	96	126	103	121	97	88	90	102	103	104	89	100	92	95	103	107	48	44	10	20	6
ICEMAN			91	92	75	67	51	69	76	70	-3.45	15.4	0.41	-5.3	26.0	19	83	0.2	-3.9	-5.2	24.5	6	25					
JM 182483	SGHPZ027	JM 151910	88	81	77	111	91	59	96	64	146	81	108	77	79	89	86	84	86	92	72	83	88	14	14	1	2	1
JM182483			84	83	59	45	39	56	68	58	-5.93	7.9	-0.51	-10.7	9.1	-1	22	-2.9	6.5	-5.4	15.6	-8	3					
JM 182489	E530	JM 151992	58	113	114	102	108	97	105	99	62	113	102	114	118	98	102	78	107	108	94	104	107	11	10	2	3	1
IVORY			83	83	61	51	41	58	70	60	2.60	23.2	-0.25	4.4	37.3	12	76	-6.8	-8.5	-9.9	24.0	7	25					
JM 182569	JM 141710	JM 141718	104	104	101	101	81	103	107	104	101	104	100	101	98	99	102	83	98	78	99	95	104	71	68	15	21	18
INHERITANCE			93	93	77	66	52	70	82	72	-1.40	18.8	-0.16	-0.9	23.2	13	75	-3.6	-2.2	-1.0	26.1	1	22					
JM 182639	BL 140061	JM 141746	106	115	96	103	99	115	131	121	105	115	90	96	125	97	117	129	109	97	104	133	130	79	78	16	25	18
ICON			93	94	79	69	53	72	84	74	-1.79	24.1	0.31	-3.1	42.7	11	128	25.2	-10.1	-6.6	28.0	27	51					
JM 192703	JGM14022PZ	JM 162134	82	115	76	103	88	84	108	88	86	115	79	76	116	97	112	95	83	89	93	108	121	34	29	7	10	5
JOKER			89	89	69	58	46	64	74	66	0.12	24.3	0.81	-11.2	35.7	11	108	4.1	8.3	-4.4	23.6	10	41					
JM 192708	JGM14022PZ	JM 162158	118	84	81	116	86	85	110	89	115	84	89	81	91	84	107	89	101	84	68	96	100	53	39	3	4	6
JACKHAMMER			90	91	63	54	45	63	76	66	-2.81	9.2	0.37	-8.9	18.2	-8	93	0.6	-4.4	-2.8	14.0	1	18					
JM 192725	VHPB633	JM 080135	93	101	76	90	77	71	103	76	92	101	102	76	100	110	95	125	98	73	78	88	103	87	83	2	3	7
JAMESON			92	94	59	45	40	59	76	62	-0.44	17.4	-0.22	-11.0	24.3	30	53	22.7	-2.4	0.4	17.8	-4	21					

Sires

Bull			Selection Values							Calf		Dam		Growth			Fertility				Frame		Measured Progeny					
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Long- evity	Height	Length	Birth wt	Wean wt	Dgt/Calvs.	Grwth Test	
	Name																											
JM 192770		JM 162123 JM 151927	107	101	115	93	107	116	122	119	125	101	78	115	105	107	112	112	94	109	104	125	122	6	6	2	3	1
JOCK			81	80	62	50	39	56	70	59	-3.83	17.6	0.86	4.8	28.4	26	108	14.7	0.9	-10.3	28.0	22	42					
											83	80	60	62	61	50	65	74	52	26	59	75	72					
JM 192834		BL 150081 JM 141699	119	77	135	112	102	119	99	116	113	77	106	135	95	88	100	116	119	98	87	84	97	58	53	7	9	9
JIMMY			91	92	67	53	40	61	78	64	-2.64	5.6	-0.44	12.7	21.1	-1	69	17.3	-16.8	-7.1	21.3	-7	14					
											94	92	63	67	72	53	74	81	58	22	63	83	80					
JM 192843		JM 162123 JM 151953	105	123	84	76	102	106	116	109	102	123	102	84	122	124	121	109	102	102	114	116	120	9	9	3	5	2
JAILBIRD			82	83	63	54	42	59	71	61	-1.51	28.0	-0.25	-7.9	40.5	49	141	13.1	-5.2	-8.3	31.9	15	41					
											85	83	60	63	68	54	67	75	55	30	58	77	74					
JM 202934		JGM14022PZ JM 172303	115	115	87	97	86	110	130	116	113	115	85	87	128	103	133	106	96	85	90	115	120	31	31	3	3	6
JM202934			88	89	61	52	42	60	75	63	-2.63	24.0	0.56	-6.6	45.1	20	182	11.3	-0.7	-3.1	22.5	15	40					
											91	89	59	61	66	52	71	79	54	29	58	80	78					
JM 202946		JM 162123 JM 172401	100	108	110	103	109	117	123	120	100	108	87	110	110	97	119	115	117	107	127	96	101	31	30	8	9	10
JM202946			89	89	70	57	46	64	78	67	-1.30	20.9	0.46	2.5	31.9	12	132	16.6	-15.9	-9.7	36.9	1	18					
											91	89	68	70	70	57	75	82	61	30	61	83	80					
JM 202950		JGM14022PZ JM 172261	96	106	92	102	81	93	124	100	98	106	81	92	122	98	127	90	84	81	85	131	123	7	7	1	1	1
JM202950			80	80	58	49	40	56	68	58	-1.03	19.7	0.75	-4.7	40.8	13	162	1.3	8.0	-2.0	20.7	26	44					
											83	80	56	58	61	49	64	73	49	30	51	75	72					
JM 202974		JM 172293 JM 141765	110	112	92	117	88	114	117	116	105	112	109	92	113	83	118	120	84	89	111	114	117	30	30	6	6	8
JM202974			88	89	65	49	39	59	76	62	-1.78	22.9	-0.55	-4.5	33.8	-8	129	19.9	7.8	-4.3	30.8	14	37					
											91	89	61	65	66	49	73	80	57	21	61	82	79					
JM 202976		BL 140061 JM 172343	96	93	110	125	96	103	107	104	138	93	103	110	98	75	113	102	90	97	112	107	103	17	17	8	10	3
JM202976			86	84	69	58	47	63	73	65	-5.16	13.4	-0.26	2.5	23.2	-20	112	8.4	3.6	-6.7	31.2	9	21					
											88	84	67	69	69	58	69	77	63	31	62	78	75					
JM 203082		JM 172329 JM 162181	113	83	109	112	104	103	118	107	111	83	86	109	94	88	108	99	118	101	97	111	109	33	31	2	2	5
JM203082			87	89	55	41	32	53	74	57	-2.42	8.7	0.49	2.4	19.9	-1	96	6.4	-16.0	-8.1	25.4	12	28					
											91	89	52	55	62	41	69	78	44	19	58	79	76					
JM 213161		JM 162123 JM 182651	102	98	115	102	99	110	99	108	104	98	73	115	98	98	112	113	108	97	120	124	109	30	29			6
JM213161			87	89	57	45	36	56	75	60	-1.70	15.7	1.10	4.6	23.1	13	110	15.1	-9.1	-6.8	34.3	21	28					
											91	89	55	57	78	45	71	78	46	27	58	80	77					
JM 213171		JM 182639 JM 162133	118	103	95	102	104	112	116	114	120	103	104	95	102	98	108	126	96	105	103	114	113	1	1			
JM213171			76	76	57	46	36	53	68	56	-3.27	18.3	-0.34	-3.4	26.1	12	96	23.4	-0.8	-9.2	27.8	14	32					
											78	76	56	57	60	46	63	72	48	23	52	73	69					

Sires

Bull			Selection Values							Calf		Dam		Growth			Fertility				Frame		Measured Progeny				
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Long- evity	Height	Length	Birth wt	Wean wt	Dgt/Calvs.	Grwth Test
JM 213175		JM 182639 JM 172330	91	116	104	78	93	105	119	109	92	116	94	104	123	122	123	129	95	92	113	121	129	22	20		8
JM213175			85	87	54	44	34	54	76	58	-0.44	24.9	0.12	0.1	41.1	47	147	25.2	-0.2	-5.3	31.6	19	50				
JM213175											89	87	52	54	74	44	73	80	45	23	56	81	78				
JM 213194		BG 170036 JM 172351	107	112	118	86	112	127	107	125	103	112	107	118	112	114	106	100	98	115	117	90	91	48	46		7
JM213194			89	92	57	45	34	56	75	60	-1.61	22.6	-0.45	6.0	33.3	36	91	7.0	-2.4	-12.0	33.3	-3	7				
JM213194											93	92	55	57	72	45	71	79	43	24	57	80	78				
JM 213204		JM 172278 JM 172310	109	116	87	88	96	107	105	107	106	116	100	87	105	112	102	124	96	97	120	84	100	53	51		12
JM213204			89	92	53	41	32	54	78	59	-1.90	24.6	-0.13	-6.6	27.9	32	77	22.3	-0.5	-6.6	34.3	-7	17				
JM213204											93	92	51	53	73	41	75	82	42	22	55	83	81				
JM 213214		JM 162123 JM 141744	114	113	92	94	106	115	124	119	121	113	95	92	115	106	123	96	91	109	102	110	110	6	6		
JM213214			80	80	59	45	38	55	68	58	-3.42	23.2	0.09	-4.7	35.2	23	146	4.9	2.5	-10.2	27.1	11	28				
JM213214											83	80	57	59	58	45	64	72	47	28	56	74	71				
JM 213217		JM 182569 JM 141780	101	111	92	96	95	103	118	107	100	111	98	92	107	104	107	111	104	94	105	98	108	1	1		
JM213217			76	76	58	45	34	52	68	55	-1.26	22.2	-0.05	-4.5	29.6	22	92	14.1	-6.6	-5.7	28.4	3	26				
JM213217											78	76	56	58	56	45	63	72	46	22	52	73	69				
JM 213239		BL 180092 JM 162107	105	96	111	100	87	105	107	106	102	96	103	111	102	100	110	120	78	89	103	135	115	3	3	1	1
JM213239			78	78	57	44	34	52	66	55	-1.46	15.0	-0.30	3.2	26.1	16	102	19.9	11.9	-4.5	27.6	29	34				
JM213239											80	78	55	57	58	44	62	71	47	22	53	73	69				
JM 213243		BL 180092 JM 162200	110	93	101	109	92	102	91	99	105	93	110	101	95	91	102	104	92	92	91	105	102	18	19		4
JM213243			84	86	52	37	32	51	72	55	-1.81	13.7	-0.59	-0.8	21.1	2	74	9.5	2.4	-5.2	23.1	8	20				
JM213243											88	86	51	52	67	37	67	76	43	21	55	77	74				
JM 213288		JM 182489 JM 121333	75	102	114	104	100	98	114	101	78	102	96	114	108	96	109	92	105	99	105	101	104	8	8		1
JM213288			81	81	51	38	32	50	68	54	0.97	18.1	0.06	4.3	30.5	10	98	2.3	-7.2	-7.2	28.2	5	22				
JM213288											84	81	49	51	58	38	63	73	39	24	52	73	69				
JM 213315		JM 182481 JM 131627	118	97	92	95	91	99	124	105	118	97	91	92	98	105	106	103	83	92	105	119	117	6	6		1
JM213315			80	80	56	39	30	50	67	53	-3.07	15.5	0.26	-4.8	22.9	22	89	9.4	8.3	-5.4	28.6	17	37				
JM213315											83	80	54	56	56	39	62	72	43	17	53	73	69				
JM 213331		JM 182569 JM 172401	84	106	113	96	91	102	105	103	84	106	106	113	99	104	109	106	99	90	113	103	106	13	8		2
JM213331			83	82	56	44	34	53	71	57	0.34	19.7	-0.43	3.8	24.1	21	98	10.9	-3.0	-4.6	31.7	6	24				
JM213331											86	82	54	56	68	44	67	75	46	21	54	76	73				
JM 213414		JM 182483 JM 192868	109	104	90	109	98	104	103	103	127	104	101	90	97	91	93	98	88	99	88	91	102	3	3		
JM213414			76	76	49	39	27	47	65	51	-3.97	18.8	-0.17	-5.5	22.1	3	45	5.9	4.8	-7.5	21.8	-2	20				
JM213414											79	76	46	49	53	39	60	70	37	17	50	70	66				

Sires

Bull			Selection Values							Calf		Dam		Growth			Fertility				Frame		Measured Progeny				
ID	Index EBV Acc	Sire ID Dam ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Long- evity	Height	Length	Birth wt	Wean wt	Dgt/Calvs.	Grwth Test
	Name																										
JM 213442		JM 192708 JM 192788	96	90	98	101	84	84	102	86	97	90	86	98	92	99	97	83	90	84	80	95	100	24	23		4
JM213442			85	87	46	38	28	50	72	54	-0.96	12.0	0.50	-2.1	18.5	13	57	-3.1	3.2	-2.8	18.9	1	17				
											89	87	45	46	70	38	68	77	39	18	51	78	75				
JM 223444		JM 202976 JM 202938	118	106	105	106	77	117	128	122	118	106	92	105	117	94	119	99	78	78	105	136	125	6	6		1
JM223444			79	77	49	40	31	49	67	53	-3.10	19.8	0.21	0.5	36.9	7	132	6.7	11.6	-1.0	28.6	30	46				
											82	77	48	49	58	40	63	72	42	20	48	74	70				
JM 223448		JM 202974 JM 202953	104	127	103	101	98	130	131	133	103	127	92	103	127	99	132	129	88	100	116	138	133	19	18		
JM223448			84	86	49	39	28	50	66	53	-1.56	30.1	0.21	0.0	43.9	14	177	25.2	5.2	-7.6	32.6	31	55				
											88	86	47	49	53	39	62	71	39	16	48	73	69				
JM 223524		JM 141806 JM 151977	77	134	109	66	98	113	122	117	82	134	85	109	126	134	120	113	90	99	103	115	130	20	20		
JM223524			86	87	59	41	36	55	68	58	0.61	33.2	0.56	2.2	43.5	64	136	15.3	3.2	-7.4	27.8	15	52				
											89	87	58	59	55	41	64	72	47	24	57	74	71				
JM 223558		BL 180092 JM 141747	93	107	93	89	101	94	118	99	92	107	98	93	114	111	123	114	101	100	113	110	107	22	21		
JM223558			86	87	56	44	34	54	66	56	-0.50	20.5	-0.05	-4.1	35.0	32	147	15.8	-4.4	-7.7	31.6	11	25				
											89	87	55	56	56	44	61	71	45	23	53	72	69				
JM 223569		JM 192834 JM 192755	109	108	119	104	104	128	118	129	106	108	100	119	112	96	116	119	109	103	108	109	121	1	1		
JM223569			75	75	51	42	29	48	66	52	-1.86	20.6	-0.14	6.4	33.3	10	122	19.0	-9.9	-8.6	29.8	11	42				
											78	75	49	51	52	42	62	71	41	17	48	73	69				
JM 223584		BL 180092 JM 182479	66	133	97	84	97	102	119	106	69	133	107	97	131	116	127	128	79	100	116	128	123	24	22		
JM223584			85	87	54	44	34	54	66	56	1.91	33.0	-0.45	-2.6	47.1	38	162	24.9	11.5	-7.7	32.7	24	44				
											89	87	53	54	56	44	61	71	45	24	51	72	69				
JM 223615		JM 182569 JM 182609	119	82	94	107	93	92	91	90	115	82	95	94	81	93	89	98	113	89	99	74	83	3	3		1
JM223615			77	77	55	41	32	50	69	54	-2.85	8.3	0.09	-3.9	10.9	6	33	6.1	-12.7	-4.4	26.1	-14	-2				
											80	77	52	55	57	41	65	74	43	20	50	75	71				
JM 223647		JM 182639 JM 162099	85	132	92	80	104	109	129	115	85	132	99	92	139	120	136	129	98	104	112	138	133	21	21		
JM223647			86	87	56	47	36	56	66	58	0.22	32.4	-0.10	-4.4	52.4	44	190	25.2	-2.4	-8.9	31.1	31	55				
											89	87	54	56	58	47	62	71	47	25	52	72	69				
JM 223655		JM 182639 JM 172453	89	106	101	107	108	102	123	108	89	106	99	101	112	93	122	129	110	107	109	125	122	22	22		
JM223655			86	87	55	43	34	54	66	56	-0.19	19.6	-0.11	-1.1	32.9	5	143	25.2	-10.9	-9.6	30.0	22	43				
											89	87	54	55	60	43	61	71	45	22	51	72	68				
JM 233749		JM 172320 JM 202961	100	94	111	96	106	103	119	107	99	94	94	111	97	104	114	87	87	109	102	129	109	1	1		
JM233749			74	75	50	41	32	49	67	53	-1.20	14.2	0.11	3.1	22.3	21	117	-0.7	5.6	-10.3	27.2	25	28				
											77	75	48	50	58	41	62	72	42	22	49	73	70				

Sires

Bull			Selection Values								Calf		Dam		Growth			Fertility				Frame		Measured Progeny				
ID	Index EBV Acc	Sire ID Dam ID	Calv.	Calf	Milk	Maint.	Fertility	Cow	Growth	Prod	Birth	Wean	Birth	Wean	Post wn	Mature	ADG	Scrotal	Heifer	Cow	Long-	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth	
			Ease	Grwth	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight		Circ.	Fertility	Fertility	evity			wt	wt		Test	
PDR 180024	JM 141806	PDR 130027	90	121	92	100	109	109	106	109	89	121	109	92	113	100	110	93	103	109	89	108	115	24	23	4	6	8
PDR180024			87	85	64	46	39	57	75	61	-0.13	27.1	-0.56	-4.8	33.8	15	102	3.1	-5.6	-10.4	22.1	10	35					
PDR180024			87	85	64	46	39	57	75	61	89	85	64	64	70	46	71	79	52	26	64	80	78					
PDR 200004	JM 172275	PDR 160001	99	107	79	98	104	90	100	91	100	107	84	79	104	102	105	84	96	106	90	95	95	3	3			
PDR200004			76	76	48	24	28	44	65	48	-1.24	20.4	0.59	-10.0	27.7	18	87	-2.8	-0.6	-9.3	22.7	1	12					
PDR200004			76	76	48	24	28	44	65	48	79	76	51	48	47	24	60	70	38	17	44	72	68					
PDR 210054	JM 172275	PDR 160014	96	126	77	87	106	102	119	107	97	126	88	77	124	113	126	107	97	107	88	126	109	5	5			2
PDR210054			78	77	49	26	26	44	70	49	-0.92	29.4	0.43	-10.6	41.5	33	158	11.9	-1.6	-9.9	21.7	22	28					
PDR210054			78	77	49	26	26	44	70	49	81	77	51	49	52	26	65	74	36	17	45	75	72					
SGHPZ027	6SLINPS0006	SGHPW0027	112	109	67	91	90	88	110	92	126	109	108	67	101	109	103	94	78	93	75	106	105	42	41	7	39	10
GADARA POLL ZION			92	92	81	64	60	73	77	74	-3.89	21.4	-0.53	-14.6	25.2	28	79	3.4	11.9	-5.6	16.8	8	24					
GADARA POLL ZION			92	92	81	64	60	73	77	74	93	92	82	81	74	64	74	79	72	48	82	78	76					
VHPB633	VHPU450	VHPU446	66	103	80	87	56	55	94	59	70	103	98	80	99	113	93	106	90	51	66	87	88	23	24	5	14	8
TORR DOWN MARVEL 3 ET			84	86	62	46	36	56	66	58	1.77	18.5	-0.03	-9.4	23.7	34	46	10.8	3.5	7.0	13.3	-5	3					
TORR DOWN MARVEL 3 ET			84	86	62	46	36	56	66	58	87	86	60	62	57	46	63	71	50	23	58	72	69					

Growth Tests

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

Animal			Cow Value	Weight		Frame				Growth	
Test Code	Sex	Test no	Sire ID	Wean dir	End-weight	Length	Height	Length/Height	Scrotum	ADG	Growth Value
Test station		ID	Dam ID								
201701 D11 M			0413964SDV								
MILLER		JM 162123	642A	111	103	113	112	115	98	109	113
		85296523	JM 070033	77	95	30	31	15	1.24	12.7	111
					87	87	87	88	88	88	83
201901 D11 M			0413964SDV								
MILLER		JM 182569	JM 141710	103	104	104	104	95	119	83	102
		87975116	JM 141718	70	93	22	22	1	1.29	-3.6	75
					85	85	81	83	82	86	80
202001 D11 M			0413964SDV								
MILLER		JM 192725	VHPB633	71	101	104	103	88	132	125	95
		89483556	JM 080135	59	94	22	21	-4	1.32	22.7	53
					79	79	79	81	80	80	72
202101 D11 M			0674658SDV								
ROETS		PDR 200004	JM 172275	90	107	100	95	95	98	84	105
		90751579	PDR 160001	44	76	18	12	1	1.24	-2.8	87
					69	69	68	72	70	70	60
202201 D11 M			0413964SDV								
MILLER		JM 213288	JM 182489	98	102	105	104	101	109	92	109
		92624048	JM 121333	50	81	23	22	5	1.27	2.3	98
					72	72	69	73	71	73	63
202202 D11 M			0413964SDV								
MILLER		JM 213204	JM 172278	107	116	109	100	84	132	124	102
		92623206	JM 172310	54	92	26	17	-7	1.32	22.3	77
					81	81	81	83	82	82	75
202401 D11 M			0413964SDV								
MILLER		JM 233715	JM 203082	115	103	122	129	133	102	97	115
		95753984	JM 151977	44	74	39	51	27	1.25	5.1	121
					70	70	69	73	71	71	61
		JM 233723	JM 202946	103	107	110	107	103	108	117	109
		95754065	JM 162097	48	73	28	25	7	1.26	17.8	98
					69	69	69	72	70	71	61
		JM 233730	JM 202946	108	109	109	97	102	91	104	118
		95754164	JM 182540	47	73	26	14	5	1.22	10.1	131
					70	70	69	72	70	71	61
		JM 233754	JM 202946	102	120	117	108	117	86	112	123
		95754354	JM 172277	48	73	34	26	16	1.21	15.0	147
					70	70	69	73	71	71	62
		JM 233778	JM 182639	120	114	120	119	123	98	123	126
		95754594	JM 192809	51	74	37	39	21	1.24	21.6	157
					71	71	70	73	72	72	63

Growth Tests

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

Animal					Weight		Frame				Growth	
Test Code	Sex	Test no	Sire ID	Cow	Wean	End-			Length/			Growth
Test station		ID	Dam ID	Value	dir	weight			Height	Scrotum	ADG	Value
202401 D11 M												
0413964SDV												
MILLER		JM 233786	JM 192834	102	91	95	97	99	96	104	100	101
		95754677	JM 162157	48	74	1371	1470	373	1.2472	9.772	6962	67
		JM 233798	JM 202974	119	111	124	123	123	108	107	129	115
		95754792	JM 182621	46	73	4070	4469	2073	1.2671	11.971	16761	66
		JM 233806	JM 172320	97	91	105	106	119	78	75	107	119
		95754875	JM 202953	50	74	2371	2470	1873	1.1972	-8.672	9363	67
		JM 233847	JM 182569	111	112	119	116	123	93	97	128	115
		95812798	JM 182665	50	74	3670	3669	2072	1.2370	5.371	16362	66
		JM 233881	JM 202974	102	103	115	118	118	105	127	113	119
		95752861	JM 172421	46	73	3270	3869	1773	1.2671	24.271	11261	66
		JM 233973	JM 213204	113	120	115	111	102	121	129	106	104
		95753505	JM 213352	42	73	3270	3169	673	1.2971	25.271	9161	66
202402 D11 M												
0674658SDV												
ROETS		PDR 230047	JM 141806	89	114	111	110	111	100	105	110	106
		95786232	PDR 160006	46	70	2967	2866	1270	1.2568	10.468	10459	64
202501 D11 M												
0413964SDV												
MILLER		JM 244002	PDR 210054	130	134	134	130	138	96	124	136	134
		97595334	JM 223520	41	70	5069	5268	3172	1.2470	22.270	19060	65
		JM 244003	JM 223444	107	107	116	114	126	82	91	124	127
		97595342	JM 223513	42	70	3369	3368	2372	1.2070	1.770	15060	64
		JM 244006	PDR 210054	108	114	114	110	120	85	97	116	110
		97595375	JM 223688	39	70	3169	2968	1872	1.2170	5.370	12460	65
		JM 244013	JM 223615	107	81	98	94	89	108	123	100	96
		97595441	JM 223551	41	70	1669	1168	-372	1.2670	21.570	6860	65
		JM 244031	JM 213194	113	104	106	98	100	95	110	106	105
		97595599	JM 151911	45	74	2370	1569	473	1.2371	13.471	9062	66
		JM 244034	JM 213175	115	112	128	133	127	119	129	117	120
		97595623	JM 192828	46	73	4570	5569	2473	1.2971	25.271	12662	66

Growth Tests

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

Animal				Weight			Frame				Growth	
Test Code	Sex	Test no	Sire ID	Cow Value	Wean dir	End-weight	Length	Height	Length/Height	Scrotum	ADG	Growth Value
Test station		ID	Dam ID									
202501 D11 M												
0413964SDV												
MILLER		JM 244038	JM 213194	114	111	102	96	99	94	79	103	103
		97595664	JM 172259	45	74	20 70	13 69	4 73	1.23 71	-5.9 71	79 61	66
		JM 244044	JM 192843	111	124	115	116	103	130	103	110	107
		97595730	JM 213419	45	72	33 69	36 68	6 72	1.31 70	9.3 70	101 60	64
		JM 244052	JM 213194	94	105	99	92	78	128	94	104	98
		97595805	JM 172319	45	74	17 69	8 69	-12 72	1.31 70	3.8 71	81 61	66
		JM 244054	JM 213243	102	94	94	92	93	95	102	94	90
		97595813	JM 170161	32	52	12 69	8 68	-1 72	1.23 70	8.3 70	48 60	64
		JM 244055	JM 213175	107	112	115	113	111	108	120	115	104
		97595821	JM 182566	44	73	32 69	32 68	12 72	1.26 70	19.9 70	120 60	65
		JM 244059	JM 213243	110	114	120	126	133	95	103	117	103
		97595862	JM 162096	46	73	37 70	47 69	27 73	1.23 71	9.5 71	125 61	66
		JM 244070	JM 213204	102	104	96	90	76	127	105	95	97
		97595979	JM 182593	43	73	15 70	6 69	-13 72	1.31 70	10.4 71	51 61	66
		JM 244071	JM 213161	108	106	121	126	129	101	109	120	101
		97595987	JM 170153	39	71	38 69	47 69	25 72	1.25 70	12.9 71	137 61	65
		JM 244076	JM 213204	98	98	95	89	82	112	101	96	96
		97596035	JM 172366	44	74	14 70	5 69	-9 72	1.27 70	7.7 71	55 61	66
		JM 244081	JM 213204	113	117	127	129	118	129	127	112	124
		97596084	JM 151972	46	74	44 70	51 69	17 73	1.31 71	24.5 71	109 62	66
		JM 244084	JM 213194	111	98	101	98	105	86	100	101	107
		97596118	JM 162145	45	74	19 69	15 69	7 72	1.21 70	7.3 71	71 61	66
		JM 244087	JM 213194	116	109	100	88	94	84	102	104	110
		97596142	JM 162133	46	74	19 70	3 69	0 73	1.21 71	8.4 71	82 61	66
		JM 244089	JM 213175	97	110	114	114	109	113	122	111	120
		97596167	JM 182580	45	72	31 70	33 69	10 73	1.28 71	21.2 71	106 61	66
		JM 244095	JM 213442	94	110	96	96	86	118	87	92	97
		97596225	JM 182496	44	73	15 69	13 68	-5 72	1.29 70	-0.8 70	41 60	65

Growth Tests

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

Animal				Weight			Frame				Growth	
Test Code	Sex	Test no	Sire ID	Cow Value	Wean dir	End-weight	Length	Height	Length/Height	Scrotum	ADG	Growth Value
Test station		ID	Dam ID									
202501 D11 M												
0413964SDV												
MILLER		JM 244096	JM 213204	98	105	86	78	64	124	96	86	81
		97596233	JM 182482	45	74	5 69	-7 68	-21 72	1.30 70	5.0 70	22 61	65
		JM 244101	JM 213204	101	100	96	90	88	101	94	96	94
		97596282	JM 141736	44	74	14 70	6 69	-5 73	1.25 71	3.5 71	55 61	66
		JM 244103	JM 213442	98	81	93	84	95	74	83	104	98
		97596308	JM 202986	43	72	11 69	-1 68	1 72	1.19 70	-3.2 70	82 60	65
		JM 244112	JM 213175	107	125	117	115	98	132	107	112	105
		97596381	JM 182479	45	73	34 70	34 69	3 72	1.33 70	11.7 71	110 61	66
		JM 244114	JM 213175	103	98	105	105	111	91	112	106	94
		97596407	JM 182591	45	73	23 70	23 69	12 73	1.23 71	14.7 71	88 61	66
		JM 244118	JM 213204	104	116	112	110	106	111	113	110	117
		97596431	JM 192707	46	74	29 69	29 69	8 72	1.27 70	15.6 71	102 61	66
		JM 244120	JM 192708	91	105	108	105	98	114	117	109	106
		97596456	JM 213174	46	73	25 69	23 69	3 72	1.28 70	17.9 71	99 61	65
		JM 244122	JM 192834	110	87	94	96	84	123	120	100	93
		97596464	JM 213180	46	73	13 70	12 69	-7 73	1.30 71	20.1 71	69 61	66
		JM 244126	JM 192725	76	104	109	108	108	102	129	106	112
		97600944	JM 213337	45	73	26 69	27 69	10 72	1.25 70	25.2 71	91 61	66
		JM 244128	JM 213204	110	113	117	113	112	107	115	118	121
		97596514	JM 182621	44	74	35 70	33 69	12 73	1.26 71	16.9 71	130 61	66
		JM 244129	JM 213204	92	96	98	99	100	97	109	93	108
		97596522	JM 182669	43	73	16 70	16 69	4 73	1.24 71	13.1 71	44 62	66
		JM 244150	JM 213288	106	96	100	95	97	95	112	99	116
		97596720	JM 213423	43	71	18 69	12 68	2 72	1.23 70	14.7 70	65 60	65
		JM 244151	JM 213194	104	100	102	94	99	89	100	109	113
		97596738	JM 172352	45	74	20 69	11 68	3 72	1.22 70	7.6 70	98 60	65
		JM 244166	JM 213161	102	98	91	84	86	90	97	92	82
		97596886	JM 180165	38	71	9 69	-1 68	-6 72	1.22 70	5.7 70	43 60	65

Growth Tests

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

Animal				Weight			Frame				Growth	
Test Code	Sex	Test no	Sire ID	Cow Value	Wean dir	End-weight	Length	Height	Length/Height	Scrotum	ADG	Growth Value
Test station		ID	Dam ID									
202501 D11 M												
0413964SDV												
MILLER		JM 244167	JM 213175	115	107	117	115	102	130	127	115	102
		97596894	JM 192764	44	72	34 70	35 69	5 72	1.31 70	24.1 71	120 61	66
		JM 244171	JM 192725	98	113	112	114	96	132	107	98	110
		97596936	JM 213192	44	73	30 70	34 69	1 73	1.34 71	11.5 71	63 61	66
		JM 244172	JM 213175	111	101	111	121	104	132	109	100	101
		97596944	JM 192738	45	73	29 69	41 68	7 72	1.33 70	12.7 70	70 60	65
		JM 244175	JM 213204	105	101	102	102	90	125	112	94	97
		97596977	JM 172415	45	74	20 70	20 69	-3 73	1.30 71	14.7 71	49 62	66
		JM 244178	JM 213442	107	97	108	108	103	111	104	105	113
		97597009	JM 192809	44	73	26 70	26 69	6 73	1.27 71	10.0 71	85 61	66
		JM 244185	JM 213175	92	92	97	99	105	89	111	98	85
		97597074	JM 182538	45	73	15 70	16 69	7 72	1.22 70	14.1 71	63 61	66
		JM 244195	JM 213161	130	111	117	112	117	94	110	114	99
		97597173	JM 180164	39	71	34 69	31 69	16 72	1.23 70	13.4 71	115 61	65
		JM 244203	JM 213194	113	110	102	89	94	87	90	108	100
		97597256	JM 141719	46	74	20 69	5 68	0 72	1.22 70	1.0 70	96 60	65

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Animal			Selection Values									Birth		Wean				Growth		Fertility				Frame	
Index EBV Acc	ID Number Name	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
	JM 162123 85296523 GAME CHANGER		642A JM 070033	103 95	103 95	102 84	111 75	110 61	111 77	127 85	116 79	127 -4.04 96	69 1.31 84	89 0 75	103 18.6 95	102 -0.4 84	110 70 85	105 28.2 84	113 111 83	109 12.7 88	114 -13.2 75	109 -10.3 47	98 25.9 78	115 15 88	112 31 87
	JM 182569 87975116 INHERITANCE	2	JM 141710 JM 141718	104 93	104 93	101 77	101 66	81 52	103 70	107 82	104 72	101 -1.40 95	100 -0.16 74	99 13 66	104 18.8 93	101 -0.9 77	105 56 79	98 23.2 82	102 75 80	83 -3.6 86	98 -2.2 69	78 -1.0 34	99 26.1 69	95 1 83	104 22 81
	JM 192725 89483556 JAMESON		VHPB633 JM 080135	93 92	101 94	76 59	90 45	77 40	71 59	103 76	76 62	92 -0.44 95	102 -0.22 60	110 30 45	101 17.4 94	76 -11.0 59	75 -20 66	100 24.3 72	95 53 72	125 22.7 80	98 -2.4 54	73 0.4 27	78 17.8 66	88 -4 81	103 21 79
	PDR 200004 90751579 PDR200004		JM 172275 PDR 160001	99 76	107 76	79 48	98 24	104 28	90 44	100 65	91 48	100 -1.24 79	84 0.59 51	102 18 24	107 20.4 76	79 -10.0 48	84 4 49	104 27.7 47	105 87 60	84 -2.8 70	96 -0.6 38	106 -9.3 17	90 22.7 44	95 1 72	95 12 68
	JM 213204 92623206 JM213204	1	JM 172278 JM 172310	109 89	116 92	87 53	88 41	96 32	107 54	105 78	107 59	106 -1.90 93	100 -0.13 51	112 32 41	116 24.6 92	87 -6.6 53	94 28 62	105 27.9 73	102 77 75	124 22.3 82	96 -0.5 42	97 -6.6 22	120 34.3 55	84 -7 83	100 17 81
	JM 213288 92624048 JM213288		JM 182489 JM 121333	75 81	102 81	114 51	104 38	100 32	98 50	114 68	101 54	78 0.97 84	96 0.06 49	96 10 38	102 18.1 81	114 4.3 51	117 87 57	108 30.5 58	109 98 63	92 2.3 73	105 -7.2 39	99 -7.2 24	105 28.2 52	101 5 73	104 22 69
	JM 223530 93959443 JM223530		JM 172320 JM 172317	67 74	89 74	92 55	93 42	109 34	63 50	95 46	66 49	70 1.79 76	103 -0.30 53	107 25 42	89 11.8 74	92 -4.8 55	82 -2 57	76 7.4 66	95 51 44	71 -10.9 48	86 6.1 43	113 -11.4 25	99 25.9 49	102 5 48	86 1 47
	JM 223571 94040342 JM223571	2	JM 182569 JM 172277	100 75	100 74	95 56	92 44	90 34	91 51	108 50	94 51	98 -1.05 77	102 -0.22 53	108 27 44	100 16.8 74	95 -3.6 56	91 21 58	90 17.3 66	105 84 47	86 -1.8 52	98 -1.9 45	88 -4.1 22	115 32.2 48	107 9 51	106 24 50
	JM 223588 94040508 JM223588	1	JM 141806 JM 182593	103 75	113 61	82 57	93 39	95 36	97 47	102 50	98 48	98 -1.10 77	115 -0.86 57	107 25 39	113 23.1 61	82 -8.8 57	89 16 52	108 29.9 50	106 88 47	93 2.7 52	95 -0.2 47	95 -6.1 25	91 23.0 50	98 3 52	107 25 51
	JM 233715 95753984 JM233715	4	JM 203082 JM 151977	96 73	103 74	127 50	83 31	101 26	115 44	126 66	119 48	99 -1.14 76	75 1.01 47	117 40 31	103 18.2 74	127 9.5 50	117 87 52	109 31.0 47	115 121 61	97 5.1 71	108 -9.3 35	99 -7.4 17	103 27.6 44	133 27 73	129 51 69
	JM 233723 95754065 JM233723	1	JM 202946 JM 162097	80 73	107 73	110 53	99 39	110 32	103 48	125 66	109 52	86 0.20 76	74 1.07 50	101 16 39	107 20.3 73	110 2.7 53	114 79 55	114 34.5 52	109 98 61	117 17.8 71	114 -13.5 41	109 -10.4 22	111 30.7 44	103 7 72	107 25 69
	JM 233730 95754164 JM233730	2	JM 202946 JM 182540	101 73	109 73	101 51	92 36	105 30	108 47	112 66	110 51	100 -1.24 76	98 -0.06 50	108 27 36	109 21.5 73	101 -1.2 51	103 53	108 30.1 52	118 131 61	104 10.1 71	107 -8.2 40	104 -8.8 20	106 28.7 43	102 5 72	97 14 69

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Animal				Selection Values									Birth		Wean				Growth		Fertility				Frame	
Index EBV Acc	% Inbreeding	Sire ID	Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
ID Number Name																										
JM 233754 95754354 JM233754	1	JM 202946 JM 172277		78 74	120 73	100 53	88 40	104 31	102 48	127 66	109 52	81 0.69 76	93 0.18 51	112 32 40	120 26.6 73	100 -1.3 53	108 64 55	122 40.5 55	123 147 62	112 15.0 71	105 -6.9 41	104 -8.9 21	117 33.3 43	117 16 73	108 26 69	
JM 233778 95754594 JM233778	1	JM 182639 JM 192809		115 74	114 74	97 55	96 47	105 34	120 51	128 68	124 54	108 -2.13 76	115 -0.83 53	104 21 47	114 23.5 74	97 -2.5 55	105 56 59	122 40.3 56	126 157 63	123 21.6 72	107 -8.6 45	104 -8.8 22	102 27.2 46	123 21 73	119 39 70	
JM 233786 95754677 JM233786	2	JM 192834 JM 162157		95 74	91 74	116 54	107 40	103 30	102 48	101 67	102 52	96 -0.86 77	89 0.35 51	93 5 40	91 12.4 74	116 4.9 54	112 74 56	100 24.8 55	100 69 62	104 9.7 72	115 -14.4 42	100 -7.6 19	95 24.5 46	99 3 73	97 14 70	
JM 233798 95754792 JM233798	2	JM 202974 JM 182621		115 73	111 73	101 51	100 36	95 28	119 46	115 66	120 50	109 -2.16 76	114 -0.78 48	100 15 36	111 22.2 73	101 -1.1 51	108 65 53	114 34.6 52	129 167 61	107 11.9 71	85 7.0 39	97 -6.7 17	102 27.2 42	123 20 73	123 44 69	
JM 233806 95754875 JM233806		JM 172320 JM 202953		89 74	91 74	115 52	107 44	98 34	97 50	119 67	102 53	92 -0.44 76	83 0.64 51	93 6 44	91 12.4 74	115 4.6 52	111 72 57	96 21.7 58	107 93 63	75 -8.6 72	87 5.8 42	101 -7.8 25	91 23.1 47	119 18 73	106 24 70	
JM 233847 95812798 JM233847	2	JM 182569 JM 182665		111 74	112 74	93 54	102 43	85 33	111 50	115 66	113 53	106 -1.92 76	109 -0.55 51	98 12 43	112 22.7 74	93 -4.2 54	103 52 57	111 32.6 56	128 163 62	97 5.3 71	91 3.0 44	84 -2.9 22	93 23.6 46	123 20 72	116 36 69	
JM 233881 95752861 JM233881	2	JM 202974 JM 172421		107 73	103 73	90 52	111 36	93 28	102 46	119 66	106 50	104 -1.66 76	104 -0.35 49	89 0 36	103 18.2 73	90 -5.3 52	98 39 54	101 25.4 52	113 112 61	127 24.2 71	91 2.4 39	94 -5.8 18	97 25.2 44	118 17 73	118 38 69	
JM 233973 95753505 JM233973	3	JM 213204 JM 213352		104 72	120 73	94 43	88 33	100 23	113 42	104 66	112 47	101 -1.39 76	104 -0.33 41	112 33 33	120 26.7 73	94 -3.9 43	102 50 50	111 32.4 54	106 91 61	129 25.2 71	101 -4.3 33	99 -7.5 13	110 30.3 38	102 6 73	111 31 69	
PDR 230003 94777745 PDR230003		JM 162123 PDR 160017		111 70	94 69	98 53	112 37	113 32	105 47	101 46	105 47	110 -2.28 72	84 0.61 53	88 -2 37	94 13.9 69	98 -2.1 53	100 44 53	94 19.9 44	93 44 44	89 0.4 47	113 -12.4 39	112 -11.2 24	96 24.7 47	96 1 47	91 7 46	
PDR 230047 95786232 PDR230047		JM 141806 PDR 160006		81 72	114 70	82 53	97 33	105 30	89 46	106 64	91 50	82 0.52 74	100 -0.16 53	103 19 33	114 23.8 70	82 -8.5 53	92 25 52	110 31.5 50	110 104 59	105 10.4 68	95 -0.3 38	107 -9.7 21	80 18.8 48	111 12 70	110 28 66	
JM 240003 98051725 JM240003		JM 223525		97 66	91 37	100 31	84 21	60 19	78 28	97 20	80 26	97 -0.98 70	90 0.31 32	116 38 21	91 12.7 37	100 -1.3 31	87 12 30	101 25.5 31	101 73 19	59 -18.3 21	74 14.5 26	58 4.8 12	62 11.7 23	103 6 21	100 17 21	
JM 240005 98051741 JM240005	1	JM 192708 JM 213321		114 73	92 58	82 40	106 31	90 27	88 39	102 43	90 40	113 -2.57 76	85 0.57 43	94 7 31	92 12.8 58	82 -8.5 40	80 -7 43	92 19.0 48	100 68 41	101 7.8 45	88 4.5 38	91 -4.9 16	82 19.7 37	93 -1 46	98 15 44	

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Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
JM 240008 98051774 JM240008		JM 223598	106 66	97 38	109 33	79 26	63 22	95 30	110 25	98 29	106 -1.91 70	82 0.68 34	121 45 26	97 15.6 38	109 2.2 33	97 35 32	115 35.0 32	113 112 24	82 -4.2 26	88 4.6 30	60 4.3 15	68 13.9 26	116 16 25	115 35 25	
JM 240009 98051782 JM240009		JM 223539	107 66	94 37	107 25	75 15	60 18	89 25	108 21	92 24	107 -1.95 70	81 0.72 29	125 50 15	94 13.9 37	107 1.6 25	92 23 26	106 29.0 31	114 115 20	83 -3.6 22	78 11.8 27	58 4.8 9	56 9.2 25	105 8 23	113 33 22	
JM 244002 97595334 JM244002	1	PDR 210054 JM 223520	102 71	134 70	100 42	79 31	113 22	130 41	134 65	134 46	99 -1.14 74	106 -0.44 40	121 45 31	134 33.6 70	100 -1.2 42	113 76 48	137 51.5 49	136 190 60	124 22.2 70	103 -5.6 32	114 -11.9 13	96 25.0 34	138 31 72	130 52 68	
JM 244003 97595342 JM244003		JM 223444 JM 223513	101 71	107 70	103 41	95 33	96 24	107 42	127 64	113 46	101 -1.36 74	90 0.31 40	105 22 33	107 20.3 70	103 -0.2 41	105 57 48	115 35.1 51	124 150 60	91 1.7 70	86 6.0 33	98 -7.0 15	101 26.9 36	126 23 72	114 33 68	
JM 244006 97595375 JM244006	2	PDR 210054 JM 223688	112 71	114 70	84 41	98 30	100 20	108 39	110 65	109 44	109 -2.18 74	97 0.02 40	102 18 30	114 23.6 70	84 -7.8 41	94 29 47	112 33.2 50	116 124 60	97 5.3 70	101 -4.4 31	100 -7.7 10	101 26.8 32	120 18 72	110 29 68	
JM 244013 97595441 JM244013	2	JM 223615 JM 223551	122 71	81 70	116 43	99 33	102 22	107 41	96 65	105 46	117 -2.98 74	106 -0.43 40	101 17 33	81 7.5 70	116 5.0 43	101 46 49	84 12.9 50	100 68 60	123 21.5 70	118 -16.4 33	99 -7.4 11	104 28.0 35	89 -3 72	94 11 68	
JM 244031 97595599 JM244031	3	JM 213194 JM 151911	99 73	104 74	117 50	98 34	91 27	113 45	105 66	112 49	98 -1.06 76	99 -0.11 49	102 18 34	104 19.0 74	117 5.4 50	117 88 53	107 29.3 52	106 90 62	110 13.4 71	94 0.6 35	90 -4.7 19	106 28.8 43	100 4 73	98 15 69	
JM 244034 97595623 JM244034	2	JM 213175 JM 192828	98 72	112 73	115 47	74 40	107 28	115 46	120 66	118 50	96 -0.91 75	104 -0.32 45	126 53 40	112 22.6 73	115 4.8 47	109 66 53	115 35.1 54	117 126 62	129 25.2 71	104 -6.2 36	107 -9.7 19	115 32.3 40	127 24 73	133 55 69	
JM 244038 97595664 JM244038	1	JM 213194 JM 172259	106 73	111 74	102 49	89 33	109 27	114 45	103 66	113 49	101 -1.34 76	115 -0.85 47	111 31 33	111 22.3 74	102 -0.6 49	104 54 52	111 32.1 55	103 79 61	79 -5.9 71	114 -13.8 34	108 -10.0 20	109 30.1 42	99 4 73	96 13 69	
JM 244044 97595730 JM244044		JM 192843 JM 213419	102 72	124 72	86 45	89 38	103 28	111 45	107 64	111 49	97 -1.01 75	114 -0.81 43	111 32 38	124 28.6 72	86 -6.9 45	99 40 52	120 38.7 53	110 101 60	103 9.3 70	90 3.8 37	105 -9.2 19	113 31.4 39	103 6 72	116 36 68	
JM 244052 97595805 JM244052	2	JM 213194 JM 172319	92 73	105 74	99 49	86 34	100 26	94 45	98 66	94 49	93 -0.59 76	90 0.33 48	114 36 34	105 19.3 74	99 -2.0 49	95 32 52	106 28.9 56	104 81 61	94 3.8 71	94 0.3 35	100 -7.8 18	110 30.3 42	78 -12 72	92 8 69	
JM 244054 97595813 JM244054		JM 213243 JM 170161	103 52	94 52	104 44	109 20	102 18	102 32	90 64	99 38	99 -1.18 53	112 -0.70 42	91 2 20	94 13.9 52	104 0.2 44	104 54 39	93 19.4 48	94 48 60	102 8.3 70	93 1.4 24	104 -8.7 11	97 25.5 35	93 -1 72	92 8 68	

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JM 244055	97595821	JM 213175 JM 182566	2	97 73	112 73	107 47	76 31	93 28	107 44	104 65	106 48	95 -0.75 76	107 -0.46 46	124 49 31	112 22.8 73	107 1.5 47	103 53 50	114 34.8 54	115 120 60	120 19.9 70	94 0.4 36	93 -5.6 19	100 26.5 42	111 12 72	113 32 68
JM 244059	97595862	JM 213243 JM 162096	1	92 73	114 73	107 49	90 35	101 29	110 46	103 66	109 50	92 -0.47 76	97 0.01 48	110 30 35	114 23.6 73	107 1.6 49	111 71 52	116 36.2 54	117 125 61	103 9.5 71	94 0.4 37	102 -8.2 21	99 26.3 42	133 27 73	126 47 69
JM 244070	97595979	JM 213204 JM 182593	2	118 73	104 73	86 46	94 29	95 26	102 43	97 66	100 48	111 -2.35 76	117 -0.93 45	106 24 29	104 18.8 73	86 -6.9 46	87 12 49	96 21.8 54	95 51 61	105 10.4 71	99 -3.1 34	94 -5.8 17	110 30.5 40	76 -13 72	90 6 69
JM 244071	97595987	JM 213161 JM 170153		85 71	106 71	115 48	99 23	107 18	108 39	101 65	107 44	87 0.01 74	90 0.33 45	101 17 23	106 19.7 71	115 4.8 48	117 88 47	107 29.7 50	120 137 61	109 12.9 71	101 -4.6 23	108 -10.0 14	114 31.8 39	129 25 72	126 47 69
JM 244076	97596035	JM 213204 JM 172366	2	111 73	98 74	90 48	101 32	100 26	98 44	96 66	97 48	109 -2.16 76	93 0.16 46	99 14 32	98 15.9 74	90 -5.5 48	90 18 51	92 19.0 56	96 55 61	101 7.7 71	90 3.5 35	102 -8.2 18	106 28.9 42	82 -9 72	89 5 69
JM 244081	97596084	JM 213204 JM 151972	1	90 73	117 74	112 50	83 34	96 28	113 46	124 66	117 50	92 -0.42 76	91 0.29 48	117 39 34	117 25.4 74	112 3.4 50	114 79 53	113 33.9 52	112 109 62	127 24.5 71	100 -3.3 35	96 -6.4 20	107 29.1 43	118 17 73	129 51 69
JM 244084	97596118	JM 213194 JM 162145	2	116 73	98 74	101 50	97 37	116 26	111 45	107 66	111 49	111 -2.42 76	106 -0.42 48	103 20 37	98 15.8 74	101 -0.8 50	98 39 54	97 22.0 54	101 71 61	100 7.3 71	104 -6.7 35	118 -13.0 18	116 32.7 42	105 7 72	98 15 69
JM 244087	97596142	JM 213194 JM 162133	1	101 73	109 74	109 50	93 35	111 29	116 46	110 66	116 50	97 -1.01 76	112 -0.68 48	107 25 35	109 21.5 74	109 2.3 50	111 72 53	104 27.6 55	104 82 61	102 8.4 71	90 3.3 37	115 -12.0 21	103 27.7 44	94 0 73	88 3 69
JM 244089	97596167	JM 213175 JM 182580	2	81 72	110 72	104 47	90 34	97 28	97 45	120 66	103 49	82 0.53 75	100 -0.15 45	110 29 34	110 22.0 72	104 0.2 47	106 59 51	113 33.8 54	111 106 61	122 21.2 71	98 -2.5 37	97 -6.8 19	101 26.8 41	109 10 73	114 33 69
JM 244095	97596225	JM 213442 JM 182496		93 73	110 73	85 46	98 36	103 26	94 44	97 65	93 48	93 -0.52 76	98 -0.04 44	102 18 36	110 21.8 73	85 -7.5 46	92 23 52	101 25.0 54	92 41 60	87 -0.8 70	101 -4.1 33	103 -8.6 19	96 24.9 40	86 -5 72	96 13 68
JM 244096	97596233	JM 213204 JM 182482	2	117 73	105 74	76 48	99 35	103 26	98 45	81 65	93 49	111 -2.42 76	110 -0.62 46	101 17 35	105 19.1 74	76 -10.9 48	81 -5 52	92 18.5 54	86 22 61	96 5.0 70	110 -10.5 34	102 -8.1 17	109 29.9 41	64 -21 72	78 -7 68
JM 244101	97596282	JM 213204 JM 141736	2	106 74	100 74	99 50	94 32	98 26	101 44	94 66	99 48	101 -1.37 77	114 -0.80 48	106 23 32	100 16.9 74	99 -1.7 50	97 35 52	94 20.5 54	96 55 61	94 3.5 71	96 -0.8 35	99 -7.2 17	103 27.6 42	88 -5 73	90 6 69

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ID Number Name																									
JM 244103 97596308 JM244103	1	JM 213442 JM 202986	117 72	81 72	106 43	96 36	105 24	98 43	98 65	97 47	113 -2.62 75	98 -0.07 41	104 22 36	81 7.9 72	106 1.0 43	91 20 50	86 14.7 54	104 82 60	83 -3.2 70	103 -6.0 32	105 -9.2 16	103 27.5 37	95 1 72	84 -1 68	
JM 244112 97596381 JM244112	2	JM 213175 JM 182479	76 73	125 73	106 48	80 36	97 28	107 45	105 66	107 49	78 0.94 76	100 -0.16 46	120 43 36	125 29.2 73	106 1.1 48	113 76 52	126 43.4 56	112 110 61	107 11.7 71	91 3.1 37	98 -7.0 19	117 33.0 40	98 3 72	115 34 69	
JM 244114 97596407 JM244114	3	JM 213175 JM 182591	101 73	98 73	110 48	97 33	89 28	103 45	94 66	101 49	100 -1.27 76	96 0.03 46	103 20 33	98 16.1 73	110 2.5 48	106 60 51	104 27.2 56	106 88 61	112 14.7 71	97 -1.8 37	87 -3.9 19	102 27.4 42	111 12 73	105 23 69	
JM 244118 97596431 JM244118	1	JM 213204 JM 192707	101 73	116 74	87 48	97 39	98 28	104 46	117 66	108 50	99 -1.21 76	98 -0.06 46	103 19 39	116 24.5 74	87 -6.6 48	98 38 54	113 33.8 54	110 102 61	113 15.6 71	91 2.5 35	99 -7.4 20	110 30.5 39	106 8 72	110 29 69	
JM 244120 97596456 JM244120	1	JM 192708 JM 213174	95 73	105 73	89 46	96 37	95 30	91 46	106 65	94 50	96 -0.89 76	87 0.45 46	104 21 37	105 19.3 73	89 -5.8 46	92 22 52	102 26.1 56	109 99 61	117 17.9 71	95 0.1 39	95 -6.2 20	88 21.9 40	98 3 72	105 23 69	
JM 244122 97596464 JM244122	5	JM 192834 JM 213180	116 73	87 73	117 49	100 40	100 26	110 46	93 66	106 50	112 -2.49 76	99 -0.12 45	100 16 40	87 10.4 73	117 5.3 49	106 59 54	98 22.8 54	100 69 61	120 20.1 71	117 -15.2 39	97 -6.8 14	97 25.5 41	84 -7 73	96 12 69	
JM 244126 97600944 JM244126	1	JM 192725 JM 213337	88 73	104 73	80 45	93 34	77 28	76 45	112 66	82 49	89 -0.16 76	96 0.06 43	107 25 34	104 18.8 73	80 -9.4 45	82 -2 51	105 28.0 54	106 91 61	129 25.2 71	86 5.9 38	76 -0.6 17	97 25.1 42	108 10 72	108 27 69	
JM 244128 97596514 JM244128	3	JM 213204 JM 182621	103 73	113 74	101 47	88 30	99 26	110 44	121 66	114 48	100 -1.23 76	107 -0.49 45	112 32 30	113 23.0 74	101 -1.2 47	103 52 50	112 33.2 54	118 130 61	115 16.9 71	92 2.1 34	100 -7.6 17	110 30.4 40	112 12 73	113 33 69	
JM 244129 97596522 JM244129	1	JM 213204 JM 182669	116 73	96 73	81 47	96 31	105 24	92 43	108 66	95 48	113 -2.56 76	97 0.00 45	104 21 31	96 14.9 73	81 -9.2 47	78 -13 50	89 16.6 54	93 44 62	109 13.1 71	103 -5.5 32	105 -9.0 17	113 31.5 41	100 4 73	99 16 69	
JM 244150 97596720 JM244150	1	JM 213288 JM 213423	102 71	96 71	106 44	106 36	113 24	106 43	116 65	109 47	101 -1.36 74	95 0.11 42	94 7 36	96 15.0 71	106 1.1 44	106 59 50	99 23.8 50	99 65 60	112 14.7 70	111 -11.7 32	112 -11.3 16	110 30.4 37	97 2 72	95 12 68	
JM 244151 97596738 JM244151	2	JM 213194 JM 172352	99 72	100 74	107 49	85 35	119 26	104 45	113 65	107 49	98 -1.05 75	96 0.05 47	115 36 35	100 17.1 74	107 1.6 49	100 44 53	103 26.7 54	109 98 60	100 7.6 70	105 -7.2 35	121 -13.9 18	117 33.2 41	99 3 72	94 11 68	
JM 244166 97596886 JM244166		JM 213161 JM 180165	93 71	98 71	110 47	101 23	107 18	102 38	82 65	97 43	93 -0.60 74	93 0.18 44	99 14 23	98 15.8 71	110 2.6 47	108 65 47	92 18.5 52	92 43 60	97 5.7 70	103 -5.5 23	107 -9.8 14	121 34.7 37	86 -6 72	84 -1 68	

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JM 244167 97596894 JM244167	2	JM 213175 JM 192764		112 72	107 72	110 46	75 35	104 26	115 44	102 66	113 48	108 -2.05 75	108 -0.50 45	125 52 35	107 20.1 72	110 2.6 46	101 47 51	108 30.6 53	115 120 61	127 24.1 71	101 -4.4 34	104 -8.9 18	111 30.8 40	102 5 72	115 35 69
JM 244171 97596936 JM244171	2	JM 192725 JM 213192		95 73	113 73	93 43	88 32	91 27	98 44	110 66	101 48	95 -0.71 76	95 0.07 42	112 33 32	113 23.0 73	93 -4.1 43	97 36 49	108 30.2 55	98 63 61	107 11.5 71	93 1.4 38	91 -5.1 16	96 24.9 42	96 1 73	114 34 69
JM 244172 97596944 JM244172	2	JM 213175 JM 192738		114 72	101 73	108 47	84 38	103 26	111 45	101 65	110 49	109 -2.18 75	106 -0.43 45	116 38 38	101 17.2 73	108 2.0 47	100 45 53	105 27.9 52	100 70 60	109 12.7 70	106 -8.2 35	103 -8.4 17	110 30.5 40	104 7 72	121 41 68
JM 244175 97596977 JM244175	1	JM 213204 JM 172415		113 73	101 74	94 49	99 33	100 28	105 45	97 66	103 49	109 -2.15 76	104 -0.31 47	101 16 33	101 17.6 74	94 -3.6 49	95 32 52	92 18.7 56	94 49 62	112 14.7 71	93 1.5 35	102 -8.2 20	110 30.3 43	90 -3 73	102 20 69
JM 244178 97597009 JM244178	2	JM 213442 JM 192809		123 73	97 73	96 45	94 35	98 25	107 44	113 66	109 48	117 -3.00 76	116 -0.89 44	106 23 35	97 15.5 73	96 -3.0 45	92 23 51	97 22.6 51	105 85 61	104 10.0 71	97 -1.7 33	98 -6.9 17	92 23.5 39	103 6 73	108 26 69
JM 244185 97597074 JM244185	3	JM 213175 JM 182538		99 72	92 73	103 47	100 33	92 28	92 45	85 66	89 49	98 -1.05 75	97 -0.02 45	100 16 33	92 13.0 73	103 -0.4 47	97 35 51	93 19.8 55	98 63 61	111 14.1 71	106 -7.8 37	90 -4.6 19	109 29.9 42	105 7 72	99 16 69
JM 244195 97597173 JM244195		JM 213161 JM 180164		106 71	111 71	125 47	90 24	108 20	130 39	99 65	126 44	101 -1.40 74	113 -0.74 44	110 30 24	111 22.4 71	125 8.5 47	124 106 47	105 28.2 52	114 115 61	110 13.4 71	92 1.8 26	110 -10.8 14	121 34.6 37	117 16 72	112 31 69
JM 244203 97597256 JM244203	1	JM 213194 JM 141719		99 74	110 74	111 51	85 33	100 28	113 46	100 65	110 50	97 -0.93 77	107 -0.48 49	115 37 33	110 21.8 74	111 3.0 51	109 67 53	106 29.1 52	108 96 60	90 1.0 70	88 5.1 36	103 -8.4 19	106 29.0 44	94 0 72	89 5 68
JM 254251 99638561 JM254251		JM 223647 JM 172317		120 72	99 73	84 49	83 35	113 28	98 45	117 39	102 44	115 -2.83 75	98 -0.04 47	117 39 35	99 16.5 73	84 -7.9 49	78 -11 52	103 26.5 42	114 115 37	107 11.4 42	104 -6.2 35	115 -12.0 21	107 29.3 40	111 12 43	110 29 41
JM 254256 99646887 JM254256		C0008 JM 223681		104 73	97 73	89 49	101 36	79 32	88 47	108 43	92 46	102 -1.42 76	101 -0.17 48	99 14 36	97 15.6 73	89 -5.7 49	89 15 53	99 23.8 46	104 83 41	93 2.6 45	85 7.2 42	79 -1.4 23	83 19.7 47	104 7 45	107 25 44
JM 254264 99646903 JM254264		11005 JM 192704		102 71	115 71	92 44	94 38	83 28	104 45	115 28	107 42	100 -1.25 74	102 -0.25 44	106 24 38	115 24.0 71	92 -4.5 44	96 34 51	112 33.4 37	114 115 26	103 9.3 29	86 6.3 34	83 -2.7 21	69 14.5 36	120 18 29	117 37 28
JM 254265 99646952 JM254265		DVPD008 JM 223652		90 73	113 73	88 48	93 36	90 32	92 47	110 44	96 46	87 0.03 76	115 -0.84 47	107 26 36	113 23.2 73	88 -6.4 48	94 29 52	110 31.4 48	117 128 42	104 10.0 46	83 8.5 43	91 -5.0 21	86 20.9 48	112 13 46	111 30 45

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JM 254272	99638629	2	JM 223524 JM 172277	81 73	126 73	99 50	71 34	99 28	103 45	117 43	106 45	84 0.41	94 0.15	129 56	126 29.3	99 -1.9	103 50	122 40.3	117 128	103 46	92 2.0	100 -7.6	104 28.2	120 18	122 43
JM 254273	99638637	4	JM 223647 JM 192809	99 72	127 73	94 48	81 38	108 26	116 45	129 44	121 45	94 -0.66	124 -1.28	119 42	127 29.8	94 -3.7	104 53	127 44.1	131 175	128 47	100 -3.3	109 -10.3	105 28.5	128 24	127 49
JM 254274	99638645	1	JM 223647 JM 192758	86 72	124 73	94 48	87 39	102 28	106 46	125 44	112 46	88 -0.09	89 0.36	113 34	124 28.5	94 -3.6	105 56	124 42.0	128 165	128 47	104 -6.4	102 -8.2	107 29.3	130 25	126 47
JM 254275	99638652	4	JM 223647 JM 192815	113 72	115 73	93 49	88 40	113 27	116 46	120 38	119 44	106 -1.91	123 -1.19	112 33	115 24.3	93 -4.4	98 39	119 37.9	119 133	114 42	101 -4.1	114 -12.0	120 34.4	120 18	122 43
JM 254280	99646960		C0008 JM 223593	85 73	106 73	84 48	106 35	96 34	85 47	101 42	87 46	85 0.27	102 -0.25	94 7	106 19.8	84 -7.7	92 25	105 27.9	103 78	111 45	99 -2.9	95 -6.2	80 18.7	108 10	103 21
JM 254285	99638751	2	JM 223524 JM 172309	82 72	126 73	97 50	65 32	108 26	103 44	113 39	105 43	83 0.46	98 -0.06	135 65	126 29.8	97 -2.5	99 42	117 36.9	120 135	107 42	95 0.1	110 -10.6	105 28.3	111 12	119 40
JM 254286	99646978		DVPD008 JM 223671	119 73	98 73	69 49	98 38	82 34	84 48	109 42	88 47	111 -2.44	118 -0.96	102 18	98 16.1	69 -13.7	70 -32	95 20.5	106 90	84 -2.8	82 8.8	82 -2.4	86 21.0	107 9	102 20
JM 254291	99638793	2	JM 223524 JM 172259	107 73	112 73	97 50	82 31	102 27	109 44	108 44	109 44	104 -1.64	103 -0.27	118 41	112 22.8	97 -2.5	98 38	110 31.8	106 90	92 2.0	113 -12.5	99 -7.4	100 26.7	110 11	116 36
JM 254293	99638819		JM 223584 JM 182519	93 72	110 73	92 48	88 35	106 28	97 45	107 38	99 44	91 -0.40	108 -0.50	112 32	110 21.8	92 -4.6	94 29	108 30.2	114 117	108 12.6	95 0.0	108 -10.0	114 31.9	110 11	107 26
JM 254294	99638827	2	JM 223584 JM 203072	115 72	104 73	101 47	102 38	105 28	116 46	112 40	117 45	108 -2.11	120 -1.06	98 12	104 19.0	101 -0.9	105 57	104 27.3	114 118	116 17.3	100 -3.3	106 -9.5	109 30.0	114 14	113 32
JM 254296	99638843	6	JM 213204 JM 223621	101 71	109 73	104 41	95 26	94 19	109 39	107 44	109 40	99 -1.21	98 -0.03	105 23	109 21.2	104 0.2	107 62	101 25.2	105 87	113 15.4	92 2.3	94 -5.9	111 30.6	101 5	108 27
JM 254297	99638850	2	JM 213194 JM 223512	121 72	106 73	112 43	89 34	110 24	126 43	109 41	124 43	119 -3.21	116 -0.90	111 32	106 19.9	112 3.3	109 67	105 28.4	109 100	101 8.1	107 -8.5	111 -10.8	115 32.2	100 4	102 20

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JM 254298 99638868 JM254298	1	JM 223584 JM 121460		102 73	113 74	115 51	80 34	99 30	118 46	117 42	120 45	99 -1.14 76	107 -0.49 49	120 44 34	113 23.1 74	115 4.7 53	112 74 53	112 32.9 41	127 159 39	129 25.2 45	93 1.3 38	101 -7.8 22	103 27.5 43	133 27 46	124 45 44
JM 254307 99638942 JM254307	4	JM 223558 JM 162154		111 73	91 73	97 49	96 32	103 26	96 44	103 42	97 44	108 -2.04 76	100 -0.14 48	104 22 32	91 12.5 73	97 -2.4 49	89 17 51	93 19.5 41	106 89 38	100 7.1 44	106 -7.6 36	102 -8.2 17	100 26.6 42	102 6 45	98 15 43
JM 254310 99638975 JM254310	2	JM 213204 JM 223582		105 72	89 73	89 40	104 27	92 22	85 40	94 43	85 41	104 -1.70 76	89 0.38 38	96 10 27	89 11.7 73	89 -5.7 40	84 4 47	90 16.9 46	86 19 41	108 12.6 46	101 -4.0 33	90 -4.7 12	107 29.0 38	79 -11 46	88 4 45
JM 254313 99639007 JM254313	2	JM 223558 JM 162145		110 73	87 73	91 50	102 37	109 27	90 46	101 42	91 45	106 -1.91 76	101 -0.17 48	98 12 37	87 10.5 73	91 -4.9 50	84 3 53	91 18.0 42	101 72 39	98 6.2 45	109 -9.7 36	109 -10.3 18	112 31.2 41	97 2 46	92 9 44
JM 254315 99639023 JM254315	1	JM 213194 JM 223526		98 73	101 73	110 44	92 35	113 25	108 44	101 44	107 44	96 -0.87 76	106 -0.44 42	108 26 35	101 17.4 73	110 2.8 44	106 60 51	100 24.1 48	103 78 42	91 1.4 46	99 -2.7 34	115 -12.1 16	107 29.4 39	100 4 47	92 8 45
JM 254318 99639056 JM254318		JM 223448 JM 170157		111 71	105 71	97 46	105 20	105 14	112 36	105 33	111 35	108 -2.05 74	101 -0.17 43	95 8 20	105 19.2 71	97 -2.5 46	103 52 46	103 26.8 28	105 86 31	105 10.4 36	95 -0.4 19	107 -9.8 8	108 29.7 35	108 10 36	107 25 35
JM 254319 99639064 JM254319	1	JM 223655 JM 203015		112 72	96 73	96 46	104 37	118 24	106 44	102 38	105 43	106 -1.90 75	116 -0.88 44	96 10 37	96 15.2 73	96 -3.0 46	96 33 52	98 22.8 42	104 81 35	116 17.1 41	112 -12.1 33	118 -13.1 16	116 32.6 37	100 4 41	98 15 40
JM 254322 99639098 JM254322	1	JM 213204 JM 223473		92 71	122 73	94 39	86 29	99 22	107 40	111 43	109 41	92 -0.44 75	95 0.08 37	114 35 29	122 27.7 73	94 -3.6 39	103 52 47	118 37.2 46	113 113 41	115 16.4 45	88 5.1 32	102 -8.1 12	113 31.7 34	101 5 46	109 28 44
JM 254327 99639148 JM254327	2	JM 213204 JM 223614		105 71	118 73	98 39	89 26	98 20	115 39	107 44	114 40	101 -1.39 75	110 -0.60 37	111 32 26	118 25.7 73	98 -2.2 39	105 56 46	109 31.1 46	110 104 41	117 18.1 46	84 7.6 31	101 -8.0 8	115 32.2 34	99 3 47	110 29 45
JM 254337 99639247 JM254337		JM 223647 JM 172319		87 73	115 73	85 49	81 35	95 29	88 46	119 42	94 45	89 -0.18 76	86 0.49 47	119 42 35	115 24.0 73	85 -7.6 49	88 13 52	119 38.0 44	123 147 39	113 15.7 45	94 1.0 36	96 -6.4 22	105 28.6 40	117 16 46	121 41 44
JM 254339 99639254 JM254339	4	JM 223584 JM 151911		79 73	116 73	105 50	95 33	83 26	100 44	103 43	101 44	80 0.78 76	103 -0.27 48	105 22 33	116 24.6 73	105 0.7 50	113 78 52	113 34.0 38	114 116 40	124 22.1 47	83 8.1 36	83 -2.7 17	103 27.8 41	113 13 46	108 27 44
JM 254340 99639262 JM254340	3	JM 223558 JM 182593		93 72	110 73	90 47	91 29	97 26	94 43	110 41	97 43	90 -0.29 75	115 -0.86 46	109 28 29	110 21.6 73	90 -5.5 47	93 26 50	111 32.4 39	116 125 38	104 9.7 45	100 -3.8 35	97 -6.6 16	105 28.5 39	104 7 45	105 23 43

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ID Number Name																										
JM 254342 99639288 JM254342	3	JM 223655 JM 213410	100 72	120 72	105 42	93 32	103 22	120 41	131 37	125 40	99 -1.13 75	97 0.01 40	107 25 32	120 26.6 72	105 0.6 42	114 81 49	121 39.7 40	132 178 34	129 25.2 40	91 2.9 33	105 -9.0 12	107 29.3 35	135 29 41	133 55 39		
JM 254343 99639296 JM254343	5	JM 223655 JM 203006	104 72	110 73	109 46	94 33	121 22	121 42	118 38	122 41	100 -1.25 75	113 -0.76 44	106 23 33	110 22.0 73	109 2.1 46	112 75 51	110 32.1 43	122 145 35	129 25.2 41	108 -9.0 32	123 -14.5 12	114 32.0 35	117 16 42	116 35 40		
JM 254350 99639361 JM254350	1	JM 223558 JM 162095	112 73	103 73	100 50	86 38	107 30	107 47	111 42	109 46	109 -2.23 76	94 0.14 48	114 36 38	103 18.1 73	100 -1.3 50	95 32 54	109 31.3 43	113 111 39	103 9.0 46	104 -6.2 37	107 -9.8 22	110 30.3 41	111 12 46	110 29 44		
JM 254352 99639387 JM254352	2	JM 213194 JM 223565	105 73	109 73	104 44	87 35	110 24	113 43	111 41	114 43	101 -1.39 76	109 -0.58 42	113 33 35	109 21.5 73	104 0.3 44	104 54 51	112 33.2 47	107 94 39	102 8.7 44	106 -7.5 34	111 -10.8 15	114 32.0 38	103 6 44	100 18 43		
JM 254353 99639395 JM254353	2	JM 213194 JM 223638	95 72	110 73	101 43	97 35	108 24	108 43	102 42	107 43	95 -0.75 76	95 0.09 41	103 20 35	110 22.0 73	101 -0.8 43	107 61 50	110 31.8 46	102 76 39	99 6.6 44	104 -6.2 33	108 -10.0 15	105 28.6 37	94 0 45	96 13 43		
JM 254355 99639411 JM254355	4	JM 213194 JM 223533	109 72	114 73	105 44	85 34	114 22	121 42	112 41	121 42	104 -1.72 76	111 -0.67 41	115 36 34	114 23.6 73	105 0.6 44	106 60 50	114 34.6 46	107 93 39	97 5.2 44	104 -6.5 33	115 -12.1 10	117 33.2 37	98 3 43	101 18 42		
JM 254360 99639452 JM254360	1	JM 213194 JM 223513	94 73	104 73	111 44	87 35	113 25	106 44	106 45	107 44	93 -0.55 76	102 -0.23 42	113 33 35	104 18.7 73	111 2.9 44	106 59 51	102 25.8 48	107 93 42	90 1.2 47	98 -2.0 34	115 -12.3 16	106 28.9 38	101 5 48	93 9 46		
JM 254369 99639536 JM254369	3	JM 213204 JM 223452	103 71	122 73	98 38	93 27	99 20	118 39	114 43	119 40	101 -1.40 75	94 0.12 37	107 25 27	122 27.5 73	98 -2.2 38	110 68 46	114 34.9 46	117 127 40	120 19.9 45	88 5.1 32	101 -8.0 7	115 32.2 36	104 7 46	112 31 44		
JM 254370 99639544 JM254370	3	JM 223647 JM 172314	111 73	91 73	91 48	99 35	98 26	92 45	106 40	94 44	109 -2.21 76	92 0.23 47	101 17 35	91 12.8 73	91 -5.2 48	85 5 52	97 22.6 44	101 73 37	122 21.0 43	103 -5.6 36	96 -6.6 17	99 26.1 41	103 7 43	102 20 41		
JM 254371 99639551 JM254371	4	JM 223584 JM 203104	92 72	123 73	95 47	84 38	106 26	109 45	119 38	113 44	88 -0.08 75	123 -1.22 44	116 37 38	123 28.0 73	95 -3.4 47	103 53 53	120 39.3 42	118 131 36	118 18.4 42	95 0.2 35	108 -10.1 16	112 31.1 37	119 17 43	118 38 41		
JM 254376 99639593 JM254376		JM 192725 JM 172352	89 73	98 74	85 50	85 37	101 30	77 47	103 45	80 47	90 -0.24 76	96 0.03 49	115 36 37	98 15.8 74	85 -7.3 50	79 -9 54	96 21.6 48	99 65 42	108 12.5 47	104 -6.5 39	101 -7.8 22	93 23.9 45	92 -2 48	98 15 46		
JM 254378 99639619 JM254378		JM 233736	105 66	104 67	113 31	83 25	67 18	105 35	117 22	109 32	105 -1.78 70	84 0.61 29	117 39 25	104 19.0 67	113 3.9 31	106 60 41	114 34.5 28	122 145 21	86 -1.6 24	75 14.2 27	66 2.4 10	77 17.5 26	114 14 24	119 39 23		

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JM 254384	99639676	3	JM 223558 JM 182566	110	92	105	89	96	98	100	98	105	107	111	92	105	93	97	102	105	102	95	98	97	93
JM254384				72	73	48	31	27	44	40	43	-1.83	-0.47	31	12.9	0.4	27	22.6	76	10.4	-5.1	-6.1	25.7	2	9
												75	46	31	73	48	51	40	37	43	36	18	41	44	42
JM 254385	99638736	2	JM 213204 JM 223601	120	102	91	97	91	106	110	107	117	98	103	102	91	92	101	102	105	93	91	110	94	102
JM254385				71	73	40	30	22	41	43	41	-2.97	-0.07	19	18.1	-5.2	23	25.4	74	10.6	1.6	-5.0	30.5	0	20
												75	38	30	73	40	48	47	41	45	33	11	37	45	43
JM 254386	99639684	2	JM 223558 JM 152009	101	95	99	96	95	93	107	95	101	87	104	95	99	94	101	110	107	106	92	106	106	100
JM254386				73	73	51	36	29	46	42	45	-1.40	0.48	21	14.4	-1.8	28	25.3	104	11.5	-8.1	-5.3	28.7	9	17
												76	49	36	73	51	53	39	38	44	38	20	43	45	43
JM 254387	99637472		JM 223448 JM 170153	93	117	109	99	106	118	119	120	92	102	101	117	109	119	116	121	115	92	109	110	125	127
JM254387				71	71	46	20	14	36	40	37	-0.46	-0.21	16	25.1	2.2	94	36.0	139	16.8	2.2	-10.3	30.4	22	48
												74	43	20	71	46	46	30	38	44	19	8	35	45	43
JM 254391	99637514	1	JM 223647 JM 213287	83	110	95	82	101	90	115	95	86	85	118	110	95	94	113	112	120	92	102	108	111	113
JM254391				72	72	44	33	25	43	38	42	0.12	0.54	41	21.6	-3.5	28	34.1	109	19.8	2.1	-8.4	29.7	12	32
												75	41	33	72	44	50	41	36	41	34	16	37	42	40
JM 254393	99637530		JM 223655 JM 180163	100	95	93	105	107	92	99	93	98	101	95	95	93	92	96	99	109	111	106	109	101	99
JM254393				71	71	46	23	18	38	33	37	-1.05	-0.19	8	14.2	-4.2	24	21.7	64	12.7	-11.1	-9.3	30.1	5	16
												74	44	23	71	46	47	35	31	35	25	12	34	36	34
JM 254400	99637597	3	JM 223524 JM 213253	89	112	111	79	102	106	115	109	91	82	121	112	111	107	111	111	112	103	102	104	114	121
JM254400				72	72	47	36	26	44	40	43	-0.40	0.69	46	22.7	2.9	62	32.8	106	14.9	-5.5	-8.1	28.2	14	41
												75	45	36	72	47	52	42	38	43	35	16	40	43	41
JM 254407	99637662		JM 233823	92	99	116	84	65	94	113	98	93	88	116	99	116	106	111	118	81	80	63	74	112	116
JM254407				66	67	30	23	17	34	23	32	-0.60	0.43	38	16.2	5.2	59	32.7	129	-4.6	10.7	3.4	16.5	12	35
												70	28	23	67	30	40	26	22	24	26	8	26	25	24
JM 254408	99637670	2	JM 223558 JM 213180	93	110	95	84	101	97	111	100	93	95	116	110	95	96	116	117	117	105	99	109	113	109
JM254408				72	72	45	37	25	44	40	43	-0.54	0.11	38	21.9	-3.2	33	35.8	126	18.1	-7.2	-7.5	29.8	13	28
												75	42	37	72	45	51	42	38	44	34	16	38	44	42
JM 254411	99637704		JM 233797	111	64	104	94	68	68	96	71	122	80	106	64	104	76	85	89	55	91	64	79	80	84
JM254411				66	67	31	24	18	35	22	32	-3.52	0.77	24	-0.6	0.1	-17	13.5	30	-20.9	2.7	3.1	18.2	-10	-1
												70	29	24	67	31	41	27	21	23	27	10	26	23	23
JM 254412	99637712	3	JM 223524 JM 172304	82	128	122	71	94	121	122	124	84	99	129	128	122	122	120	124	112	91	94	96	118	128
JM254412				73	73	49	29	26	43	40	42	0.40	-0.09	56	30.7	7.3	101	38.9	149	14.7	2.9	-5.9	25.1	17	50
												76	48	29	73	49	50	42	38	43	36	17	42	44	42
JM 254415	99637746	1	JM 213194 JM 223456	118	99	110	108	105	121	104	119	114	98	92	99	110	113	104	105	96	103	105	107	94	94
JM254415				72	73	43	34	24	43	41	43	-2.68	-0.05	4	16.4	2.7	78	27.1	84	4.8	-5.8	-9.1	29.3	0	11
												75	41	34	73	43	50	45	39	44	33	15	37	44	43

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JM 254420	99637795	3	JM 213194 JM 223609	89	120	110	80	108	115	109	115	91	91	120	120	110	112	118	112	104	97	110	105	103	106
JM254420				73	73	45	35	25	44	43	44	-0.31	0.27	44	26.7	2.6	75	37.5	108	9.6	-1.4	-10.6	28.4	7	24
												76	43	35	73	45	51	47	41	46	35	15	40	46	45
JM 254421	99637803	1	JM 213194 JM 223551	108	106	127	83	113	128	109	126	103	113	117	106	127	119	108	114	121	108	113	112	101	105
JM254421				72	73	44	35	24	43	44	43	-1.61	-0.75	39	19.8	9.4	93	30.3	115	20.2	-8.9	-11.7	31.3	5	23
												76	41	35	73	44	51	47	42	47	34	15	37	48	46
JM 254424	99637837	6	JM 223647 JM 192792	100	124	80	89	108	106	125	112	96	112	111	124	80	93	123	123	122	103	108	105	123	122
JM254424				72	73	48	38	24	44	38	43	-0.91	-0.70	32	28.7	-9.5	27	41.0	148	20.8	-5.5	-10.1	28.5	21	43
												75	45	38	73	48	53	38	35	41	34	14	38	41	39
JM 254429	99637886	1	JM 192725 JM 202926	111	103	81	91	83	91	109	94	106	111	109	103	81	81	104	107	105	97	80	83	108	111
JM254429				73	74	48	39	30	47	45	47	-1.91	-0.65	29	18.5	-8.9	-4	27.6	92	10.6	-1.4	-1.8	20.0	10	30
												76	47	39	74	48	54	49	42	47	39	22	42	48	46
JM 254430	99637894	4	JM 213204 JM 223468	120	123	94	87	101	126	117	127	120	117	113	123	94	104	115	119	123	88	103	117	107	115
JM254430				71	73	39	27	18	39	42	40	-3.29	-0.93	34	28.2	-3.7	55	35.2	135	22.0	4.9	-8.7	33.1	9	35
												75	37	27	73	39	46	45	40	45	31	5	34	45	44
JM 254431	99637902	2	JM 192725 JM 172441	108	97	96	97	89	96	98	96	106	95	103	97	96	92	94	99	118	92	89	85	99	109
JM254431				74	74	50	34	30	46	45	46	-1.86	0.08	20	15.4	-3.1	25	19.9	65	18.3	2.4	-4.3	20.8	4	27
												77	49	34	74	50	53	48	43	48	39	20	46	49	47
JM 254433	99637928	2	JM 223448 JM 182669	113	103	88	102	105	104	112	106	111	94	98	103	88	92	101	111	110	98	106	107	116	109
JM254433				72	73	46	31	23	42	42	42	-2.36	0.14	13	18.3	-6.1	23	25.0	104	13.3	-2.3	-9.6	29.2	15	28
												75	44	31	73	46	50	38	39	46	31	15	38	47	44
JM 254434	99637936	2	JM 223448 JM 162193	114	106	104	103	99	119	109	118	123	109	97	106	104	110	100	114	122	90	101	99	127	118
JM254434				73	73	48	32	24	43	46	44	-3.65	-0.55	11	20.0	0.3	70	24.8	116	21.3	3.8	-8.0	26.0	23	38
												76	46	32	73	48	51	41	42	48	33	16	41	49	47
JM 254435	99637944	1	JM 223448 JM 192705	91	121	100	105	88	113	123	116	91	92	95	121	100	118	122	123	115	86	89	97	126	124
JM254435				72	73	46	37	24	44	38	43	-0.40	0.22	8	27.1	-1.4	89	40.1	147	16.5	6.1	-4.4	25.5	23	45
												75	43	37	73	46	52	38	36	41	33	16	36	42	40
JM 254438	99637977	1	JM 223524 JM 213252	68	128	104	75	103	101	113	104	72	91	125	128	104	110	124	116	113	92	105	106	115	120
JM254438				72	72	46	37	26	44	37	43	1.57	0.26	51	30.5	0.1	68	42.1	122	15.2	2.4	-9.1	29.0	15	40
												75	44	37	72	46	52	41	35	40	34	17	38	41	39
JM 254439	99637985	3	JM 223584 JM 182534	90	103	101	99	100	96	101	96	89	104	101	103	101	102	100	105	124	98	100	101	100	102
JM254439				72	73	48	34	26	44	40	43	-0.15	-0.32	17	18.3	-1.2	49	24.8	86	22.3	-2.4	-7.8	26.9	4	20
												75	46	34	73	48	52	42	38	44	35	17	40	44	42
JM 254442	99638017	1	JM 213194 JM 223450	120	93	115	111	108	121	98	117	119	114	89	93	115	114	95	99	94	105	108	121	89	89
JM254442				72	72	43	33	24	42	41	42	-3.24	-0.78	0	13.3	4.6	81	20.8	64	3.3	-7.1	-10.1	34.8	-3	4
												75	41	33	72	43	49	44	39	43	32	15	36	44	42

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JM 254444	99638025	2	JM 213204 JM 223634	120	107	88	102	92	109	111	110	115	99	98	107	88	95	104	104	116	85	93	108	99	106
JM254444				71	73	40	30	22	41	44	42	-2.80	-0.11	12	20.2	-6.2	30	27.6	81	17.3	7.1	-5.7	29.7	4	24
												75	38	30	73	40	48	47	42	46	33	11	37	46	45
JM 254447	99638058	2	JM 223524 JM 172453	97	95	109	102	105	101	103	101	97	95	98	95	109	105	95	101	105	109	104	95	101	104
JM254447				72	73	49	31	26	44	38	43	-0.93	0.07	13	14.3	2.2	57	20.8	73	10.1	-9.6	-8.8	24.6	5	22
												75	48	31	73	49	51	42	36	42	36	17	42	43	41
JM 254449	99638074	3	JM 223448 JM 182683	109	85	102	109	93	95	100	95	127	101	91	85	102	96	87	100	107	103	92	96	107	100
JM254449				72	73	46	31	24	43	40	42	-3.98	-0.17	3	9.7	-0.4	34	15.0	67	11.4	-5.5	-5.2	25.0	9	17
												75	44	31	73	46	50	38	38	43	33	16	40	44	42
JM 254457	99638157	1	JM 223655 JM 202995	88	103	111	105	116	108	114	110	87	104	95	103	111	116	107	114	123	110	117	118	116	107
JM254457				72	73	46	37	25	44	42	44	0.02	-0.31	8	18.6	3.0	84	29.8	116	21.7	-10.3	-12.6	33.5	15	26
												75	44	37	73	46	52	42	40	46	33	17	37	47	44
JM 254459	99638173	5	JM 223524 JM 172267	82	118	103	72	105	101	115	104	85	90	128	118	103	102	119	109	99	107	104	108	109	117
JM254459				73	73	50	35	27	45	40	44	0.29	0.34	55	25.7	-0.1	49	38.4	98	6.6	-8.6	-9.0	29.5	11	37
												76	49	35	73	50	53	43	37	43	37	17	42	43	41
JM 254460	99638181	1	JM 192725 JM 172351	95	103	100	85	86	93	108	96	94	103	115	103	100	95	103	104	112	94	85	85	100	107
JM254460				73	74	50	36	30	47	46	47	-0.63	-0.27	37	18.5	-1.4	32	27.0	81	14.6	0.5	-3.2	20.5	4	26
												76	49	36	74	50	53	50	43	48	39	21	46	49	47
JM 254466	99638249		JM 213340	89	108	108	86	50	92	114	97	91	85	114	108	108	106	117	118	74	75	47	69	110	117
JM254466				66	67	35	29	20	37	26	35	-0.39	0.58	35	20.8	1.7	58	36.7	129	-8.9	14.2	8.1	14.6	11	37
												70	33	29	67	35	44	32	24	27	28	13	30	26	26
JM 254469	99638272	2	JM 192725 JM 192868	104	103	92	104	89	99	106	100	103	94	96	103	92	97	102	101	115	98	88	90	97	107
JM254469				73	74	49	39	28	46	46	46	-1.55	0.15	10	18.4	-4.5	36	25.7	73	16.7	-2.4	-4.0	22.6	2	26
												76	47	39	74	49	54	46	44	49	39	18	44	50	48
JM 254472	99638306	2	JM 223558 JM 182591	96	97	104	102	93	97	92	95	95	100	98	97	104	103	101	101	107	100	92	100	101	95
JM254472				73	73	49	33	29	45	42	44	-0.78	-0.14	13	15.5	0.4	51	25.0	74	11.4	-3.6	-5.2	26.6	5	11
												76	47	33	73	49	52	42	40	46	38	20	41	46	44
JM 254476	99638348	2	JM 223558 JM 213174	80	119	95	83	102	97	113	100	83	91	117	119	95	100	116	117	122	95	103	108	110	111
JM254476				72	72	43	32	26	43	40	42	0.47	0.26	40	26.0	-3.5	44	36.3	127	21.2	0.0	-8.6	29.7	11	30
												75	43	32	72	43	49	42	37	43	34	17	38	44	42
JM 254477	99638355		JM 223448 JM 170152	80	122	118	92	108	120	119	122	82	98	108	122	118	127	120	120	116	90	111	116	122	122
JM254477				71	71	46	25	18	39	38	39	0.60	-0.04	27	27.8	5.8	112	39.3	135	17.4	3.5	-11.1	32.7	20	43
												74	44	25	71	46	47	38	35	41	25	11	36	42	39
JM 254483	99638397	1	JM 223558 JM 213186	96	106	90	95	102	94	103	96	93	111	105	106	90	92	108	104	106	101	102	108	104	102
JM254483				72	72	46	39	26	45	40	44	-0.59	-0.66	23	19.7	-5.5	24	30.0	84	11.0	-4.5	-8.2	29.8	7	20
												75	44	39	72	46	52	42	37	42	35	18	38	43	41

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Green: >120 High
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Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
ID Number Name																									
JM 121460 76094515 JM121460		JM 070051 JM 070054	110 86	82 84	137 87	86 59	101 55	112 69	104 58	111 67	127 -4.00 86	106 -0.43 85	114 35 59	82 8.2 84	137 13.5 87	114 79 77	85 13.5 63	109 100 54	121 20.5 61	112 -12.1 65	98 -7.2 45	89 22.1 68	123 20 61	111 30 59	
JM 131524 78142759 JM131524		JM 101076 JM 101034	104 86	81 84	106 88	97 59	101 51	88 67	83 55	85 65	107 -2.00 86	65 1.49 85	103 20 59	81 7.6 84	106 0.9 88	91 20 77	86 14.2 58	89 31 51	90 0.7 59	66 20.6 61	108 -9.9 41	85 20.8 64	88 -4 60	81 -5 57	
JM 141719 80269335 JM141719	1	JM 111248 JM 111234	82 85	102 83	108 86	90 54	87 51	91 66	98 52	91 63	83 0.47 85	102 -0.26 83	110 30 54	102 17.7 83	108 1.9 86	104 53 74	100 24.8 59	104 81 49	90 0.8 55	80 10.4 63	89 -4.4 39	88 21.8 63	107 9 56	95 11 54	
JM 141736 80269434 JM141736	2	JM 111248 JM 111239	105 85	88 83	109 86	101 55	100 50	99 66	86 56	95 64	100 -1.30 85	129 -1.50 83	99 14 55	88 11.3 83	109 2.3 86	101 46 75	87 15.3 60	91 37 52	78 -6.4 60	95 0.0 61	101 -8.0 38	83 19.8 63	95 1 61	84 -1 58	
JM 141780 80269749 JM141780	1	JM 111199 JM 101141	97 86	105 84	87 87	97 64	109 52	94 69	116 62	99 68	96 -0.87 86	97 0.02 84	103 19 64	105 19.1 84	87 -6.5 87	90 19 78	103 27.0 59	99 66 58	113 15.4 65	114 -13.6 64	107 -9.9 41	100 26.5 65	99 4 62	104 22 60	
JM 151938 83376574 JM151938		JM 121379 JM 100108	116 84	91 82	96 86	102 60	106 48	101 66	85 46	96 62	109 -2.22 84	129 -1.49 82	98 12 60	91 12.6 82	96 -2.9 86	91 22 76	81 10.8 58	87 25 43	91 1.4 49	102 -5.3 58	107 -9.6 39	124 35.7 61	103 6 48	91 6 46	
JM 162095 84485655 JM162095		E530 JM 131522	94 84	108 82	112 85	83 64	114 52	110 68	103 58	109 66	95 -0.72 84	90 0.30 81	117 39 64	108 21.0 82	112 3.2 85	108 64 77	114 35.0 67	101 70 54	91 1.4 61	105 -7.5 62	115 -12.0 41	107 29.3 60	110 11 61	111 30 59	
JM 162096 85295814 JM162096		E530 JM 121439	75 84	120 82	118 85	78 63	109 52	110 68	108 61	111 67	79 0.82 84	83 0.65 81	122 46 63	120 26.4 82	118 5.7 85	118 89 77	125 42.5 68	113 114 58	98 6.0 65	102 -4.7 63	110 -10.5 42	106 28.8 60	127 23 65	118 38 62	
JM 162107 84485721 JM162107	1	BL 120069 JM 131525	107 84	91 82	137 84	94 55	89 49	119 65	89 68	113 66	104 -1.68 84	102 -0.22 80	106 24 55	91 12.4 82	137 13.5 84	124 106 74	95 21.0 66	99 64 64	118 18.5 71	87 5.5 59	90 -4.7 39	93 23.9 62	119 18 72	105 23 69	
JM 162133 84485895 JM162133		JM 131588 JM 070156	103 84	91 83	103 84	108 60	108 52	99 67	95 60	98 66	98 -1.08 84	116 -0.87 81	92 3 60	91 12.6 83	103 -0.2 84	101 45 76	83 12.2 66	89 32 57	96 4.7 63	86 6.0 63	112 -11.3 41	86 20.9 64	90 -3 64	86 1 62	
JM 162145 84485978 JM162145		JM 121367 JM 100124	120 83	73 81	89 84	115 63	119 50	87 66	85 56	84 64	114 -2.73 83	104 -0.35 81	85 -6 63	73 3.8 81	89 -5.9 84	76 -16 76	73 4.8 64	81 4 52	84 -2.5 58	114 -13.5 60	119 -13.3 39	112 31.0 60	85 -6 59	80 -6 57	
JM 162154 84486059 JM162154	4	JM 131588 JM 111220	112 84	80 81	103 82	104 57	105 49	93 65	86 56	90 63	108 -2.11 84	102 -0.25 80	96 10 57	80 7.2 81	103 -0.1 82	91 21 73	77 7.7 65	87 24 53	85 -2.4 59	110 -10.5 61	104 -8.7 37	87 21.5 63	92 -1 59	88 3 57	

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ID Number Name																									
JM 162157 84486083 JM162157	1	JM 121474 JM 080015	94 85	84 83	97 85	112 63	102 53	83 68	73 60	78 66	97 -0.92 85	76 0.95 82	88 -1 63	84 9.3 83	97 -2.6 85	92 23 77	83 12.0 68	77 -10 58	84 -2.8 64	117 -15.3 64	99 -7.4 42	100 26.5 64	91 -2 65	83 -2 63	
JM 162163 84486141 JM162163		JM 131588 JM 050014	97 84	88 83	94 85	110 60	110 51	87 67	81 52	84 64	97 -0.99 84	89 0.37 81	90 2 60	88 11.2 83	94 -3.6 85	91 21 76	83 12.5 61	78 -5 49	89 0.5 54	101 -4.2 60	111 -11.1 42	86 21.2 64	84 -7 55	84 -1 53	
JM 162181 85296093 JM162181	1	BL 110043 JM 111194	102 85	83 83	106 85	115 62	102 52	94 68	93 60	93 66	102 -1.45 85	90 0.32 82	85 -6 62	83 8.6 83	106 1.1 85	101 47 77	88 15.7 68	90 33 56	90 0.7 62	121 -18.5 63	98 -7.0 42	105 28.4 65	93 -1 63	92 9 61	
JM 162193 84486422 JM162193	1	JM 131530 JM 060055	110 84	85 82	109 83	110 51	100 47	101 63	79 66	95 64	129 -4.25 84	124 -1.26 80	90 2 51	85 9.6 82	109 2.2 83	102 50 72	75 6.1 64	88 29 62	110 13.6 69	93 1.0 57	101 -8.1 37	81 19.2 64	109 11 70	94 10 67	
JM 162217 84486638 JM162217	5	JM 121474 JM 111230	118 84	80 82	121 84	94 60	98 49	106 66	87 62	101 65	114 -2.70 84	98 -0.05 81	106 24 60	80 7.1 82	121 7.2 84	102 50 75	85 13.3 64	99 66 58	110 13.8 66	116 -15.2 62	95 -6.1 36	86 21.2 64	107 9 67	94 11 64	
JM 170152 88921358 JM170152			71 70	111 66	131 79	89 26	114 22		98 37		74 1.41 69	102 -0.26 75	111 31 26	111 22.1 66	131 11.3 79	129 118 57	108 30.3 54	98 63 33	96 5.0 41	95 0.2 33	122 -14.2 12	116 32.8 48	99 3 42	101 19 39	
JM 170153 88921366 JM170153			89 68	100 65	115 78				98 50		88 -0.04 68	110 -0.59 73		100 16.7 65	115 4.7 78	115 82 48	100 24.2 26	101 73 45	95 4.3 54			104 28.1 47	105 8 56	111 30 53	
JM 170156 88921333 JM170156			106 64	91 60	107 75	116 39	117 24		88 29		100 -1.25 63	121 -1.13 70	84 -7 39	91 12.4 60	107 1.6 75	109 66 58	89 16.5 50	88 26 27	86 -1.6 32	107 -8.8 32	119 -13.2 17	120 34.2 40	97 2 33	88 3 31	
JM 170157 88921341 JM170157			98 68	88 65	94 78						96 -0.81 68	109 -0.56 73		88 11.0 65	94 -4.0 78	91 20 48	85 13.3 15					100 26.7 47			
JM 170158 88921432 JM170158			117 70	80 66	84 79	114 32	117 18		72 32		110 -2.24 69	124 -1.24 74	86 -5 32	80 7.2 66	84 -7.9 79	76 -16 59	77 7.9 42	67 -43 28	76 -8.1 35	111 -11.3 23	118 -13.0 14	112 31.3 48	74 -14 36	71 -16 34	
JM 170159 88921440 JM170159			115 61	83 57	91 71				63 42		109 -2.15 60	128 -1.46 66		83 8.8 57	91 -5.0 71	85 6 43	80 9.8 26	69 -36 38	68 -13.0 47			104 28.0 42	55 -28 48	66 -22 45	
JM 170161 88921457 JM170161			97 62	93 58	107 72	109 11	112 12		82 42		94 -0.62 61	115 -0.83 66	91 2 11	93 13.6 58	107 1.3 72	106 60 47	89 16.8 38	80 1 38	85 -1.9 47	94 0.5 23		104 27.9 41	79 -11 48	81 -5 45	

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ID Number Name																								
JM 172259	E530		106	103	88	97	106	98	97	97	100	122	103	103	88	90	105	96	72	133	100	98	108	104
85682870	JM 141708		82	81	82	55	48	64	60	63	-1.27	-1.14	19	18.6	-6.4	17	28.0	54	-10.1	-27.1	-7.5	25.8	10	22
JM172259											83	78	55	81	82	73	66	57	64	58	38	59	64	62
JM 172263	E530		96	113	108	90	104	113	104	112	93	131	110	113	108	110	112	106	87	103	103	101	117	109
85682912	JM 141736		83	82	83	63	52	67	49	63	-0.56	-1.56	30	23.2	1.7	70	33.2	90	-1.1	-5.5	-8.6	26.8	16	27
JM172263											83	80	63	82	83	76	71	47	52	62	41	59	51	50
JM 172267	E530		82	114	95	75	114	94	114	98	84	96	125	114	95	94	121	103	89	120	112	113	109	109
85782563	JM 141747		83	81	83	64	52	67	48	63	0.40	0.02	51	23.9	-3.5	28	39.5	77	0.2	-17.7	-11.1	31.5	10	28
JM172267											83	80	64	81	83	76	70	46	51	62	41	59	50	48
JM 172270	E530		68	128	85	84	112	92	122	99	75	79	116	128	85	97	128	111	105	108	112	100	118	119
85782530	JM 141780		82	81	82	59	50	65	49	62	1.31	0.83	38	30.4	-7.6	37	45.1	105	10.4	-9.1	-11.3	26.4	17	39
JM172270											83	78	59	81	82	74	65	47	52	59	40	60	50	49
JM 172277	E530		66	132	88	73	100	92	118	98	69	104	127	132	88	98	129	121	98	90	102	107	131	119
85782522	JM 141719		83	81	83	61	50	66	56	64	1.86	-0.35	53	32.5	-6.4	40	45.3	140	6.3	3.1	-8.3	29.2	26	40
JM172277											83	79	61	81	83	75	72	54	60	61	40	59	60	58
JM 172287	JM 141710	1	88	106	146	85	99	127	107	125	89	98	115	106	146	137	103	102	100	110	97	100	107	119
85784874	JM 141841		83	81	82	56	50	65	58	64	-0.12	-0.06	36	19.7	17.2	137	26.7	77	7.3	-10.3	-6.8	26.3	9	39
JM172287											83	79	56	81	82	73	69	54	61	61	39	61	61	59
JM 172304	JM 141710	3	94	112	136	84	88	127	116	127	92	111	116	112	136	131	105	115	101	95	87	89	110	114
85870830	JM 141693		82	80	80	52	48	63	50	60	-0.42	-0.66	39	22.7	13.3	124	28.3	119	8.1	-0.1	-3.8	22.1	11	33
JM172304											83	78	52	80	80	71	67	48	53	59	36	60	54	52
JM 172309	JM 121367		108	95	89	76	116	88	95	88	104	108	124	95	89	77	89	103	90	106	117	107	93	93
85870871	JM 100118		82	80	82	56	47	63	44	59	-1.67	-0.52	50	14.3	-6.0	-15	16.8	77	0.8	-7.5	-12.9	29.3	0	9
JM172309											82	78	56	80	82	73	65	42	45	56	38	58	45	44
JM 172310	JM 141710	2	115	104	107	100	100	118	113	118	110	107	100	104	107	109	102	104	111	115	97	109	97	104
85870889	JM 141742		84	82	83	63	49	66	60	65	-2.26	-0.47	16	18.7	1.6	67	25.8	82	14.3	-14.4	-6.7	30.0	2	22
JM172310											84	79	63	82	83	76	70	57	63	61	37	61	64	62
JM 172314	JM 131650	2	106	64	86	116	93	62	73	60	127	87	84	64	86	67	65	67	107	105	90	85	68	66
85870921	JM 121402		83	81	81	60	50	65	50	62	-4.05	0.47	-7	-0.7	-6.9	-40	-0.6	-43	11.9	-6.9	-4.7	20.6	-19	-22
JM172314											83	79	60	81	81	74	70	48	52	60	40	63	52	50
JM 172317	JM 121367		98	90	79	84	124	75	96	77	96	99	116	90	79	69	87	92	77	106	127	103	83	82
85870954	JM 100119		82	80	82	56	46	63	46	60	-0.91	-0.08	38	12.2	-9.7	-35	15.3	41	-7.3	-7.5	-15.7	27.8	-8	-4
JM172317											82	78	56	80	82	73	66	44	49	56	36	58	48	47
JM 172319	JM 121367		95	97	76	85	87	70	95	72	98	74	115	97	76	71	98	104	86	89	87	98	90	98
85870970	JM 120126		83	81	83	56	48	64	55	62	-1.05	1.07	36	15.6	-11.2	-31	23.1	83	-1.6	4.2	-3.8	25.8	-3	15
JM172319											83	79	56	81	83	73	68	52	58	58	39	60	58	56

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ID Number Name																								
JM 172322 85871929 JM172322		642A JM 070033	90 84	120 82	110 84	74 68	97 54	111 69	123 54	115 66	95 -0.76 84	53 2.02 81	126 53 68	120 26.6 82	110 2.5 84	109 67 78	124 41.7 73	119 134 51	116 17.5 55	95 -0.2 66	97 -6.8 43	118 33.6 63	119 17 54	115 34 53
JM 172324 85871002 JM172324		JM 121367 JM 100108	118 82	84 80	91 82	95 55	128 46	95 63	89 59	92 62	113 -2.56 82	108 -0.52 78	105 23 55	84 9.3 80	91 -4.9 82	79 -9 72	77 7.7 66	94 48 56	86 -1.5 62	110 -10.5 55	130 -16.7 38	114 31.8 58	94 0 61	86 2 59
JM 172332 85871077 JM172332		AC 120010 JM 100141	95 82	88 79	118 81	117 55	124 44	108 62	100 42	106 58	92 -0.49 82	111 -0.66 77	83 -9 55	88 11.0 79	118 5.9 81	118 90 72	90 17.5 66	91 37 39	100 7.0 46	114 -13.7 53	125 -15.0 34	106 29.0 57	102 6 47	95 12 44
JM 172338 85871127 JM172338		JM 121367 JM 100128	118 82	77 80	77 82	113 52	110 46	79 62	81 58	76 61	113 -2.62 82	104 -0.32 78	87 -3 52	77 5.7 80	77 -10.9 82	67 -41 71	72 4.3 66	75 -16 55	69 -12.4 61	104 -6.5 56	110 -10.7 36	98 25.8 58	67 -19 60	69 -19 57
JM 172342 85935443 JM172342	1	JM 121398 JM 070144	82 83	99 81	105 82	103 54	111 50	93 64	76 62	88 64	81 0.70 83	113 -0.75 79	97 11 54	99 16.3 81	105 0.6 82	105 57 72	88 15.6 70	82 8 59	77 -7.4 66	95 -0.1 61	114 -11.8 40	92 23.2 62	87 -5 67	76 -10 64
JM 172350 85935526 JM172350	4	JM 131650 JM 060106	112 83	68 82	114 83	120 57	106 50	95 65	67 56	86 63	109 -2.15 83	97 0.02 79	80 -12 57	68 1.5 82	114 4.4 83	101 46 74	65 -0.8 68	73 -25 53	106 11.2 58	105 -7.1 62	106 -9.5 39	79 18.5 62	79 -11 59	74 -13 57
JM 172351 85935534 JM172351	2	JM 121474 JM 121376	97 80	108 82	123 81	81 60	96 50	116 66	111 56	116 64	95 -0.77 80	104 -0.34 79	119 43 60	108 20.8 82	123 8.0 81	116 85 74	109 30.9 70	109 99 53	97 5.1 59	90 3.7 60	97 -6.9 40	91 23.0 64	109 10 59	108 27 58
JM 172352 85935542 JM172352		JM 121367 JM 100122	94 75	90 80	94 82	84 60	126 49	84 65	99 50	85 62	95 -0.72 75	91 0.30 78	116 38 60	90 12.3 80	94 -3.6 82	82 -2 74	89 16.7 66	98 62 48	89 0.2 53	110 -10.9 59	128 -16.0 39	110 30.5 58	91 -2 53	88 4 51
JM 172366 85935682 JM172366	2	JM 131588 JM 131524	116 83	77 81	91 82	116 54	104 49	87 64	83 54	84 62	119 -3.23 83	89 0.35 79	84 -7 54	77 5.7 81	91 -5.0 82	82 -2 72	74 6.0 67	84 13 51	87 -0.8 57	84 7.5 59	107 -9.8 39	90 22.5 61	89 -4 57	84 -1 55
JM 172401 86061850 JM172401	1	JM 121398 JM 121442	79 84	99 83	124 83	98 61	101 50	102 66	93 60	100 65	78 0.94 85	113 -0.74 79	102 18 61	99 16.3 83	124 8.4 83	121 96 76	93 19.4 71	98 62 58	109 13.2 64	104 -6.4 63	100 -7.7 38	114 31.9 62	91 -2 65	90 6 63
JM 172409 86061702 JM172409	2	JM 131588 JM 131679	103 82	89 81	113 81	106 58	107 51	104 65	95 48	102 62	103 -1.57 83	87 0.47 78	94 7 58	89 11.6 81	113 3.8 81	107 62 73	85 13.8 69	96 56 45	104 10.0 50	99 -3.1 62	108 -10.1 40	98 25.6 61	108 10 50	103 21 48
JM 172415 86061918 JM172415	1	JM 131588 JM 060063	118 84	86 82	102 83	112 54	104 51	103 65	82 60	98 64	112 -2.48 84	108 -0.53 80	88 -2 54	86 10.0 82	102 -0.6 83	98 38 73	77 8.2 69	80 0 57	94 3.8 63	90 3.4 61	107 -9.7 41	93 23.8 63	91 -2 62	93 9 60

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ID Number Name																									
JM 172421		JM 131588		97	102	86	104	99	90	107	93	94	107	96	102	86	90	90	97	108	97	100	79	111	106
86061967		JM 070059		83	81	82	52	47	63	54	61	-0.70	-0.45	10	17.7	-6.9	19	17.5	60	12.1	-1.3	-7.6	18.3	12	24
JM172421												83	79	52	81	82	72	67	52	58	56	38	62	58	56
JM 172423		JM 121398		96	87	133	110	105	112	95	109	96	94	90	87	133	127	85	92	105	101	105	93	120	108
86061983		JM 070112		84	82	83	59	52	67	54	64	-0.84	0.15	1	10.5	11.8	114	13.8	41	10.1	-4.0	-9.2	23.8	18	27
JM172423												84	80	59	82	83	75	70	52	58	64	39	62	59	57
JM 172441	1	JM 131588		87	95	122	109	101	105	88	101	89	88	91	95	122	122	92	95	105	87	103	94	104	107
86062163		JM 131545		82	81	82	56	50	65	53	63	-0.18	0.43	3	14.5	7.3	99	18.6	51	10.2	5.8	-8.6	24.2	7	25
JM172441												83	78	56	81	82	73	66	50	56	60	40	60	56	54
JM 172463	2	JM 121474		85	101	116	97	78	97	93	95	88	82	103	101	116	113	102	94	101	101	75	87	103	103
86300092		JM 131666		80	78	75	58	48	63	52	61	-0.06	0.68	19	17.5	4.9	78	25.9	49	7.9	-4.3	-0.1	21.3	6	21
JM172463												81	74	58	78	75	70	63	50	56	60	37	59	57	55
JM 180163				95	87	87	105	106				94	103	95	87	87	81	84			111	105	109		
90697947				66	62	76	11	16				-0.63	-0.26	8	10.5	-6.4	-3	13.0			-11.4	-9.1	29.9		
JM 180163												65	71	11	62	76	50	39			23	8	40		
JM 180164				102	104	140	91	110		90		100	141	109	104	140	134	96	98	106	85		114	96	97
90697954				66	62	76	11	12		50		-1.24	-2.05	29	19.0	14.8	130	21.7	62	11.3	7.2		32.1	1	14
JM 180164												65	70	11	62	76	50	40	45	54	23		39	56	52
JM 180165				91	95	106				76		90	105		95	106	104	90	81	84		116		73	76
90697962				65	62	75				42		-0.26	-0.39		14.4	0.9	54	17.4	5				32.6	-15	-10
JM 180165												65	69		62	75	46	40	38	46		39		48	45
JM 180167				81	101	112	96	115				82	102	104	101	112	109	98			99	119	108		
90697988				58	48	64	36	22				0.59	-0.22	21	17.3	3.3	68	22.9			-2.5	-13.2	29.6		
JM 180167												57	64	36	48	64	49	40			32	13	33		
JM 182479	E530			73	121	111	91	100	108	100	106	75	103	109	121	111	119	121	104	99	90	102	118	103	108
87988705	JM 151912			82	81	81	64	51	67	56	65	1.29	-0.28	28	27.3	2.9	94	40.0	83	6.9	3.6	-8.1	33.6	7	26
JM182479												83	77	64	81	81	75	64	53	59	62	40	57	59	57
JM 182482	SGHPZ027			123	95	66	110	110	90	72	84	115	118	90	95	66	69	83	72	79	123	107	95	72	72
87988853	JM 152007			82	81	81	65	48	66	51	63	-2.83	-0.96	1	14.4	-15.0	-36	12.4	-27	-6.0	-19.9	-9.8	24.7	-16	-15
JM182482												83	77	65	81	81	76	58	48	54	58	39	60	54	52
JM 182487	E530			84	104	90	111	98	89	108	92	87	87	89	104	90	99	110	101	89	107	96	106	110	104
87988879	JM 152009			80	79	78	58	50	64	52	62	0.08	0.45	-1	18.8	-5.5	41	31.4	73	0.6	-8.8	-6.4	28.7	12	22
JM182487												81	74	58	79	78	72	60	50	56	59	40	58	55	53
JM 182496	642A			105	107	77	107	120	98	96	97	102	100	93	107	77	86	99	89	98	118	119	110	90	91
87988903	JM 121372			82	81	82	64	48	66	50	63	-1.50	-0.13	6	20.3	-10.8	9	23.8	31	6.2	-16.3	-13.3	30.6	-3	7
JM182496												83	78	64	81	82	76	60	47	53	58	38	58	52	50

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Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
ID Number Name																									
JM 182507 87974820 JM182507	1	JM 141710 JM 151938	124 82	95 80	111 81	108 60	100 49	120 65	103 52	118 62	117 -3.03 82	121 -1.12 77	92 4 60	95 14.4 80	111 3.2 81	111 72 74	90 17.4 66	102 74 50	103 9.0 55	107 -8.4 59	98 -7.0 39	115 32.3 58	119 18 56	106 24 53	
JM 182508 88077243 JM182508		642A JM 140148	78 81	113 80	73 80	122 58	111 46	87 63	100 54	89 61	84 0.40 82	76 0.96 76	78 -16 58	113 23.2 80	73 -12.3 80	95 30 73	100 24.6 62	96 54 52	120 20.0 58	91 2.6 57	115 -12.1 35	113 31.5 57	101 5 58	92 8 56	
JM 182519 87974655 JM182519		JM 121367 JM 100118	123 81	80 79	89 80	99 59	115 48	90 64	89 44	88 60	116 -2.92 81	108 -0.50 77	101 17 59	80 7.4 79	89 -5.9 80	76 -18 73	80 9.9 61	94 47 42	83 -3.2 45	113 -13.0 58	115 -12.0 38	113 31.5 58	86 -6 45	85 0 44	
JM 182520 87988911 JM182520		642A JM 101069	86 81	116 80	82 80	83 56	103 49	88 64	112 51	92 61	87 0.04 82	95 0.11 76	117 39 56	116 24.5 80	82 -8.8 80	87 10 72	113 33.7 62	110 104 49	105 10.6 53	88 4.7 60	105 -9.3 38	93 23.7 58	104 7 52	100 17 51	
JM 182525 87974671 JM182525		JM 121367 JM 100132	118 80	75 79	64 80	114 51	110 45	68 61	64 58	63 60	113 -2.57 81	103 -0.27 76	86 -4 51	75 4.8 79	64 -15.8 80	53 -75 70	70 2.5 59	74 -19 56	75 -8.1 62	106 -8.1 53	110 -10.7 37	96 24.8 58	65 -20 63	69 -19 60	
JM 182527 87974697 JM182527	1	JM 131650 JM 070019	114 82	60 81	79 80	118 57	101 50	62 65	71 50	59 62	122 -3.50 83	97 -0.01 77	82 -10 57	60 -2.5 81	79 -9.9 80	58 -63 73	60 -4.6 60	63 -58 47	96 5.0 51	112 -12.0 60	99 -7.3 41	64 12.5 62	62 -22 51	60 -29 49	
JM 182534 87974754 JM182534	2	JM 131650 JM 121442	114 82	71 80	104 81	118 61	104 50	91 65	78 54	86 63	110 -2.33 82	101 -0.18 77	82 -10 61	71 2.8 80	104 0.4 81	92 23 74	68 1.5 65	77 -9 52	116 17.1 57	119 -16.7 60	100 -7.8 39	86 21.2 60	68 -18 57	77 -10 55	
JM 182540 87974838 JM182540		JM 151952 JM 111259	107 81	93 79	96 77	90 46	99 48	92 61	101 52	93 59	103 -1.61 82	105 -0.37 76	110 29 46	93 13.7 79	96 -3.0 77	88 12 67	94 20.4 60	108 95 50	93 3.0 56	101 -4.4 57	98 -7.0 39	81 19.3 58	105 8 56	93 9 54	
JM 182565 87975074 JM182565	1	JM 131530 JM 111215	119 82	83 81	102 80	88 54	99 50	94 64	76 56	88 62	120 -3.27 83	109 -0.54 77	112 32 54	83 8.7 81	102 -0.6 80	85 6 72	80 9.8 63	83 10 54	91 1.6 59	101 -4.6 61	98 -7.1 40	85 20.6 61	90 -3 59	83 -2 58	
JM 182566 87975082 JM182566		BL 120069 JM 121376	121 82	89 79	113 78	85 50	92 50	107 62	85 52	101 60	114 -2.66 82	118 -0.99 77	115 37 50	89 11.6 79	113 3.8 78	97 36 69	90 16.9 61	87 26 49	101 7.7 55	99 -2.9 59	91 -5.0 41	82 19.6 61	88 -4 55	84 -1 53	
JM 182575 87975173 JM182575		JM 121367 JM 100125	89 80	86 79	71 79	86 51	115 45	58 61	83 44	59 58	93 -0.56 81	75 1.02 75	114 35 51	86 9.9 79	71 -13.0 79	60 -59 70	88 15.6 52	85 17 43	77 -7.2 46	107 -8.2 53	116 -12.3 37	102 27.3 58	78 -11 46	76 -10 44	
JM 182591 87975322 JM182591	1	BL 120069 JM 090006	113 82	77 81	116 81	121 56	85 53	101 66	60 58	90 64	109 -2.17 83	101 -0.17 78	79 -14 56	77 5.8 81	116 5.1 81	110 70 73	79 9.4 65	70 -33 55	92 2.5 61	101 -4.5 64	82 -2.2 42	87 21.5 61	83 -8 62	73 -13 59	

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ID Number Name																								
JM 182593 87975348 JM182593		JM 151952 JM 141706	109 81	91 79	89 78	103 50	93 48	89 62	93 55	88 61	103 -1.60 82	130 -1.54 76	97 11 50	91 12.7 79	89 -5.8 78	85 6 69	92 18.8 60	96 56 52	84 -2.7 59	104 -6.6 58	90 -4.8 37	99 25.9 56	85 -6 59	90 5 57
JM 182595 87975363 JM182595		JM 121367 JM 100141	116 80	70 78	57 77	119 52	113 46	59 61	74 46	58 58	114 -2.67 81	89 0.35 76	81 -12 52	70 2.3 78	57 -18.9 77	43 -101 69	68 1.1 54	69 -38 44	68 -12.9 48	112 -12.3 54	113 -11.5 37	101 27.0 57	67 -19 48	66 -22 47
JM 182601 87975421 JM182601	1	JM 131588 JM 131545	114 82	82 80	103 80	114 56	97 50	97 64	82 58	93 63	110 -2.29 82	102 -0.22 77	86 -5 56	82 8.3 80	103 -0.4 80	97 36 72	77 7.9 64	82 8 54	89 0.6 60	88 4.8 60	99 -7.2 41	97 25.5 60	100 4 61	97 14 59
JM 182609 87975504 JM182609	2	JM 151976 JM 131623	110 81	72 80	87 79	112 45	106 44	75 60	59 55	68 59	108 -2.05 82	95 0.08 74	88 -2 45	72 3.3 80	87 -6.6 79	73 -25 68	69 1.9 56	69 -37 51	85 -2.1 59	127 -22.4 54	101 -7.9 34	90 22.7 57	59 -25 59	66 -21 56
JM 182611 87975520 JM182611	1	JM 131530 JM 121488	110 82	81 80	97 79	81 62	91 51	79 66	66 56	73 64	109 -2.15 83	87 0.44 78	119 42 62	81 7.8 80	97 -2.8 79	77 -15 74	79 9.6 64	82 8 53	84 -2.6 58	105 -7.0 62	88 -4.2 40	91 23.1 61	93 -1 58	78 -7 56
JM 182619 87975603 JM182619	2	JM 141710 JM 151889	117 82	87 79	112 79	114 55	106 50	111 64	96 44	108 60	122 -3.51 82	132 -1.63 77	86 -4 55	87 10.5 79	112 3.3 79	109 67 71	83 12.1 62	91 38 43	88 0.0 47	112 -11.7 60	105 -9.0 39	103 27.6 58	95 1 47	96 12 45
JM 182621 87975629 JM182621		JM 151952 JM 141699	105 81	100 80	114 80	94 53	100 48	111 63	110 56	112 62	99 -1.18 82	121 -1.10 76	106 24 53	100 16.7 80	114 4.4 80	109 68 71	105 27.8 62	119 133 52	99 6.8 60	91 2.8 59	102 -8.2 38	93 23.8 56	116 15 60	109 28 58
JM 182629 88717996 JM182629		JM 121367 JM 131547	105 81	81 73	73 79	105 53	85 48	65 61	90 57	67 60	106 -1.92 82	76 0.97 75	95 8 53	81 7.7 73	73 -12.1 79	64 -48 68	81 10.7 53	87 25 54	79 -5.7 60	84 7.6 57	86 -3.4 38	93 23.6 59	86 -6 61	83 -3 58
JM 182632 87975728 JM182632	4	JM 131588 JM 090112	112 82	60 80	71 81	143 55	104 50	62 64	66 46	58 60	126 -3.91 82	114 -0.78 77	57 -46 55	60 -2.7 80	71 -13.1 81	57 -65 72	57 -6.7 60	57 -79 44	73 -9.9 49	111 -11.2 60	103 -8.5 39	92 23.2 61	72 -16 48	66 -22 47
JM 182652 87976031 JM182652		JM 151952 JM 141808	103 81	100 78	81 77	99 44	96 46	87 59	109 44	91 56	100 -1.24 82	109 -0.56 75	101 17 44	100 17.1 78	81 -9.0 77	82 -1 66	99 23.8 52	110 103 42	91 1.4 47	100 -3.3 56	95 -6.3 37	90 22.7 57	106 8 47	99 16 45
JM 182663 87976148 JM182663	1	BL 120069 JM 141850	71 82	104 79	123 78	77 59	93 50	95 64	78 47	89 61	78 1.01 82	76 0.99 77	123 48 59	104 19.0 79	123 8.0 78	112 75 72	103 26.5 58	83 12 45	105 10.7 49	103 -5.5 61	91 -4.9 40	86 20.9 60	85 -6 49	90 6 47
JM 182669 87975892 JM182669		JM 121367 JM 100101	101 80	83 79	76 80	103 51	113 45	71 61	89 57	72 60	100 -1.30 81	95 0.09 76	97 11 51	83 8.4 79	76 -11.0 80	67 -40 70	79 9.0 59	88 28 54	89 0.3 60	109 -9.8 53	113 -11.6 37	99 26.1 58	92 -1 61	82 -4 59

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ID Number Name																								
JM 182683 87976239 JM182683	2	JM 131530 JM 111230	96 81	59 80	99 80	112 52	90 48	60 63	71 52	57 61	139 -5.28 82	111 -0.65 76	88 -2 52	59 -3.1 80	99 -1.7 80	75 -20 71	59 -5.4 59	75 -18 50	89 0.6 54	114 -13.1 58	86 -3.4 38	76 17.0 61	83 -8 54	71 -16 52
JM 192699 89443410 JM192699		JGM14022PZ JM 162153	103 80	88 79	79 77	126 62	47 48	72 64	90 48	73 61	104 -1.66 81	80 0.79 73	74 -22 62	88 11.1 79	79 -9.9 77	83 1 73	93 19.5 58	87 24 46	81 -4.7 49	76 13.5 58	34 11.9 38	76 17.1 52	92 -2 50	86 1 49
JM 192704 89443444 JM192704		JGM14022PZ JM 162159	119 82	92 80	96 79	113 70	86 52	102 68	109 46	104 64	114 -2.72 82	102 -0.25 77	87 -3 70	92 13.0 80	96 -3.0 79	97 36 76	100 24.5 64	103 80 44	89 0.2 48	93 1.6 62	85 -3.2 41	91 22.9 53	109 11 48	109 28 47
JM 192705 89443568 JM192705		JGM14022PZ JM 162148	103 81	92 80	99 79	121 67	77 48	95 65	100 46	95 61	103 -1.53 82	89 0.37 75	79 -15 67	92 12.9 80	99 -1.9 79	104 55 75	98 23.4 61	97 57 44	87 -0.8 48	91 2.7 58	75 -0.3 38	79 18.4 53	100 4 48	97 14 47
JM 192706 89482921 JM192706		VHPB633 BL 110149	81 74	107 78	77 76	86 56	74 44	69 61	87 43	70 57	83 0.47 74	97 -0.01 73	114 36 56	107 20.4 78	77 -10.7 76	78 -12 70	102 26.2 50	85 16 41	101 7.9 45	94 0.7 54	71 1.0 35	77 17.5 55	83 -8 46	85 0 44
JM 192707 89483010 JM192707		JGM14022PZ JM 162145	116 82	94 80	88 81	115 69	98 50	100 67	109 54	102 64	112 -2.49 82	98 -0.03 77	85 -6 69	94 14.0 80	88 -6.0 81	92 24 77	100 24.7 62	101 72 51	85 -2.4 56	92 2.1 60	99 -7.4 39	98 25.6 52	107 9 57	102 20 55
JM 192723 89483085 JM192723		JGM14022PZ JM 162157	102 81	95 80	83 80	109 68	90 49	85 66	93 54	85 64	103 -1.60 82	78 0.88 76	91 2 68	95 14.7 80	83 -8.3 80	85 5 76	98 23.1 60	91 40 52	79 -5.9 57	100 -3.3 59	88 -4.0 39	94 24.1 55	103 6 58	98 15 56
JM 192730 89432058 JM192730	1	JM 131650 JM 162163	107 81	72 80	94 80	103 67	108 48	76 66	74 48	72 62	129 -4.23 82	105 -0.39 76	97 11 67	72 3.2 80	94 -3.9 80	76 -18 76	70 2.9 58	72 -28 47	104 10.0 50	112 -12.0 58	107 -9.8 39	80 18.9 59	72 -16 50	76 -10 49
JM 192735 89483101 JM192735		JGM14022PZ JM 162096	88 81	120 80	91 80	87 68	95 49	99 66	118 50	104 63	90 -0.21 82	89 0.38 76	113 34 68	120 26.6 80	91 -5.0 80	99 42 76	127 44.2 64	117 127 47	90 0.9 52	92 2.2 59	96 -6.3 39	97 25.4 52	126 23 52	121 41 51
JM 192738 89432108 JM192738	1	BL 150081 JM 162095	107 81	94 80	118 79	94 66	114 46	112 65	95 50	109 62	102 -1.51 82	110 -0.61 75	106 24 66	94 14.1 80	118 5.7 79	109 67 75	104 27.6 58	93 46 47	98 6.0 54	119 -17.0 57	112 -11.3 35	100 26.4 56	94 0 55	105 23 52
JM 192747 89483150 JM192747		VHPB633 JM 152009	71 79	101 78	86 72	99 58	53 44	63 61	95 43	67 57	76 1.13 80	84 0.59 68	101 17 58	101 17.3 78	86 -6.9 72	87 12 69	101 25.3 50	96 55 40	103 9.2 45	88 4.9 55	43 9.2 32	92 23.3 52	95 1 46	91 7 44
JM 192758 89432199 JM192758		JM 162123 JM 111197	111 81	90 80	100 80	108 67	99 50	99 66	96 62	98 65	111 -2.39 82	75 1.00 76	92 4 67	90 12.1 80	100 -1.4 80	97 35 76	90 17.5 62	97 58 59	101 7.8 65	118 -16.1 60	95 -6.3 39	103 27.7 58	100 4 66	91 7 64

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ID Number Name																								
JM 192764 89432397 JM192764	2	JM 131650 JM 100118	119 80	86 78	120 77	80 60	114 47	111 63	83 56	104 62	121 -3.41 81	120 -1.08 76	120 44 60	86 10.2 78	120 6.6 77	99 42 72	86 14.1 57	95 50 52	111 14.2 58	112 -12.1 56	114 -11.7 38	101 26.7 57	82 -8 59	90 6 57
JM 192789 89432314 JM192789		JM 152011 JM 141747	105 82	108 81	96 81	96 71	117 50	109 68	104 50	109 64	101 -1.32 83	133 -1.67 78	104 21 71	108 20.6 81	96 -2.9 81	100 44 78	104 27.6 63	95 52 47	102 8.8 53	116 -15.1 62	116 -12.4 38	106 28.9 57	107 9 54	103 21 52
JM 192792 89432348 JM192792		JM 162110 JM 121377	121 81	96 80	71 80	109 67	110 48	93 66	98 44	93 62	120 -3.29 82	122 -1.15 76	91 3 67	96 15.1 80	71 -13.1 80	74 -23 76	92 18.6 56	91 38 42	92 2.3 46	113 -12.5 57	109 -10.4 38	98 25.8 58	90 -3 47	87 3 45
JM 192809 89432603 JM192809	1	JM 162110 JM 111279	108 81	106 80	100 80	92 67	110 48	111 66	108 59	111 65	105 -1.76 82	141 -2.05 76	108 27 67	106 20.1 80	100 -1.4 80	100 45 76	105 28.1 56	108 96 55	106 11.0 63	106 -8.0 58	110 -10.8 38	99 26.2 57	100 4 64	99 16 62
JM 192815 89432660 JM192815		JM 162110 JM 151889	101 82	111 81	95 81	97 71	122 52	111 68	98 45	109 63	99 -1.15 83	141 -2.05 78	103 20 71	111 22.4 81	95 -3.2 81	102 49 78	110 31.5 65	96 56 43	88 -0.4 48	102 -5.2 63	125 -15.2 40	131 38.4 56	96 2 48	101 18 47
JM 192826 89432777 JM192826		JM 162110 JM 090112	96 82	99 80	84 80	110 68	119 48	92 66	94 44	91 62	94 -0.63 82	110 -0.59 77	90 1 68	99 16.6 80	84 -7.7 80	90 18 76	100 24.8 54	89 33 42	90 0.7 47	117 -15.6 58	118 -13.1 39	105 28.4 58	93 -1 47	91 7 45
JM 192827 89432785 JM192827	2	BL 140061 JM 101079	111 82	81 80	100 78	115 59	102 50	94 65	92 56	92 63	112 -2.54 83	70 1.25 77	85 -5 59	81 7.6 80	100 -1.2 78	94 28 72	87 14.8 62	84 13 53	97 5.6 58	113 -12.7 61	100 -7.6 40	87 21.4 61	88 -5 58	86 1 56
JM 192828 89432793 JM192828		JM 131650 JM 100108	114 80	88 79	130 80	82 70	119 50	118 67	91 60	113 66	108 -2.08 81	117 -0.94 76	118 41 70	88 11.0 79	130 10.6 80	109 68 76	85 13.7 63	90 35 57	124 22.3 64	119 -17.1 60	118 -13.1 40	113 31.6 57	96 2 64	98 15 61
JM 192833 89432843 JM192833		JM 162165 JM 090034	81 80	78 79	110 77	100 53	67 46	68 61	92 46	70 58	87 0.08 81	71 1.19 73	100 16 53	78 6.3 79	110 2.5 77	94 28 70	83 12.0 54	78 -5 43	96 5.0 49	43 36.9 57	73 0.4 36	98 25.6 57	90 -3 50	87 2 48
JM 192842 89432934 JM192842	1	JM 162110 JM 131545	109 81	106 80	101 80	99 68	111 49	114 66	101 51	112 63	103 -1.62 82	131 -1.56 76	101 17 68	106 19.9 80	101 -1.1 80	105 55 76	104 27.4 60	104 81 48	104 9.9 54	102 -4.7 58	112 -11.3 40	112 31.0 56	109 10 55	110 29 53
JM 192868 89431639 JM192868		JM 162123 JM 162186	118 81	105 80	108 79	120 67	102 48	128 65	108 58	126 64	116 -2.89 82	86 0.51 75	80 -12 67	105 19.5 80	108 1.8 79	123 103 75	103 27.0 62	104 83 55	103 9.4 60	98 -2.4 60	102 -8.4 36	103 27.8 58	104 7 61	109 27 59
JM 192900 89431951 JM192900		JM 162110 JM 151896	88 81	107 80	102 79	100 67	111 48	102 65	103 50	103 62	87 0.02 82	106 -0.44 76	100 15 67	107 20.4 80	102 -0.7 79	107 61 75	105 27.9 62	100 68 47	89 0.2 53	105 -7.0 59	112 -11.2 37	103 27.8 55	98 3 54	98 15 52

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ID Number Name																								
JM 200168 94238250 JM 200168			111 57	89 53	105 68	118 22	114 16				105 -1.83 56	132 -1.65 62	82 -10 22	89 11.4 53	105 0.5 68	106 59 48	84 12.8 38			109 -9.7 23	114 -12.0 8	127 36.8 32		
JM 202922 90710682 JM202922		JM 162123 JM 170162	112 70	87 77	92 76	122 65	119 44	99 62	94 47	97 59	125 -3.82 70	104 -0.35 71	78 -16 65	87 10.7 77	92 -4.7 76	94 28 73	83 12.2 60	84 14 45	90 1.2 49	112 -12.3 54	119 -13.3 35	102 27.4 53	84 -7 50	85 0 48
JM 202926 90718966 JM202926		JGM14022PZ JM 172263	118 80	108 79	88 78	94 69	89 50	106 66	113 52	109 63	111 -2.36 81	120 -1.08 74	106 24 69	108 20.9 79	88 -6.2 78	92 23 75	112 32.9 69	114 117 49	83 -3.3 55	96 -0.7 60	88 -4.0 39	90 22.4 50	124 21 55	115 35 53
JM 202928 90723909 JM202928		JGM14022PZ JM 172310	97 80	120 79	86 77	89 68	88 48	101 65	125 50	107 62	98 -1.10 81	84 0.60 74	111 31 68	120 26.5 79	86 -7.2 77	95 32 75	123 41.0 66	120 135 47	102 8.2 52	95 0.0 58	87 -3.8 38	96 24.8 51	117 16 52	120 41 51
JM 202953 90710724 JM202953	1	JM 162123 JM 172351	110 81	111 80	121 77	104 67	105 48	133 65	129 58	136 64	111 -2.37 82	75 1.04 74	96 10 67	111 22.2 80	121 7.0 77	129 118 75	115 35.1 70	119 134 56	107 11.4 62	101 -4.3 58	105 -9.3 37	109 29.9 56	122 20 62	121 41 60
JM 202959 90710757 JM202959	1	BL 140061 JM 172342	118 78	94 76	96 66	120 52	109 46	110 59	96 52	107 58	112 -2.47 79	109 -0.55 68	80 -13 52	94 13.8 76	96 -2.8 66	102 50 65	94 20.0 67	92 42 51	99 6.9 55	104 -6.6 59	109 -10.4 34	96 24.8 56	97 2 54	93 9 53
JM 202963 90724394 JM202963		JGM14022PZ JM 172446	110 80	86 78	93 75	118 63	92 50	92 64	101 48	93 61	124 -3.75 81	92 0.24 74	82 -10 63	86 10.2 78	93 -4.2 75	92 24 72	92 18.9 68	99 66 46	88 -0.4 51	101 -4.2 60	90 -4.7 39	73 16.1 51	96 1 51	98 15 50
JM 202968 90710781 JM202968		JM 162110 JM 172322	101 80	127 79	92 77	82 68	110 48	117 65	121 46	120 61	98 -1.07 81	108 -0.52 73	118 41 68	127 30.2 79	92 -4.8 77	102 50 75	128 44.5 67	117 127 44	110 13.6 48	105 -7.3 58	110 -10.6 38	119 34.0 55	116 15 48	115 35 47
JM 202980 90710880 JM202980		BG 170036 JM 170151	121 79	94 77	105 76	86 64	117 42	111 61	81 40	104 57	115 -2.78 80	106 -0.43 72	114 35 64	94 14.2 77	105 0.7 76	95 30 72	95 20.8 62	89 31 38	94 3.7 41	94 0.9 52	120 -13.7 33	116 32.9 50	75 -13 42	76 -11 41
JM 202986 90796368 JM202986		BG 170036 JM 100118	112 78	85 77	110 74	88 66	127 44	102 62	85 49	97 59	127 -3.99 79	115 -0.86 70	112 32 66	85 9.5 77	110 2.6 74	93 26 72	87 14.8 64	96 56 46	91 1.9 52	114 -13.2 54	128 -16.1 33	124 35.9 50	80 -10 53	75 -12 51
JM 202995 90796467 JM202995		BG 170036 JM 170156	122 79	96 77	116 76	104 65	125 42	128 62	103 58	124 61	116 -2.91 80	108 -0.52 72	96 9 65	96 14.8 77	116 5.1 76	114 80 73	96 21.9 66	104 82 54	106 10.9 62	108 -9.5 52	127 -15.6 33	128 37.4 50	104 7 63	90 6 60
JM 203006 90796574 JM203006		BG 170036 JM 172332	122 80	97 79	122 77	95 59	133 45	132 62	100 50	127 60	114 -2.66 81	124 -1.26 73	105 23 59	97 15.6 79	122 7.3 77	115 82 72	97 22.1 68	103 78 47	108 12.6 53	112 -12.1 55	134 -17.9 35	120 34.4 52	92 -1 54	91 7 52

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ID Number Name																								
JM 203015 90796624 JM203015	1	BG 170036 JM 170158	111 79	82 78	92 77	105 64	128 42	91 62	76 42	86 58	127 -4.05 80	132 -1.62 73	95 8 64	82 8.3 78	92 -4.6 77	82 -1 73	80 10.0 62	79 -3 40	89 0.1 45	116 -14.6 52	129 -16.2 33	123 35.4 51	69 -18 45	68 -19 44
JM 203021 90796673 JM203021		JM 162110 JM 090112	116 79	90 78	85 75	116 68	113 48	96 65	89 44	93 61	110 -2.32 80	134 -1.74 72	84 -7 68	90 11.8 78	85 -7.5 75	85 7 74	89 16.5 66	82 7 42	84 -2.7 47	118 -16.4 59	111 -10.9 38	110 30.4 57	87 -5 47	84 -1 45
JM 203027 90796723 JM203027		JM 162110 JM 131545	103 80	100 79	86 78	106 68	110 48	95 65	96 46	94 61	99 -1.18 81	109 -0.57 74	94 7 68	100 16.9 79	86 -7.2 78	89 16 75	100 24.3 64	92 42 43	92 2.5 48	105 -7.0 58	111 -10.8 39	110 30.2 56	97 2 48	99 16 47
JM 203034 91201319 JM203034		JM 172293 JM 141780	115 80	95 79	84 77	103 67	102 46	95 64	112 46	98 60	124 -3.76 81	120 -1.05 73	97 11 67	95 14.7 79	84 -7.8 77	83 1 74	97 22.5 67	92 41 44	108 12.4 49	106 -7.8 58	100 -7.8 34	111 30.7 54	96 1 49	101 19 47
JM 203035 91201327 JM203035	2	BG 170036 JM 100140	118 79	91 78	104 77	95 65	125 44	109 63	82 48	103 60	113 -2.63 80	102 -0.25 73	105 23 65	91 12.7 78	104 0.2 77	95 31 73	90 17.6 64	77 -9 45	89 0.1 50	107 -8.5 54	127 -15.7 33	119 33.8 52	66 -20 51	73 -13 49
JM 203072 91195446 JM203072		BL 140061 JM 151966	93 81	76 79	107 78	126 68	114 50	88 66	100 48	89 62	142 -5.53 82	133 -1.67 74	74 -22 68	76 5.1 79	107 1.3 78	103 51 75	77 7.8 68	94 49 47	99 6.3 50	122 -19.0 61	111 -11.1 38	103 27.7 57	94 0 50	95 12 49
JM 203104 91196485 JM203104		JM 162110 JM 141742	111 80	113 79	93 78	87 68	116 48	114 65	117 49	116 62	107 -1.99 81	140 -2.00 74	113 34 68	113 23.5 79	93 -4.3 78	97 36 75	110 32.0 66	107 91 47	105 10.6 52	110 -10.8 59	117 -12.6 38	110 30.2 56	107 9 52	110 29 51
JM 203115 91196592 JM203115		JM 162123 JM 151938	103 80	91 78	91 75	115 61	102 48	91 63	104 48	93 60	133 -4.60 81	107 -0.48 74	85 -6 61	91 12.5 78	91 -4.9 75	92 24 71	85 13.3 65	97 57 47	97 5.5 50	110 -10.9 58	100 -7.8 37	118 33.3 56	106 9 50	98 15 49
JM 213174 92622919 JM213174	1	JM 172278 JM 172409	83 79	117 76	97 68	82 55	103 44	98 59	103 50	99 57	86 0.14 80	83 0.65 68	118 41 55	117 25.2 76	97 -2.4 68	101 46 66	108 30.3 66	104 81 48	125 22.9 54	91 2.6 56	105 -9.0 33	104 28.1 52	103 6 54	108 27 52
JM 213180 92622976 JM213180	2	JM 182639 JM 182611	104 78	102 78	99 73	86 66	100 44	100 62	96 55	98 61	103 -1.62 79	90 0.34 66	114 35 66	102 18.0 78	99 -1.8 73	94 29 72	108 30.3 67	100 69 52	114 15.8 57	112 -12.3 58	97 -6.8 31	105 28.4 52	107 9 57	102 20 56
JM 213186 92623032 JM213186	1	JM 152011 JM 182479	95 79	111 78	85 74	99 67	104 46	97 63	90 47	94 60	91 -0.40 80	126 -1.33 70	101 16 67	111 22.2 78	85 -7.4 74	93 27 73	105 28.5 65	90 35 45	101 8.1 50	99 -3.1 58	104 -9.0 35	105 28.3 53	100 4 50	101 18 48
JM 213188 92623040 JM213188	1	JM 152011 JM 182591	99 76	99 75	101 64	111 51	86 42	99 57	76 48	93 55	95 -0.79 78	115 -0.85 61	89 0 51	99 16.2 75	101 -0.8 64	106 59 63	93 19.7 65	81 5 45	104 9.7 50	70 17.4 58	90 -4.6 26	91 23.1 53	97 2 51	91 7 49

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JM 213192 92623081 JM213192	1	JM 162123 JM 172262		106 76	107 75	115 64	96 52	105 43	120 57	112 55	120 57	106 -1.87 78	83 0.66 61	104 22 52	107 20.1 75	115 4.5 64	116 84 64	107 29.4 67	104 81 52	93 2.6 58	93 1.2 58	107 -9.6 28	107 29.4 52	111 12 58	116 36 57
JM 213197 92623131 JM213197		JM 182481 JM 182665		108 79	96 77	95 73	115 66	92 44	100 62	109 44	102 58	105 -1.82 80	96 0.06 68	85 -6 66	96 15.1 77	95 -3.3 73	101 45 72	102 25.7 66	104 82 42	87 -1.0 47	102 -4.9 56	90 -4.7 32	96 24.9 51	104 7 44	99 17 42
JM 213199 92623156 JM213199		JM 172320 JM 172287		79 78	98 77	128 69	85 56	105 43	101 59	101 48	101 57	81 0.65 79	95 0.11 65	115 37 56	98 15.8 77	128 10.0 69	116 84 67	95 20.9 66	101 72 46	83 -3.2 50	82 9.4 57	110 -10.5 29	94 24.3 53	114 14 51	105 24 49
JM 213208 92623248 JM213208	2	JM 182569 JM 182534		106 79	88 78	86 73	114 66	94 44	85 62	89 48	84 59	105 -1.74 80	94 0.12 69	86 -4 66	88 11.1 78	86 -7.0 73	85 5 72	82 11.7 65	84 12 46	95 4.0 50	114 -13.5 57	90 -4.8 30	97 25.4 52	77 -12 49	85 0 48
JM 213216 92623321 JM213216	2	JM 152011 JM 141747		123 79	96 76	84 66	93 56	111 44	99 59	97 49	98 57	114 -2.75 80	122 -1.18 68	107 26 56	96 14.9 76	84 -8.0 66	79 -9 66	92 18.8 64	90 34 46	99 6.9 52	113 -12.7 58	110 -10.5 31	93 23.7 54	98 3 52	98 15 50
JM 213218 92623347 JM213218	2	JM 182481 JM 172314		112 79	80 78	84 73	108 66	94 43	78 62	98 44	81 58	121 -3.39 80	81 0.72 69	92 4 66	80 7.3 78	84 -8.0 73	74 -22 72	84 12.9 66	82 8 41	96 4.5 46	107 -8.9 56	92 -5.2 30	96 24.8 52	82 -8 43	83 -2 41
JM 213234 92623503 JM213234		PDR 180024 JM 170152		72 76	121 73	118 62	97 38	110 37	115 51	104 42	114 49	75 1.31 77	98 -0.07 64	103 20 38	121 27.2 73	118 5.8 62	129 118 58	117 36.9 63	107 92 39	97 5.3 44	95 -0.4 53	115 -12.1 21	108 29.6 46	106 8 45	111 30 43
JM 213242 92623586 JM213242	1	JM 152011 JM 182512		112 78	90 76	89 68	121 59	105 42	97 59	92 48	95 57	126 -3.87 79	133 -1.66 65	79 -14 59	90 12.0 76	89 -5.8 68	93 25 68	87 14.9 64	91 37 45	105 10.3 50	105 -7.4 57	104 -8.9 28	91 22.9 52	100 4 51	100 17 49
JM 213246 92623628 JM213246	2	JM 182489 JM 141719		62 77	114 76	114 68	101 51	97 40	98 57	103 42	99 54	67 2.08 78	94 0.13 64	99 14 51	114 23.5 76	114 4.3 68	123 103 65	115 35.3 64	106 91 39	86 -1.4 45	84 7.8 54	100 -7.6 27	101 26.8 51	108 10 39	104 22 37
JM 213249 92623651 JM213249	1	JM 162123 JM 162157		113 79	92 77	100 71	105 60	111 48	104 62	100 52	103 60	114 -2.71 80	68 1.34 71	95 8 60	92 13.1 77	100 -1.3 71	97 37 69	93 19.4 66	94 50 50	96 4.8 54	120 -17.8 59	108 -10.1 37	105 28.6 56	103 6 55	97 14 53
JM 213252 92623685 JM213252		BL 180092 JM 180167		72 77	114 75	98 71	89 64	107 41	92 60	100 37	93 55	75 1.26 78	97 0.00 67	111 31 64	114 23.6 75	98 -2.1 71	103 50 70	115 35.7 63	103 80 35	106 11.3 39	95 -0.2 53	109 -10.3 29	109 30.1 46	108 10 39	101 19 38
JM 213253 92623693 JM213253	2	JM 182639 JM 151897		106 80	97 78	109 74	91 66	107 44	106 63	111 50	108 60	106 -1.92 81	81 0.75 70	109 29 66	97 15.3 78	109 2.2 74	101 47 73	101 25.0 66	103 80 48	112 14.9 53	114 -13.3 58	105 -9.1 31	106 28.8 54	115 15 52	112 31 51

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JM 213260 92624006 JM213260	1	JM 152011 JM 172267		79 79	120 78	90 74	90 67	117 46	98 63	104 46	99 60	78 1.02 80	128 -1.45 69	110 30 67	120 26.8 78	90 -5.5 74	100 43 73	115 35.0 66	100 67 43	103 9.4 48	112 -12.2 58	117 -12.7 35	103 27.6 54	112 12 48	111 30 47
JM 213272 92623800 JM213272	1	JM 182639 JM 152055		93 76	98 75	84 63	101 53	99 40	82 56	102 46	85 54	-0.53 78	-0.09 60	99 14 53	98 16.0 75	84 -7.9 63	84 4 64	101 25.2 47	90 33 44	103 9.2 48	110 -10.7 57	97 -6.8 22	99 26.1 50	104 7 47	99 16 46
JM 213287 92623958 JM213287	1	JM 172278 JM 151941		76 78	108 76	92 69	78 52	100 42	80 58	95 44	81 55	82 0.58 79	75 1.01 65	122 47 52	108 20.9 76	92 -4.6 69	89 15 66	103 26.4 63	95 52 42	108 12.6 46	81 10.1 55	103 -8.7 28	104 28.2 52	89 -3 46	94 11 45
JM 213294 92624105 JM213294	1	BL 180092 JM 172322		70 78	123 77	99 69	79 57	85 43	92 59	120 44	98 56	78 1.01 79	66 1.45 66	121 46 57	123 27.9 77	99 -1.8 69	104 54 68	125 42.9 68	119 133 42	120 20.1 46	76 13.5 57	88 -4.0 29	119 34.0 52	123 20 46	115 34 45
JM 213299 92624154 JM213299	1	JM 182481 JM 162181		108 79	98 77	97 70	93 57	105 45	100 60	113 47	103 57	107 -1.96 80	89 0.37 70	107 25 57	98 16.1 77	97 -2.6 70	93 26 68	102 25.8 67	101 73 44	92 2.5 50	115 -13.8 57	102 -8.3 33	112 31.1 53	102 5 47	104 22 45
JM 213310 92624261 JM213310	1	JM 182489 JM 111298		93 78	90 74	124 61	104 48	105 42	106 55	95 44	103 53	90 -0.21 79	118 -0.96 64	96 9 48	90 12.1 74	124 8.5 61	118 90 61	94 19.9 61	95 51 41	83 -3.5 47	118 -16.6 54	102 -8.2 29	83 20.0 50	98 3 39	98 15 38
JM 213321 92624378 JM213321	1	JM 172278 JM 152015		83 75	111 73	85 53	96 37	94 38	86 50	93 46	86 49	87 0.05 77	81 0.73 59	104 21 37	111 22.1 73	85 -7.5 53	92 23 54	104 27.0 62	92 43 43	112 14.9 48	76 13.5 55	98 -6.9 21	97 25.3 49	91 -3 47	95 12 45
JM 213323 92624394 JM213323		JM 172320 JM 111215		97 79	85 76	103 64	103 53	107 46	87 59	84 49	85 57	96 -0.84 80	98 -0.06 66	97 11 53	85 9.4 76	103 -0.3 64	93 26 64	82 11.5 66	89 30 47	77 -7.2 51	98 -2.5 58	109 -10.2 33	86 21.2 54	106 8 52	86 1 51
JM 213337 92621887 JM213337		BL 180092 JM 172319		91 78	105 77	83 69	97 55	78 42	81 59	107 50	86 57	92 -0.50 79	91 0.28 65	103 20 55	105 19.1 77	83 -8.1 69	86 9 67	106 29.1 66	110 102 48	110 13.6 54	74 14.9 56	80 -1.7 29	109 30.2 51	110 12 55	105 23 53
JM 213355 92622067 JM213355	2	JM 182481 JM 162164		113 79	83 78	102 73	107 66	101 44	96 62	99 47	96 59	111 -2.35 80	92 0.24 69	93 5 66	83 8.5 78	102 -0.5 73	93 27 72	84 13.1 66	88 28 44	96 4.8 49	108 -9.5 56	99 -7.4 31	88 21.9 53	95 1 46	95 12 45
JM 213366 92622174 JM213366	1	BL 180092 JM 162153		100 79	91 78	97 73	120 66	88 44	92 62	88 44	90 58	99 -1.12 80	96 0.03 69	80 -13 66	91 12.7 78	97 -2.8 73	101 46 72	93 19.1 65	91 38 42	107 11.4 46	103 -5.7 57	85 -3.3 31	99 26.0 52	98 3 47	87 2 45
JM 213367 92622182 JM213367	2	JM 182639 JM 141702		100 79	97 78	105 74	97 67	89 45	98 63	110 50	101 60	100 -1.23 80	91 0.30 70	103 20 67	97 15.7 78	105 0.8 74	102 48 73	108 30.2 66	102 76 48	111 14.1 52	104 -6.5 59	86 -3.4 31	103 27.5 53	115 15 51	111 30 50

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ID Number Name																									
JM 213406 92622331 JM213406	1	BG 170036 JM 192828		115 79	102 77	138 74	82 68	127 46	138 63	99 54	132 61	110 -2.33 80	104 -0.35 70	118 41 68	102 17.9 77	138 13.8 74	125 108 73	104 27.0 66	107 92 51	127 24.1 57	113 -12.8 56	129 -16.3 35	123 35.4 52	99 3 58	101 19 56
JM 213407 92622349 JM213407	1	BG 170036 JM 192789		113 79	92 77	109 74	99 67	126 44	112 62	91 45	108 59	127 -3.99 80	123 -1.21 70	101 17 67	92 13.3 77	109 2.2 74	102 50 73	94 19.9 64	91 38 43	100 7.6 47	119 -16.7 56	126 -15.4 31	118 33.6 51	83 -8 48	82 -3 47
JM 213409 92622364 JM213409		BG 170036 JM 192707		96 78	85 76	97 70	115 60	113 44	88 60	94 46	87 57	139 -5.25 79	111 -0.67 66	85 -6 60	85 9.6 76	97 -2.8 70	93 27 69	89 16.5 62	94 49 44	92 2.2 49	92 1.9 56	117 -12.7 31	115 32.3 50	84 -7 49	82 -3 48
JM 213410 92622372 JM213410	1	JM 192770 JM 192713		116 76	108 75	116 67	95 55	95 40	126 57	121 41	128 54	113 -2.62 78	89 0.35 62	105 22 55	108 20.6 75	116 5.2 67	118 89 66	112 32.8 60	116 123 39	104 9.9 44	81 10.1 54	98 -7.0 25	105 28.6 46	123 21 44	122 42 43
JM 213411 92622380 JM213411	1	BG 170036 JM 192704		115 79	92 77	107 74	106 67	105 44	110 62	96 44	107 58	122 -3.51 80	104 -0.31 70	94 7 67	92 13.2 77	107 1.5 74	104 55 73	96 21.3 64	100 69 42	97 5.6 46	103 -5.9 56	105 -9.1 33	112 31.0 50	89 -4 46	90 6 45
JM 213419 92622463 JM213419		JM 182483 JM 192815		115 76	105 75	92 67	111 56	102 42	112 58	97 47	109 56	107 -2.01 78	123 -1.20 62	89 -1 56	105 19.5 75	92 -4.7 67	102 48 66	103 26.6 62	93 44 44	88 -0.1 51	82 9.0 54	105 -9.3 30	109 30.2 49	90 -3 46	98 15 44
JM 213420 92622471 JM213420	1	BG 170036 JM 192913		119 77	96 75	130 68	91 59	114 42	130 59	89 44	122 56	118 -3.08 78	98 -0.04 64	109 29 59	96 14.8 75	130 10.7 68	119 93 67	98 23.2 64	101 73 43	113 15.7 47	95 0.2 56	117 -12.8 29	114 32.0 51	83 -8 47	87 3 46
JM 213423 92622505 JM213423	4	BG 170036 JM 192894		116 79	87 77	99 73	110 66	125 42	104 61	79 56	98 60	120 -3.33 80	99 -0.10 69	90 2 66	87 10.5 77	99 -1.9 73	94 29 72	82 11.1 64	81 4 52	113 15.3 59	118 -16.5 55	125 -15.2 30	112 31.0 52	73 -15 60	68 -19 57
JM 223450 94372232 JM223450		JM 202976 JM 200168		106 74	85 72	108 66	132 50	105 37	106 54	92 36	103 50	132 -4.54 76	123 -1.21 61	68 -30 50	85 9.8 72	108 1.9 66	116 84 63	86 14.6 57	97 57 34	92 2.3 38	108 -9.1 51	104 -8.8 23	127 36.9 42	94 0 39	92 8 38
JM 223452 93959047 JM223452	1	JM 202976 JM 202954		117 75	102 72	113 58	110 46	100 36	125 52	110 42	123 50	115 -2.83 77	85 0.55 55	90 2 46	102 17.9 72	113 3.8 58	119 92 59	104 27.7 60	112 109 40	102 8.4 44	87 5.8 55	102 -8.4 18	110 30.5 46	107 9 45	105 23 43
JM 223455 93959070 JM223455	1	JM 202976 JM 203108		101 75	93 73	98 60	123 46	99 37	98 53	101 44	98 51	133 -4.64 77	97 0.01 55	77 -17 46	93 13.3 73	98 -2.1 60	105 58 60	91 18.2 60	103 79 42	96 4.5 46	87 5.8 55	101 -8.0 19	115 32.4 46	102 5 46	97 14 45
JM 223456 93959088 JM223456	1	JM 202976 JM 202963		99 76	89 74	99 67	130 55	98 42	96 57	103 42	97 54	133 -4.68 78	90 0.30 63	70 -27 55	89 11.8 74	99 -1.9 67	108 63 65	97 22.0 60	105 85 40	94 3.5 45	106 -7.6 55	96 -6.5 28	97 25.5 45	100 5 45	100 17 44

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ID Number Name																									
JM 223461 93959120 JM223461	1	JM 202974 JM 202958	115 75	102 74	98 58	118 45	85 34	112 51	111 44	113 50	110 -2.31 77	105 -0.39 54	82 -11 45	102 17.7 74	98 -2.0 58	110 69 59	104 27.7 62	107 93 41	103 9.2 46	80 10.4 54	87 -3.6 15	102 27.3 43	114 14 47	112 31 45	
JM 223463 94040110 JM223463	2	JM 202946 JM 203072	115 76	94 74	111 61	115 49	116 40	119 55	113 44	119 53	123 -3.64 78	113 -0.75 63	85 -6 49	94 13.8 74	111 3.0 61	114 80 61	93 19.3 62	109 100 43	109 12.8 47	126 -22.1 55	113 -11.5 25	118 33.4 45	97 2 47	101 18 46	
JM 223464 94040128 JM223464	3	JM 202946 JM 203034	116 76	99 76	97 67	108 57	108 39	111 57	116 44	113 54	122 -3.53 78	110 -0.60 63	92 4 57	99 16.5 76	97 -2.6 67	101 45 67	100 24.7 62	103 80 42	110 13.7 46	120 -17.6 54	106 -9.3 24	122 35.1 45	94 0 47	99 16 45	
JM 223467 94040151 JM223467	2	JM 202934 JM 203037	121 75	110 74	94 58	100 44	87 35	116 51	117 43	117 49	118 -3.06 77	107 -0.46 54	100 15 44	110 21.7 74	94 -3.6 58	102 49 59	116 36.4 62	116 124 40	109 12.6 45	82 9.0 53	88 -4.0 17	101 26.7 44	107 9 46	111 30 44	
JM 223468 94040169 JM223468	1	JM 202976 JM 203104	117 75	111 73	111 61	98 49	103 38	129 54	116 42	128 52	122 -3.51 77	130 -1.52 57	102 18 49	111 22.2 73	111 2.9 61	116 85 61	112 33.2 60	115 120 40	108 12.1 45	88 5.1 55	106 -9.5 20	116 32.6 46	112 12 46	112 31 44	
JM 223471 94040193 JM223471	1	JM 202976 JM 202945	116 75	110 73	98 60	108 47	88 38	117 53	113 42	118 51	112 -2.44 77	102 -0.22 56	92 4 47	110 21.8 73	98 -2.3 60	109 67 60	114 34.6 60	115 118 40	94 3.7 45	79 11.1 55	90 -4.6 20	106 28.9 43	115 15 45	110 29 44	
JM 223473 94040219 JM223473		JM 202950 JM 203035	96 74	105 73	105 59	94 47	101 36	104 52	105 40	104 50	97 -0.95 76	87 0.45 55	106 24 47	105 19.3 73	105 0.6 59	105 56 60	112 33.5 61	106 90 38	92 2.5 43	86 6.5 52	104 -8.7 21	107 29.4 40	102 6 44	102 20 42	
JM 223481 94094497 JM223481	1	JM 202976 JM 203058	113 74	79 73	106 58	136 45	97 36	101 52	94 41	99 50	109 -2.22 76	97 -0.02 54	64 -36 45	79 6.7 73	106 0.9 58	111 71 59	82 11.1 60	95 51 39	86 -1.2 43	87 5.6 55	98 -7.2 16	104 28.1 43	100 4 44	88 3 42	
JM 223500 93959146 JM223500	2	JM 141806 JM 182618	119 76	103 76	80 65	107 47	97 41	101 56	88 48	98 54	111 -2.42 78	118 -0.95 62	93 5 47	103 18.3 76	80 -9.3 65	87 10 63	92 18.5 65	93 45 47	104 9.7 51	91 2.9 59	98 -7.0 23	86 20.9 54	87 -5 51	98 15 50	
JM 223501 93959153 JM223501	1	JM 192843 JM 192849	109 76	100 75	77 66	90 57	80 40	82 57	109 41	87 54	128 -4.16 78	111 -0.67 62	110 29 57	100 16.9 75	77 -10.6 66	75 -19 66	105 28.3 62	106 88 39	98 6.0 44	92 2.0 54	78 -1.2 25	109 30.0 46	106 8 44	108 27 42	
JM 223507 93959211 JM223507	2	JM 192843 JM 182565	110 75	107 74	91 61	75 44	98 37	99 53	96 44	98 51	106 -1.87 77	103 -0.28 57	125 50 44	107 20.4 74	91 -5.0 61	87 10 60	107 29.5 63	102 74 42	100 7.2 47	92 1.9 54	99 -7.3 20	102 27.4 45	102 6 47	101 19 46	
JM 223512 93959260 JM223512	2	JM 192843 JM 182619	122 76	103 75	108 67	94 56	108 40	123 57	106 41	121 54	118 -3.11 78	126 -1.33 63	106 24 56	103 18.4 75	108 1.9 67	107 61 66	102 25.7 64	106 89 38	99 6.5 43	116 -14.9 54	106 -9.5 25	112 31.3 46	105 8 44	108 26 42	

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ID Number Name																								
JM 223513 93959278 JM223513		JM 172320 JM 172352	84 77	93 77	103 69	91 58	114 43	86 60	102 52	88 58	85 0.24 78	97 0.01 65	109 28 58	93 13.7 77	103 -0.2 69	94 29 68	90 17.2 66	104 84 49	78 -6.3 55	98 -1.9 56	116 -12.5 30	95 24.6 50	108 10 56	92 8 54
JM 223516 93959302 JM223516		JM 192708 JM 182520	95 76	110 75	75 61	86 45	93 38	82 53	114 44	88 51	95 -0.72 78	94 0.13 57	114 36 45	110 21.9 75	75 -11.5 61	79 -11 60	109 30.9 64	114 116 42	101 8.0 47	84 7.3 54	94 -6.0 22	85 20.6 44	104 7 47	105 23 45
JM 223518 93959328 JM223518	1	JM 141806 JM 162095	86 79	129 77	89 71	73 60	110 46	104 61	107 50	105 59	87 0.10 80	99 -0.07 68	127 53 60	129 30.8 77	89 -5.7 71	98 38 69	126 43.5 66	107 93 48	96 4.5 52	106 -7.5 59	110 -10.6 32	97 25.3 55	110 11 53	117 37 51
JM 223520 93959344 JM223520	2	JM 192834 JM 192789	122 77	95 77	133 68	96 57	115 40	135 58	112 50	133 56	114 -2.72 79	128 -1.46 63	104 22 57	95 14.6 77	133 12.0 68	124 106 67	105 27.9 64	104 84 47	113 15.3 54	124 -20.6 55	113 -11.5 24	101 26.8 46	109 10 55	107 26 53
JM 223523 93959377 JM223523	1	JM 182569 JM 162138	87 78	122 77	77 69	87 58	100 42	92 59	109 46	95 56	89 -0.12 79	89 0.36 65	113 34 58	122 27.6 77	77 -10.5 69	89 15 68	113 34.0 64	106 88 44	96 5.0 48	104 -6.3 57	99 -7.2 27	99 26.0 50	98 3 46	104 22 45
JM 223525 93959393 JM223525		JM 172320 JM 180163	91 76	88 74	85 62	98 42	93 38	70 53	81 40	69 50	91 -0.33 77	102 -0.22 63	102 18 42	88 10.9 74	85 -7.6 62	77 -16 59	83 12.5 62	82 6 39	68 -12.6 42	95 0.0 52	93 -5.5 25	94 24.3 47	94 0 42	79 -7 41
JM 223526 93959401 JM223526		JM 172320 JM 162145	101 78	77 77	105 69	106 59	112 44	86 60	87 48	84 58	98 -1.11 79	104 -0.33 66	94 7 59	77 5.5 77	105 0.5 69	91 20 68	77 7.5 66	86 22 46	73 -9.9 50	103 -5.4 57	113 -11.5 31	98 25.6 51	100 4 51	82 -3 49
JM 223533 93959476 JM223533	1	JM 182481 JM 192815	123 78	106 76	92 69	89 60	115 44	114 60	113 43	115 57	115 -2.82 79	115 -0.84 65	111 31 60	106 19.8 76	92 -4.6 69	92 23 68	108 30.6 64	101 72 41	89 0.3 45	112 -11.9 57	115 -12.0 30	119 33.8 48	100 4 42	105 23 40
JM 223551 93958817 JM223551	1	JM 192834 JM 192828	117 77	83 76	139 67	93 57	112 40	123 58	97 54	119 57	110 -2.31 79	117 -0.92 63	107 25 57	83 8.5 76	139 14.3 67	120 95 67	91 18.1 64	100 69 50	127 24.0 56	124 -20.7 55	108 -10.2 25	107 29.3 47	95 0 57	101 18 55
JM 223557 93958874 JM223557	1	JM 192703 JM 162157	75 78	105 76	69 69	114 58	96 43	69 59	88 47	70 57	81 0.62 79	71 1.20 65	86 -4 58	105 19.1 76	69 -13.9 69	80 -7 68	103 26.5 64	91 37 45	87 -1.0 50	109 -10.2 56	93 -5.6 30	104 28.0 48	97 2 51	99 16 49
JM 223560 93958908 JM223560	1	JM 182481 JM 192738	106 76	102 75	106 63	94 53	107 40	109 56	112 45	110 54	104 -1.66 78	99 -0.09 59	106 24 53	102 17.6 75	106 0.8 63	103 52 64	110 31.9 64	100 69 42	94 3.7 48	117 -15.5 56	104 -8.9 24	100 26.3 47	100 4 45	107 26 43
JM 223562 93958924 JM223562	1	JM 182481 JM 192739	107 73	108 73	91 52	95 45	97 32	103 49	109 40	105 47	104 -1.67 76	101 -0.18 50	105 22 45	108 21.0 73	91 -5.0 52	95 32 57	108 30.1 64	98 63 38	92 2.5 42	96 -0.6 41	97 -6.9 24	96 24.8 46	103 6 38	101 18 37

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ID Number Name																									
JM 223563 93958932 JM223563	1	JM 192703 JM 182650		116 75	96 75	90 61	116 47	91 38	101 54	101 46	101 52	112 -2.48 77	98 -0.05 58	84 -7 47	96 14.9 75	90 -5.3 61	95 32 61	100 24.4 64	100 69 43	98 6.1 49	85 7.0 55	92 -5.4 21	106 28.9 43	103 7 49	107 26 47
JM 223565 93958957 JM223565	1	BL 180092 JM 172267		83 78	119 77	90 69	86 59	109 43	97 60	116 44	102 57	82 0.57 79	113 -0.77 65	114 35 59	119 26.1 77	90 -5.3 69	98 38 68	121 39.9 66	112 109 42	108 12.1 46	110 -10.9 57	108 -10.0 29	112 31.3 50	119 18 46	113 32 45
JM 223579 94040417 JM223579	1	JM 182639 JM 162096		79 76	121 76	108 65	91 53	101 42	110 57	119 51	113 56	83 0.44 78	85 0.55 62	109 28 53	121 26.9 76	108 2.0 65	117 87 65	129 45.6 66	115 119 49	117 17.9 53	96 -0.8 58	102 -8.1 25	110 30.3 49	129 25 52	123 44 51
JM 223580 94040425 JM223580	1	JM 141806 JM 182621		87 76	130 76	103 65	85 46	98 42	118 56	116 50	119 55	85 0.25 78	115 -0.82 63	115 36 46	130 31.7 76	103 -0.1 65	116 84 62	125 42.4 64	125 153 47	106 10.9 52	78 11.9 58	102 -8.1 25	95 24.6 52	120 18 52	124 44 51
JM 223582 94040441 JM223582	2	JM 192725 JM 131679		90 76	90 76	85 62	107 42	89 38	73 53	95 43	76 51	92 -0.50 78	82 0.68 59	93 6 42	90 12.1 76	85 -7.3 62	82 -1 60	94 20.1 62	89 30 41	108 12.1 45	96 -1.0 55	88 -4.1 20	93 23.9 49	91 -2 46	95 12 44
JM 223585 94040474 JM223585		JM 172320 JM 170161		87 74	82 73	108 61	113 42	100 35	85 51	83 45	82 50	87 0.09 76	106 -0.40 57	87 -4 42	82 8.4 73	108 1.7 61	102 48 59	80 10.3 62	82 6 43	70 -11.6 48	77 12.9 52	105 -9.1 18	95 24.6 46	93 -1 48	79 -7 47
JM 223591 94040532 JM223591	1	BL 180092 JM 141736		112 76	90 76	92 64	103 47	92 40	92 55	94 45	91 53	106 -1.86 78	128 -1.46 61	97 11 47	90 12.1 76	92 -4.5 64	87 12 62	92 18.9 64	94 47 43	94 3.2 48	85 7.2 57	93 -5.7 22	98 25.8 50	102 6 49	89 5 47
JM 223593 94040540 JM223593	1	BL 180092 JM 182591		89 78	99 75	103 63	105 48	95 43	95 56	89 46	93 54	90 -0.26 79	93 0.17 65	95 8 48	99 16.6 75	103 0.0 63	105 57 62	104 27.2 64	95 53 43	109 13.2 48	103 -5.8 57	93 -5.7 29	97 25.4 49	106 8 49	95 12 47
JM 223598 94040599 JM223598	2	JM 182639 JM 121488		110 78	100 76	102 66	87 52	101 44	104 58	105 50	105 56	109 -2.20 79	86 0.52 67	113 34 52	100 16.7 76	102 -0.5 66	96 33 65	110 31.5 65	104 84 48	113 15.6 52	123 -19.6 59	96 -6.4 29	106 28.7 53	120 18 51	109 28 49
JM 223601 94040623 JM223601	1	JM 182481 JM 192704		110 76	87 75	95 63	108 53	86 41	91 56	113 43	95 53	125 -3.82 78	96 0.02 60	92 4 53	87 10.8 75	95 -3.3 63	90 19 64	97 22.1 65	97 60 41	84 -2.8 45	90 3.5 57	85 -3.3 25	101 26.9 47	100 4 42	102 20 40
JM 223602 94040631 JM223602	3	JM 182639 JM 192887		107 76	103 75	93 62	109 49	93 39	103 55	112 46	105 53	105 -1.74 78	97 0.01 59	91 3 49	103 18.4 75	93 -4.4 62	100 43 62	108 30.0 64	101 72 45	116 17.4 49	91 2.9 57	94 -5.9 21	99 26.2 48	111 12 47	108 26 46
JM 223608 94040698 JM223608	2	JM 192834 JM 192900		104 76	95 75	116 61	107 48	104 36	112 53	101 45	110 51	100 -1.30 78	111 -0.64 57	93 5 48	95 14.4 75	116 4.9 61	115 81 61	102 25.6 64	100 69 42	103 8.8 47	101 -4.5 54	104 -8.7 18	101 27.0 45	91 -2 48	98 15 46

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ID Number Name				Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
JM 223609 94040706 JM223609	2	JM 141806 JM 131522		81 79	116 77	103 71	80 60	103 44	100 61	104 48	101 58	87 0.10 80	74 1.08 69	120 44 60	116 24.6 77	103 0.0 71	104 54 69	114 34.9 66	106 91 46	100 7.5 51	99 -2.5 59	104 -8.8 29	93 23.6 56	108 10 51	111 31 50
JM 223614 94040755 JM223614		JM 192703 JM 180164		99 74	110 73	113 61	96 39	99 34	116 50	100 44	114 49	95 -0.73 76	118 -0.96 57	104 21 39	110 21.6 73	113 3.8 61	116 85 58	106 29.0 62	107 92 41	102 8.6 47	76 13.1 51	104 -8.8 16	110 30.3 38	104 7 48	111 29 46
JM 223621 94040821 JM223621	2	JM 182569 JM 172423		101 76	89 76	123 64	110 49	90 40	107 56	99 48	106 54	100 -1.28 78	93 0.17 61	90 2 49	89 11.4 76	123 8.0 64	119 93 63	87 15.3 66	95 51 47	92 2.3 51	92 2.0 58	89 -4.5 22	102 27.3 49	106 8 50	104 22 49
JM 223625 94040862 JM223625	3	JM 192725 JM 172322		93 77	112 77	88 67	84 56	80 40	90 58	113 45	95 55	96 -0.84 79	79 0.83 63	116 39 56	112 22.9 77	88 -6.1 67	91 20 67	114 34.7 65	107 92 43	120 20.0 47	103 -5.4 55	76 -0.6 26	105 28.3 49	103 6 48	109 28 46
JM 223627 94040888 JM223627	2	BL 180092 JM 151895		77 76	95 75	101 63	112 47	80 40	81 55	86 44	80 53	80 0.77 78	91 0.27 60	88 -2 47	95 14.6 75	101 -0.8 63	104 55 62	100 24.5 64	89 30 42	109 12.7 46	83 8.5 57	80 -1.7 22	97 25.3 49	99 4 45	91 7 44
JM 223631 94040920 JM223631		JM 192703 JM 180167		64 73	117 72	99 59	94 42	100 34	90 50	99 37	91 47	71 1.71 75	82 0.68 55	106 24 42	117 25.2 72	99 -1.9 59	107 63 58	115 35.2 62	106 88 35	96 4.6 39	81 9.7 52	104 -8.9 16	107 29.4 37	103 6 40	109 28 38
JM 223635 94040961 JM223635	2	JM 141806 JM 151983		112 78	100 76	98 66	96 44	103 44	106 56	96 49	104 55	109 -2.23 79	92 0.24 68	104 21 44	100 17.0 76	98 -2.0 66	97 36 62	96 21.3 64	96 55 47	98 5.8 51	113 -12.9 59	101 -8.0 29	92 23.6 56	107 9 52	116 36 50
JM 223638 94040995 JM223638		JM 192703 JM 182655		90 78	108 76	83 67	108 57	103 42	91 58	96 43	91 55	92 -0.46 79	83 0.62 64	92 4 57	108 20.9 76	83 -8.1 67	94 28 67	107 29.5 63	98 60 41	98 6.0 45	108 -9.2 56	102 -8.1 29	93 23.8 45	97 2 46	101 19 44
JM 223643 94041043 JM223643	4	JM 141806 JM 172350		104 77	95 76	82 66	111 46	98 41	87 56	84 50	84 55	103 -1.53 78	92 0.23 64	89 0 46	95 14.5 76	82 -8.7 66	84 3 63	88 15.8 66	85 17 47	97 5.4 51	90 3.7 59	99 -7.5 23	90 22.6 55	87 -5 52	91 6 51
JM 223646 94041076 JM223646	2	JM 141806 JM 131627		101 75	106 75	87 60	99 41	91 36	95 52	103 50	96 52	100 -1.30 77	94 0.12 59	101 17 41	106 19.9 75	87 -6.8 60	91 22 59	100 24.7 65	97 60 48	99 6.7 53	81 9.6 49	94 -5.7 24	95 24.4 55	102 6 53	105 23 52
JM 223652 94041134 JM223652	2	JM 192834 JM 192868		111 76	97 75	125 61	115 48	100 36	126 53	107 48	124 52	109 -2.18 78	90 0.32 57	85 -6 48	97 15.3 75	125 8.9 61	131 123 61	104 27.3 63	107 92 46	113 15.4 51	98 -2.2 55	100 -7.6 17	101 27.0 45	98 3 51	107 25 50
JM 223664 94041241 JM223664	3	JM 182639 JM 151902		80 75	108 74	104 57	104 45	90 35	97 51	103 48	98 50	84 0.33 77	84 0.60 55	96 10 45	108 21.0 74	104 0.2 57	112 74 59	114 34.5 66	100 70 47	117 18.0 51	103 -5.8 47	88 -4.1 23	99 25.9 50	109 11 49	105 23 48

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JM 223666	94114808	2	JM 141806 JM 182668	116 76	111 75	91 64	107 47	97 40	115 55	103 48	113 54	111 -2.36 78	109 -0.54 62	93 5	111 22.2 75	91 -4.9 64	103 51 62	104 27.3 65	101 72 45	99 6.6 49	94 0.6 58	97 -6.9 23	92 23.4 53	98 3 49	103 21 48
JM 223671	94094596		JM 182481 JM 192713	119 76	100 75	89 63	113 53	87 42	105 57	119 44	109 54	114 -2.74 78	99 -0.10 59	87 -3 53	100 16.7 75	89 -5.8 63	96 33 64	100 24.3 65	106 89 42	88 -0.2 46	88 4.5 57	87 -3.8 26	103 27.7 46	107 9 43	109 27 42
JM 223672	94094604	2	JM 182639 JM 192897	90 73	109 73	98 50	104 41	87 31	98 48	112 46	101 48	91 -0.35 76	91 0.29 48	96 10	109 21.1 73	98 -2.1 50	106 60 55	112 33.4 64	101 72 43	116 17.0 47	79 11.2 44	88 -4.2 18	99 26.2 47	113 13 46	109 27 45
JM 223673	94094612	2	BL 180092 JM 172283	108 74	98 74	86 54	114 41	100 32	96 49	101 44	97 48	103 -1.56 76	116 -0.87 53	86 -4	98 15.8 74	86 -7.1 54	92 23 56	99 23.9 66	97 58 42	111 13.9 47	98 -2.5 44	100 -7.6 21	100 26.5 49	104 7 47	99 16 45
JM 223681	94094695	1	JM 182569 JM 162085	109 76	93 75	114 64	92 48	63 36	99 54	107 46	101 52	107 -2.02 78	91 0.26 60	108 27 48	93 13.4 75	114 4.1 64	103 52 62	101 25.4 64	105 84 44	78 -6.8 48	72 15.9 54	62 3.6 17	102 27.2 46	103 6 47	107 25 46
JM 223688	94236569	1	JM 192703 JM 182507	117 78	101 76	93 68	113 57	94 42	109 59	103 50	108 57	112 -2.47 79	106 -0.40 64	87 -3	101 17.4 76	93 -4.1 68	101 46 67	100 24.4 65	104 82 47	94 3.7 54	106 -8.0 55	92 -5.3 28	111 30.8 45	111 12 55	110 29 52
JM 223695	94236635	2	JM 182569 JM 121419	100 76	90 76	99 65	122 49	85 40	93 56	91 50	91 55	99 -1.13 78	98 -0.05 62	78 -16 49	90 12.3 76	99 -1.8 65	104 54 63	89 16.7 64	87 25 48	80 -5.4 52	95 0.0 58	83 -2.6 23	97 25.2 51	87 -5 50	87 3 49
JM 223696	94236643		JM 172320 JM 170156	91 72	83 72	106 52	112 37	105 28	87 46	88 44	85 46	89 -0.19 74	110 -0.62 50	88 -2	83 8.8 72	106 0.8 52	99 42 54	80 10.3 64	87 26 41	72 -10.5 45	88 4.8 36	108 -10.0 19	100 26.4 46	104 7 46	84 -1 45
JM 233716	95753992	2	JM 182569 JM 162163	101 75	100 74	96 57	105 44	96 34	98 51	95 48	97 50	100 -1.26 77	97 0.00 54	95 8	100 16.8 74	96 -3.0 57	99 41 58	92 18.5 57	92 40 46	87 -0.8 50	98 -2.4 45	95 -6.2 23	94 24.0 48	91 -2 49	96 13 47
JM 233717	95754008	1	JM 192834 JM 182534	119 73	78 74	118 52	113 39	103 30	108 48	90 46	104 48	113 -2.63 76	104 -0.34 49	87 -4	78 6.1 74	118 5.9 52	108 65 55	84 13.2 54	91 39 44	118 18.3 48	117 -15.7 40	100 -7.7 19	88 21.7 44	78 -11 49	89 5 47
JM 233720	95754032	1	JM 202974 JM 172332	108 73	97 73	105 51	118 37	106 28	111 46	108 43	112 45	103 -1.59 76	111 -0.65 49	82 -11	97 15.4 73	105 0.6 51	112 76 54	98 22.8 52	103 79 40	109 12.9 46	100 -3.3 38	106 -9.6 17	108 29.7 43	107 9 46	105 23 45
JM 233722	95754057		JM 182569 JM 170151	109 72	91 71	101 53	104 37	91 28	97 46	87 42	93 45	104 -1.72 74	110 -0.59 51	96 9	91 12.3 71	101 -1.1 53	96 34 54	90 17.0 54	84 13 40	77 -7.1 43	87 5.6 38	92 -5.3 18	104 28.2 42	82 -9 41	86 1 41

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JM 233727 95754131 JM233727	4	JM 182569 JM 182593	111 75	100 75	90 63	97 48	91 38	97 54	99 48	96 53	105 -1.79	127 -1.41	103 20	100 16.7	90 -5.5	89 16	95 21.2	97 60	82 -3.8	114 -13.1	86 -3.6	108 29.4	89 -4	96 12	
JM 233728 95754149 JM233728		JM 182569 JM 170153	93 73	108 72	107 54	100 33	98 26	108 45	105 48	108 46	91 -0.40	107 -0.47	100 15	108 21.0	107 1.3	112 74	103 26.5	105 86	92 2.0	96 -0.7	99 -7.2	103 27.6	103 7	111 30	
JM 233729 95754156 JM233729	3	JM 202974 JM 172304	109 75	116 74	111 61	101 44	90 34	126 51	118 44	127 50	103 -1.57	119 -1.04	99 14	116 24.6	111 2.9	121 98	110 31.4	119 132	112 15.1	92 1.7	90 -4.6	108 29.7	114 14	118 38	
JM 233739 95754206 JM233739	2	JM 203082 JM 141765	118 73	85 73	103 49	118 32	101 26	104 44	107 46	105 44	114 -2.72	95 0.08	82 -11	85 9.4	103 -0.1	101 48	89 16.7	99 66	93 2.8	114 -13.3	98 -7.0	98 25.5	99 4	100 17	
JM 233741 95754222 JM233741	3	JM 202946 JM 192833	81 73	98 73	110 51	101 38	88 29	91 47	108 44	94 46	85 0.26	82 0.69	99 15	98 16.0	110 2.5	108 64	98 23.0	100 69	107 11.6	78 12.2	90 -4.8	113 31.4	94 0	95 12	
JM 233746 95754271 JM233746		JM 182639 JM 172324	107 74	110 74	91 56	96 43	114 34	109 50	113 50	110 50	104 -1.67	102 -0.24	104 21	110 21.6	91 -4.9	97 35	107 29.5	110 103	115 16.4	107 -8.4	115 -12.1	109 29.8	117 16	112 31	
JM 233747 95754289 JM233747	2	JM 182639 JM 182520	93 74	116 74	89 55	95 43	101 34	101 50	120 48	106 50	94 -0.65	92 0.22	105 23	116 24.5	89 -5.8	98 39	120 38.8	111 108	119 19.2	99 -3.0	101 -7.9	99 26.0	116 15	113 32	
JM 233752 95754339 JM233752	3	JM 202974 JM 182655	99 75	113 74	96 60	116 47	93 36	111 53	103 44	110 51	97 -0.92	105 -0.35	84 -7	113 23.0	96 -3.2	114 79	109 31.1	105 84	113 15.7	90 3.7	94 -5.9	105 28.3	104 7	104 21	
JM 233757 95754388 JM233757	2	JM 192834 JM 192755	119 75	91 75	113 61	115 49	103 36	117 53	106 48	116 52	115 -2.75	97 -0.02	85 -5	91 12.4	113 3.7	113 78	97 22.6	102 76	109 12.9	114 -13.8	100 -7.8	108 29.6	95 1	102 19	
JM 233759 95754404 JM233759		JM 182569 JM 192707	119 74	95 74	95 55	111 47	89 34	104 51	106 48	105 50	115 -2.78	97 -0.01	89 0	95 14.5	95 -3.6	97 35	97 22.6	98 62	81 -4.5	96 -0.7	88 -4.1	99 26.2	98 3	100 18	
JM 233766 95754479 JM233766	2	JM 202946 JM 172439	102 75	91 74	117 62	103 49	111 38	108 54	102 44	107 52	104 -1.71	74 1.07	97 11	91 12.7	117 5.3	111 72	96 21.2	100 68	112 14.9	131 -25.1	106 -9.5	113 31.5	89 -4	92 8	
JM 233767 95754487 JM233767	2	JM 202974 JM 172301	108 73	93 73	104 50	133 36	96 28	108 46	105 46	108 46	104 -1.68	104 -0.34	67 -31	93 13.3	104 0.1	117 88	91 18.3	96 55	113 15.1	91 2.9	97 -6.8	105 28.6	99 4	98 15	

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ID Number Name																									
JM 233768 95754495 JM233768	3	JM 203082 JM 192747	78 73	104 73	97 45	102 33	78 24	83 43	110 41	88 43	81 0.62 76	88 0.43 42	98 13 33	104 18.8 73	97 -2.6 45	101 46 50	106 28.6 46	107 92 39	104 9.9 44	100 -3.6 33	74 0.2 15	95 24.7 40	107 9 45	104 22 43	
JM 233772 95754537 JM233772	2	JM 202934 JM 151897	96 73	118 73	110 51	84 36	98 30	116 47	119 46	118 47	97 -0.96 76	89 0.36 50	116 39 36	118 25.4 73	110 2.6 51	112 75 53	122 40.1 50	124 150 43	106 11.3 49	96 -0.4 39	98 -7.1 20	91 22.9 44	117 16 50	118 38 48	
JM 233775 95754560 JM233775	1	JM 182639 JM 182482	116 74	108 74	80 56	107 46	105 34	105 51	101 48	104 50	111 -2.36 76	105 -0.39 54	93 6 46	108 20.8 74	80 -9.6 56	90 18 59	105 28.5 56	94 49 46	107 11.8 50	116 -14.6 45	102 -8.3 24	99 26.2 47	102 6 49	101 18 47	
JM 233780 95754610 JM233780	6	JM 202974 JM 172310	119 75	104 75	94 61	113 46	97 33	114 52	112 46	115 51	113 -2.62 77	107 -0.47 57	87 -2 46	104 18.9 75	94 -3.9 61	104 53 61	104 27.4 52	106 91 44	112 15.1 50	113 -12.6 53	94 -5.9 13	117 33.0 45	102 6 50	107 25 48	
JM 233782 95754636 JM233782	1	JM 182639 JM 172263	95 75	126 74	99 57	92 46	102 35	118 52	122 48	121 51	92 -0.43 77	113 -0.76 55	108 27 46	126 29.6 74	99 -1.6 57	113 77 59	127 43.7 60	119 133 46	117 17.7 49	103 -5.4 46	102 -8.2 24	102 27.3 47	131 26 48	126 47 47	
JM 233784 95754651 JM233784	2	JM 192834 JM 182479	105 76	100 75	122 62	100 49	98 37	119 54	100 46	116 52	101 -1.32 78	115 -0.84 58	100 15 49	100 17.0 75	122 7.5 62	120 96 62	108 30.5 54	102 77 44	108 12.2 49	93 1.1 55	98 -7.2 19	111 30.9 45	94 0 50	103 20 48	
JM 233785 95754669 JM233785		JM 182569 JM 162145	116 76	91 75	98 65	106 52	100 40	102 56	97 48	101 54	111 -2.34 78	108 -0.51 61	94 6 52	91 12.7 75	98 -2.0 65	95 32 64	87 15.4 57	93 44 47	85 -2.4 51	104 -6.2 56	99 -7.2 24	114 32.1 48	91 -2 50	93 10 49	
JM 233789 95754701 JM233789	1	JM 202946 JM 172352	109 74	101 74	97 62	94 48	114 38	105 54	111 46	107 52	107 -1.99 76	92 0.22 59	106 24 48	101 17.3 74	97 -2.6 62	95 31 61	99 23.9 54	108 95 43	101 8.1 48	103 -5.5 54	115 -12.3 21	126 36.7 44	93 -1 48	94 10 47	
JM 233791 95754727 JM233791	1	JM 182639 JM 182496	99 74	116 74	86 56	105 46	109 34	107 51	113 47	109 50	98 -1.10 76	95 0.11 54	95 8 46	116 24.8 74	86 -7.0 56	101 46 59	117 37.1 58	103 78 45	117 18.0 49	113 -12.6 45	108 -10.1 24	107 29.2 47	111 12 48	110 29 46	
JM 233792 95754735 JM233792	1	JM 192834 JM 192735	105 73	96 74	113 52	100 42	98 30	109 48	107 44	109 47	103 -1.55 76	97 0.00 49	100 15 42	96 15.1 74	113 4.0 52	110 69 56	110 31.7 54	107 91 42	101 8.2 47	105 -7.4 40	97 -6.7 19	93 23.7 42	103 7 48	107 25 46	
JM 233796 95754776 JM233796	1	JM 202934 JM 151889	105 73	113 73	97 52	95 39	103 32	112 48	106 42	111 47	101 -1.34 76	110 -0.59 50	105 22 39	113 23.0 73	97 -2.6 52	104 53 55	118 37.2 51	110 104 40	92 2.3 44	94 0.5 41	105 -9.1 24	102 27.2 44	102 6 45	106 24 43	
JM 233797 95754784 JM233797	1	JM 202946 JM 172317	97 75	101 74	80 62	88 48	114 36	84 53	106 44	88 51	97 -0.95 77	92 0.22 59	112 32 48	101 17.3 74	80 -9.3 62	78 -12 61	101 25.0 54	100 70 42	92 2.5 46	108 -9.3 53	115 -12.1 20	123 35.5 45	85 -6 47	87 2 45	

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JM 233800 95754818 JM233800	2	JM 202974 JM 182611	97 75	95 74	95 61	104 47	84 36	88 53	89 46	87 52	97 -1.00 77	93 0.20 57	96 10 47	95 14.7 74	95 -3.3 61	94 29 61	97 22.4 52	95 52 44	99 6.4 49	81 9.6 54	85 -3.2 18	109 30.2 46	99 4 49	93 10 47	
JM 233808 95754917 JM233808	JM 172320 JM 202986	99 73	84 73	107 51	97 44	110 32	91 49	86 46	88 48	96 -0.88 76	109 -0.57 50	103 19 44	84 9.2 73	107 1.5 51	94 30 56	82 11.5 57	93 45 44	75 -8.2 48	91 3.1 41	113 -11.6 23	98 25.6 45	97 2 49	79 -7 48		
JM 233815 95754974 JM233815	JM 182639 JM 172319	97 75	108 74	85 56	95 44	93 35	92 51	112 49	96 51	98 -1.06 77	85 0.56 54	105 23 44	108 21.0 74	85 -7.3 56	90 18 58	111 32.2 59	109 100 47	110 13.5 51	99 -2.8 45	92 -5.3 25	101 27.1 47	110 11 50	112 32 49		
JM 233816 95754982 JM233816	JM 192834 JM 182519	113 75	85 75	111 61	100 49	114 36	104 53	94 44	102 51	107 -1.99 77	114 -0.80 57	100 15 49	85 9.4 75	111 2.9 61	99 42 62	93 19.3 54	96 56 41	99 6.8 46	130 -25.1 54	110 -10.5 19	110 30.2 45	85 -7 46	90 6 45		
JM 233817 95754990 JM233817	2	JM 202946 JM 141693	86 74	110 73	120 54	86 38	102 30	111 47	110 44	111 46	88 -0.02 76	93 0.20 52	114 36 38	110 21.5 73	120 6.6 54	117 87 55	107 29.9 50	111 107 41	100 7.4 46	101 -4.4 41	102 -8.3 19	101 27.0 45	96 1 46	101 19 45	
JM 233823 95755054 JM233823	2	JM 203082 JM 172401	82 75	100 75	118 60	101 45	103 34	102 52	108 46	104 51	84 0.39 77	96 0.05 56	99 14 45	100 17.0 75	118 5.8 60	117 87 60	102 25.7 52	107 94 43	107 11.7 49	107 -8.4 52	102 -8.1 17	114 31.9 45	105 8 50	104 22 48	
JM 233827 95755096 JM233827	2	JM 192834 JM 192699	91 73	93 74	108 51	117 40	71 29	92 47	97 44	92 46	92 -0.40 76	94 0.13 48	83 -9 40	93 13.4 74	108 1.7 51	111 73 55	103 26.5 44	96 57 42	101 7.7 46	95 -0.3 40	67 2.1 18	83 19.8 42	91 -3 47	94 11 45	
JM 233828 95755104 JM233828	1	JM 202934 JM 182613	106 73	89 73	98 48	114 37	84 31	92 47	91 44	91 46	106 -1.85 76	84 0.58 46	86 -5 37	89 11.5 73	98 -2.2 48	97 37 53	100 24.6 54	93 43 42	94 3.3 47	103 -5.6 40	81 -1.9 22	86 20.9 43	90 -3 47	88 3 46	
JM 233829 95755112 JM233829	1	JM 202934 JM 141736	113 73	105 74	97 52	98 38	94 30	108 47	109 46	109 47	108 -2.12 76	107 -0.47 50	102 18 38	105 19.2 74	97 -2.6 52	99 42 55	111 32.2 52	113 115 43	93 3.1 49	94 0.5 40	94 -5.7 21	86 21.1 44	107 9 49	103 21 48	
JM 233833 95755153 JM233833	2	JM 203082 JM 172322	104 75	103 75	107 60	99 47	101 36	110 53	120 44	114 51	107 -2.00 77	62 1.61 56	101 16 47	103 18.3 75	107 1.5 60	108 65 61	110 31.9 53	113 112 42	107 11.5 47	106 -7.8 53	99 -7.5 19	116 32.9 45	114 14 47	111 30 45	
JM 233837 95755195 JM233837	2	JM 182569 JM 141780	89 76	108 76	93 65	107 53	95 40	96 57	110 52	99 56	88 -0.06 78	104 -0.31 62	93 5 53	108 21.0 76	93 -4.3 65	103 52 65	102 25.8 56	98 61 50	96 4.7 54	108 -9.4 57	93 -5.5 22	109 29.9 50	95 1 53	102 19 51	
JM 233843 95752515 JM233843	1	JM 192834 JM 192723	96 73	93 74	109 52	109 42	96 30	100 48	98 47	99 48	96 -0.88 76	94 0.15 49	91 2 42	93 13.6 74	109 2.4 52	109 66 56	102 25.7 52	98 61 44	99 6.5 49	108 -9.0 40	94 -5.8 19	91 23.2 43	95 1 50	99 16 48	

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ID Number Name																									
JM 233844 95752531 JM233844	5	JM 192725 JM 203108		107 73	101 73	87 45	106 35	94 26	96 44	101 44	96 44	104 -1.70 76	100 -0.12 44	94 7	101 17.5 73	87 -6.8 45	91 21 51	97 22.2 54	96 55 42	108 12.4 47	102 -5.2 38	92 -5.4 13	93 23.9 42	94 0 47	98 16 46
JM 233850 95752580 JM233850	1	JM 202934 JM 162154		117 76	100 75	93 61	97 48	99 37	105 54	108 46	106 52	114 -2.65 78	97 -0.02 57	103 20 48	100 16.9 75	93 -4.3 61	92 23 61	104 27.1 53	110 102 44	95 4.3 49	112 -12.4 54	97 -6.7 20	98 25.6 46	103 7 49	103 21 47
JM 233855 95752622 JM233855	3	JM 202946 JM 152009		104 76	91 75	107 64	110 49	102 38	103 55	104 47	103 53	105 -1.78 78	80 0.80 60	90 1	91 12.7 75	107 1.6 64	106 60 63	97 22.2 52	101 71 44	102 8.5 49	128 -23.3 55	97 -6.7 21	120 34.1 48	93 -1 49	90 6 48
JM 233863 95752697 JM233863	2	JM 203082 JM 172350		94 73	84 73	113 49	114 33	106 27	95 45	94 45	94 45	95 -0.72 76	92 0.21 47	86 -5 33	84 9.1 73	113 3.8 49	108 65 52	86 14.3 52	92 42 43	104 9.6 48	110 -10.6 36	104 -9.0 18	89 22.2 44	97 2 48	93 10 47
JM 233865 95752713 JM233865		JM 192834 JM 170156		121 71	82 71	120 50	114 33	110 23	117 43	94 41	112 43	114 -2.70 74	114 -0.77 47	86 -4 33	82 8.1 71	120 6.7 50	114 79 51	91 17.8 51	94 47 39	101 7.7 43	113 -12.5 33	109 -10.2 13	104 28.1 40	91 -3 44	92 8 43
JM 233866 95752721 JM233866	2	JM 202974 JM 182507		117 73	109 73	100 51	110 38	94 29	120 47	113 45	121 47	110 -2.26 76	117 -0.94 49	90 1 38	109 21.3 73	100 -1.3 51	112 74 54	104 27.4 52	114 115 42	114 16.3 48	93 1.2 40	94 -6.0 18	112 31.3 43	120 18 48	115 35 46
JM 233871 95752770 JM233871	2	JM 202934 JM 162217		110 75	104 75	98 61	94 48	98 36	106 53	109 48	107 52	108 -2.05 77	93 0.19 58	106 24 48	104 18.9 75	98 -2.1 61	98 40 61	112 33.3 52	117 126 45	109 12.8 50	121 -18.4 54	93 -5.6 19	104 28.2 46	112 12 51	107 26 49
JM 233874 95752804 JM233874	2	JM 192725 JM 203076		97 73	98 73	88 46	109 36	89 28	88 45	97 45	89 45	97 -0.94 76	93 0.20 45	91 2 36	98 16.1 73	88 -6.2 46	92 23 52	95 20.9 55	91 39 43	109 12.9 47	108 -9.1 39	85 -3.2 18	89 22.2 44	93 -1 48	98 15 47
JM 233879 95752846 JM233879	3	JM 202934 JM 131643		106 73	95 74	98 52	108 38	93 31	98 48	108 46	100 48	129 -4.22 76	101 -0.19 50	92 4 38	95 14.3 74	98 -2.3 52	98 39 55	103 26.9 52	109 99 43	98 5.8 48	101 -4.1 41	92 -5.2 21	88 22.0 46	101 5 47	102 19 46
JM 233883 95752887 JM233883	2	JM 182639 JM 140148		97 74	96 73	89 58	129 41	114 32	97 49	96 48	96 49	96 -0.89 76	99 -0.12 56	71 -25 41	96 15.1 73	89 -5.8 58	102 48 57	93 19.1 57	85 16 45	119 19.3 49	106 -8.0 43	115 -12.1 21	111 30.6 48	97 2 48	89 4 47
JM 233884 95752895 JM233884	2	JM 182639 JM 141747		102 75	109 74	97 57	93 45	105 34	106 51	121 50	111 51	101 -1.34 77	93 0.18 56	107 26 45	109 21.5 74	97 -2.8 57	100 43 59	117 36.5 56	108 97 47	114 16.3 52	114 -13.7 46	103 -8.6 23	108 29.5 48	114 14 51	114 33 49
JM 233888 95752937 JM233888	3	JM 202974 JM 182619		120 73	103 73	101 50	114 36	97 28	119 46	108 43	118 45	112 -2.45 76	123 -1.22 49	86 -4 36	103 18.3 73	101 -1.0 50	110 70 53	98 23.1 52	107 92 40	106 11.0 45	96 -0.8 40	98 -6.9 17	108 29.7 43	107 9 46	109 27 44

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ID Number Name				Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
JM 233894 95752994 JM233894	2	JM 202974 JM 182668		122 72	95 73	96 49	124 37	95 28	113 46	104 44	112 46	117 -2.99 75	111 -0.63 47	76 -19 37	95 14.6 73	96 -2.8 49	106 60 53	97 22.2 52	100 67 41	106 11.3 46	103 -5.4 40	93 -5.6 17	99 26.3 43	97 2 47	97 14 45
JM 233900 95753059 JM233900	3	JM 202974 JM 172311		117 73	91 73	105 50	127 37	85 28	110 46	106 46	110 46	112 -2.54 76	103 -0.28 47	73 -23 37	91 12.5 73	105 0.7 50	114 79 53	94 20.2 52	99 65 43	100 7.0 48	96 -1.1 40	83 -2.5 17	102 27.3 43	105 8 49	104 22 47
JM 233906 95753117 JM233906	1	JM 202934 JM 141719		94 73	114 74	97 52	92 37	87 30	102 47	115 44	105 46	94 -0.69 76	95 0.10 50	108 26 37	114 23.7 74	97 -2.7 52	103 51 54	119 38.0 51	121 138 42	99 6.9 47	87 5.9 40	88 -4.0 20	90 22.7 44	113 13 48	109 28 46
JM 233907 95753125 JM233907		JM 172320 JM 202938		75 73	92 73	105 50	103 42	75 34	76 49	100 48	79 49	78 0.96 76	96 0.06 49	97 12 42	92 12.9 73	105 0.5 50	100 43 55	94 20.3 58	97 59 45	73 -9.6 50	70 17.7 43	77 -0.8 24	79 18.2 46	117 16 50	99 16 49
JM 233909 95753141 JM233909	1	JM 202946 JM 172267		96 74	119 73	99 54	85 41	112 32	112 49	122 45	116 48	96 -0.87 76	94 0.14 51	115 36 41	119 26.1 73	99 -1.9 54	105 56 56	120 39.0 55	116 122 43	106 10.8 47	116 -14.8 42	111 -10.8 22	122 34.9 43	107 9 47	110 28 46
JM 233915 95753208 JM233915		JM 182639 JM 172309		100 74	111 74	92 56	89 44	108 34	102 51	113 46	105 50	98 -1.10 76	100 -0.16 54	111 31 44	111 22.1 74	92 -4.8 56	95 30 58	111 32.7 58	110 104 44	113 15.6 48	106 -8.0 44	108 -9.9 25	107 29.1 47	113 14 47	112 31 46
JM 233923 95958765 JM233923	3	JM 192725 JM 203021		111 73	99 73	78 47	102 39	95 28	90 46	97 42	90 45	105 -1.78 76	119 -1.01 46	98 13 39	99 16.6 73	78 -10.1 47	80 -6 53	97 22.4 54	90 35 40	105 10.6 45	107 -8.5 38	93 -5.5 19	95 24.7 44	89 -4 45	95 12 44
JM 233947 95753232 JM233947	4	JM 213243 JM 213180		107 57	98 72	100 44	98 35	96 24	101 42	93 42	99 42	104 -1.67 59	100 -0.12 41	102 18 35	98 16.1 72	100 -1.3 44	98 39 50	102 26.2 52	101 71 40	108 12.6 46	101 -4.6 33	95 -6.1 14	98 25.7 38	106 8 46	102 20 44
JM 233956 95753349 JM233956	1	JM 213161 JM 213411		117 72	96 72	110 45	104 38	102 26	115 44	98 41	112 43	118 -3.09 75	89 0.38 44	96 10 38	96 15.0 72	110 2.5 45	108 65 52	97 22.5 55	106 89 39	105 10.4 44	105 -7.1 34	101 -8.0 17	116 32.7 39	107 9 44	99 17 43
JM 233957 95753356 JM233957	1	JM 213171 JM 213252		99 71	115 70	94 45	92 37	106 26	108 44	112 37	110 43	97 -0.96 74	103 -0.28 43	108 27 37	115 24.3 70	94 -3.7 45	101 47 51	112 33.5 50	112 109 34	120 20.0 39	92 1.7 34	109 -10.3 17	107 29.2 36	116 15 40	112 32 38
JM 233962 95753398 JM233962	1	JM 213414 JM 213401		119 70	105 70	93 37	111 28	95 20	113 38	107 38	113 38	115 -2.77 74	98 -0.04 35	89 0 28	105 19.4 70	93 -4.3 37	102 50 45	103 26.9 48	103 80 35	104 9.5 41	96 -0.6 31	95 -6.2 9	82 19.4 36	100 4 41	106 24 39
JM 233964 95753414 JM233964	3	JM 213214 JM 213256		114 71	116 71	99 44	97 35	106 24	123 43	121 39	125 42	111 -2.36 74	94 0.12 42	103 19 35	116 24.7 71	99 -1.9 44	109 66 50	117 36.9 50	120 137 36	104 9.5 42	95 -0.4 34	107 -9.8 15	91 23.1 38	109 11 42	112 31 40

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ID Number Name																									
JM 233965 95753422 JM233965	3	JM 213315 JM 213366	119 71	95 71	92 45	107 35	90 22	101 42	107 38	103 41	117 -3.01 74	93 0.18 43	93 6 35	95 14.6 71	92 -4.6 45	92 24 50	97 22.0 49	100 69 34	106 11.1 41	92 2.2 33	89 -4.5 12	102 27.2 37	109 11 41	103 21 39	
JM 233967 95753448 JM233967	3	JM 213217 JM 213407	121 71	96 71	101 46	100 37	110 24	113 43	102 38	111 42	118 -3.05 74	109 -0.57 44	100 15 37	96 15.1 71	101 -0.8 46	99 41 51	97 22.3 48	95 52 36	103 9.2 41	113 -12.5 34	109 -10.4 14	112 31.0 37	88 -5 42	92 8 40	
JM 233969 95753463 JM233969		JM 213239 JM 213234	84 73	117 72	110 56	101 38	96 32	113 48	109 38	113 46	84 0.32 75	105 -0.35 53	99 14 38	117 25.2 72	110 2.7 56	122 100 55	116 36.4 50	113 112 35	112 14.7 41	71 16.6 51	101 -8.0 14	114 31.8 39	124 21 42	117 37 40	
JM 233975 95753521 JM233975	1	JM 213315 JM 213323	111 71	88 71	97 42	100 32	99 24	93 42	103 40	95 42	109 -2.14 74	95 0.09 42	100 15 32	88 11.0 71	97 -2.4 42	89 16 48	87 15.0 50	95 53 37	89 0.2 43	91 2.8 34	100 -7.8 14	97 25.2 38	110 12 43	99 17 41	
JM 233976 95753539 JM233976	3	JM 213194 JM 213248	112 73	98 73	111 44	101 34	104 24	114 43	99 42	111 43	107 -1.95 76	110 -0.61 42	99 14 34	98 15.8 73	111 2.9 44	109 66 50	95 21.1 54	97 58 40	87 -1.1 45	105 -7.0 34	103 -8.6 13	109 29.8 39	86 -6 45	89 4 43	
JM 233981 95753588 JM233981	1	JM 213214 JM 213289	117 71	104 71	100 44	101 35	102 26	116 43	111 40	116 42	113 -2.62 74	99 -0.08 42	99 15 35	104 19.0 71	100 -1.2 44	104 53 50	103 26.5 50	110 104 38	95 4.1 43	100 -3.8 35	102 -8.3 16	99 26.0 39	101 5 43	102 19 41	
JM 244001 97595326 JM244001	2	JM 223444 JM 223512	120 71	117 70	104 40	96 32	94 22	129 40	121 38	130 40	114 -2.68 74	112 -0.68 39	104 20 32	117 25.1 70	104 0.2 40	113 78 47	120 38.7 58	119 132 35	104 9.5 41	94 0.6 32	94 -5.7 13	112 31.2 36	126 23 42	122 43 39	
JM 244008 97595391 JM244008		PDR 210054 JM 223526	100 71	105 70	89 42	95 32	109 24	97 42	105 41	99 42	99 -1.14 74	95 0.09 41	105 22 32	105 19.4 70	89 -5.6 42	92 23 48	104 27.1 58	110 101 39	92 2.5 44	98 -2.3 33	111 -11.0 16	98 25.7 38	116 15 45	99 16 43	
JM 244016 97595474 JM244016	3	JM 203082 JM 223522	101 72	95 72	104 42	110 31	106 21	103 41	115 43	106 41	101 -1.32 75	92 0.25 40	90 1 31	95 14.5 72	104 0.3 42	106 58 48	100 24.4 58	105 84 41	106 11.3 46	112 -12.3 34	104 -8.8 8	98 25.7 41	110 11 46	108 26 44	
JM 244022 97595532 JM244022	2	JM 203082 JM 223446	113 71	97 71	100 40	117 29	98 22	110 40	115 41	112 40	109 -2.21 75	101 -0.21 38	83 -9 29	97 15.4 71	100 -1.3 40	107 62 47	101 25.3 56	110 102 38	98 6.2 44	109 -9.8 33	96 -6.4 10	102 27.3 39	113 14 44	111 30 43	
JM 244033 97595615 JM244033	3	JM 213175 JM 182534	94 73	101 73	103 48	96 35	99 27	97 45	101 45	97 45	93 -0.60 76	96 0.03 46	104 21 35	101 17.3 73	103 -0.1 48	101 47 52	100 24.7 64	103 80 43	125 22.8 48	105 -7.1 36	97 -6.9 18	104 27.9 43	97 2 48	106 24 46	
JM 244035 97595631 JM244035		VHPB633 JM 213294	57 72	120 72	84 46	81 37	71 27	68 45	108 39	75 44	65 2.30 75	81 0.73 44	119 42 37	120 26.5 72	84 -8.0 46	91 20 52	118 37.7 62	108 96 37	115 16.4 41	81 9.5 37	70 1.3 17	98 25.8 42	107 9 42	103 21 40	

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ID Number Name																									
JM 244036 97595649 JM244036	1	JM 213161 JM 172342		86 73	100 73	111 49	104 33	105 29	101 45	86 47	97 45	88 -0.02 76	94 0.15 48	96 10 33	100 16.8 73	111 3.2 49	112 75 52	97 22.7 64	95 52 45	93 3.0 50	102 -4.8 37	105 -9.2 21	109 30.0 45	104 7 51	91 7 49
JM 244041 97595706 JM244041	2	JM 213243 JM 162107		113 73	95 73	118 49	101 31	91 26	115 44	92 48	110 45	109 -2.16 76	105 -0.40 47	99 14 31	95 14.4 73	118 5.7 49	113 77 51	98 22.8 63	103 78 45	113 15.3 51	88 5.0 35	92 -5.2 18	96 25.1 44	115 15 51	106 25 49
JM 244042 97595714 JM244042	1	JM 192843 JM 213420		110 72	122 72	105 46	78 38	109 27	126 45	109 40	124 44	106 -1.91 75	102 -0.22 43	122 47 38	122 27.7 72	105 0.4 46	108 64 52	123 40.8 62	121 139 38	118 18.7 43	94 0.5 37	112 -11.2 17	117 33.2 42	108 10 44	112 32 42
JM 244048 97595771 JM244048		JM 213243 JM 170158		113 71	90 71	92 47	112 25	105 18	97 39	81 39	92 39	107 -1.98 74	116 -0.87 45	88 -1 25	90 11.9 71	92 -4.6 47	91 20 48	90 17.1 60	84 15 36	89 0.6 41	101 -4.1 24	105 -9.2 13	106 29.0 40	90 -3 42	87 2 40
JM 244050 97595797 JM244050	2	JM 192843 JM 213246		74 72	124 72	99 46	86 36	100 26	101 44	112 40	104 43	77 1.09 75	98 -0.04 43	114 35 36	124 28.4 72	99 -1.9 46	108 65 51	122 40.7 63	118 129 37	101 7.6 43	91 2.8 37	102 -8.3 16	111 30.8 41	115 15 42	116 35 40
JM 244056 97595839 JM244056	2	JM 213194 JM 172267		85 73	116 74	108 50	82 36	113 28	108 46	109 43	109 45	85 0.25 76	102 -0.25 48	118 41 36	116 24.5 74	108 1.9 50	109 66 53	120 39.3 64	102 77 41	93 2.7 46	109 -10.3 36	113 -11.5 19	119 34.0 43	98 2 46	98 15 44
JM 244058 97595854 JM244058	1	JM 192834 JM 213406		103 73	103 73	135 49	93 42	115 29	130 47	104 46	127 47	100 -1.23 76	108 -0.52 47	107 25 42	103 18.2 73	135 12.6 49	129 119 55	108 30.5 64	110 104 43	127 23.9 48	113 -12.6 40	115 -12.2 18	110 30.2 43	98 2 49	105 24 47
JM 244061 97595888 JM244061	5	JM 192834 JM 213253		113 73	84 73	122 49	104 40	104 26	111 46	102 45	110 46	110 -2.29 76	95 0.07 47	96 10 40	84 9.0 73	122 7.6 49	111 73 54	93 19.7 64	97 60 42	111 14.1 47	117 -15.7 39	101 -7.9 14	101 27.1 43	96 1 47	100 18 46
JM 244065 97595920 JM244065	4	JM 213204 JM 182540		98 73	110 73	92 46	89 23	98 24	99 41	103 46	99 42	96 -0.84 76	103 -0.28 45	111 31 23	110 22.0 73	92 -4.7 46	95 30 47	104 27.6 62	106 88 43	109 12.9 49	97 -1.6 33	98 -7.0 16	105 28.4 42	95 1 49	97 14 47
JM 244066 97595938 JM244066	1	JM 213161 JM 162193		117 73	85 73	113 50	109 33	99 27	108 45	86 48	103 46	119 -3.25 76	95 0.07 48	91 2 33	85 9.7 73	113 3.8 50	107 61 52	82 11.6 64	95 52 46	108 12.1 51	102 -5.2 35	98 -7.2 19	104 28.1 45	112 13 52	97 14 50
JM 244067 97595946 JM244067	2	JM 213161 JM 172401		103 73	95 73	118 50	100 36	100 28	110 46	96 47	107 46	101 -1.42 76	94 0.12 48	100 15 36	95 14.6 73	118 5.9 50	114 78 53	92 18.6 65	104 83 45	110 13.8 50	106 -7.7 38	99 -7.3 19	119 33.8 45	107 9 51	99 16 49
JM 244068 97595953 JM244068	3	JM 213161 JM 172310		114 73	95 73	111 49	103 36	99 28	113 46	103 46	112 46	112 -2.46 76	90 0.30 48	97 11 36	95 14.6 73	111 3.2 49	109 66 53	94 20.2 64	104 81 43	109 12.8 48	113 -12.7 36	96 -6.5 19	117 32.9 44	107 9 49	103 21 47

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ID Number Name																								
JM 244069 97595961 JM244069	1	JM 213442 JM 192815	100 73	98 73	99 46	102 37	103 26	98 45	97 42	97 44	96 -0.85 76	116 -0.87 44	98 13 37	98 15.9 73	99 -2.0 46	98 39 52	100 24.7 63	93 43 39	83 -3.5 44	98 -1.9 35	104 -8.8 18	109 29.8 40	92 -1 45	97 13 43
JM 244072 97595995 JM244072	1	JM 213161 JM 162157	95 73	93 73	106 51	108 38	101 30	97 47	85 47	93 47	98 -1.05 76	76 0.96 49	92 5 38	93 13.7 73	106 1.2 51	105 57 54	94 20.2 64	94 47 45	98 5.7 50	112 -12.2 39	98 -7.1 22	113 31.7 46	107 9 51	95 12 49
JM 244077 97596043 JM244077		JM 213161 JM 170152	86 71	106 71	122 49	94 28	109 22	113 41	100 42	111 41	88 -0.05 74	88 0.39 46	106 24 28	106 20.0 71	122 7.7 49	122 99 49	104 27.6 62	107 93 39	106 11.0 44	100 -3.6 29	110 -10.7 16	120 34.4 41	113 13 45	107 25 43
JM 244078 97596050 JM244078	2	JM 213161 JM 162181	81 73	91 73	114 50	110 36	100 29	92 46	94 46	91 46	86 0.20 76	79 0.82 49	90 1 36	91 12.5 73	114 4.1 50	112 75 53	93 19.5 64	98 61 44	99 6.6 49	115 -14.4 38	97 -6.8 20	115 32.4 46	106 8 50	98 15 48
JM 244079 97596068 JM244079	2	JM 213161 JM 172287	93 73	104 73	131 49	93 33	99 28	119 45	104 46	117 45	94 -0.70 76	87 0.48 47	107 25 33	104 18.7 73	131 11.0 49	127 112 52	102 26.1 64	109 98 43	107 11.8 48	108 -9.1 36	98 -7.0 19	112 31.3 44	117 16 49	115 35 47
JM 244083 97596100 JM244083	1	JM 213194 JM 172263	102 73	115 74	113 50	88 36	108 28	122 46	106 44	120 46	97 -0.97 76	118 -0.99 48	112 32 36	115 24.0 74	113 3.9 50	115 83 53	116 35.8 64	106 89 41	93 2.9 46	100 -3.7 36	109 -10.4 21	113 31.7 43	103 6 46	99 17 45
JM 244085 97596126 JM244085	1	JM 213194 JM 172277	86 73	123 74	103 49	80 35	107 28	111 46	111 46	112 46	86 0.18 76	104 -0.33 47	120 43 35	123 28.3 74	103 -0.2 49	109 66 53	123 41.3 64	112 110 44	98 5.9 49	94 0.6 35	109 -10.2 21	116 32.8 44	109 11 50	104 22 48
JM 244088 97596159 JM244088	1	JM 213194 JM 162095	92 73	120 74	113 50	81 37	114 28	120 46	108 46	119 46	92 -0.46 76	99 -0.08 48	119 42 37	120 26.6 74	113 3.9 50	115 83 54	119 38.6 64	109 99 43	99 6.7 49	99 -2.8 36	116 -12.5 21	116 32.9 44	105 8 49	106 24 47
JM 244090 97596175 JM244090	2	JM 213175 JM 192900	92 72	105 73	104 47	93 38	101 27	101 45	107 44	102 45	92 -0.46 75	98 -0.07 45	107 25 38	105 19.2 73	104 0.4 47	104 53 53	109 31.2 63	105 85 42	104 9.9 47	102 -5.1 36	101 -8.0 18	111 30.9 42	104 7 47	107 26 46
JM 244092 97596191 JM244092	1	JM 213204 JM 151938	122 73	101 74	90 50	96 35	101 28	107 46	94 44	104 46	118 -3.07 76	114 -0.78 48	104 21 35	101 17.5 74	90 -5.4 50	90 18 53	91 17.7 62	93 46 42	106 11.1 47	99 -2.7 35	102 -8.2 21	125 36.1 44	92 -1 47	94 10 46
JM 244094 97596217 JM244094	2	JM 213204 JM 182629	94 73	101 72	82 47	99 30	91 25	82 43	95 47	83 44	95 -0.76 76	89 0.35 45	101 17 30	101 17.6 72	82 -8.6 47	84 4 50	96 21.9 61	91 38 45	99 6.5 50	90 3.1 33	91 -4.9 17	110 30.3 42	82 -9 51	88 3 49
JM 244104 98663966 JM244104	3	JM 213161 JM 162159	98 60	91 59	119 49	111 36	99 29	107 42	97 43	104 42	100 -1.29 61	79 0.81 48	89 0 36	91 12.5 59	119 6.1 49	117 88 48	93 19.2 50	102 76 40	107 11.4 45	108 -9.3 38	97 -6.8 20	112 31.0 46	112 12 45	105 23 44

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ID Number Name																								
JM 244124 97596480 JM244124	1	JM 192725 JM 203006	112 73	100 74	97 48	91 37	105 28	104 46	103 45	103 46	106 -1.93 76	112 -0.68 47	109 28 37	100 16.8 74	97 -2.5 48	93 27 53	97 22.6 64	101 71 42	118 18.5 47	104 -6.1 37	105 -9.2 20	106 28.8 44	92 -2 48	99 16 46
JM 244125 97596498 JM244125	2	JM 213175 JM 172322	77 73	125 73	108 49	76 38	95 29	106 46	121 44	110 46	83 0.48 76	76 0.99 47	124 50 38	125 28.8 73	108 1.7 49	111 72 53	129 45.8 64	121 142 42	123 21.7 47	94 0.3 38	95 -6.2 20	120 34.4 44	120 19 47	121 43 45
JM 244130 97596530 JM244130	2	JM 213331 JM 182551	114 72	92 72	115 47	110 34	94 27	113 44	103 43	111 44	110 -2.26 75	101 -0.19 45	90 1 34	92 12.9 72	115 4.5 47	113 78 51	95 20.9 62	102 75 41	109 13.0 46	102 -4.8 36	92 -5.3 18	111 30.9 43	102 5 46	101 20 45
JM 244135 97596589 JM244135	3	JM 213331 JM 203072	122 72	87 72	109 47	112 39	103 28	112 46	101 42	110 45	118 -3.15 75	120 -1.08 45	88 -2 39	87 10.5 72	109 2.3 47	106 58 53	83 11.9 64	99 66 40	101 7.7 44	111 -11.2 37	101 -7.8 18	113 31.7 42	96 2 45	99 16 43
JM 244138 97596613 JM244138	5	JM 213442 JM 152009	101 73	85 73	102 48	105 33	86 26	86 44	96 44	87 44	102 -1.47 76	81 0.76 47	95 9 33	85 9.5 73	102 -0.6 48	93 27 51	87 14.9 62	94 48 41	89 0.6 46	101 -4.4 36	84 -2.8 16	96 24.9 44	96 1 47	93 10 45
JM 244139 97596621 JM244139	2	JM 213331 JM 192827	94 72	91 72	108 48	108 35	97 27	95 45	97 44	95 45	96 -0.82 75	87 0.47 46	92 4 35	91 12.7 72	108 1.7 48	105 57 52	92 18.4 62	93 43 41	99 6.6 46	107 -8.5 36	94 -6.0 18	108 29.7 44	92 -2 47	93 9 45
JM 244146 97596688 JM244146	5	JM 213194 JM 151941	82 73	96 74	129 50	89 25	107 25	104 43	93 40	101 42	86 0.19 76	82 0.70 49	111 30 25	96 15.1 74	129 10.1 50	118 89 50	100 24.8 62	95 50 38	90 1.1 43	100 -3.7 35	108 -10.0 15	109 30.1 44	84 -7 44	83 -2 42
JM 244152 97596746 JM244152	4	JM 213175 JM 192833	81 72	97 73	107 46	90 32	80 26	83 44	105 43	87 44	85 0.27 75	83 0.63 44	110 30 32	97 15.5 73	107 1.5 46	100 43 50	101 25.0 62	100 67 41	112 14.8 46	67 19.3 35	83 -2.5 16	111 30.7 42	105 8 46	107 25 45
JM 244159 97596811 JM244159	2	JM 213243 JM 151977	109 73	93 73	125 49	90 29	93 26	112 43	96 45	109 43	108 -2.06 76	89 0.39 47	110 30 29	93 13.3 73	125 8.5 49	112 74 50	96 21.8 61	100 69 42	99 6.8 48	99 -3.0 35	92 -5.4 18	105 28.5 45	111 12 49	109 28 47
JM 244162 97596845 JM244162	4	JM 213175 JM 182601	113 73	96 73	102 48	97 32	95 26	104 44	99 46	103 44	110 -2.29 76	98 -0.06 45	103 19 32	96 14.9 73	102 -0.6 48	98 38 51	97 22.1 63	100 69 43	107 11.9 49	92 2.1 35	95 -6.2 17	111 30.7 42	108 10 49	111 30 47
JM 244163 97596852 JM244163	2	JM 213204 JM 182632	115 73	89 74	77 48	116 32	101 26	87 44	85 44	84 44	122 -3.55 76	107 -0.45 46	84 -7 32	89 11.3 74	77 -10.6 48	77 -15 51	81 11.0 63	79 -4 42	98 5.9 47	102 -5.3 35	100 -7.7 18	112 31.1 44	78 -12 47	82 -3 45
JM 244164 97596860 JM244164	2	JM 213331 JM 203034	108 72	100 72	100 47	101 38	96 26	104 45	107 41	105 44	103 -1.56 75	114 -0.77 45	99 14 38	100 16.8 72	100 -1.6 47	100 44 52	99 23.8 63	97 58 39	104 10.1 44	103 -5.9 36	95 -6.1 16	119 33.8 41	96 1 44	100 18 43

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ID Number Name																									
JM 244184 97597066 JM244184	3	JM 213194	JM 172314	111 73	83 74	102 49	103 34	102 26	94 45	88 43	91 45	124 -3.76 76	96 0.02 47	97 11 34	83 8.8 74	102 -0.7 49	91 22 52	85 14.0 64	83 10 41	101 7.7 46	102 -5.2 35	102 -8.3 18	108 29.8 44	75 -13 46	75 -12 45
JM 244188 97597108 JM244188	1	JM 213175	JM 192755	104 72	108 73	107 47	97 38	98 27	114 45	116 45	116 45	102 -1.52 75	94 0.13 45	103 19 38	108 20.9 73	107 1.6 47	111 72 53	109 30.9 62	113 114 43	115 16.9 48	103 -5.4 36	97 -6.9 18	117 32.9 42	113 14 48	117 37 46
JM 244191 97597132 JM244191	1	JM 192725	JM 213299	93 73	102 73	88 45	92 35	91 28	85 45	107 43	88 45	93 -0.54 76	97 0.00 45	108 27 35	102 18.0 73	88 -6.3 45	87 11 51	104 27.7 64	97 59 41	108 12.1 46	106 -8.0 38	88 -4.0 18	102 27.3 44	94 0 46	103 20 44
JM 244194 97597165 JM244194	1	JM 213442	JM 203021	119 72	84 72	92 43	112 37	98 25	94 44	92 41	92 43	113 -2.62 75	110 -0.60 42	88 -1 37	84 9.0 72	92 -4.7 43	86 9 51	87 15.4 63	85 16 38	80 -5.1 44	106 -7.7 33	96 -6.6 17	101 27.1 41	87 -5 44	87 3 42
JM 244201 97597231 JM244201	2	JM 213161	JM 172304	100 73	102 73	126 48	94 31	94 27	118 44	106 44	117 44	100 -1.26 76	92 0.22 47	106 23 31	102 18.0 73	126 9.1 48	122 100 51	100 24.4 64	111 107 41	105 10.7 46	102 -4.8 36	92 -5.2 18	110 30.4 44	115 15 47	110 28 45
JM 244204 97597264 JM244204	1	JM 213161	JM 172351	85 72	115 73	118 49	88 36	98 29	114 46	109 45	114 46	87 0.06 75	90 0.30 48	112 33 36	115 24.2 73	118 6.0 49	120 96 53	114 34.3 64	116 124 42	109 12.8 47	96 -0.5 37	99 -7.3 21	111 31.0 45	121 19 48	114 34 46
JM 244210 97597322 JM244210	1	JM 213442	JM 192792	106 72	101 73	83 45	103 36	98 24	93 44	102 41	94 43	103 -1.56 75	105 -0.36 43	97 11 36	101 17.5 73	83 -8.1 45	87 10 51	98 23.1 62	97 57 39	90 0.9 44	100 -3.4 32	97 -6.9 17	96 25.0 41	95 0 44	96 13 43
JM 244216 98051857 JM244216	1	JM 213442	JM 202968	98 72	112 73	94 44	91 36	97 25	103 44	112 41	106 43	97 -1.00 75	98 -0.04 42	109 28 36	112 22.8 73	94 -3.6 44	99 41 51	114 34.6 63	108 94 39	97 5.6 44	97 -1.3 33	97 -6.9 17	105 28.6 40	106 8 45	108 27 43
JM 244221 98051907 JM244221		JM 213288	JM 200168	95 69	98 69	108 42	111 23	107 18	105 37	97 34	103 36	91 -0.39 72	116 -0.87 39	89 0 23	98 15.9 69	108 2.0 42	112 75 45	97 22.0 59	96 55 31	88 -0.2 36	106 -7.8 22	107 -9.7 13	121 34.6 35	92 -2 36	94 10 35
JM 244226 98051956 JM244226	1	JM 213161	JM 203017	87 72	103 72	107 44	96 31	92 26	96 43	97 42	95 43	90 -0.26 75	80 0.79 42	104 21 31	103 18.3 72	107 1.2 44	106 59 49	98 23.2 64	102 77 39	107 11.6 44	84 7.7 34	94 -5.9 17	114 31.9 42	111 12 45	102 19 43
JM 254252 99646812 JM254252		C0008	JM 223591	124 73	84 73	79 49	114 35	93 34	87 48	95 42	87 47	116 -2.86 76	118 -0.96 49	86 -4 35	84 9.0 73	79 -9.9 49	74 -22 52	85 13.6 47	88 28 41	93 2.7 45	94 0.5 43	93 -5.5 24	80 18.7 47	94 0 45	88 4 44
JM 254253 99646820 JM254253		642A	JM 223661	85 72	124 73	86 51	91 41	93 32	98 48	127 44	105 47	89 -0.19 75	75 1.00 49	109 28 41	124 28.4 73	86 -7.2 51	99 41 55	125 42.3 50	117 128 42	124 22.2 46	88 4.7 43	94 -5.8 21	97 25.3 45	120 18 44	120 40 43

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ID Number Name																								
JM 254259	E530		77	112	99	97	106	96	104	98	78	108	103	112	99	106	112	101	83	90	109	99	114	106
99646838	JM 223585		72	73	52	41	34	49	44	48	0.98	-0.51	20	22.7	-1.7	59	33.3	73	-3.4	3.2	-10.2	25.9	14	24
JM254259											75	50	41	73	52	55	50	43	47	43	26	44	46	45
JM 254260	11005		93	111	92	84	88	93	100	94	93	100	116	111	92	91	108	99	99	91	88	75	104	100
99646846	JM 223507		70	71	35	27	22	39	26	36	-0.53	-0.16	38	22.1	-4.6	22	30.2	64	6.3	3.1	-4.0	16.6	7	17
JM254260											74	35	27	71	35	44	37	25	29	31	13	33	29	28
JM 254261	11005		106	104	87	107	95	99	100	99	101	113	93	104	87	92	101	93	103	101	93	69	101	98
99646853	JM 172283		71	71	44	33	28	44	30	41	-1.42	-0.74	5	18.8	-6.4	24	25.4	46	8.9	-4.0	-5.7	14.4	5	15
JM254261											74	44	33	71	44	49	38	29	33	34	21	40	33	32
JM 254262	JM 192843	1	106	107	91	99	94	102	103	102	103	100	101	107	91	96	106	104	94	98	93	105	101	104
99638587	JM 223695		72	72	45	35	27	44	42	44	-1.61	-0.16	17	20.2	-5.1	33	28.5	82	3.8	-2.3	-5.5	28.3	5	22
JM254262											75	43	35	72	45	51	46	39	44	38	16	40	44	43
JM 254263	C0008		106	107	80	115	91	98	110	100	102	109	85	107	80	93	104	105	105	88	92	82	109	109
99646861	JM 223461		72	73	47	35	33	47	42	46	-1.49	-0.54	-5	20.1	-9.3	26	27.4	85	10.3	5.0	-5.1	19.5	10	27
JM254263											75	46	35	73	47	52	46	41	45	43	23	46	45	44
JM 254266	DVPD008		105	101	73	98	85	80	103	84	100	116	102	101	73	74	99	100	95	84	86	84	106	99
99646879	JM 223602		73	73	48	36	32	47	44	46	-1.28	-0.89	18	17.1	-12.4	-21	24.0	69	4.4	7.7	-3.4	20.3	9	16
JM254266											76	48	36	73	48	52	48	41	45	44	21	48	45	44
JM 254267		JM 233766	112	85	115	90	68	95	105	96	120	76	110	85	115	98	100	106	78	93	64	73	97	102
99638595			66	67	31	25	18	35	22	32	-3.34	0.99	30	9.4	4.6	39	24.6	89	-6.7	1.1	3.0	16.1	2	20
JM254267											70	29	25	67	31	41	28	21	23	27	10	26	24	23
JM 254268	JM 223647		107	108	91	87	116	104	115	107	103	104	113	108	91	92	107	116	113	103	118	112	118	114
99638603	JM 172324		72	73	49	35	28	45	43	45	-1.60	-0.32	34	20.8	-5.0	22	29.8	125	15.2	-6.0	-12.9	31.2	17	33
JM254268											75	47	35	73	49	52	43	40	46	35	21	40	46	44
JM 254269	DVPD008		98	117	73	93	83	90	110	94	94	121	107	117	73	84	113	116	91	75	85	87	116	108
99646911	JM 223471		73	73	48	35	34	47	42	46	-0.61	-1.10	26	25.3	-12.2	4	33.6	121	1.4	14.3	-3.3	21.6	15	26
JM254269											76	47	35	73	48	52	46	41	45	44	23	47	45	44
JM 254270	C0008		108	95	75	116	95	86	91	85	103	112	84	95	75	80	90	87	97	98	95	74	86	92
99646929	JM 223500		73	73	49	35	34	48	44	47	-1.56	-0.72	-7	14.7	-11.5	-7	16.9	24	5.6	-1.9	-6.1	16.5	-6	8
JM254270											76	49	35	73	49	52	47	42	46	44	24	49	46	45
JM 254271	JM 223647	1	122	103	105	81	109	117	111	117	115	109	119	103	105	98	107	116	124	105	109	106	111	114
99638611	JM 192764		72	73	47	36	28	45	42	44	-2.84	-0.57	42	18.6	0.7	39	29.7	122	22.4	-7.2	-10.3	29.0	12	34
JM254271											75	46	36	73	47	52	40	40	45	35	20	39	46	44
JM 254276	JM 223647	1	94	123	94	87	110	111	124	116	91	116	113	123	94	103	124	119	122	106	111	109	126	124
99638660	JM 192789		72	73	49	41	28	47	40	46	-0.33	-0.90	34	28.0	-3.9	53	41.8	134	21.2	-7.8	-10.9	29.9	23	45
JM254276											75	47	41	73	49	54	41	38	43	37	19	39	44	42

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ID Number Name																								
JM 254277 99638678 JM254277	8	JM 223647 JM 192827	93 72	112 73	96 47	95 34	103 23	103 43	119 42	107 43	95 -0.74 75	85 0.53 45	105 22 34	112 22.7 73	96 -3.2 47	102 49 51	117 36.7 40	115 120 39	121 20.3 45	104 -6.2 35	103 -8.6 11	99 26.2 39	118 17 45	117 37 43
JM 254278 99638686 JM254278	2	JM 223524 JM 192730	104 72	105 73	101 49	84 38	103 27	104 46	97 40	103 45	102 -1.51 75	95 0.07 47	116 38 38	105 19.5 73	101 -0.9 49	97 37 53	100 24.7 38	96 54 38	109 12.7 43	100 -3.9 36	104 -8.7 18	92 23.3 42	93 -1 43	103 21 42
JM 254279 99638694 JM254279	1	JM 223524 JM 192735	72 72	137 73	99 49	72 38	97 28	107 46	123 41	111 45	76 1.15 75	88 0.40 47	128 55 38	137 34.7 73	99 -2.0 49	109 68 53	135 50.1 41	124 152 38	106 10.9 43	88 5.0 36	99 -7.4 21	100 26.4 40	125 22 44	131 53 42
JM 254281 99638702 JM254281	2	JM 223524 JM 172263	104 73	115 73	108 51	81 35	100 28	117 46	109 40	116 45	100 -1.31 76	107 -0.46 49	119 43 35	115 24.2 73	108 1.8 51	108 64 53	112 33.5 44	108 97 38	96 5.1 43	98 -2.3 37	100 -7.8 19	101 27.1 42	112 13 44	115 35 42
JM 254282 99638710 JM254282	2	JM 213194 JM 223520	123 72	101 73	125 44	91 35	114 23	134 43	110 43	132 43	115 -2.84 76	118 -0.95 41	109 28 35	101 17.6 73	125 8.6 44	119 92 51	106 29.1 46	106 88 41	106 11.3 46	111 -11.4 33	114 -11.8 13	109 30.0 37	100 4 47	99 16 45
JM 254283 99638728 JM254283	2	JM 223558 JM 162107	101 73	100 73	115 50	92 33	95 28	108 45	104 46	108 45	99 -1.18 76	100 -0.14 48	108 27 33	100 17.1 73	115 4.5 50	109 67 52	106 28.6 42	112 109 43	116 17.6 49	93 1.1 36	96 -6.4 19	103 27.5 42	116 15 50	107 25 48
JM 254287 99638769 JM254287		JM 233816	103 66	76 67	112 31	90 24	69 18	79 35	100 22	81 32	131 -4.39 70	95 0.08 29	110 30 24	76 5.1 67	112 3.3 31	89 17 41	94 20.4 27	102 76 21	70 -11.7 23	94 0.4 27	66 2.6 9	72 15.6 26	93 -1 23	100 17 22
JM 254289 99638777 JM254289	4	JM 213204 JM 223580	94 72	137 73	92 41	82 25	98 20	119 39	116 45	120 40	92 -0.41 76	109 -0.58 40	118 41 25	137 34.7 73	92 -4.7 41	108 65 46	124 42.2 48	121 142 43	121 20.2 48	83 8.4 33	101 -8.0 8	107 29.2 38	109 10 48	119 39 47
JM 254290 99638785 JM254290		JM 223584 JM 182525	105 72	100 73	79 48	101 33	103 26	89 44	90 42	87 44	101 -1.42 75	104 -0.35 45	99 14 33	100 17.0 73	79 -9.7 48	81 -4 51	97 22.2 40	97 60 40	99 6.9 46	93 1.2 33	105 -9.1 20	105 28.5 40	94 0 47	93 9 45
JM 254292 99638801 JM254292	2	JM 213204 JM 223579	92 71	120 73	98 41	89 30	99 23	108 41	112 45	110 42	93 -0.51 75	93 0.20 39	111 30 30	120 26.5 73	98 -2.3 41	106 60 48	118 37.6 48	109 98 42	120 20.1 47	95 -0.2 34	99 -7.5 12	114 32.1 37	107 9 47	112 31 46
JM 254295 99638835 JM254295	1	JM 223584 JM 151897	88 73	120 73	114 50	78 32	103 28	115 45	113 42	116 44	89 -0.10 76	100 -0.14 48	122 47 32	120 26.5 73	114 4.1 50	114 80 52	116 36.4 39	120 136 38	116 17.6 45	88 5.2 36	106 -9.3 19	104 28.0 41	122 20 46	119 39 43
JM 254300 99638876 JM254300	2	JM 223524 JM 213246	63 72	127 72	112 45	83 27	98 24	105 41	113 38	107 40	69 1.93 75	90 0.33 43	117 40 27	127 30.1 72	112 3.4 45	120 94 48	124 41.5 41	115 120 36	101 7.9 41	86 6.4 34	100 -7.7 13	102 27.2 39	113 14 40	119 39 38

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ID Number Name																								
JM 254301 99638884 JM254301	3	JM 223524 JM 213260	76 72	132 73	98 47	77 37	108 26	108 45	113 39	110 44	77 1.07 75	107 -0.48 44	123 48 37	132 32.5 73	98 -2.0 47	109 66 52	124 41.9 42	111 106 37	109 13.1 42	100 -3.5 35	109 -10.3 17	103 27.7 40	114 14 43	122 43 41
JM 254302 99638892 JM254302	2	JM 223647 JM 172342	87 73	114 73	98 49	92 34	107 28	103 45	108 44	104 45	87 0.10 76	106 -0.42 47	108 27 34	114 23.6 73	98 -2.1 49	104 54 52	112 33.1 44	110 104 41	108 12.1 47	96 -1.0 37	109 -10.4 19	102 27.3 41	114 14 48	109 27 46
JM 254304 99638918 JM254304		JM 233729	106 66	92 67	112 30	91 22	57 18	93 35	111 22	97 32	128 -4.17 70	98 -0.04 29	109 29 22	92 12.9 67	112 3.3 30	100 44 40	103 26.6 26	112 109 21	75 -8.1 23	76 13.5 27	55 5.7 8	71 15.3 26	106 9 24	112 31 23
JM 254305 99638926 JM254305	3	JM 223584 JM 182527	102 73	92 73	88 48	103 33	99 26	86 44	93 39	86 43	100 -1.29 76	101 -0.20 46	97 11 33	92 13.1 73	88 -6.1 48	85 5 51	92 18.7 40	91 39 37	110 13.3 42	96 -1.0 35	99 -7.3 18	91 22.8 41	92 -2 43	88 4 41
JM 254308 99638959 JM254308	5	JM 223524 JM 172287	86 73	122 73	127 50	74 28	99 26	123 43	115 42	124 43	88 -0.02 76	92 0.22 48	126 52 28	122 27.5 73	127 9.3 50	124 106 50	116 36.0 42	114 115 39	108 12.4 45	99 -2.6 36	99 -7.4 15	101 27.0 42	113 13 46	127 48 44
JM 254309 99638967 JM254309	2	JM 213204 JM 223608	115 71	100 73	101 40	99 29	100 20	110 40	102 44	109 41	110 -2.30 75	105 -0.36 38	101 16 29	100 17.0 73	101 -0.9 40	101 46 47	99 23.8 46	99 64 41	111 14.4 46	99 -2.9 32	100 -7.6 9	110 30.5 36	85 -6 47	96 13 45
JM 254311 99638983 JM254311	1	JM 223558 JM 162096	94 73	113 73	103 50	84 37	105 30	108 47	113 44	110 46	95 -0.76 76	91 0.28 49	116 38 37	113 23.4 73	103 -0.1 50	104 54 53	119 38.2 43	119 132 41	106 11.2 47	101 -4.1 38	105 -9.2 22	109 30.2 42	119 18 48	113 32 45
JM 254312 99638991 JM254312	2	JM 223558 JM 182595	96 72	92 58	71 47	104 33	107 26	72 40	96 39	74 40	96 -0.84 75	94 0.14 46	96 10 33	92 13.2 58	71 -13.0 47	69 -34 46	94 20.3 38	96 54 37	91 1.4 42	107 -8.4 34	107 -9.6 17	107 29.3 39	89 -4 43	86 2 41
JM 254314 99639015 JM254314		JM 192725 JM 192842	97 73	109 74	88 49	94 39	94 30	94 47	103 44	96 46	94 -0.61 76	117 -0.92 48	106 25 39	109 21.1 74	88 -6.3 49	92 23 54	106 28.6 46	101 72 42	115 16.9 47	99 -2.7 38	93 -5.7 22	94 24.0 44	100 4 48	108 27 46
JM 254316 99639031 JM254316	1	JM 223584 JM 131524	71 73	115 74	102 51	89 35	99 29	94 46	103 42	95 45	76 1.20 76	87 0.48 49	111 32 35	115 24.4 74	102 -0.8 51	106 60 53	115 35.7 39	111 108 39	111 14.3 45	70 17.4 37	105 -9.1 21	101 26.8 42	111 12 46	105 23 44
JM 254320 99639072 JM254320	1	JM 223584 JM 203052	116 72	103 58	89 45	103 38	106 26	107 41	101 40	106 41	111 -2.38 75	107 -0.48 44	97 10 38	103 18.4 58	89 -5.7 45	94 28 47	100 24.3 42	102 76 37	108 12.5 42	101 -4.1 35	106 -9.5 18	105 28.3 37	106 8 43	101 19 41
JM 254321 99639080 JM254321	2	JM 213194 JM 223463	107 72	113 73	114 41	98 30	115 24	128 42	113 42	128 42	102 -1.52 75	111 -0.66 41	102 19 30	113 23.1 73	114 4.2 41	120 96 48	110 32.0 46	112 111 39	107 12.0 44	110 -10.6 33	115 -12.1 14	117 33.2 37	98 2 45	100 17 43

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ID Number Name																									
JM 254323 99639106 JM254323	1	JM 223584 JM 141736		80 73	117 73	103 51	90 34	99 28	101 45	105 42	102 44	78 0.94 76	119 -1.01 49	110 29 34	117 25.0 73	103 -0.3 51	109 66 53	114 34.5 41	113 111 39	106 10.8 45	85 7.0 37	102 -8.1 20	99 26.2 42	115 14 46	107 25 44
JM 254324 99639114 JM254324	1	JM 192725 JM 192900		86 73	107 74	89 49	94 39	94 28	87 46	103 44	89 46	86 0.17 76	104 -0.35 48	106 23 39	107 20.5 74	89 -5.9 49	92 24 54	105 28.0 46	98 62 42	107 11.7 47	101 -4.2 38	93 -5.5 18	90 22.5 44	93 -1 48	101 19 46
JM 254325 99639122 JM254325	3	JM 192725 JM 172363		109 74	77 74	75 50	104 32	90 29	65 46	83 45	65 46	107 -2.01 77	94 0.14 49	96 9 32	77 5.6 74	75 -11.6 50	62 -54 52	78 8.7 48	73 -22 43	93 2.9 48	121 -18.7 39	83 -2.7 19	76 17.2 46	79 -11 49	81 -4 47
JM 254326 99639130 JM254326	1	JM 223558 JM 213199		87 72	103 72	110 44	87 33	103 25	99 43	110 38	101 42	88 -0.05 75	96 0.03 42	113 34 33	103 18.2 72	110 2.8 44	105 56 50	105 28.0 42	113 111 36	99 6.6 42	90 3.1 34	105 -9.3 16	103 27.8 38	113 13 43	107 25 41
JM 254328 99639155 JM254328	5	JM 223448 JM 162157		107 73	99 73	101 49	110 35	99 26	106 45	100 44	105 45	106 -1.92 76	83 0.62 47	90 1 35	99 16.2 73	101 -1.0 49	105 57 52	99 24.0 42	99 64 40	102 8.8 47	104 -6.4 35	98 -7.2 16	108 29.6 40	110 11 48	104 22 45
JM 254329 99639163 JM254329	4	JM 203082 JM 233855		109 71	86 72	109 41	112 28	103 20	102 40	110 41	104 40	109 -2.15 75	83 0.66 39	88 -2 28	86 9.9 72	109 2.2 41	104 55 47	94 20.2 38	102 76 39	99 6.4 44	123 -19.9 33	99 -7.3 7	108 29.5 38	100 4 45	98 15 43
JM 254330 99639171 JM254330	1	JM 223524 JM 192723		90 72	118 73	95 49	87 38	94 28	102 46	107 42	103 45	92 -0.48 75	82 0.69 47	113 34 38	118 25.8 73	95 -3.5 49	101 47 53	115 35.2 39	107 91 39	97 5.2 45	94 0.7 36	94 -5.9 19	99 26.0 40	110 11 46	115 35 44
JM 254333 99639205 JM254333	3	JM 223448 JM 182629		104 72	106 72	88 46	104 30	91 24	99 42	111 42	101 42	104 -1.66 75	85 0.57 43	96 10 30	106 20.0 72	88 -6.3 46	95 31 49	106 28.5 35	108 96 39	103 9.3 45	85 6.7 32	93 -5.5 15	104 27.9 38	111 12 46	108 26 44
JM 254335 99639221 JM254335	6	JM 213204 JM 223666		108 72	122 73	88 41	96 23	97 19	114 38	106 44	113 39	104 -1.67 76	105 -0.40 39	104 21 23	122 27.4 73	88 -6.4 41	102 48 46	110 32.0 47	105 84 41	113 15.7 46	93 1.2 32	98 -7.0 6	106 28.8 37	93 -1 47	104 22 45
JM 254336 99639239 JM254336	2	JM 223448 JM 162181		114 73	105 73	103 49	107 35	100 26	117 45	114 42	118 44	111 -2.40 76	92 0.24 47	93 5 35	105 19.3 73	103 -0.3 49	110 69 52	107 29.3 42	112 109 40	110 13.7 46	103 -5.9 35	99 -7.5 17	110 30.3 41	116 16 47	115 35 45
JM 254341 99639270 JM254341	3	JM 213204 JM 223660		107 71	101 73	88 39	106 27	89 20	96 39	91 43	94 40	105 -1.81 75	93 0.20 37	94 7 27	101 17.2 73	88 -6.2 39	92 24 46	96 21.6 47	89 32 41	104 9.7 46	93 1.5 32	89 -4.3 8	107 29.1 35	83 -8 46	92 8 45
JM 254344 99639304 JM254344	3	JM 223584 JM 182540		93 72	111 73	96 46	88 28	98 26	99 43	109 40	101 42	92 -0.41 75	106 -0.41 45	112 33 28	111 22.4 73	96 -3.1 46	98 39 49	111 32.5 40	116 122 37	109 13.2 44	90 3.5 34	99 -7.4 17	99 26.1 39	115 15 44	106 25 42

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ID Number Name																								
JM 254345 99639312 JM254345	3	JM 203082 JM 233850	119 71	89 72	101 40	107 29	102 20	105 40	110 42	106 40	116 -2.94 75	91 0.25 38	93 6 29	89 11.5 72	101 -1.0 40	96 34 47	96 21.9 38	105 86 39	94 3.6 44	116 -14.9 32	98 -7.2 9	97 25.3 38	104 7 45	103 21 43
JM 254346 99639320 JM254346	2	JM 223655 JM 213407	105 72	107 72	104 45	100 37	117 25	116 44	110 38	116 43	100 -1.32 75	112 -0.71 43	100 15 37	107 20.3 72	104 0.2 45	109 66 51	109 30.9 42	111 106 35	123 21.5 41	112 -12.1 34	118 -12.9 16	113 31.6 36	108 10 42	106 25 40
JM 254347 99639338 JM254347		JM 233871	112 66	83 67	108 31	90 24	61 18	88 35	103 24	90 33	121 -3.44 70	84 0.61 29	110 29 24	83 8.8 67	108 2.0 31	92 23 41	103 26.8 26	106 89 22	70 -11.6 25	92 2.1 27	56 5.4 9	70 14.8 26	101 5 26	102 20 25
JM 254348 99639346 JM254348		JM 233757	111 66	70 67	118 30	102 24	63 18	86 35	100 24	87 33	122 -3.55 70	85 0.57 28	98 12 24	70 2.5 67	118 5.9 30	97 37 40	92 18.5 26	96 53 23	68 -12.9 25	90 3.4 27	59 4.6 9	72 15.5 26	90 -3 25	97 14 25
JM 254349 99639353 JM254349		JM 223448 JM 170158	112 71	104 71	93 46	108 25	108 16	110 38	102 36	109 38	108 -2.05 74	108 -0.52 44	92 4 25	104 18.6 71	93 -4.1 46	100 45 47	102 25.9 34	98 62 34	101 8.1 39	99 -3.0 22	109 -10.3 10	114 32.0 35	105 7 40	102 20 38
JM 254351 99639379 JM254351	6	JM 213204 JM 223575	110 71	105 73	99 40	92 26	92 18	107 39	101 44	106 40	106 -1.85 75	106 -0.42 38	108 26 26	105 19.5 73	99 -1.7 40	99 42 46	97 22.6 47	99 65 42	108 12.6 47	94 0.9 32	92 -5.3 5	115 32.4 36	87 -5 47	97 13 46
JM 254354 99639403 JM254354	3	JM 192725 JM 172366	119 74	81 74	83 50	106 34	90 29	82 46	89 46	81 46	117 -3.03 77	95 0.11 49	94 6 34	81 7.5 74	83 -8.1 50	74 -23 53	80 10.3 48	83 11 43	101 7.9 48	93 1.2 39	89 -4.4 19	83 20.0 46	83 -8 49	88 3 47
JM 254359 99639445 JM254359	2	JM 213194 JM 223518	97 73	121 73	104 45	81 35	111 25	116 44	106 44	115 44	95 -0.78 76	103 -0.27 43	119 43 35	121 26.9 73	104 0.1 45	108 63 51	119 38.6 48	105 86 41	96 4.9 46	102 -5.0 35	112 -11.3 15	107 29.2 40	99 3 47	102 20 45
JM 254363 99639486 JM254363	5	JM 223647 JM 192826	73 72	129 73	88 48	91 39	112 26	101 45	121 38	106 44	75 1.30 75	106 -0.42 46	109 27 39	129 30.8 73	88 -6.3 48	104 55 53	130 46.0 38	120 137 35	119 18.9 41	105 -6.9 35	113 -11.5 17	108 29.7 38	123 20 42	121 42 40
JM 254365 99639494 JM254365	2	JM 223524 JM 192738	97 72	112 73	113 49	80 38	106 27	114 46	107 41	114 45	96 -0.89 75	97 -0.02 47	120 43 38	112 22.8 73	113 3.8 49	110 69 53	114 34.4 38	106 90 38	105 10.5 44	104 -6.7 36	106 -9.4 18	101 27.1 41	104 7 45	117 37 43
JM 254366 99639502 JM254366		JM 223584 JM 182508	77 72	123 73	84 48	104 35	104 28	97 45	109 42	99 44	80 0.76 75	92 0.25 46	96 10 35	123 28.0 73	84 -7.8 48	103 52 52	115 35.6 40	110 104 39	123 21.9 45	85 7.0 35	107 -9.9 20	113 31.7 39	113 14 46	106 25 44
JM 254367 99639510 JM254367	2	JM 223655 JM 213420	101 72	110 72	114 43	95 34	112 24	120 43	111 38	120 42	99 -1.16 75	100 -0.14 41	105 23 34	110 21.6 72	114 4.1 43	116 85 50	112 32.9 42	119 132 36	129 25.2 41	99 -3.1 34	113 -11.7 14	111 30.8 37	110 11 42	111 30 40

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ID Number Name				Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
JM 254368 99639528 JM254368	1	JM 223584 JM 203035		85 72	120 72	100 47	87 37	111 26	107 44	104 40	106 43	85 0.30 75	105 -0.40 44	113 34 37	120 26.6 72	100 -1.6 47	106 60 52	117 36.6 42	107 93 37	112 14.7 42	91 3.1 34	115 -12.0 18	117 33.0 38	101 5 43	103 20 41
JM 254372 99639569 JM254372	2	JM 223558 JM 182601		100 72	92 73	99 48	104 33	98 28	93 45	97 42	93 44	99 -1.13 75	99 -0.11 46	96 9 33	92 13.2 73	99 -1.7 48	96 34 51	94 20.4 41	98 62 39	98 6.1 45	96 -0.7 36	99 -7.3 19	105 28.4 40	101 5 46	98 15 44
JM 254373 99639577 JM254373	1	JM 213204 JM 223481		105 71	98 72	97 39	114 28	96 21	102 40	98 42	101 40	103 -1.54 75	98 -0.07 36	86 -4 28	98 15.8 72	97 -2.4 39	103 51 46	94 20.0 46	96 56 40	103 9.4 45	92 2.2 32	97 -6.8 10	112 31.0 35	90 -3 46	92 8 44
JM 254374 99646937 JM254374		PDR 200004 JM 213188		88 71	110 71	90 40	103 28	96 24	94 41	89 40	92 41	88 -0.09 74	101 -0.17 40	97 11 28	110 21.7 71	90 -5.5 40	99 41 46	105 27.8 40	96 53 37	95 4.4 42	82 9.2 34	98 -7.1 14	91 23.2 36	98 3 43	95 12 41
JM 254375 99639585 JM254375	3	JM 213204 JM 223635		117 73	101 73	94 42	96 26	99 24	105 41	97 45	103 42	114 -2.65 76	95 0.10 42	104 21 26	101 17.2 73	94 -3.9 42	93 25 47	95 20.5 47	93 44 43	106 11.1 47	106 -8.0 34	98 -7.0 13	106 28.9 40	90 -3 48	102 20 46
JM 254377 99639601 JM254377	3	JM 213204 JM 223467		120 71	109 73	91 38	97 27	91 20	112 39	109 43	112 40	117 -3.05 75	103 -0.28 36	103 20 27	109 21.5 73	91 -5.2 38	96 34 46	108 30.1 46	105 87 41	113 15.7 45	90 3.6 32	92 -5.2 7	110 30.3 35	92 -1 46	102 19 45
JM 254379 99639627 JM254379	1	JM 233749 JM 233752		95 69	107 70	103 38	106 29	100 22	107 40	111 38	108 40	94 -0.63 73	100 -0.14 36	94 7 29	107 20.4 70	103 -0.1 38	111 72 46	106 28.8 37	109 99 36	100 7.4 41	88 5.0 32	102 -8.2 11	103 27.6 35	116 16 42	106 24 40
JM 254381 99639643 JM254381	1	JM 223584 JM 141719		62 73	127 73	102 51	84 34	93 28	96 45	112 40	100 44	65 2.26 76	106 -0.41 49	116 38 34	127 29.9 73	102 -0.6 51	112 74 53	123 41.3 40	120 138 38	112 15.1 44	77 12.7 37	96 -6.4 20	102 27.2 42	121 19 45	113 33 43
JM 254382 99639650 JM254382	2	JM 192725 JM 202922		114 72	92 74	84 48	107 38	97 28	91 46	97 44	91 46	110 -2.27 75	103 -0.26 46	93 6 38	92 12.8 74	84 -7.7 48	83 -1 53	89 16.9 46	87 24 41	105 10.7 46	106 -7.7 37	96 -6.4 18	90 22.6 43	84 -7 47	92 8 45
JM 254383 99639668 JM254383	4	JM 223584 JM 203027		79 72	112 73	94 46	98 38	103 25	93 44	104 38	95 43	79 0.84 75	107 -0.46 44	102 18 38	112 22.9 73	94 -3.9 46	102 48 52	113 33.9 41	104 82 35	106 11.0 41	93 1.0 34	104 -9.0 16	112 31.2 37	108 9 42	105 24 40
JM 254388 99637480 JM254388	6	JM 223448 JM 162217		114 73	106 73	111 48	97 32	98 23	121 43	112 43	121 43	111 -2.41 76	96 0.05 46	103 20 32	106 19.8 73	111 3.0 48	112 75 51	107 29.7 40	118 129 40	121 20.6 47	101 -4.1 34	98 -7.0 12	102 27.1 40	124 21 48	117 37 45
JM 254389 99637498 JM254389	1	JM 223655 JM 202980		99 72	109 73	102 46	93 37	113 24	109 44	106 37	109 43	96 -0.91 75	104 -0.33 44	107 25 37	109 21.1 73	102 -0.8 46	104 54 52	110 31.5 42	110 104 35	120 19.8 40	99 -3.1 33	115 -12.1 16	113 31.4 37	104 7 41	104 22 39

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JM 254390 99637506 JM254390	1	JM 192725 JM 202928	97 73	109 74	81 48	91 39	82 29	86 47	112 44	91 46	97 -0.95 76	93 0.20 47	109 28 39	109 21.1 74	81 -9.0 48	85 5 54	110 31.7 48	104 83 42	111 14.0 47	97 -1.5 38	80 -1.6 20	86 21.2 42	100 4 47	109 28 46		
JM 254392 99637522 JM254392			2	JM 223655 JM 213406	93 72	111 72	119 45	92 38	118 25	120 44	114 42	121 44	92 -0.48 75	103 -0.27 43	108 27 38	111 22.0 72	119 6.2 45	120 95 52	113 33.8 43	119 134 38	129 25.2 44	109 -10.3 34	119 -13.3 16	115 32.5 37	116 16 45	116 36 43
JM 254394 99637548 JM254394			1	JM 192725 JM 172401	91 74	98 74	100 50	95 37	89 30	88 47	97 48	89 47	90 -0.23 77	107 -0.47 49	105 23 37	98 15.9 74	100 -1.5 50	96 33 54	95 20.5 50	95 53 45	116 17.3 50	101 -4.5 40	87 -3.7 21	95 24.6 46	88 -4 51	96 12 49
JM 254395 99637555 JM254395	1	JM 223584 JM 203034	102 72	111 73	91 47	95 38	99 26	103 45	113 38	106 44	98 -1.05 75	112 -0.72 44	105 22 38	111 22.2 73	91 -4.9 47	97 37 53	112 33.1 43	106 90 36	116 17.1 42	93 1.2 35	100 -7.6 17	112 31.3 38	109 11 42	109 28 40		
JM 254396 99637563 JM254396	2	JM 223647 JM 172350	97 73	107 73	102 49	96 35	106 28	105 45	107 42	106 44	96 -0.84 76	99 -0.10 47	104 21 35	107 20.2 73	102 -0.7 49	104 55 52	107 29.3 44	111 107 39	127 24.0 45	99 -2.8 37	107 -9.6 19	96 24.9 41	115 15 45	112 32 43		
JM 254398 99637571 JM254398	2	JM 223558 JM 162133	84 73	97 73	102 50	103 35	104 28	89 46	102 43	91 45	84 0.39 76	106 -0.41 48	97 11 35	97 15.3 73	102 -0.8 50	101 45 53	98 23.1 42	100 68 40	100 7.3 46	96 -0.8 37	105 -9.2 19	99 26.2 43	95 0 47	91 7 45		
JM 254399 99637589 JM254399		JM 223647 JM 172338	97 72	110 73	84 49	95 34	107 28	95 45	112 44	99 45	95 -0.80 75	102 -0.25 47	105 22 34	110 21.8 73	84 -8.0 49	90 18 52	110 31.5 43	109 101 41	106 10.7 46	100 -3.3 35	108 -10.1 21	105 28.5 40	107 9 46	107 26 44		
JM 254402 99637613 JM254402	1	JM 223655 JM 213419	100 72	105 72	97 43	111 34	105 24	106 43	109 40	107 42	97 -0.96 75	111 -0.65 40	89 0 34	105 19.1 72	97 -2.7 43	106 59 50	107 29.3 42	105 85 36	111 14.4 42	97 -1.4 34	106 -9.3 15	109 29.9 36	105 8 42	108 26 39		
JM 254403 99637621 JM254403	1	JM 223584 JM 182520	82 72	121 73	89 48	85 33	100 28	96 45	114 40	99 44	83 0.49 75	100 -0.15 46	115 36 33	121 27.0 73	89 -5.7 48	98 38 51	119 38.4 41	116 122 37	114 16.3 43	84 7.6 36	102 -8.4 20	104 28.2 40	113 13 43	109 27 41		
JM 254404 99637639 JM254404		JM 192725 JM 200168	105 71	98 71	89 45	103 25	96 22	93 40	92 38	92 40	100 -1.26 74	118 -0.96 43	97 12 25	98 15.8 71	89 -5.8 45	90 17 47	94 19.9 40	91 37 36	106 10.7 40	102 -5.0 29	94 -6.0 14	102 27.1 38	87 -5 41	95 11 39		
JM 254405 99637647 JM254405	1	JM 223584 JM 203069	84 72	107 58	108 45	86 37	103 26	98 41	111 40	101 41	85 0.28 75	100 -0.14 44	114 36 37	107 20.3 58	108 1.6 45	105 56 47	108 30.0 41	115 120 37	110 13.6 43	88 5.0 34	106 -9.5 18	99 26.2 37	127 23 43	113 32 41		
JM 254406 99637654 JM254406		JM 233837	114 66	91 67	104 33	95 26	60 20	94 37	106 26	96 35	112 -2.48 70	90 0.32 31	105 23 26	91 12.3 67	104 0.2 33	95 30 42	102 25.7 28	101 71 25	67 -13.7 27	84 7.7 28	57 5.3 11	72 15.4 28	96 1 26	103 21 26		

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ID Number Name																								
JM 254409 99637688 JM254409		JM 233833	101 66	97 67	112 30	88 24	63 18	96 35	114 22	100 32	104 -1.69 70	70 1.24 28	112 33 24	97 15.3 67	112 3.6 30	103 52 40	113 34.2 27	112 111 21	75 -8.3 23	81 9.8 26	61 4.0 9	76 17.0 26	109 11 23	112 31 23
JM 254410 99637696 JM254410	1	JM 223647 JM 172332	82 72	109 73	107 49	100 35	114 28	104 45	119 38	108 44	82 0.52 75	105 -0.35 47	100 16 35	109 21.2 73	107 1.5 49	113 76 52	114 34.8 44	114 115 36	118 18.8 42	107 -8.4 35	114 -11.9 20	109 30.1 40	121 19 43	117 37 40
JM 254413 99637720 JM254413	2	PDR 200004 JM 182611	107 72	90 71	88 46	92 32	97 26	84 43	81 42	81 43	106 -1.91 75	85 0.55 46	108 27 32	90 12.1 71	88 -6.1 46	79 -9 50	89 16.5 40	90 36 39	82 -4.2 45	101 -4.6 35	96 -6.6 18	92 23.2 39	91 -2 45	84 -1 43
JM 254414 99637738 JM254414	2	JM 223448 JM 182621	103 72	113 73	109 46	98 32	99 24	120 43	121 42	122 43	100 -1.27 75	106 -0.44 44	102 18 32	113 23.0 73	109 2.4 46	116 86 50	115 35.5 40	124 150 39	113 15.5 45	89 3.9 33	101 -7.9 16	104 28.2 38	125 22 46	121 41 44
JM 254416 99637753 JM254416	1	JM 223655 JM 182496	85 73	110 73	90 49	108 37	114 27	97 45	108 40	99 44	85 0.22 76	100 -0.13 47	92 4 37	110 21.7 73	90 -5.4 49	101 48 53	109 30.8 41	103 80 37	117 17.8 43	114 -13.5 35	113 -11.5 19	110 30.2 39	106 8 43	105 23 41
JM 254417 99637761 JM254417	2	JM 223655 JM 202953	80 72	125 73	110 47	100 38	108 26	118 45	132 42	124 44	83 0.50 75	89 0.36 45	100 16 38	125 28.9 73	110 2.5 47	126 110 53	126 43.3 44	130 169 39	129 25.2 45	101 -4.5 35	108 -10.1 17	109 30.1 38	132 26 46	130 52 44
JM 254418 99637779 JM254418	1	JM 223558 JM 151972	79 73	109 73	116 50	87 35	98 28	103 46	114 42	106 45	82 0.59 76	94 0.15 49	113 33 35	109 21.4 73	116 5.0 50	114 80 53	110 31.9 38	114 116 39	114 16.3 46	104 -6.2 36	97 -6.7 20	102 27.1 43	117 16 47	118 38 44
JM 254419 99637787 JM254419	3	JM 223647 JM 172310	101 73	112 73	102 49	93 36	101 26	111 45	124 43	115 45	99 -1.12 76	102 -0.24 47	107 26 36	112 22.6 73	102 -0.7 49	106 59 53	116 36.0 44	117 125 40	122 20.8 46	108 -9.5 36	100 -7.6 17	110 30.4 40	115 15 47	118 38 44
JM 254422 99637811 JM254422	3	JM 213204 JM 223643	106 72	90 73	89 42	109 26	96 22	88 40	84 44	85 41	104 -1.72 76	93 0.18 40	91 3 26	90 12.2 73	89 -5.8 42	87 11 47	86 14.3 48	78 -6 42	99 6.8 47	98 -2.5 34	95 -6.2 9	105 28.3 39	72 -15 47	81 -4 46
JM 254423 99637829 JM254423	1	JM 223584 JM 141780	80 73	118 74	93 51	92 37	103 30	97 47	116 44	101 46	81 0.63 76	101 -0.21 49	108 27 37	118 25.7 74	93 -4.4 51	102 48 54	117 36.7 40	111 106 40	119 19.2 47	97 -1.3 38	104 -8.7 21	108 29.4 43	112 12 46	111 30 44
JM 254425 99637845 JM254425		JM 233832	111 66	93 67	109 32	92 26	57 19	96 36	107 25	98 34	124 -3.69 70	94 0.13 30	108 27 26	93 13.5 67	109 2.2 32	99 42 42	105 28.3 28	108 95 24	71 -11.1 26	74 15.0 28	56 5.5 10	73 16.1 27	104 7 25	110 29 25
JM 254426 99637852 JM254426		JM 233784	103 66	86 67	116 31	88 25	62 18	89 35	105 23	91 33	131 -4.43 70	96 0.03 29	112 33 25	86 10.0 67	116 4.9 31	99 41 41	103 27.0 27	108 97 22	77 -7.4 25	74 14.5 27	61 4.1 9	73 16.0 26	100 4 25	109 28 24

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Index EBV Acc	ID Number Name	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
JM 254427	99637860	3	JM 223647 JM 213299	101 72	114 72	94 44	86 34	104 24	107 43	127 39	112 42	100 -1.32 75	94 0.13 43	114 35 34	114 23.8 72	94 -3.8 44	98 38 50	119 38.4 42	121 139 36	116 17.3 42	106 -7.7 34	104 -8.7 15	112 31.0 37	122 20 42	123 44 40
JM 254428	99637878		JM 233789	113 66	87 67	106 31	88 24	69 19	91 36	107 23	94 33	121 -3.37 70	84 0.59 29	112 33 24	87 10.5 67	106 1.1 31	91 21 41	100 24.8 27	106 88 22	69 -11.9 24	81 9.7 27	68 1.8 11	80 18.7 26	95 1 24	100 17 23
JM 254436	99637951	2	JM 213194 JM 223535	107 73	106 73	118 44	90 34	108 24	121 43	111 43	121 43	104 -1.70 76	101 -0.20 43	110 30 34	106 19.6 73	118 5.7 44	114 81 50	109 31.1 46	108 96 41	113 15.3 46	108 -9.5 34	107 -9.8 15	110 30.5 39	107 9 46	104 22 45
JM 254437	99637969	4	JM 213194 JM 223557	91 73	106 73	94 44	102 33	104 21	97 42	95 42	96 42	93 -0.54 76	88 0.39 42	98 12 33	106 20.0 73	94 -3.7 44	100 44 50	106 28.9 46	94 47 40	90 0.8 45	105 -7.0 32	103 -8.6 10	111 30.6 37	89 -4 46	90 6 44
JM 254440	99637993	2	JM 213194 JM 223523	104 73	111 73	98 44	90 35	106 24	110 43	104 42	109 43	103 -1.53 76	97 -0.01 42	110 30 35	111 22.3 73	98 -2.2 44	101 46 51	108 30.4 46	100 69 40	94 3.3 44	103 -5.4 34	106 -9.4 15	108 29.6 38	89 -4 44	92 8 43
JM 254441	99638009	1	JM 223448 JM 162163	98 73	110 73	99 48	106 34	104 26	109 44	107 41	109 43	98 -1.06 76	91 0.27 46	94 7 34	110 21.8 73	99 -2.0 48	109 66 52	107 29.6 40	105 84 38	109 12.8 44	94 0.7 34	106 -9.4 18	101 26.9 41	110 12 45	109 28 43
JM 254445	99638033	2	JM 213194 JM 223464	120 72	104 73	107 43	98 34	110 23	123 42	111 42	122 42	119 -3.18 75	108 -0.53 41	102 18 34	104 19.0 73	107 1.3 43	108 64 50	105 28.1 46	104 81 39	104 9.8 44	109 -10.0 32	110 -10.7 14	119 33.9 37	91 -2 45	94 10 43
JM 254451	99638090	2	JM 223655 JM 182479	77 72	112 73	107 48	101 36	104 28	103 45	110 42	105 44	79 0.86 75	101 -0.18 46	99 14 36	112 22.8 73	107 1.4 48	115 83 52	116 36.0 42	110 103 39	117 17.8 45	101 -4.2 37	104 -8.8 19	113 31.5 39	112 12 46	112 32 43
JM 254452	99638108	3	JM 213204 JM 223598	111 72	107 73	94 42	88 29	99 24	106 42	105 44	106 42	109 -2.19 76	93 0.19 41	112 32 29	107 20.5 73	94 -3.7 42	94 30 48	107 29.4 47	103 79 42	118 18.9 47	109 -9.7 34	96 -6.6 14	113 31.4 38	102 5 47	104 22 45
JM 254455	99638132	1	JM 223655 JM 202935	100 72	106 73	99 46	100 34	96 26	104 44	115 42	107 44	98 -1.09 75	98 -0.04 44	100 15 34	106 20.0 73	99 -1.9 46	103 52 51	109 30.9 43	112 111 39	115 16.5 44	87 5.8 35	98 -7.1 18	100 26.5 37	116 15 45	115 34 43
JM 254456	99638140	1	JM 213194 JM 223688	115 72	104 73	106 43	102 34	103 24	118 43	102 43	116 43	110 -2.26 76	106 -0.41 41	98 13 34	104 18.7 73	106 1.1 43	109 67 50	104 27.3 46	101 71 41	94 3.3 46	103 -6.0 33	103 -8.5 15	114 32.0 37	97 2 47	96 13 45
JM 254461	99638199		JM 233882	75 66	106 67	118 31	79 24	64 19	90 36	107 22	93 33	81 0.63 70	75 1.03 29	121 46 24	106 19.9 67	118 5.9 31	110 69 41	120 38.7 26	111 107 21	80 -5.1 23	80 10.6 27	62 3.8 11	77 17.7 26	102 5 24	108 27 23

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ID Number Name																									
JM 254463 99638215 JM254463	1	JM 192725 JM 172423		81 74	98 74	106 51	99 36	91 31	88 47	100 46	89 47	82 0.53 77	98 -0.05 49	101 17 36	98 16.2 74	106 0.9 51	104 53 54	97 22.0 50	95 52 44	116 17.1 49	98 -2.5 41	90 -4.6 21	85 20.7 46	105 8 49	107 26 48
JM 254464 99638223 JM254464	2	JM 223655 JM 202968		97 72	112 73	97 47	98 38	108 26	108 45	119 38	111 44	95 -0.76 75	103 -0.29 45	102 19 38	112 22.8 73	97 -2.5 47	105 55 53	117 36.5 44	115 118 36	121 20.3 41	109 -10.0 35	108 -9.9 17	114 31.9 38	116 16 42	114 34 40
JM 254465 99638231 JM254465	2	JM 192725 JM 172421		89 74	104 74	81 50	97 34	88 29	80 46	105 46	84 46	88 -0.10 77	105 -0.35 49	103 20 34	104 19.0 74	81 -8.9 50	84 4 53	98 22.7 48	96 54 44	116 17.1 49	97 -1.4 38	87 -3.7 20	78 17.9 46	99 3 49	104 22 48
JM 254468 99638264 JM254468	2	JM 223448 JM 213208		98 72	112 72	95 43	106 36	96 23	107 43	112 38	109 42	97 -1.00 75	94 0.14 41	94 7 36	112 22.7 72	95 -3.5 43	107 61 50	108 30.4 40	108 97 36	112 15.1 42	99 -3.2 32	96 -6.4 14	106 28.9 36	108 10 42	111 30 40
JM 254471 99638298 JM254471	1	JM 223584 JM 182565		99 73	105 73	100 48	88 33	98 28	100 45	96 42	99 44	97 -0.94 76	107 -0.47 46	112 33 33	105 19.4 73	100 -1.5 48	97 37 51	103 26.9 41	103 77 39	108 12.1 45	90 3.2 36	99 -7.3 19	101 26.7 40	107 9 46	101 18 43
JM 254473 99638314 JM254473	1	JM 223647 JM 213294		63 72	129 72	98 44	80 34	94 26	95 43	129 38	103 42	70 1.79 75	82 0.69 42	120 44 34	129 30.8 72	98 -2.2 44	108 63 50	134 49.0 42	127 162 35	129 25.2 41	87 5.5 35	96 -6.4 16	115 32.4 37	131 26 41	127 48 39
JM 254474 99638322 JM254474	3	JM 223448 JM 182632		114 72	93 73	88 47	124 32	101 25	101 43	97 39	99 42	110 -2.27 75	103 -0.27 44	76 -18 32	93 13.6 73	88 -6.1 47	96 33 51	92 18.8 39	90 36 36	98 6.1 42	100 -3.4 34	101 -7.9 16	104 27.9 40	102 5 42	97 14 40
JM 254479 99638363 JM254479	4	JM 223558 JM 213197		92 72	105 72	95 45	102 36	96 24	96 43	113 38	99 42	92 -0.48 75	97 -0.01 43	98 12 36	105 19.3 72	95 -3.5 45	100 43 51	111 32.4 41	113 112 35	100 7.1 41	101 -4.4 33	95 -6.3 15	104 28.1 37	107 9 41	103 20 38
JM 254481 99638389 JM254481	2	JM 192725 JM 172415		107 74	94 74	88 51	101 34	91 30	89 47	92 48	88 47	104 -1.64 77	105 -0.38 49	99 13 34	94 14.0 74	88 -6.1 51	86 7 53	89 16.4 50	87 24 45	109 12.9 50	94 0.7 40	90 -4.7 21	85 20.5 47	89 -4 50	98 15 49
JM 254482 99646945 JM254482	4	JM 223448 JM 213218		100 72	106 72	95 43	106 35	96 21	103 42	114 38	106 41	100 -1.28 75	87 0.47 41	94 7 35	106 19.9 72	95 -3.3 43	103 51 50	108 30.4 40	104 84 35	110 13.9 41	98 -2.0 31	96 -6.3 11	106 28.6 35	108 10 40	107 25 38
JM 254484 99638405 JM254484	1	JM 223569 JM 202963		112 70	100 71	107 45	111 36	98 26	115 44	109 40	115 43	109 -2.18 73	96 0.04 44	89 0 36	100 17.0 71	107 1.3 45	112 75 51	105 28.1 42	107 92 37	103 9.0 42	104 -6.7 35	97 -6.8 17	92 23.2 36	102 6 43	109 28 41
JM 254486 99638421 JM254486	1	JM 213204 JM 182609		106 72	96 74	87 47	101 30	101 25	91 43	81 48	87 44	103 -1.62 75	98 -0.04 45	99 14 30	96 15.0 74	87 -6.6 47	86 8 50	89 16.2 46	84 13 45	103 9.3 50	111 -11.3 33	99 -7.3 17	105 28.4 40	70 -17 51	81 -4 49

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ID Number Name																								
JM 254487 99638439 JM254487		PDR 200004 JM 182663	104 71	102 71	99 46	87 31	99 28	99 44	90 40	96 43	104 -1.72 74	80 0.79 46	113 34 31	102 17.8 71	99 -2.0 46	94 29 49	100 24.2 38	96 54 37	96 4.6 42	98 -2.5 35	99 -7.2 21	89 22.0 39	92 -2 43	94 10 41
JM 254491 99638470 JM254491		JM 213194 JM 223525	108 72	87 73	104 41	99 29	102 24	95 42	87 42	92 42	105 -1.74 75	102 -0.24 41	101 17 29	87 10.4 73	104 0.2 41	94 28 48	88 15.8 46	83 10 40	76 -7.9 44	101 -4.0 33	102 -8.2 16	106 28.8 38	82 -8 45	74 -12 43
JM 254493 99638496 JM254493	1	JM 223655 JM 182482	111 72	89 73	86 49	115 37	108 27	92 45	90 40	90 44	106 -1.93 75	107 -0.45 46	85 -6 37	89 11.4 73	86 -7.0 49	86 8 53	89 16.6 40	86 20 38	100 7.5 43	121 -18.2 35	105 -9.1 19	102 27.2 40	89 -4 44	87 2 42
JM 254494 99638504 JM254494	1	JM 223524 JM 192706	76 71	118 73	94 48	79 34	86 26	89 44	100 39	90 43	79 0.85 74	90 0.30 46	121 45 34	118 25.8 73	94 -3.7 48	98 38 52	113 34.0 36	97 58 36	103 9.2 42	93 1.0 35	85 -3.0 18	91 23.0 41	94 0 42	103 21 41
JM 254498 99638546 JM254498	1	JM 192725 JM 192833	86 73	89 74	93 48	96 34	71 28	69 45	97 43	72 45	89 -0.14 76	86 0.49 47	104 21 34	89 11.4 74	93 -4.1 48	84 4 52	91 17.7 44	85 19 41	109 13.1 46	69 18.0 38	73 0.4 19	87 21.4 44	88 -4 46	94 10 45
JM 254500 6020327125 JM254500	3	JM 223448 JM 182652	102 72	115 58	92 45	100 27	97 23	108 38	122 38	112 38	100 -1.23 75	101 -0.18 43	100 15 27	115 24.0 58	92 -4.5 45	103 52 43	114 34.4 36	121 140 35	110 13.5 41	94 1.0 32	98 -6.9 14	103 27.6 36	122 20 42	117 37 40

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	JM 244002	JM244002	PDR 210054	JM 223520	0.6	102 71	134 70	100 42	79 31	113 22	130 41	134 65	134 46
2	JM 244195	JM244195	JM 213161	JM 180164	0.0	106 71	111 71	125 47	90 24	108 20	130 39	99 65	126 44
					★★★★★								
1	JM 233778	JM233778	JM 182639	JM 192809	1.5	115 74	114 74	97 55	96 47	105 34	120 51	128 68	124 54
					★★★★★								
1	JM 162123	GAME CHANGER	642A	JM 070033	0.0	103 95	103 95	102 84	111 75	110 61	111 77	127 85	116 79
2	JM 233715	JM233715	JM 203082	JM 151977	3.6	96 73	103 74	127 50	83 31	101 26	115 44	126 66	119 48
3	JM 233798	JM233798	JM 202974	JM 182621	1.8	115 73	111 73	101 51	100 36	95 28	119 46	115 66	120 50
4	JM 233847	JM233847	JM 182569	JM 182665	2.0	111 74	112 74	93 54	102 43	85 33	111 50	115 66	113 53
5	JM 233973	JM233973	JM 213204	JM 213352	3.1	104 72	120 73	94 43	88 33	100 23	113 42	104 66	112 47
6	JM 244031	JM244031	JM 213194	JM 151911	2.9	99 73	104 74	117 50	98 34	91 27	113 45	105 66	112 49
7	JM 244034	JM244034	JM 213175	JM 192828	1.6	98 72	112 73	115 47	74 40	107 28	115 46	120 66	118 50
8	JM 244038	JM244038	JM 213194	JM 172259	0.6	106 73	111 74	102 49	89 33	109 27	114 45	103 66	113 49
9	JM 244044	JM244044	JM 192843	JM 213419	0.5	102 72	124 72	86 45	89 38	103 28	111 45	107 64	111 49
10	JM 244059	JM244059	JM 213243	JM 162096	0.9	92 73	114 73	107 49	90 35	101 29	110 46	103 66	109 50
11	JM 244081	JM244081	JM 213204	JM 151972	0.9	90 73	117 74	112 50	83 34	96 28	113 46	124 66	117 50
12	JM 244084	JM244084	JM 213194	JM 162145	1.8	116 73	98 74	101 50	97 37	116 26	111 45	107 66	111 49
13	JM 244087	JM244087	JM 213194	JM 162133	0.9	101 73	109 74	109 50	93 35	111 29	116 46	110 66	116 50
14	JM 244122	JM244122	JM 192834	JM 213180	4.7	116 73	87 73	117 49	100 40	100 26	110 46	93 66	106 50
15	JM 244128	JM244128	JM 213204	JM 182621	2.6	103 73	113 74	101 47	88 30	99 26	110 44	121 66	114 48
16	JM 244167	JM244167	JM 213175	JM 192764	1.6	112 72	107 72	110 46	75 35	104 26	115 44	102 66	113 48
17	JM 244172	JM244172	JM 213175	JM 192738	1.9	114 72	101 73	108 47	84 38	103 26	111 45	101 65	110 49
18	JM 244203	JM244203	JM 213194	JM 141719	1.4	99 74	110 74	111 51	85 33	100 28	113 46	100 65	110 50
					★★★★								

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	JM 182569	INHERITANCE	JM 141710	JM 141718	1.9	104 ₉₃	104 ₉₃	101 ₇₇	101 ₆₆	81 ₅₂	103 ₇₀	107 ₈₂	104 ₇₂	
2	JM 213204	JM213204	JM 172278	JM 172310	1.0	109 ₈₉	116 ₉₂	87 ₅₃	88 ₄₁	96 ₃₂	107 ₅₄	105 ₇₈	107 ₅₉	
3	JM 233723	JM233723	JM 202946	JM 162097	1.1	80 ₇₃	107 ₇₃	110 ₅₃	99 ₃₉	110 ₃₂	103 ₄₈	125 ₆₆	109 ₅₂	
4	JM 233730	JM233730	JM 202946	JM 182540	1.6	101 ₇₃	109 ₇₃	101 ₅₁	92 ₃₆	105 ₃₀	108 ₄₇	112 ₆₆	110 ₅₁	
5	JM 233754	JM233754	JM 202946	JM 172277	1.3	78 ₇₄	120 ₇₃	100 ₅₃	88 ₄₀	104 ₃₁	102 ₄₈	127 ₆₆	109 ₅₂	
6	JM 233786	JM233786	JM 192834	JM 162157	2.2	95 ₇₄	91 ₇₄	116 ₅₄	107 ₄₀	103 ₃₀	102 ₄₈	101 ₆₇	102 ₅₂	
7	JM 233881	JM233881	JM 202974	JM 172421	1.7	107 ₇₃	103 ₇₃	90 ₅₂	111 ₃₆	93 ₂₈	102 ₄₆	119 ₆₆	106 ₅₀	
8	JM 244003	JM244003	JM 223444	JM 223513	0.2	101 ₇₁	107 ₇₀	103 ₄₁	95 ₃₃	96 ₂₄	107 ₄₂	127 ₆₄	113 ₄₆	
9	JM 244006	JM244006	PDR 210054	JM 223688	2.2	112 ₇₁	114 ₇₀	84 ₄₁	98 ₃₀	100 ₂₀	108 ₃₉	110 ₆₅	109 ₄₄	
10	JM 244013	JM244013	JM 223615	JM 223551	2.5	122 ₇₁	81 ₇₀	116 ₄₃	99 ₃₃	102 ₂₂	107 ₄₁	96 ₆₅	105 ₄₆	
11	JM 244054	JM244054	JM 213243	JM 170161	0.0	103 ₅₂	94 ₅₂	104 ₄₄	109 ₂₀	102 ₁₈	102 ₃₂	90 ₆₄	99 ₃₈	
12	JM 244055	JM244055	JM 213175	JM 182566	2.2	97 ₇₃	112 ₇₃	107 ₄₇	76 ₃₁	93 ₂₈	107 ₄₄	104 ₆₅	106 ₄₈	
13	JM 244070	JM244070	JM 213204	JM 182593	2.3	118 ₇₃	104 ₇₃	86 ₄₆	94 ₂₉	95 ₂₆	102 ₄₃	97 ₆₆	100 ₄₈	
14	JM 244071	JM244071	JM 213161	JM 170153	0.0	85 ₇₁	106 ₇₁	115 ₄₈	99 ₂₃	107 ₁₈	108 ₃₉	101 ₆₅	107 ₄₄	
15	JM 244101	JM244101	JM 213204	JM 141736	1.7	106 ₇₄	100 ₇₄	99 ₅₀	94 ₃₂	98 ₂₆	101 ₄₄	94 ₆₆	99 ₄₈	
16	JM 244112	JM244112	JM 213175	JM 182479	2.1	76 ₇₃	125 ₇₃	106 ₄₈	80 ₃₆	97 ₂₈	107 ₄₅	105 ₆₆	107 ₄₉	
17	JM 244114	JM244114	JM 213175	JM 182591	3.5	101 ₇₃	98 ₇₃	110 ₄₈	97 ₃₃	89 ₂₈	103 ₄₅	94 ₆₆	101 ₄₉	
18	JM 244118	JM244118	JM 213204	JM 192707	0.6	101 ₇₃	116 ₇₄	87 ₄₈	97 ₃₉	98 ₂₈	104 ₄₆	117 ₆₆	108 ₅₀	
19	JM 244150	JM244150	JM 213288	JM 213423	0.8	102 ₇₁	96 ₇₁	106 ₄₄	106 ₃₆	113 ₂₄	106 ₄₃	116 ₆₅	109 ₄₇	
20	JM 244151	JM244151	JM 213194	JM 172352	1.8	99 ₇₂	100 ₇₄	107 ₄₉	85 ₃₅	119 ₂₆	104 ₄₅	113 ₆₅	107 ₄₉	
21	JM 244166	JM244166	JM 213161	JM 180165	0.0	93 ₇₁	98 ₇₁	110 ₄₇	101 ₂₃	107 ₁₈	102 ₃₈	82 ₆₅	97 ₄₃	
22	JM 244175	JM244175	JM 213204	JM 172415	1.4	113 ₇₃	101 ₇₄	94 ₄₉	99 ₃₃	100 ₂₈	105 ₄₅	97 ₆₆	103 ₄₉	
23	JM 244178	JM244178	JM 213442	JM 192809	1.7	123 ₇₃	97 ₇₃	96 ₄₅	94 ₃₅	98 ₂₅	107 ₄₄	113 ₆₆	109 ₄₈	
24	PDR 230003	PDR230003	JM 162123	PDR 160017	0.0	111 ₇₀	94 ₆₉	98 ₅₃	112 ₃₇	113 ₃₂	105 ₄₇	101 ₄₆	105 ₄₇	
						★★★								
1	JM 213288	JM213288	JM 182489	JM 121333	0.4	75 ₈₁	102 ₈₁	114 ₅₁	104 ₃₈	100 ₃₂	98 ₅₀	114 ₆₈	101 ₅₄	
2	JM 223571	JM223571	JM 182569	JM 172277	1.6	100 ₇₅	100 ₇₄	95 ₅₆	92 ₄₄	90 ₃₄	91 ₅₁	108 ₅₀	94 ₅₁	

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	
					★★★★								
3	JM 223588	JM223588	JM 141806	JM 182593	1.1	103 75	113 61	82 57	93 39	95 36	97 47	102 50	98 48
4	JM 233806	JM233806	JM 172320	JM 202953	0.1	89 74	91 74	115 52	107 44	98 34	97 50	119 67	102 53
5	JM 240008	JM240008		JM 223598	0.0	106 66	97 38	109 33	79 26	63 22	95 30	110 25	98 29
6	JM 244052	JM244052	JM 213194	JM 172319	1.8	92 73	105 74	99 49	86 34	100 26	94 45	98 66	94 49
7	JM 244076	JM244076	JM 213204	JM 172366	1.9	111 73	98 74	90 48	101 32	100 26	98 44	96 66	97 48
8	JM 244089	JM244089	JM 213175	JM 182580	1.8	81 72	110 72	104 47	90 34	97 28	97 45	120 66	103 49
9	JM 244095	JM244095	JM 213442	JM 182496	0.5	93 73	110 73	85 46	98 36	103 26	94 44	97 65	93 48
10	JM 244096	JM244096	JM 213204	JM 182482	2.3	117 73	105 74	76 48	99 35	103 26	98 45	81 65	93 49
11	JM 244103	JM244103	JM 213442	JM 202986	0.9	117 72	81 72	106 43	96 36	105 24	98 43	98 65	97 47
12	JM 244120	JM244120	JM 192708	JM 213174	0.5	95 73	105 73	89 46	96 37	95 30	91 46	106 65	94 50
13	JM 244129	JM244129	JM 213204	JM 182669	1.1	116 73	96 73	81 47	96 31	105 24	92 43	108 66	95 48
14	JM 244171	JM244171	JM 192725	JM 213192	2.4	95 73	113 73	93 43	88 32	91 27	98 44	110 66	101 48
15	JM 244185	JM244185	JM 213175	JM 182538	2.9	99 72	92 73	103 47	100 33	92 28	92 45	85 66	89 49
16	PDR 200004	PDR200004	JM 172275	PDR 160001	0.0	99 76	107 76	79 48	98 24	104 28	90 44	100 65	91 48
						★★							
1	JM 240005	JM240005	JM 192708	JM 213321	0.9	114 73	92 58	82 40	106 31	90 27	88 39	102 43	90 40
2	JM 240009	JM240009		JM 223539	0.0	107 66	94 37	107 25	75 15	60 18	89 25	108 21	92 24
3	PDR 230047	PDR230047	JM 141806	PDR 160006	0.0	81 72	114 70	82 53	97 33	105 30	89 46	106 64	91 50
						★★							
1	JM 192725	JAMESON	VHPB633	JM 080135	0.0	93 92	101 94	76 59	90 45	77 40	71 59	103 76	76 62
2	JM 240003	JM240003		JM 223525	0.0	97 66	91 37	100 31	84 21	60 19	78 28	97 20	80 26
3	JM 244126	JM244126	JM 192725	JM 213337	1.0	88 73	104 73	80 45	93 34	77 28	76 45	112 66	82 49
						★							
1	JM 223530	JM223530	JM 172320	JM 172317	0.0	67 74	89 74	92 55	93 42	109 34	63 50	95 46	66 49

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	JM 202953	JM202953	JM 162123	JM 172351	1.5	11081	11180	12177	10467	10548	13365	12958	13664
2	JM 203006	JM203006	BG 170036	JM 172332	0.4	12280	9779	12277	9559	13345	13262	10050	12760
3	JM 213406	JM213406	BG 170036	JM 192828	0.7	11579	10277	13874	8268	12746	13863	9954	13261
4	JM 213420	JM213420	BG 170036	JM 192913	0.7	11977	9675	13068	9159	11442	13059	8944	12256
5	JM 223520	JM223520	JM 192834	JM 192789	2.0	12277	9577	13368	9657	11540	13558	11250	13356
6	JM 244058	JM244058	JM 192834	JM 213406	1.2	10373	10373	13549	9342	11529	13047	10446	12747
					★★★★★								
1	JM 172287	JM172287	JM 141710	JM 141841	1.1	8883	10681	14682	8556	9950	12765	10758	12564
2	JM 172304	JM172304	JM 141710	JM 141693	2.9	9482	11280	13680	8452	8848	12763	11650	12760
3	JM 182507	JM182507	JM 141710	JM 151938	0.8	12482	9580	11181	10860	10049	12065	10352	11862
4	JM 192868	JM192868	JM 162123	JM 162186	1.5	11881	10580	10879	12067	10248	12865	10858	12664
5	JM 202995	JM202995	BG 170036	JM 170156	0.0	12279	9677	11676	10465	12542	12862	10358	12461
6	JM 213192	JM213192	JM 162123	JM 172262	0.9	10676	10775	11564	9652	10543	12057	11255	12057
7	JM 213410	JM213410	JM 192770	JM 192713	1.1	11676	10875	11667	9555	9540	12657	12141	12854
8	JM 223452	JM223452	JM 202976	JM 202954	0.9	11775	10272	11358	11046	10036	12552	11042	12350
9	JM 223468	JM223468	JM 202976	JM 203104	1.2	11775	11173	11161	9849	10338	12954	11642	12852
10	JM 223512	JM223512	JM 192843	JM 182619	2.0	12276	10375	10867	9456	10840	12357	10641	12154
11	JM 223551	JM223551	JM 192834	JM 192828	0.7	11777	8376	13967	9357	11240	12358	9754	11957
12	JM 223652	JM223652	JM 192834	JM 192868	2.3	11176	9775	12561	11548	10036	12653	10748	12452
13	JM 233729	JM233729	JM 202974	JM 172304	2.8	10975	11674	11161	10144	9034	12651	11844	12750
14	JM 233866	JM233866	JM 202974	JM 182507	1.9	11773	10973	10051	11038	9429	12047	11345	12147
15	JM 233964	JM233964	JM 213214	JM 213256	3.0	11471	11671	9944	9735	10624	12343	12139	12542
16	JM 244001	JM244001	JM 223444	JM 223512	1.5	12071	11770	10440	9632	9422	12940	12138	13040
17	JM 244042	JM244042	JM 192843	JM 213420	0.8	11072	12272	10546	7838	10927	12645	10940	12444
18	JM 244083	JM244083	JM 213194	JM 172263	0.8	10273	11574	11350	8836	10828	12246	10644	12046
19	JM 244088	JM244088	JM 213194	JM 162095	1.0	9273	12074	11350	8137	11428	12046	10846	11946

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	JM 121460	JM121460	JM 070051	JM 070054	0.1	11086	8284	13787	8659	10155	11269	10458	11167
2	JM 162095	JM162095	E530	JM 131522	0.0	9484	10882	11285	8364	11452	11068	10358	10966
3	JM 162096	JM162096	E530	JM 121439	0.0	7584	12082	11885	7863	10952	11068	10861	11167
4	JM 162107	JM162107	BL 120069	JM 131525	1.2	10784	9182	13784	9455	8949	11965	8968	11366
5	JM 172263	JM172263	E530	JM 141736	0.0	9683	11382	10883	9063	10452	11367	10449	11263
6	JM 172310	JM172310	JM 141710	JM 141742	2.2	11584	10482	10783	10063	10049	11866	11360	11865
7	JM 172322	JM172322	642A	JM 070033	0.0	9084	12082	11084	7468	9754	11169	12354	11566
8	JM 172351	JM172351	JM 121474	JM 121376	2.0	9780	10882	12381	8160	9650	11666	11156	11664
9	JM 172423	JM172423	JM 121398	JM 070112	0.3	9684	8782	13383	11059	10552	11267	9554	10964
10	JM 182619	JM182619	JM 141710	JM 151889	1.5	11782	8779	11279	11455	10650	11164	9644	10860
11	JM 182621	JM182621	JM 151952	JM 141699	0.0	10581	10080	11480	9453	10048	11163	11056	11262
12	JM 192738	JM192738	BL 150081	JM 162095	0.9	10781	9480	11879	9466	11446	11265	9550	10962
13	JM 192764	JM192764	JM 131650	JM 100118	0.0	11980	8678	12077	8060	11447	11163	8356	10462
14	JM 192809	JM192809	JM 162110	JM 111279	0.9	10881	10680	10080	9267	11048	11166	10859	11165
15	JM 192815	JM192815	JM 162110	JM 151889	0.4	10182	11181	9581	9771	12252	11168	9845	10963
16	JM 192828	JM192828	JM 131650	JM 100108	0.0	11480	8879	13080	8270	11950	11867	9160	11366
17	JM 192842	JM192842	JM 162110	JM 131545	0.5	10981	10680	10180	9968	11149	11466	10151	11263
18	JM 202959	JM202959	BL 140061	JM 172342	1.0	11878	9476	9666	12052	10946	11059	9652	10758
19	JM 202968	JM202968	JM 162110	JM 172322	0.1	10180	12779	9277	8268	11048	11765	12146	12061
20	JM 202980	JM202980	BG 170036	JM 170151	0.0	12179	9477	10576	8664	11742	11161	8140	10457
21	JM 203104	JM203104	JM 162110	JM 141742	0.2	11180	11379	9378	8768	11648	11465	11749	11662
22	JM 213234	JM213234	PDR 180024	JM 170152	0.0	7276	12173	11862	9738	11037	11551	10442	11449
23	JM 213407	JM213407	BG 170036	JM 192789	1.5	11379	9277	10974	9967	12644	11262	9145	10859
24	JM 213411	JM213411	BG 170036	JM 192704	1.4	11579	9277	10774	10667	10544	11062	9644	10758
25	JM 213419	JM213419	JM 182483	JM 192815	0.0	11576	10575	9267	11156	10242	11258	9747	10956
26	JM 223461	JM223461	JM 202974	JM 202958	0.9	11575	10274	9858	11845	8534	11251	11144	11350
27	JM 223463	JM223463	JM 202946	JM 203072	2.4	11576	9474	11161	11549	11640	11955	11344	11953
28	JM 223464	JM223464	JM 202946	JM 203034	2.5	11676	9976	9767	10857	10839	11157	11644	11354
29	JM 223467	JM223467	JM 202934	JM 203037	1.5	12175	11074	9458	10044	8735	11651	11743	11749

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	
					★★★★☆								
30	JM 223471 JM223471	JM 202976	JM 202945	0.8	11675	11073	9860	10847	8838	11753	11342	11851	
31	JM 223533 JM223533	JM 182481	JM 192815	0.6	12378	10676	9269	8960	11544	11460	11343	11557	
32	JM 223579 JM223579	JM 182639	JM 162096	0.9	7976	12176	10865	9153	10142	11057	11951	11356	
33	JM 223580 JM223580	JM 141806	JM 182621	1.3	8776	13076	10365	8546	9842	11856	11650	11955	
34	JM 223608 JM223608	JM 192834	JM 192900	1.7	10476	9575	11661	10748	10436	11253	10145	11051	
35	JM 223614 JM223614	JM 192703	JM 180164	0.0	9974	11073	11361	9639	9934	11650	10044	11449	
36	JM 223666 JM 223666	JM 141806	JM 182668	2.4	11676	11175	9164	10747	9740	11555	10348	11354	
37	JM 233720 JM233720	JM 202974	JM 172332	1.2	10873	9773	10551	11837	10628	11146	10843	11245	
38	JM 233752 JM233752	JM 202974	JM 182655	3.1	9975	11374	9660	11647	9336	11153	10344	11051	
39	JM 233757 JM233757	JM 192834	JM 192755	2.2	11975	9175	11361	11549	10336	11753	10648	11652	
40	JM 233772 JM233772	JM 202934	JM 151897	1.8	9673	11873	11051	8436	9830	11647	11946	11847	
41	JM 233780 JM233780	JM 202974	JM 172310	5.8	11975	10475	9461	11346	9733	11452	11246	11551	
42	JM 233782 JM233782	JM 182639	JM 172263	1.0	9575	12674	9957	9246	10235	11852	12248	12151	
43	JM 233784 JM233784	JM 192834	JM 182479	1.7	10576	10075	12262	10049	9837	11954	10046	11652	
44	JM 233796 JM233796	JM 202934	JM 151889	0.8	10573	11373	9752	9539	10332	11248	10642	11147	
45	JM 233817 JM233817	JM 202946	JM 141693	2.1	8674	11073	12054	8638	10230	11147	11044	11146	
46	JM 233833 JM233833	JM 203082	JM 172322	2.5	10475	10375	10760	9947	10136	11053	12044	11451	
47	JM 233865 JM233865	JM 192834	JM 170156	0.0	12171	8271	12050	11433	11023	11743	9441	11243	
48	JM 233888 JM233888	JM 202974	JM 182619	2.6	12073	10373	10150	11436	9728	11946	10843	11845	
49	JM 233894 JM233894	JM 202974	JM 182668	2.2	12272	9573	9649	12437	9528	11346	10444	11246	
50	JM 233900 JM233900	JM 202974	JM 172311	2.7	11773	9173	10550	12737	8528	11046	10646	11046	
51	JM 233909 JM233909	JM 202946	JM 172267	1.2	9674	11973	9954	8541	11232	11249	12245	11648	
52	JM 233956 JM233956	JM 213161	JM 213411	1.4	11772	9672	11045	10438	10226	11544	9841	11243	
53	JM 233962 JM233962	JM 213414	JM 213401	0.5	11970	10570	9337	11128	9520	11338	10738	11338	
54	JM 233967 JM233967	JM 213217	JM 213407	3.4	12171	9671	10146	10037	11024	11343	10238	11142	
55	JM 233969 JM233969	JM 213239	JM 213234	0.4	8473	11772	11056	10138	9632	11348	10938	11346	
56	JM 233976 JM233976	JM 213194	JM 213248	2.7	11273	9873	11144	10134	10424	11443	9942	11143	
57	JM 233981 JM233981	JM 213214	JM 213289	1.3	11771	10471	10044	10135	10226	11643	11140	11642	
58	JM 244022 JM244022	JM 203082	JM 223446	1.8	11371	9771	10040	11729	9822	11040	11541	11240	

Selection List on Cow Value

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value		
Sorted on ID					Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc		
					★★★★☆									
59	JM 244041	JM244041	JM 213243	JM 162107	2.2	11373	9573	11849	10131	9126	11544	9248	11045	
60	JM 244061	JM244061	JM 192834	JM 213253	5.0	11373	8473	12249	10440	10426	11146	10245	11046	
61	JM 244067	JM244067	JM 213161	JM 172401	1.6	10373	9573	11850	10036	10028	11046	9647	10746	
62	JM 244068	JM244068	JM 213161	JM 172310	3.2	11473	9573	11149	10336	9928	11346	10346	11246	
63	JM 244077	JM244077	JM 213161	JM 170152	0.0	8671	10671	12249	9428	10922	11341	10042	11141	
64	JM 244079	JM244079	JM 213161	JM 172287	1.8	9373	10473	13149	9333	9928	11945	10446	11745	
65	JM 244085	JM244085	JM 213194	JM 172277	0.7	8673	12374	10349	8035	10728	11146	11146	11246	
66	JM 244130	JM244130	JM 213331	JM 182551	2.2	11472	9272	11547	11034	9427	11344	10343	11144	
67	JM 244135	JM244135	JM 213331	JM 203072	2.6	12272	8772	10947	11239	10328	11246	10142	11045	
68	JM 244159	JM244159	JM 213243	JM 151977	2.3	10973	9373	12549	9029	9326	11243	9645	10943	
69	JM 244188	JM244188	JM 213175	JM 192755	1.4	10472	10873	10747	9738	9827	11445	11645	11645	
70	JM 244201	JM244201	JM 213161	JM 172304	2.4	10073	10273	12648	9431	9427	11844	10644	11744	
71	JM 244204	JM244204	JM 213161	JM 172351	1.3	8572	11573	11849	8836	9829	11446	10945	11446	
					★★★★									
1	JM 151938	JM151938	JM 121379	JM 100108	0.0	11684	9182	9686	10260	10648	10166	8546	9662	
2	JM 162193	JM162193	JM 131530	JM 060055	1.1	11084	8582	10983	11051	10047	10163	7966	9564	
3	JM 162217	JM162217	JM 121474	JM 111230	4.8	11884	8082	12184	9460	9849	10666	8762	10165	
4	JM 172332	JM172332	AC 120010	JM 100141	0.0	9582	8879	11881	11755	12444	10862	10042	10658	
5	JM 172401	JM172401	JM 121398	JM 121442	0.8	7984	9983	12483	9861	10150	10266	9360	10065	
6	JM 172409	JM172409	JM 131588	JM 131679	2.0	10382	8981	11381	10658	10751	10465	9548	10262	
7	JM 172415	JM172415	JM 131588	JM 060063	0.6	11884	8682	10283	11254	10451	10365	8260	9864	
8	JM 172441	JM172441	JM 131588	JM 131545	0.8	8782	9581	12282	10956	10150	10565	8853	10163	
9	JM 182479	JM182479	E530	JM 151912	0.0	7382	12181	11181	9164	10051	10867	10056	10665	
10	JM 182566	JM182566	BL 120069	JM 121376	0.4	12182	8979	11378	8550	9250	10762	8552	10160	
11	JM 182591	JM182591	BL 120069	JM 090006	1.5	11382	7781	11681	12156	8553	10166	6058	9064	
12	JM 192704	JM192704	JGM14022PZ	JM 162159	0.0	11982	9280	9679	11370	8652	10268	10946	10464	
13	JM 192707	JM192707	JGM14022PZ	JM 162145	0.0	11682	9480	8881	11569	9850	10067	10954	10264	

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
Sorted on ID						Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	
						★★★								
14	JM 192789	JM192789	JM 152011	JM 141747	1.9	10582	10881	9681	9671	11750	10968	10450	10964	
15	JM 192900	JM192900	JM 162110	JM 151896	0.9	8881	10780	10279	10067	11148	10265	10350	10362	
16	JM 202926	JM202926	JGM14022PZ	JM 172263	0.0	11880	10879	8878	9469	8950	10666	11352	10963	
17	JM 202928	JM202928	JGM14022PZ	JM 172310	0.0	9780	12079	8677	8968	8848	10165	12550	10762	
18	JM 202986	JM202986	BG 170036	JM 100118	0.0	11278	8577	11074	8866	12744	10262	8549	9759	
19	JM 203035	JM203035	BG 170036	JM 100140	0.0	11879	9178	10477	9565	12544	10963	8248	10360	
20	JM 213180	JM213180	JM 182639	JM 182611	2.0	10478	10278	9973	8666	10044	10062	9655	9861	
21	JM 213197	JM213197	JM 182481	JM 182665	0.5	10879	9677	9573	11566	9244	10062	10944	10258	
22	JM 213199	JM213199	JM 172320	JM 172287	0.2	7978	9877	12869	8556	10543	10159	10148	10157	
23	JM 213249	JM213249	JM 162123	JM 162157	1.3	11379	9277	10071	10560	11148	10462	10052	10360	
24	JM 213253	JM213253	JM 182639	JM 151897	1.9	10680	9778	10974	9166	10744	10663	11150	10860	
25	JM 213299	JM213299	JM 182481	JM 162181	0.9	10879	9877	9770	9357	10545	10060	11347	10357	
26	JM 213310	JM213310	JM 182489	JM 111298	0.7	9378	9074	12461	10448	10542	10655	9544	10353	
27	JM 213423	JM213423	BG 170036	JM 192894	4.2	11679	8777	9973	11066	12542	10461	7956	9860	
28	JM 223450	JM223450	JM 202976	JM 200168	0.0	10674	8572	10866	13250	10537	10654	9236	10350	
29	JM 223473	JM223473	JM 202950	JM 203035	0.3	9674	10573	10559	9447	10136	10452	10540	10450	
30	JM 223481	JM223481	JM 202976	JM 203058	1.1	11374	7973	10658	13645	9736	10152	9441	9950	
31	JM 223500	JM223500	JM 141806	JM 182618	2.1	11976	10376	8065	10747	9741	10156	8848	9854	
32	JM 223518	JM223518	JM 141806	JM 162095	1.2	8679	12977	8971	7360	11046	10461	10750	10559	
33	JM 223560	JM223560	JM 182481	JM 192738	0.6	10676	10275	10663	9453	10740	10956	11245	11054	
34	JM 223562	JM223562	JM 182481	JM 192739	0.5	10773	10873	9152	9545	9732	10349	10940	10547	
35	JM 223563	JM223563	JM 192703	JM 182650	0.8	11675	9675	9061	11647	9138	10154	10146	10152	
36	JM 223598	JM223598	JM 182639	JM 121488	2.4	11078	10076	10266	8752	10144	10458	10550	10556	
37	JM 223602	JM223602	JM 182639	JM 192887	2.7	10776	10375	9362	10949	9339	10355	11246	10553	
38	JM 223609	JM223609	JM 141806	JM 131522	2.3	8179	11677	10371	8060	10344	10061	10448	10158	
39	JM 223621	JM223621	JM 182569	JM 172423	1.9	10176	8976	12364	11049	9040	10756	9948	10654	
40	JM 223635	JM223635	JM 141806	JM 151983	2.1	11278	10076	9866	9644	10344	10656	9649	10455	
41	JM 223671	JM223671	JM 182481	JM 192713	0.4	11976	10075	8963	11353	8742	10557	11944	10954	
42	JM 223688	JM223688	JM 192703	JM 182507	0.6	11778	10176	9368	11357	9442	10959	10350	10857	

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	
					★★★★								
43	JM 233717	JM233717	JM 192834	JM 182534	1.3	11973	7874	11852	11339	10330	10848	9046	10448
44	JM 233728	JM233728	JM 182569	JM 170153	0.0	9373	10872	10754	10033	9826	10845	10548	10846
45	JM 233739	JM233739	JM 203082	JM 141765	2.1	11873	8573	10349	11832	10126	10444	10746	10544
46	JM 233746	JM233746	JM 182639	JM 172324	0.2	10774	11074	9156	9643	11434	10950	11350	11050
47	JM 233747	JM233747	JM 182639	JM 182520	1.6	9374	11674	8955	9543	10134	10150	12048	10650
48	JM 233759	JM233759	JM 182569	JM 192707	0.1	11974	9574	9555	11147	8934	10451	10648	10550
49	JM 233766	JM233766	JM 202946	JM 172439	1.7	10275	9174	11762	10349	11138	10854	10244	10752
50	JM 233767	JM233767	JM 202974	JM 172301	1.7	10873	9373	10450	13336	9628	10846	10546	10846
51	JM 233775	JM233775	JM 182639	JM 182482	0.6	11674	10874	8056	10746	10534	10551	10148	10450
52	JM 233785	JM233785	JM 182569	JM 162145	0.1	11676	9175	9865	10652	10040	10256	9748	10154
53	JM 233789	JM233789	JM 202946	JM 172352	1.3	10974	10174	9762	9448	11438	10554	11146	10752
54	JM 233791	JM233791	JM 182639	JM 182496	0.6	9974	11674	8656	10546	10934	10751	11347	10950
55	JM 233792	JM233792	JM 192834	JM 192735	0.6	10573	9674	11352	10042	9830	10948	10744	10947
56	JM 233816	JM233816	JM 192834	JM 182519	0.2	11375	8575	11161	10049	11436	10453	9444	10251
57	JM 233823	JM233823	JM 203082	JM 172401	2.0	8275	10075	11860	10145	10334	10252	10846	10451
58	JM 233829	JM233829	JM 202934	JM 141736	1.2	11373	10574	9752	9838	9430	10847	10946	10947
59	JM 233843	JM233843	JM 192834	JM 192723	1.1	9673	9374	10952	10942	9630	10048	9847	9948
60	JM 233850	JM233850	JM 202934	JM 162154	1.2	11776	10075	9361	9748	9937	10554	10846	10652
61	JM 233855	JM233855	JM 202946	JM 152009	3.4	10476	9175	10764	11049	10238	10355	10447	10353
62	JM 233871	JM233871	JM 202934	JM 162217	2.0	11075	10475	9861	9448	9836	10653	10948	10752
63	JM 233884	JM233884	JM 182639	JM 141747	1.9	10275	10974	9757	9345	10534	10651	12150	11151
64	JM 233906	JM233906	JM 202934	JM 141719	1.5	9473	11474	9752	9237	8730	10247	11544	10546
65	JM 233915	JM233915	JM 182639	JM 172309	0.2	10074	11174	9256	8944	10834	10251	11346	10550
66	JM 233947	JM233947	JM 213243	JM 213180	4.0	10757	9872	10044	9835	9624	10142	9342	9942
67	JM 233957	JM233957	JM 213171	JM 213252	0.7	9971	11570	9445	9237	10626	10844	11237	11043
68	JM 233965	JM233965	JM 213315	JM 213366	3.5	11971	9571	9245	10735	9022	10142	10738	10341
69	JM 244016	JM244016	JM 203082	JM 223522	3.4	10172	9572	10442	11031	10621	10341	11543	10641
70	JM 244036	JM244036	JM 213161	JM 172342	1.2	8673	10073	11149	10433	10529	10145	8647	9745
71	JM 244050	JM244050	JM 192843	JM 213246	1.5	7472	12472	9946	8636	10026	10144	11240	10443

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	
					★★★★								
72	JM 244056	JM244056	JM 213194	JM 172267	2.2	8573	11674	10850	8236	11328	10846	10943	10945
73	JM 244066	JM244066	JM 213161	JM 162193	1.1	11773	8573	11350	10933	9927	10845	8648	10346
74	JM 244090	JM244090	JM 213175	JM 192900	1.7	9272	10573	10447	9338	10127	10145	10744	10245
75	JM 244092	JM244092	JM 213204	JM 151938	0.9	12273	10174	9050	9635	10128	10746	9444	10446
76	JM 244104	JM244104	JM 213161	JM 162159	2.8	9860	9159	11949	11136	9929	10742	9743	10442
77	JM 244124	JM244124	JM 192725	JM 203006	0.8	11273	10074	9748	9137	10528	10446	10345	10346
78	JM 244125	JM244125	JM 213175	JM 172322	1.8	7773	12573	10849	7638	9529	10646	12144	11046
79	JM 244146	JM244146	JM 213194	JM 151941	4.8	8273	9674	12950	8925	10725	10443	9340	10142
80	JM 244162	JM244162	JM 213175	JM 182601	4.2	11373	9673	10248	9732	9526	10444	9946	10344
81	JM 244164	JM244164	JM 213331	JM 203034	2.4	10872	10072	10047	10138	9626	10445	10741	10544
82	JM 244216	JM244216	JM 213442	JM 202968	1.0	9872	11273	9444	9136	9725	10344	11241	10643
83	JM 244221	JM244221	JM 213288	JM 200168	0.0	9569	9869	10842	11123	10718	10537	9734	10336
					★★★★☆								
1	JM 141719	JM141719	JM 111248	JM 111234	0.7	8285	10283	10886	9054	8751	9166	9852	9163
2	JM 141736	JM141736	JM 111248	JM 111239	1.5	10585	8883	10986	10155	10050	9966	8656	9564
3	JM 141780	JM141780	JM 111199	JM 101141	1.0	9786	10584	8787	9764	10952	9469	11662	9968
4	JM 162133	JM162133	JM 131588	JM 070156	0.3	10384	9183	10384	10860	10852	9967	9560	9866
5	JM 162154	JM162154	JM 131588	JM 111220	4.3	11284	8081	10382	10457	10549	9365	8656	9063
6	JM 162181	JM162181	BL 110043	JM 111194	0.9	10285	8383	10685	11562	10252	9468	9360	9366
7	JM 172259	JM172259	E530	JM 141708	0.0	10682	10381	8882	9755	10648	9864	9760	9763
8	JM 172267	JM172267	E530	JM 141747	0.0	8283	11481	9583	7564	11452	9467	11448	9863
9	JM 172270	JM172270	E530	JM 141780	0.0	6882	12881	8582	8459	11250	9265	12249	9962
10	JM 172277	JM172277	E530	JM 141719	0.0	6683	13281	8883	7361	10050	9266	11856	9864
11	JM 172324	JM172324	JM 121367	JM 100108	0.0	11882	8480	9182	9555	12846	9563	8959	9262
12	JM 172342	JM172342	JM 121398	JM 070144	0.7	8283	9981	10582	10354	11150	9364	7662	8864
13	JM 172350	JM172350	JM 131650	JM 060106	3.6	11283	6882	11483	12057	10650	9565	6756	8663
14	JM 172421	JM172421	JM 131588	JM 070059	0.2	9783	10281	8682	10452	9947	9063	10754	9361

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	
					★★★★								
15	JM 172463	JM172463	JM 121474	JM 131666	1.6	85	101	116	97	78	97	93	95
16	JM 182482	JM182482	SGHPZ027	JM 152007	0.0	123	95	66	110	110	90	72	84
17	JM 182496	JM182496	642A	JM 121372	0.0	105	107	77	107	120	98	96	97
18	JM 182519	JM182519	JM 121367	JM 100118	0.0	123	80	89	99	115	90	89	88
19	JM 182534	JM182534	JM 131650	JM 121442	2.3	114	71	104	118	104	91	78	86
20	JM 182540	JM182540	JM 151952	JM 111259	0.0	107	93	96	90	99	92	101	93
21	JM 182565	JM182565	JM 131530	JM 111215	0.8	119	83	102	88	99	94	76	88
22	JM 182601	JM182601	JM 131588	JM 131545	0.8	114	82	103	114	97	97	82	93
23	JM 182663	JM182663	BL 120069	JM 141850	1.0	71	104	123	77	93	95	78	89
24	JM 192705	JM192705	JGM14022PZ	JM 162148	0.0	103	92	99	121	77	95	100	95
25	JM 192735	JM192735	JGM14022PZ	JM 162096	0.0	88	120	91	87	95	99	118	104
26	JM 192758	JM192758	JM 162123	JM 111197	0.4	111	90	100	108	99	99	96	98
27	JM 192792	JM192792	JM 162110	JM 121377	1.0	121	96	71	109	110	93	98	93
28	JM 192826	JM192826	JM 162110	JM 090112	1.1	96	99	84	110	119	92	94	91
29	JM 192827	JM192827	BL 140061	JM 101079	1.8	111	81	100	115	102	94	92	92
30	JM 202922	JM202922	JM 162123	JM 170162	0.0	112	87	92	122	119	99	94	97
31	JM 202963	JM202963	JGM14022PZ	JM 172446	0.0	110	86	93	118	92	92	101	93
32	JM 203015	JM203015	BG 170036	JM 170158	0.0	111	79	92	105	128	91	76	86
33	JM 203021	JM203021	JM 162110	JM 090112	1.1	116	90	85	116	113	96	89	93
34	JM 203027	JM203027	JM 162110	JM 131545	0.5	103	100	86	106	110	95	96	94
35	JM 203034	JM203034	JM 172293	JM 141780	2.4	115	95	84	103	102	95	112	98
36	JM 203115	JM203115	JM 162123	JM 151938	1.6	103	91	91	115	102	91	104	93
37	JM 213174	JM213174	JM 172278	JM 172409	0.8	83	117	97	82	103	98	103	99
38	JM 213186	JM213186	JM 152011	JM 182479	0.7	95	111	85	99	104	97	90	94
39	JM 213188	JM213188	JM 152011	JM 182591	1.3	99	99	101	111	86	99	76	93
40	JM 213216	JM213216	JM 152011	JM 141747	1.9	123	96	84	93	111	99	97	98
41	JM 213242	JM213242	JM 152011	JM 182512	1.1	112	90	89	121	105	97	92	95
42	JM 213246	JM213246	JM 182489	JM 141719	1.7	62	114	114	101	97	98	103	99
43	JM 213252	JM213252	BL 180092	JM 180167	0.0	72	114	98	89	107	92	100	93

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	
Sorted on ID						Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc	
						★★★★								
44	JM 213260	JM213260	JM 152011	JM 172267	0.9	79 79	120 78	90 74	90 67	117 46	98 63	104 46	99 60	
45	JM 213294	JM213294	BL 180092	JM 172322	1.3	70 78	123 77	99 69	79 57	85 43	92 59	120 44	98 56	
46	JM 213355	JM213355	JM 182481	JM 162164	1.7	113 79	83 78	102 73	107 66	101 44	96 62	99 47	96 59	
47	JM 213366	JM213366	BL 180092	JM 162153	1.3	100 79	91 78	97 73	120 66	88 44	92 62	88 44	90 58	
48	JM 213367	JM213367	JM 182639	JM 141702	2.2	100 79	97 78	105 74	97 67	89 45	98 63	110 50	101 60	
49	JM 223455	JM223455	JM 202976	JM 203108	0.8	101 75	93 73	98 60	123 46	99 37	98 53	101 44	98 51	
50	JM 223456	JM223456	JM 202976	JM 202963	1.0	99 76	89 74	99 67	130 55	98 42	96 57	103 42	97 54	
51	JM 223507	JM223507	JM 192843	JM 182565	1.7	110 75	107 74	91 61	75 44	98 37	99 53	96 44	98 51	
52	JM 223523	JM223523	JM 182569	JM 162138	1.4	87 78	122 77	77 69	87 58	100 42	92 59	109 46	95 56	
53	JM 223565	JM223565	BL 180092	JM 172267	0.6	83 78	119 77	90 69	86 59	109 43	97 60	116 44	102 57	
54	JM 223591	JM223591	BL 180092	JM 141736	1.1	112 76	90 76	92 64	103 47	92 40	92 55	94 45	91 53	
55	JM 223593	JM223593	BL 180092	JM 182591	1.3	89 78	99 75	103 63	105 48	95 43	95 56	89 46	93 54	
56	JM 223601	JM223601	JM 182481	JM 192704	1.0	110 76	87 75	95 63	108 53	86 41	91 56	113 43	95 53	
57	JM 223625	JM223625	JM 192725	JM 172322	3.3	93 77	112 77	88 67	84 56	80 40	90 58	113 45	95 55	
58	JM 223631	JM223631	JM 192703	JM 180167	0.0	64 73	117 72	99 59	94 42	100 34	90 50	99 37	91 47	
59	JM 223638	JM223638	JM 192703	JM 182655	0.5	90 78	108 76	83 67	108 57	103 42	91 58	96 43	91 55	
60	JM 223646	JM223646	JM 141806	JM 131627	1.6	101 75	106 75	87 60	99 41	91 36	95 52	103 50	96 52	
61	JM 223664	JM223664	JM 182639	JM 151902	2.6	80 75	108 74	104 57	104 45	90 35	97 51	103 48	98 50	
62	JM 223672	JM223672	JM 182639	JM 192897	2.1	90 73	109 73	98 50	104 41	87 31	98 48	112 46	101 48	
63	JM 223673	JM223673	BL 180092	JM 172283	2.0	108 74	98 74	86 54	114 41	100 32	96 49	101 44	97 48	
64	JM 223681	JM223681	JM 182569	JM 162085	0.8	109 76	93 75	114 64	92 48	63 36	99 54	107 46	101 52	
65	JM 223695	JM223695	JM 182569	JM 121419	2.5	100 76	90 76	99 65	122 49	85 40	93 56	91 50	91 55	
66	JM 233716	JM233716	JM 182569	JM 162163	1.5	101 75	100 74	96 57	105 44	96 34	98 51	95 48	97 50	
67	JM 233722	JM233722	JM 182569	JM 170151	0.0	109 72	91 71	101 53	104 37	91 28	97 46	87 42	93 45	
68	JM 233727	JM233727	JM 182569	JM 182593	4.3	111 75	100 75	90 63	97 48	91 38	97 54	99 48	96 53	
69	JM 233741	JM233741	JM 202946	JM 192833	2.5	81 73	98 73	110 51	101 38	88 29	91 47	108 44	94 46	
70	JM 233808	JM233808	JM 172320	JM 202986	0.2	99 73	84 73	107 51	97 44	110 32	91 49	86 46	88 48	
71	JM 233815	JM233815	JM 182639	JM 172319	0.2	97 75	108 74	85 56	95 44	93 35	92 51	112 49	96 51	
72	JM 233827	JM233827	JM 192834	JM 192699	1.5	91 73	93 74	108 51	117 40	71 29	92 47	97 44	92 46	

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	
					★★★★								
73	JM 233828	JM233828	JM 202934	JM 182613	0.8	10673	8973	9848	11437	8431	9247	9144	9146
74	JM 233837	JM233837	JM 182569	JM 141780	1.8	8976	10876	9365	10753	9540	9657	11052	9956
75	JM 233844	JM233844	JM 192725	JM 203108	4.9	10773	10173	8745	10635	9426	9644	10144	9644
76	JM 233863	JM233863	JM 203082	JM 172350	1.6	9473	8473	11349	11433	10627	9545	9445	9445
77	JM 233879	JM233879	JM 202934	JM 131643	2.6	10673	9574	9852	10838	9331	9848	10846	10048
78	JM 233883	JM233883	JM 182639	JM 140148	1.6	9774	9673	8958	12941	11432	9749	9648	9649
79	JM 233923	JM233923	JM 192725	JM 203021	2.8	11173	9973	7847	10239	9528	9046	9742	9045
80	JM 233975	JM233975	JM 213315	JM 213323	0.9	11171	8871	9742	10032	9924	9342	10340	9542
81	JM 244008	JM244008	PDR 210054	JM 223526	0.4	10071	10570	8942	9532	10924	9742	10541	9942
82	JM 244033	JM244033	JM 213175	JM 182534	2.6	9473	10173	10348	9635	9927	9745	10145	9745
83	JM 244048	JM244048	JM 213243	JM 170158	0.0	11371	9071	9247	11225	10518	9739	8139	9239
84	JM 244065	JM244065	JM 213204	JM 182540	4.1	9873	11073	9246	8923	9824	9941	10346	9942
85	JM 244069	JM244069	JM 213442	JM 192815	1.0	10073	9873	9946	10237	10326	9845	9742	9744
86	JM 244072	JM244072	JM 213161	JM 162157	1.2	9573	9373	10651	10838	10130	9747	8547	9347
87	JM 244078	JM244078	JM 213161	JM 162181	2.4	8173	9173	11450	11036	10029	9246	9446	9146
88	JM 244139	JM244139	JM 213331	JM 192827	2.0	9472	9172	10848	10835	9727	9545	9744	9545
89	JM 244184	JM244184	JM 213194	JM 172314	3.4	11173	8374	10249	10334	10226	9445	8843	9145
90	JM 244194	JM244194	JM 213442	JM 203021	1.5	11972	8472	9243	11237	9825	9444	9241	9243
91	JM 244210	JM244210	JM 213442	JM 192792	1.2	10672	10173	8345	10336	9824	9344	10241	9443
92	JM 244226	JM244226	JM 213161	JM 203017	1.3	8772	10372	10744	9631	9226	9643	9742	9543
					★★								
1	JM 131524	JM131524	JM 101076	JM 101034	0.3	10486	8184	10688	9759	10151	8867	8355	8565
2	JM 162145	JM162145	JM 121367	JM 100124	0.0	12083	7381	8984	11563	11950	8766	8556	8464
3	JM 162157	JM162157	JM 121474	JM 080015	1.2	9485	8483	9785	11263	10253	8368	7360	7866
4	JM 162163	JM162163	JM 131588	JM 050014	0.0	9784	8883	9485	11060	11051	8767	8152	8464
5	JM 172309	JM172309	JM 121367	JM 100118	0.0	10882	9580	8982	7656	11647	8863	9544	8859
6	JM 172352	JM172352	JM 121367	JM 100122	0.0	9475	9080	9482	8460	12649	8465	9950	8562

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	
					★★								
7	JM 172366	JM172366	JM 131588	JM 131524	1.8	116 83	77 81	91 82	116 54	104 49	87 64	83 54	84 62
8	JM 182487	JM182487	E530	JM 152009	0.0	84 80	104 79	90 78	111 58	98 50	89 64	108 52	92 62
9	JM 182508	JM182508	642A	JM 140148	0.0	78 81	113 80	73 80	122 58	111 46	87 63	100 54	89 61
10	JM 182520	JM182520	642A	JM 101069	0.0	86 81	116 80	82 80	83 56	103 49	88 64	112 51	92 61
11	JM 182593	JM182593	JM 151952	JM 141706	0.1	109 81	91 79	89 78	103 50	93 48	89 62	93 55	88 61
12	JM 182652	JM182652	JM 151952	JM 141808	0.0	103 81	100 78	81 77	99 44	96 46	87 59	109 44	91 56
13	JM 192723	JM192723	JGM14022PZ	JM 162157	0.0	102 81	95 80	83 80	109 68	90 49	85 66	93 54	85 64
14	JM 203072	JM203072	BL 140061	JM 151966	2.1	93 81	76 79	107 78	126 68	114 50	88 66	100 48	89 62
15	JM 213208	JM213208	JM 182569	JM 182534	1.7	106 79	88 78	86 73	114 66	94 44	85 62	89 48	84 59
16	JM 213272	JM213272	JM 182639	JM 152055	1.3	93 76	98 75	84 63	101 53	99 40	82 56	102 46	85 54
17	JM 213287	JM213287	JM 172278	JM 151941	0.8	76 78	108 76	92 69	78 52	100 42	80 58	95 44	81 55
18	JM 213321	JM213321	JM 172278	JM 152015	1.4	83 75	111 73	85 53	96 37	94 38	86 50	93 46	86 49
19	JM 213323	JM213323	JM 172320	JM 111215	0.0	97 79	85 76	103 64	103 53	107 46	87 59	84 49	85 57
20	JM 213337	JM213337	BL 180092	JM 172319	0.1	91 78	105 77	83 69	97 55	78 42	81 59	107 50	86 57
21	JM 213409	JM213409	BG 170036	JM 192707	0.1	96 78	85 76	97 70	115 60	113 44	88 60	94 46	87 57
22	JM 223501	JM223501	JM 192843	JM 192849	1.0	109 76	100 75	77 66	90 57	80 40	82 57	109 41	87 54
23	JM 223513	JM223513	JM 172320	JM 172352	0.0	84 77	93 77	103 69	91 58	114 43	86 60	102 52	88 58
24	JM 223516	JM223516	JM 192708	JM 182520	0.5	95 76	110 75	75 61	86 45	93 38	82 53	114 44	88 51
25	JM 223526	JM223526	JM 172320	JM 162145	0.0	101 78	77 77	105 69	106 59	112 44	86 60	87 48	84 58
26	JM 223585	JM223585	JM 172320	JM 170161	0.0	87 74	82 73	108 61	113 42	100 35	85 51	83 45	82 50
27	JM 223627	JM223627	BL 180092	JM 151895	1.9	77 76	95 75	101 63	112 47	80 40	81 55	86 44	80 53
28	JM 223643	JM223643	JM 141806	JM 172350	4.0	104 77	95 76	82 66	111 46	98 41	87 56	84 50	84 55
29	JM 223696	JM223696	JM 172320	JM 170156	0.0	91 72	83 72	106 52	112 37	105 28	87 46	88 44	85 46
30	JM 233768	JM233768	JM 203082	JM 192747	2.7	78 73	104 73	97 45	102 33	78 24	83 43	110 41	88 43
31	JM 233797	JM233797	JM 202946	JM 172317	1.3	97 75	101 74	80 62	88 48	114 36	84 53	106 44	88 51
32	JM 233800	JM233800	JM 202974	JM 182611	2.3	97 75	95 74	95 61	104 47	84 36	88 53	89 46	87 52
33	JM 233874	JM233874	JM 192725	JM 203076	1.8	97 73	98 73	88 46	109 36	89 28	88 45	97 45	89 45
34	JM 244094	JM244094	JM 213204	JM 182629	1.8	94 73	101 72	82 47	99 30	91 25	82 43	95 47	83 44
35	JM 244138	JM244138	JM 213442	JM 152009	5.4	101 73	85 73	102 48	105 33	86 26	86 44	96 44	87 44

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	
					★★								
36	JM 244152	JM244152	JM 213175	JM 192833	3.6	8172	9773	10746	9032	8026	8344	10543	8744
37	JM 244163	JM244163	JM 213204	JM 182632	2.3	11573	8974	7748	11632	10126	8744	8544	8444
38	JM 244191	JM244191	JM 192725	JM 213299	1.3	9373	10273	8845	9235	9128	8545	10743	8845
					★★								
1	JM 172317	JM172317	JM 121367	JM 100119	0.0	9882	9080	7982	8456	12446	7563	9646	7760
2	JM 172319	JM172319	JM 121367	JM 120126	0.0	9583	9781	7683	8556	8748	7064	9555	7262
3	JM 172338	JM172338	JM 121367	JM 100128	0.0	11882	7780	7782	11352	11046	7962	8158	7661
4	JM 182609	JM182609	JM 151976	JM 131623	1.6	11081	7280	8779	11245	10644	7560	5955	6859
5	JM 182611	JM182611	JM 131530	JM 121488	1.1	11082	8180	9779	8162	9151	7966	6656	7364
6	JM 182669	JM182669	JM 121367	JM 100101	0.0	10180	8379	7680	10351	11345	7161	8957	7260
7	JM 192699	JM192699	JGM14022PZ	JM 162153	0.0	10380	8879	7977	12662	4748	7264	9048	7361
8	JM 192730	JM192730	JM 131650	JM 162163	1.2	10781	7280	9480	10367	10848	7666	7448	7262
9	JM 213218	JM213218	JM 182481	JM 172314	1.6	11279	8078	8473	10866	9443	7862	9844	8158
10	JM 223525	JM223525	JM 172320	JM 180163	0.0	9176	8874	8562	9842	9338	7053	8140	6950
11	JM 223582	JM223582	JM 192725	JM 131679	1.8	9076	9076	8562	10742	8938	7353	9543	7651
12	JM 233907	JM233907	JM 172320	JM 202938	0.1	7573	9273	10550	10342	7534	7649	10048	7949
					★								
1	JM 172314	JM172314	JM 131650	JM 121402	1.8	10683	6481	8681	11660	9350	6265	7350	6062
2	JM 182525	JM182525	JM 121367	JM 100132	0.0	11880	7579	6480	11451	11045	6861	6458	6360
3	JM 182527	JM182527	JM 131650	JM 070019	0.7	11482	6081	7980	11857	10150	6265	7150	5962
4	JM 182629	JM182629	JM 121367	JM 131547	0.3	10581	8173	7379	10553	8548	6561	9057	6760
5	JM 182632	JM182632	JM 131588	JM 090112	3.6	11282	6080	7181	14355	10450	6264	6646	5860
6	JM 182683	JM182683	JM 131530	JM 111230	2.3	9681	5980	9980	11252	9048	6063	7152	5761
7	JM 192706	JM192706	VHPB633	BL 110149	0.0	8174	10778	7776	8656	7444	6961	8743	7057
8	JM 192747	JM192747	VHPB633	JM 152009	0.0	7179	10178	8672	9958	5344	6361	9543	6757
9	JM 192833	JM192833	JM 162165	JM 090034	2.5	8180	7879	11077	10053	6746	6861	9246	7058

Selection List on Cow Value

Cows 2 years and older

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
						★								
10	JM	223557	JM223557	JM 192703	JM 162157	0.5	75 78	105 76	69 69	114 58	96 43	69 59	88 47	70 57
11	JM	244035	JM244035	VHPB633	JM 213294	0.4	57 72	120 72	84 46	81 37	71 27	68 45	108 39	75 44
						★								
1	JM	182575	JM182575	JM 121367	JM 100125	0.0	89 80	86 79	71 79	86 51	115 45	58 61	83 44	59 58
2	JM	182595	JM182595	JM 121367	JM 100141	0.0	116 80	70 78	57 77	119 52	113 46	59 61	74 46	58 58

Selection List on Cow Value

Bull Calves younger than 2 years

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	JM 254297	JM254297	JM 213194	JM 223512	1.8	12172	10673	11243	8934	11024	12643	10941	12443
2	JM 254342	JM254342	JM 223655	JM 213410	2.8	10072	12072	10542	9332	10322	12041	13137	12540
3	JM 254343	JM254343	JM 223655	JM 203006	4.7	10472	11073	10946	9433	12122	12142	11838	12241
4	JM 254355	JM254355	JM 213194	JM 223533	4.2	10972	11473	10544	8534	11422	12142	11241	12142
5	JM 254412	JM254412	JM 223524	JM 172304	3.3	8273	12873	12249	7129	9426	12143	12240	12442
6	JM 254415	JM254415	JM 213194	JM 223456	1.2	11872	9973	11043	10834	10524	12143	10441	11943
7	JM 254421	JM254421	JM 213194	JM 223551	1.2	10872	10673	12744	8335	11324	12843	10944	12643
8	JM 254430	JM254430	JM 213204	JM 223468	4.5	12071	12373	9439	8727	10118	12639	11742	12740
9	JM 254442	JM254442	JM 213194	JM 223450	0.8	12072	9372	11543	11133	10824	12142	9841	11742
10	JM 254477	JM254477	JM 223448	JM 170152	0.0	8071	12271	11846	9225	10818	12039	11938	12239
					★★★★☆								
1	JM 254273	JM254273	JM 223647	JM 192809	4.2	9972	12773	9448	8138	10826	11645	12944	12145
2	JM 254275	JM254275	JM 223647	JM 192815	4.0	11372	11573	9349	8840	11327	11646	12038	11944
3	JM 254294	JM254294	JM 223584	JM 203072	1.6	11572	10473	10147	10238	10528	11646	11240	11745
4	JM 254298	JM254298	JM 223584	JM 121460	1.5	10273	11374	11551	8034	9930	11846	11742	12045
5	JM 254318	JM254318	JM 223448	JM 170157	0.0	11171	10571	9746	10520	10514	11236	10533	11135
6	JM 254327	JM254327	JM 213204	JM 223614	1.8	10571	11873	9839	8926	9820	11539	10744	11440
7	JM 254352	JM254352	JM 213194	JM 223565	1.6	10573	10973	10444	8735	11024	11343	11141	11443
8	JM 254369	JM254369	JM 213204	JM 223452	3.2	10371	12273	9838	9327	9920	11839	11443	11940
9	JM 254387	JM254387	JM 223448	JM 170153	0.0	9371	11771	10946	9920	10614	11836	11940	12037
10	JM 254420	JM254420	JM 213194	JM 223609	2.7	8973	12073	11045	8035	10825	11544	10943	11544
11	JM 254434	JM254434	JM 223448	JM 162193	1.7	11473	10673	10448	10332	9924	11943	10946	11844
12	JM 254435	JM254435	JM 223448	JM 192705	1.1	9172	12173	10046	10537	8824	11344	12338	11643
					★★★★								
1	JM 254264	JM254264	11005	JM 192704	0.0	10271	11571	9244	9438	8328	10445	11528	10742
2	JM 254272	JM254272	JM 223524	JM 172277	1.8	8173	12673	9950	7134	9928	10345	11743	10645
3	JM 254274	JM254274	JM 223647	JM 192758	1.0	8672	12473	9448	8739	10228	10646	12544	11246
4	JM 254285	JM254285	JM 223524	JM 172309	2.5	8272	12673	9750	6532	10826	10344	11339	10543

Selection List on Cow Value

Bull Calves younger than 2 years

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	
					★★★★								
5	JM 254291 JM254291	JM 223524	JM 172259	2.0	10773	11273	9750	8231	10227	10944	10844	10944	
6	JM 254296 JM254296	JM 213204	JM 223621	6.3	10171	10973	10441	9526	9419	10939	10744	10940	
7	JM 254315 JM254315	JM 213194	JM 223526	1.0	9873	10173	11044	9235	11325	10844	10144	10744	
8	JM 254319 JM254319	JM 223655	JM 203015	1.2	11272	9673	9646	10437	11824	10644	10238	10543	
9	JM 254322 JM254322	JM 213204	JM 223473	0.7	9271	12273	9439	8629	9922	10740	11143	10941	
10	JM 254339 JM254339	JM 223584	JM 151911	4.3	7973	11673	10550	9533	8326	10044	10343	10144	
11	JM 254350 JM254350	JM 223558	JM 162095	1.1	11273	10373	10050	8638	10730	10747	11142	10946	
12	JM 254353 JM254353	JM 213194	JM 223638	1.8	9572	11073	10143	9735	10824	10843	10242	10743	
13	JM 254360 JM254360	JM 213194	JM 223513	1.0	9473	10473	11144	8735	11325	10644	10645	10744	
14	JM 254371 JM254371	JM 223584	JM 203104	4.0	9272	12373	9547	8438	10626	10945	11938	11344	
15	JM 254378 JM254378		JM 233736	0.0	10566	10467	11331	8325	6718	10535	11722	10932	
16	JM 254385 JM254385	JM 213204	JM 223601	2.4	12071	10273	9140	9730	9122	10641	11043	10741	
17	JM 254400 JM254400	JM 223524	JM 213253	2.9	8972	11272	11147	7936	10226	10644	11540	10943	
18	JM 254424 JM254424	JM 223647	JM 192792	5.9	10072	12473	8048	8938	10824	10644	12538	11243	
19	JM 254433 JM254433	JM 223448	JM 182669	2.1	11372	10373	8846	10231	10523	10442	11242	10642	
20	JM 254438 JM254438	JM 223524	JM 213252	0.7	6872	12872	10446	7537	10326	10144	11337	10443	
21	JM 254444 JM254444	JM 213204	JM 223634	1.9	12071	10773	8840	10230	9222	10941	11144	11042	
22	JM 254447 JM254447	JM 223524	JM 172453	2.3	9772	9573	10949	10231	10526	10144	10338	10143	
23	JM 254457 JM254457	JM 223655	JM 202995	1.2	8872	10373	11146	10537	11625	10844	11442	11044	
24	JM 254459 JM254459	JM 223524	JM 172267	4.6	8273	11873	10350	7235	10527	10145	11540	10444	
					★★★★☆								
1	JM 254251 JM254251	JM 223647	JM 172317	0.2	12072	9973	8449	8335	11328	9845	11739	10244	
2	JM 254265 JM254265	DVPD008	JM 223652	0.0	9073	11373	8848	9336	9032	9247	11044	9646	
3	JM 254293 JM254293	JM 223584	JM 182519	0.0	9372	11073	9248	8835	10628	9745	10738	9944	
4	JM 254307 JM254307	JM 223558	JM 162154	3.8	11173	9173	9749	9632	10326	9644	10342	9744	
5	JM 254313 JM254313	JM 223558	JM 162145	1.7	11073	8773	9150	10237	10927	9046	10142	9145	
6	JM 254340 JM254340	JM 223558	JM 182593	3.3	9372	11073	9047	9129	9726	9443	11041	9743	
7	JM 254370 JM254370	JM 223647	JM 172314	3.3	11173	9173	9148	9935	9826	9245	10640	9444	
8	JM 254384 JM254384	JM 223558	JM 182566	2.8	11072	9273	10548	8931	9627	9844	10040	9843	
9	JM 254386 JM254386	JM 223558	JM 152009	2.1	10173	9573	9951	9636	9529	9346	10742	9545	

Selection List on Cow Value

Bull Calves younger than 2 years

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	
					★★★★								
10	JM 254391	JM254391	JM 223647	JM 213287	1.4	8372	11072	9544	8233	10125	9043	11538	9542
11	JM 254393	JM254393	JM 223655	JM 180163	0.0	10071	9571	9346	10523	10718	9238	9933	9337
12	JM 254407	JM254407		JM 233823	0.0	9266	9967	11630	8423	6517	9434	11323	9832
13	JM 254408	JM254408	JM 223558	JM 213180	2.1	9372	11072	9545	8437	10125	9744	11140	10043
14	JM 254429	JM254429	JM 192725	JM 202926	0.6	11173	10374	8148	9139	8330	9147	10945	9447
15	JM 254431	JM254431	JM 192725	JM 172441	1.9	10874	9774	9650	9734	8930	9646	9845	9646
16	JM 254439	JM254439	JM 223584	JM 182534	3.4	9072	10373	10148	9934	10026	9644	10140	9643
17	JM 254449	JM254449	JM 223448	JM 182683	3.2	10972	8573	10246	10931	9324	9543	10040	9542
18	JM 254460	JM254460	JM 192725	JM 172351	0.9	9573	10374	10050	8536	8630	9347	10846	9647
19	JM 254466	JM254466		JM 213340	0.0	8966	10867	10835	8629	5020	9237	11426	9735
20	JM 254469	JM254469	JM 192725	JM 192868	1.9	10473	10374	9249	10439	8928	9946	10646	10046
21	JM 254472	JM254472	JM 223558	JM 182591	1.8	9673	9773	10449	10233	9329	9745	9242	9544
22	JM 254476	JM254476	JM 223558	JM 213174	1.6	8072	11972	9543	8332	10226	9743	11340	10042
23	JM 254483	JM254483	JM 223558	JM 213186	1.5	9672	10672	9046	9539	10226	9445	10340	9644
					★★								
1	JM 254256	JM254256	C0008	JM 223681	0.0	10473	9773	8949	10136	7932	8847	10843	9246
2	JM 254280	JM254280	C0008	JM 223593	0.0	8573	10673	8448	10635	9634	8547	10142	8746
3	JM 254286	JM254286	DVPD008	JM 223671	0.0	11973	9873	6949	9838	8234	8448	10942	8847
4	JM 254310	JM254310	JM 213204	JM 223582	2.2	10572	8973	8940	10427	9222	8540	9443	8541
5	JM 254337	JM254337	JM 223647	JM 172319	0.2	8773	11573	8549	8135	9529	8846	11942	9445
					★★								
1	JM 254376	JM254376	JM 192725	JM 172352	0.2	8973	9874	8550	8537	10130	7747	10345	8047
					★								
1	JM 254411	JM254411		JM 233797	0.0	11166	6467	10431	9424	6818	6835	9622	7132

Selection List on Cow Value
Heifers younger than 2 years

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	Growth Value Acc	Prod Value Acc	
						★★★★★								
1	JM	254282	JM254282	JM 213194	JM 223520	2.1	12372	10173	12544	9135	11423	13443	11043	13243
						★★★★★								
1	JM	254308	JM254308	JM 223524	JM 172287	5.0	8673	12273	12750	7428	9926	12343	11542	12443
2	JM	254321	JM254321	JM 213194	JM 223463	1.9	10772	11373	11441	9830	11524	12842	11342	12842
3	JM	254367	JM254367	JM 223655	JM 213420	1.9	10172	11072	11443	9534	11224	12043	11138	12042
4	JM	254388	JM254388	JM 223448	JM 162217	6.1	11473	10673	11148	9732	9823	12143	11243	12143
5	JM	254392	JM254392	JM 223655	JM 213406	1.9	9372	11172	11945	9238	11825	12044	11442	12144
6	JM	254414	JM254414	JM 223448	JM 182621	1.6	10372	11373	10946	9832	9924	12043	12142	12243
7	JM	254436	JM254436	JM 213194	JM 223535	2.2	10773	10673	11844	9034	10824	12143	11143	12143
8	JM	254445	JM254445	JM 213194	JM 223464	1.8	12072	10473	10743	9834	11023	12342	11142	12242
						★★★★★								
1	JM	254271	JM254271	JM 223647	JM 192764	0.9	12272	10373	10547	8136	10928	11745	11142	11744
2	JM	254276	JM254276	JM 223647	JM 192789	1.3	9472	12373	9449	8741	11028	11147	12440	11646
3	JM	254281	JM254281	JM 223524	JM 172263	1.9	10473	11573	10851	8135	10028	11746	10940	11645
4	JM	254289	JM254289	JM 213204	JM 223580	3.8	9472	13773	9241	8225	9820	11939	11645	12040
5	JM	254295	JM254295	JM 223584	JM 151897	1.5	8873	12073	11450	7832	10328	11545	11342	11644
6	JM	254309	JM254309	JM 213204	JM 223608	2.5	11571	10073	10140	9929	10020	11040	10244	10941
7	JM	254335	JM254335	JM 213204	JM 223666	6.1	10872	12273	8841	9623	9719	11438	10644	11339
8	JM	254336	JM254336	JM 223448	JM 162181	2.2	11473	10573	10349	10735	10026	11745	11442	11844
9	JM	254346	JM254346	JM 223655	JM 213407	2.1	10572	10772	10445	10037	11725	11644	11038	11643
10	JM	254349	JM254349	JM 223448	JM 170158	0.0	11271	10471	9346	10825	10816	11038	10236	10938
11	JM	254359	JM254359	JM 213194	JM 223518	2.2	9773	12173	10445	8135	11125	11644	10644	11544
12	JM	254365	JM254365	JM 223524	JM 192738	1.8	9772	11273	11349	8038	10627	11446	10741	11445
13	JM	254377	JM254377	JM 213204	JM 223467	2.7	12071	10973	9138	9727	9120	11239	10943	11240
14	JM	254417	JM254417	JM 223655	JM 202953	2.0	8072	12573	11047	10038	10826	11845	13242	12444
15	JM	254419	JM254419	JM 223647	JM 172310	3.3	10173	11273	10249	9336	10126	11145	12443	11545
16	JM	254440	JM254440	JM 213194	JM 223523	1.5	10473	11173	9844	9035	10624	11043	10442	10943
17	JM	254456	JM254456	JM 213194	JM 223688	1.3	11572	10473	10643	10234	10324	11843	10243	11643

Selection List on Cow Value

Heifers younger than 2 years

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	
					★★★★☆								
18	JM 254484 JM254484	JM 223569	JM 202963	1.0	11270	10071	10745	11136	9826	11544	10940	11543	
					★★★★								
1	JM 254262 JM254262	JM 192843	JM 223695	1.1	10672	10772	9145	9935	9427	10244	10342	10244	
2	JM 254268 JM254268	JM 223647	JM 172324	0.2	10772	10873	9149	8735	11628	10445	11543	10745	
3	JM 254277 JM254277	JM 223647	JM 192827	7.6	9372	11273	9647	9534	10323	10343	11942	10743	
4	JM 254278 JM254278	JM 223524	JM 192730	1.6	10472	10573	10149	8438	10327	10446	9740	10345	
5	JM 254279 JM254279	JM 223524	JM 192735	0.7	7272	13773	9949	7238	9728	10746	12341	11145	
6	JM 254283 JM254283	JM 223558	JM 162107	1.9	10173	10073	11550	9233	9528	10845	10446	10845	
7	JM 254292 JM254292	JM 213204	JM 223579	2.5	9271	12073	9841	8930	9923	10841	11245	11042	
8	JM 254300 JM254300	JM 223524	JM 213246	2.5	6372	12772	11245	8327	9824	10541	11338	10740	
9	JM 254301 JM254301	JM 223524	JM 213260	2.9	7672	13273	9847	7737	10826	10845	11339	11044	
10	JM 254302 JM254302	JM 223647	JM 172342	1.8	8773	11473	9849	9234	10728	10345	10844	10445	
11	JM 254311 JM254311	JM 223558	JM 162096	1.1	9473	11373	10350	8437	10530	10847	11344	11046	
12	JM 254320 JM254320	JM 223584	JM 203052	1.0	11672	10358	8945	10338	10626	10741	10140	10641	
13	JM 254323 JM254323	JM 223584	JM 141736	1.1	8073	11773	10351	9034	9928	10145	10542	10244	
14	JM 254328 JM254328	JM 223448	JM 162157	4.7	10773	9973	10149	11035	9926	10645	10044	10545	
15	JM 254329 JM254329	JM 203082	JM 233855	3.8	10971	8672	10941	11228	10320	10240	11041	10440	
16	JM 254330 JM254330	JM 223524	JM 192723	1.2	9072	11873	9549	8738	9428	10246	10742	10345	
17	JM 254345 JM254345	JM 203082	JM 233850	2.6	11971	8972	10140	10729	10220	10540	11042	10640	
18	JM 254351 JM254351	JM 213204	JM 223575	6.1	11071	10573	9940	9226	9218	10739	10144	10640	
19	JM 254363 JM254363	JM 223647	JM 192826	4.5	7372	12973	8848	9139	11226	10145	12138	10644	
20	JM 254368 JM254368	JM 223584	JM 203035	0.5	8572	12072	10047	8737	11126	10744	10440	10643	
21	JM 254373 JM254373	JM 213204	JM 223481	1.4	10571	9872	9739	11428	9621	10240	9842	10140	
22	JM 254375 JM254375	JM 213204	JM 223635	3.5	11773	10173	9442	9626	9924	10541	9745	10342	
23	JM 254379 JM254379	JM 233749	JM 233752	0.5	9569	10770	10338	10629	10022	10740	11138	10840	
24	JM 254389 JM254389	JM 223655	JM 202980	1.2	9972	10973	10246	9337	11324	10944	10637	10943	
25	JM 254395 JM254395	JM 223584	JM 203034	1.4	10272	11173	9147	9538	9926	10345	11338	10644	
26	JM 254396 JM254396	JM 223647	JM 172350	1.8	9773	10773	10249	9635	10628	10545	10742	10644	
27	JM 254402 JM254402	JM 223655	JM 213419	0.7	10072	10572	9743	11134	10524	10643	10940	10742	
28	JM 254410 JM254410	JM 223647	JM 172332	0.6	8272	10973	10749	10035	11428	10445	11938	10844	

Selection List on Cow Value

Heifers younger than 2 years

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	
					★★★★								
29	JM 254418	JM254418	JM 223558	JM 151972	0.6	7973	10973	11650	8735	9828	10346	11442	10645
30	JM 254427	JM254427	JM 223647	JM 213299	3.0	10172	11472	9444	8634	10424	10743	12739	11242
31	JM 254441	JM254441	JM 223448	JM 162163	1.2	9873	11073	9948	10634	10426	10944	10741	10943
32	JM 254451	JM254451	JM 223655	JM 182479	1.7	7772	11273	10748	10136	10428	10345	11042	10544
33	JM 254452	JM254452	JM 213204	JM 223598	3.5	11172	10773	9442	8829	9924	10642	10544	10642
34	JM 254455	JM254455	JM 223655	JM 202935	0.9	10072	10673	9946	10034	9626	10444	11542	10744
35	JM 254464	JM254464	JM 223655	JM 202968	1.5	9772	11273	9747	9838	10826	10845	11938	11144
36	JM 254468	JM254468	JM 223448	JM 213208	2.2	9872	11272	9543	10636	9623	10743	11238	10942
37	JM 254471	JM254471	JM 223584	JM 182565	1.2	9973	10573	10048	8833	9828	10045	9642	9944
38	JM 254474	JM254474	JM 223448	JM 182632	3.0	11472	9373	8847	12432	10125	10143	9739	9942
39	JM 254482	JM254482	JM 223448	JM 213218	3.8	10072	10672	9543	10635	9621	10342	11438	10641
40	JM 254500	JM254500	JM 223448	JM 182652	3.0	10272	11558	9245	10027	9723	10838	12238	11238
					★★★★☆								
1	JM 254253	JM254253	642A	JM 223661	0.0	8572	12473	8651	9141	9332	9848	12744	10547
2	JM 254259	JM254259	E530	JM 223585	0.0	7772	11273	9952	9741	10634	9649	10444	9848
3	JM 254260	JM254260	11005	JM 223507	0.0	9370	11171	9235	8427	8822	9339	10026	9436
4	JM 254261	JM254261	11005	JM 172283	0.0	10671	10471	8744	10733	9528	9944	10030	9941
5	JM 254263	JM254263	C0008	JM 223461	0.0	10672	10773	8047	11535	9133	9847	11042	10046
6	JM 254267	JM254267		JM 233766	0.0	11266	8567	11531	9025	6818	9535	10522	9632
7	JM 254269	JM254269	DVPD008	JM 223471	0.0	9873	11773	7348	9335	8334	9047	11042	9446
8	JM 254304	JM254304		JM 233729	0.0	10666	9267	11230	9122	5718	9335	11122	9732
9	JM 254314	JM254314	JM 192725	JM 192842	0.5	9773	10974	8849	9439	9430	9447	10344	9646
10	JM 254316	JM254316	JM 223584	JM 131524	1.0	7173	11574	10251	8935	9929	9446	10342	9545
11	JM 254326	JM254326	JM 223558	JM 213199	1.0	8772	10372	11044	8733	10325	9943	11038	10142
12	JM 254333	JM254333	JM 223448	JM 182629	3.1	10472	10672	8846	10430	9124	9942	11142	10142
13	JM 254341	JM254341	JM 213204	JM 223660	3.2	10771	10173	8839	10627	8920	9639	9143	9440
14	JM 254344	JM254344	JM 223584	JM 182540	2.8	9372	11173	9646	8828	9826	9943	10940	10142
15	JM 254366	JM254366	JM 223584	JM 182508	0.3	7772	12373	8448	10435	10428	9745	10942	9944
16	JM 254372	JM254372	JM 223558	JM 182601	2.4	10072	9273	9948	10433	9828	9345	9742	9344
17	JM 254374	JM254374	PDR 200004	JM 213188	0.5	8871	11071	9040	10328	9624	9441	8940	9241

Selection List on Cow Value

Heifers younger than 2 years

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	
					★★★★								
18	JM 254381	JM254381	JM 223584 JM 141719	1.1	6273	12773	10251	8434	9328	9645	11240	10044	
19	JM 254382	JM254382	JM 192725 JM 202922	1.6	11472	9274	8448	10738	9728	9146	9744	9146	
20	JM 254383	JM254383	JM 223584 JM 203027	4.0	7972	11273	9446	9838	10325	9344	10438	9543	
21	JM 254399	JM254399	JM 223647 JM 172338	0.2	9772	11073	8449	9534	10728	9545	11244	9945	
22	JM 254403	JM254403	JM 223584 JM 182520	0.5	8272	12173	8948	8533	10028	9645	11440	9944	
23	JM 254404	JM254404	JM 192725 JM 200168	0.0	10571	9871	8945	10325	9622	9340	9238	9240	
24	JM 254405	JM254405	JM 223584 JM 203069	1.1	8472	10758	10845	8637	10326	9841	11140	10141	
25	JM 254406	JM254406	JM 233837	0.0	11466	9167	10433	9526	6020	9437	10626	9635	
26	JM 254409	JM254409	JM 233833	0.0	10166	9767	11230	8824	6318	9635	11422	10032	
27	JM 254416	JM254416	JM 223655 JM 182496	0.7	8573	11073	9049	10837	11427	9745	10840	9944	
28	JM 254423	JM254423	JM 223584 JM 141780	0.9	8073	11874	9351	9237	10330	9747	11644	10146	
29	JM 254425	JM254425	JM 233832	0.0	11166	9367	10932	9226	5719	9636	10725	9834	
30	JM 254428	JM254428	JM 233789	0.0	11366	8767	10631	8824	6919	9136	10723	9433	
31	JM 254437	JM254437	JM 213194 JM 223557	4.2	9173	10673	9444	10233	10421	9742	9542	9642	
32	JM 254461	JM254461	JM 233882	0.0	7566	10667	11831	7924	6419	9036	10722	9333	
33	JM 254473	JM254473	JM 223647 JM 213294	1.1	6372	12972	9844	8034	9426	9543	12938	10342	
34	JM 254479	JM254479	JM 223558 JM 213197	3.6	9272	10572	9545	10236	9624	9643	11338	9942	
35	JM 254486	JM254486	JM 213204 JM 182609	1.5	10672	9674	8747	10130	10125	9143	8148	8744	
36	JM 254487	JM254487	PDR 200004 JM 182663	0.4	10471	10271	9946	8731	9928	9944	9040	9643	
37	JM 254491	JM254491	JM 213194 JM 223525	0.1	10872	8773	10441	9929	10224	9542	8742	9242	
38	JM 254493	JM254493	JM 223655 JM 182482	0.8	11172	8973	8649	11537	10827	9245	9040	9044	
					★★								
1	JM 254252	JM254252	C0008 JM 223591	0.0	12473	8473	7949	11435	9334	8748	9542	8747	
2	JM 254266	JM254266	DVPD008 JM 223602	0.0	10573	10173	7348	9836	8532	8047	10344	8446	
3	JM 254270	JM254270	C0008 JM 223500	0.0	10873	9573	7549	11635	9534	8648	9144	8547	
4	JM 254290	JM254290	JM 223584 JM 182525	0.0	10572	10073	7948	10133	10326	8944	9042	8744	
5	JM 254305	JM254305	JM 223584 JM 182527	2.8	10273	9273	8848	10333	9926	8644	9339	8643	
6	JM 254324	JM254324	JM 192725 JM 192900	1.5	8673	10774	8949	9439	9428	8746	10344	8946	
7	JM 254347	JM254347	JM 233871	0.0	11266	8367	10831	9024	6118	8835	10324	9033	
8	JM 254348	JM254348	JM 233757	0.0	11166	7067	11830	10224	6318	8635	10024	8733	

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	
					★★								
9	JM 254354	JM254354	JM 192725 JM 172366	2.6	119 74	81 74	83 50	106 34	90 29	82 46	89 46	81 46	
10	JM 254390	JM254390	JM 192725 JM 202928	1.3	97 73	109 74	81 48	91 39	82 29	86 47	112 44	91 46	
11	JM 254394	JM254394	JM 192725 JM 172401	0.9	91 74	98 74	100 50	95 37	89 30	88 47	97 48	89 47	
12	JM 254398	JM254398	JM 223558 JM 162133	1.6	84 73	97 73	102 50	103 35	104 28	89 46	102 43	91 45	
13	JM 254413	JM254413	PDR 200004 JM 182611	1.9	107 72	90 71	88 46	92 32	97 26	84 43	81 42	81 43	
14	JM 254422	JM254422	JM 213204 JM 223643	3.3	106 72	90 73	89 42	109 26	96 22	88 40	84 44	85 41	
15	JM 254426	JM254426	JM 233784	0.0	103 66	86 67	116 31	88 25	62 18	89 35	105 23	91 33	
16	JM 254463	JM254463	JM 192725 JM 172423	0.7	81 74	98 74	106 51	99 36	91 31	88 47	100 46	89 47	
17	JM 254465	JM254465	JM 192725 JM 172421	1.6	89 74	104 74	81 50	97 34	88 29	80 46	105 46	84 46	
18	JM 254481	JM254481	JM 192725 JM 172415	1.8	107 74	94 74	88 51	101 34	91 30	89 47	92 48	88 47	
19	JM 254494	JM254494	JM 223524 JM 192706	1.0	76 71	118 73	94 48	79 34	86 26	89 44	100 39	90 43	
					★★								
1	JM 254287	JM254287	JM 233816	0.0	103 66	76 67	112 31	90 24	69 18	79 35	100 22	81 32	
2	JM 254312	JM254312	JM 223558 JM 182595	1.7	96 72	92 58	71 47	104 33	107 26	72 40	96 39	74 40	
					★								
1	JM 254325	JM254325	JM 192725 JM 172363	3.4	109 74	77 74	75 50	104 32	90 29	65 46	83 45	65 46	
2	JM 254498	JM254498	JM 192725 JM 192833	1.2	86 73	89 74	93 48	96 34	71 28	69 45	97 43	72 45	

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

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

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

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

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

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

How to use breeding values to select animals

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

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

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

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

How to improve the herd genetically

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

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

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

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

Conclusion

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

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

