



PINZYL

BREEDING VALUE REPORT

November 2024



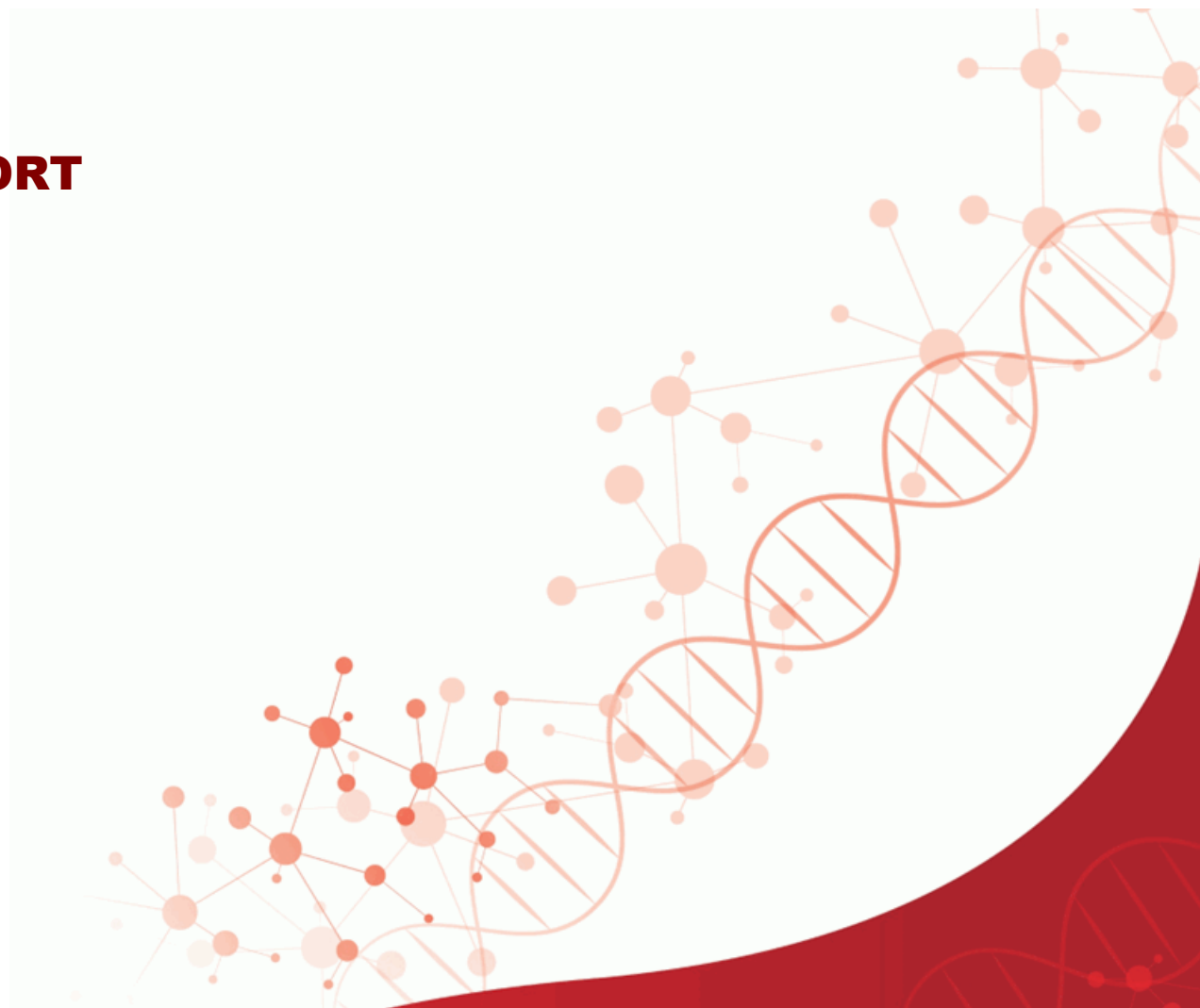
MBITSINI PINZYL STUD

Herd Number: 647963

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CERTIFICATE
OF QUALITY
Valid up to
1 April 2024



EBVs, EBVi's and Selection Values

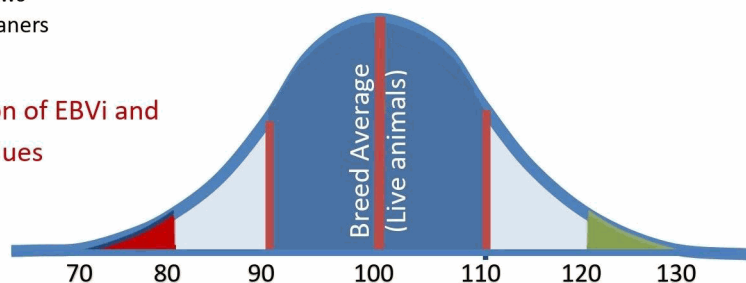


Logix Cow Value

Selecting for:

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

Interpretation of EBVi and Selection Values



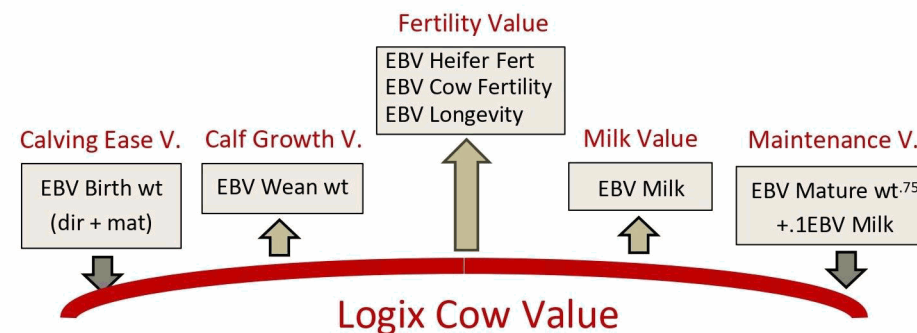
	<< Less favourable	Average	>> More favourable
Logix Cow Value			
Calving Ease Value	• Heavier birth weight		• Lower birth weight
Calf Growth Value	• Lower weaning wght		• Higher weaning wght
Milk Value	• Less milk		• More milk
Maintenance Value	• Higher maintenance (Heavier cow)		• Lower maintenance (Lighter cow)
Fertility Value	• Lower fertility		• Higher fertility
Cow Value	• Lower Cow Value		• Higher Cow Value
		90 – 110: = 50% of population = Average = Save choice	

EBVi (EBVindex): The average EBVi of all the live animals in the breed is 100, and all EBVi values are expressed relative to this value. Values above 100 are always in a more desirable direction. Note that a very high index is not always desirable. For certain traits, such as birth weight, average values may 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 traits).

Selection values combine similar breeding values in a scientific manner to simplify the selection of animals. For example, HF (Heifer Fertility), CF (Cow Fertility) and Longevity are combined to form the Fertility Value 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.

Cow Value combine relative selection 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.



The Logix Cow Value identifies fertile, genetically balanced animals. Balanced animals breed heavy weaners relative to cow weight.

Description of traits

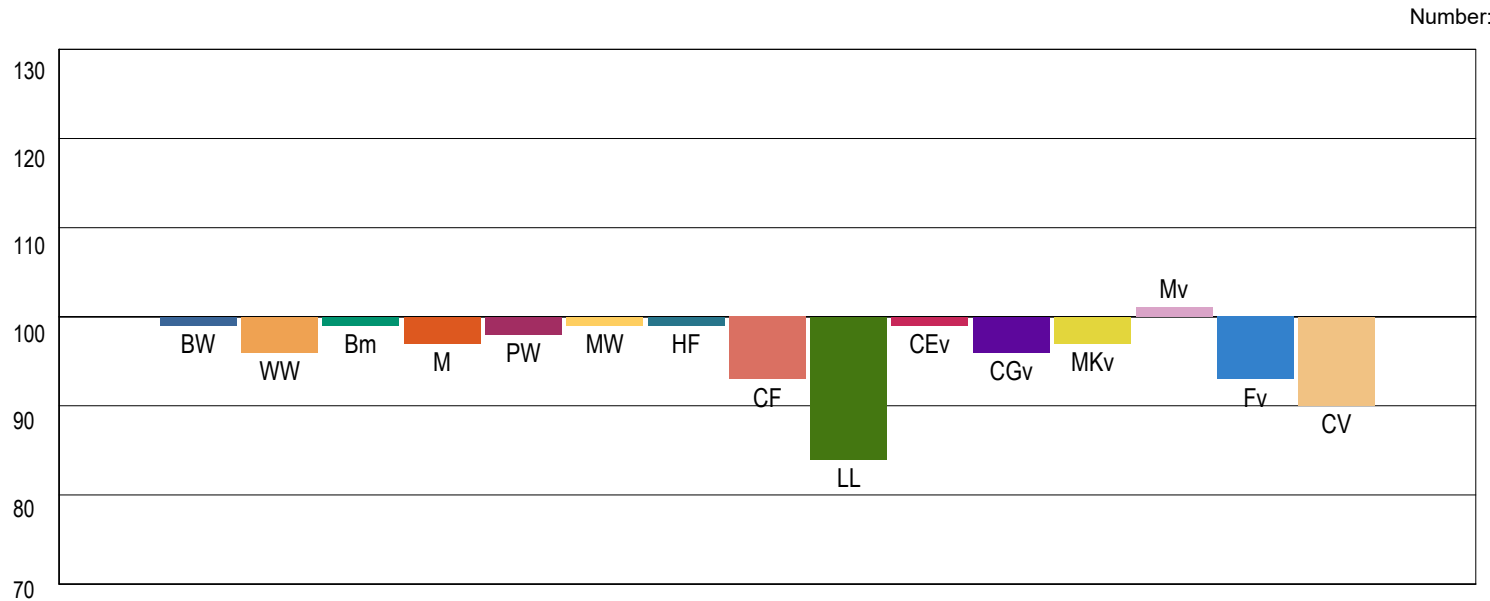
* Depending on selection goal

	EBVi	Description / Measurement	Goal		General Guidelines*					
					80	90	100	110	120	
Selection Values	Cow Value	Combination of sub-values (Rand-value)	Profitable cows	Loss						Profit
	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 & Calf	Birth weight direct	Birth weight (Calf's genetic ability)	Average birth weight	Heavy						Light
	Birth weight mat	Birth weight (Dam's genetic ability)	Easy calving	Heavy						Light
	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
	Mature Cow Weight	Cow weight at weaning of first three calves	Mature cow weight	Light				*	*	Heavy
Ferti.	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

Selection of breeding animals

1. **Cow value:** The cow value indicates genetic balance. Selected Values can range from 90 (acceptable) to 150 (excellent).
2. **Sub values:** Do the sub values meet requirements? For example heavy weaner calves (High Calf Growth Value) or lighter cow weights (High Maintenance Value)
3. **Inbreeding:** Study pedigrees on Logix to keep inbreeding low by preventing closely related animals to mate.
4. **Phenotype:** Breeding animals must be functionally efficient and not transmit any defects to their calves.

Herd and Breed Averages



Abbreviations:

Breeding Value (EBV) and Breeding Value Index (EBVi):

BW	Birth Weight
WW	Weaning Weight
Bm	Birth maternal
M	Milk
PW	Post-Wean Weight
MW	Mature Weight
HF	Heifer Fertility
CF	Cow Fertility
LL	Longevity

Selection Values

CEv	Calving Ease Value
CGv	Calf Growth Value
Mkv	Milk Value
Mv	Maintenance Value
Fv	Fertility Value
CV	Cow Value

	Trait	EBV Herd	EBVi Herd	EBV Breed
Prewrite Growth	Birth Wt	0.16	99	0.07
	Weaning Wt	0.21	96	1.7
	Birth Mat.	0.04	99	-0.03
	Milk(Wn.Mat.)	0.7	97	1.4
Postwean Growth	Post wean Wt	-2.3	98	-1.2
	Mature Wt	8	99	9
Fertility	Heifer Fertility	1	99	1
	Cow Fertility	0	93	-1
	Longevity	7	84	12

Selection Value	Avg. Herd
Calving Ease	99
Calf Growth	96
Milk	97
Maintenance	101
Fertility	93
Cow Value	90

- 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?:

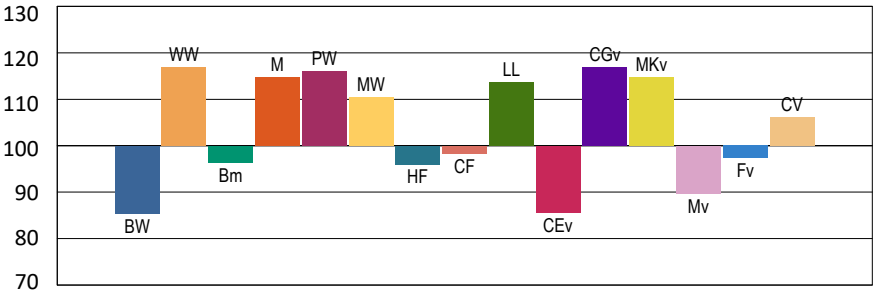
- Calving ease: Smaller calf at birth - easier calving
- Calf growth: Heavier calves at wean due to growth potential of the calf
- Milk: Cows with more milk and better mothering ability
- Maintenance: Animals with low maintenance requirements (lower mature weight).
- Fertility: Cows/daughters that calve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

Genetic Windows

Bulls on Farm

Bulls born in 2021 and earlier

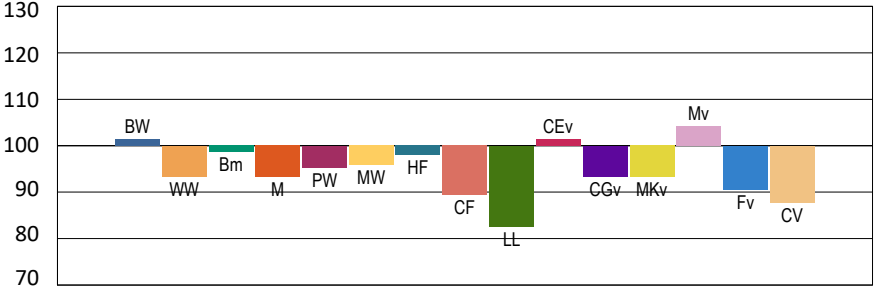
Number: 3



Cow Herd

Cows born in 2022 and earlier

Number: 19



Abbreviations

BW	Birth weight
WW	Weaning weight
Bm	Birth mat
M	Milk
PW	Post-wean weight
MW	Mature weight
HF	Heifer Fertility
CF	Cow Fertility
LL	Longevity

Sires of Young Animals

Sires of animals 3 years and younger

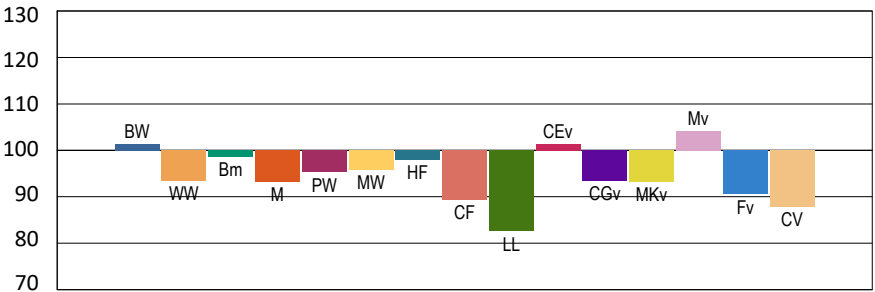
Number:



Cows older than 6 years

Cows born in 2018 and earlier

Number: 19



CEv	Calving Ease value
CGv	Calf Growth value
MKv	Milk value
Mv	Maintenance value
Fv	Fertility value
CV	Cow Value

Bull Calves

Bull calves born in

Number:



Heifer Calves

Heifers born in

Number:

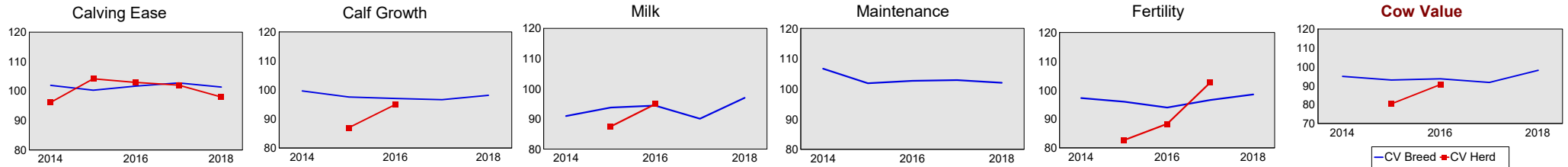


Summary of Genetic Merits of Cows in the Herd

			Selection Values (SV)						Calf Weight		Mother		Growth		Fertility		
Birth Year	Nr of cows	Avg Cow Value Star grading	Calv. Ease	Calf Grwth	Milk	Maint.	Fert.	Cow Value	Birth Weight	Weaning Weight	Birth Mat.	Milk (Wn.Mat.)	Post-wn weight	Mature weight	Heifer Fertility	Cow Fertility	Longevity
Avg Cows in Breed			101	99	99	101	100	100	101	99	100	99	100	99	100	100	100
2010	1		88	101	106		85		89	101	86	106			89		65
2011	7	★★★★☆	101	94	100	105	94	102	100	94	101	100	98	95	100	93	78
2012	2	★★☆	105	78	85	110	80	68	104	78	107	85	80	91	89	81	77
2013	2		103	93	100		117		103	93	101	100	94		115	113	81
2014	3	★★★☆☆	96	106	90	97	86	88	96	106	93	90	106	103	95	85	85
2015	6	★★★	101	88	89	106	88	77	102	88	95	89	89	94	96	88	85
2016	3	★★★★	101	95	95	104	97	91	100	95	104	95	97	96	102	95	84
2017	3	★★★★★	106	100	105	102	104	113	106	100	99	105	106	98	112	99	83
2018	1	★★★★☆	98	94	91	113	71	81	97	94	101	91	91	87	87	72	72
Avg Cows in Herd			100	94	96	105	91	89	100	94	99	96	95	95	98	91	79

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 (CV)
	Birth Weight		Mat EBV	Calv. Ease	Weaning Weight		Calf Growth	Milk (Wn.Mat.)			Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Fertility	
	Number	Dir EBV			Number	EBV		Number	EBV	Number	EBV	Milk	Number	EBV		Number	EBV	Number	EBV	Number	EBV		
2015	11	-0.44	0.10	104	6	-3.1	87	6	-2.03	88					6	10.1			6	-0.2	83	80	
2016	16	-0.16	-0.26	103	11	-0.1	95	11	0.00	95					6	4.4			13	1.0	88	91	
2017	15	-0.12	-0.10	102											9	-2.4			12	5.0	103		
2018	1	0.40	-0.09	98																			

Breed

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance						Fertility						Cow Value (CV)	
	Birth Weight		Calv. Ease		Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Milk	Postwean Weight		Mature Weight		Mainte-nance	Heifer Fert.		Cow Fert.		Longevity		Ferti-lity		
	Number	Dir EBV			Mat EBV	Number		EBV	Number		EBV	Number	EBV	Number		EBV	Number	EBV	Number	EBV	Number			EBV
2015	705	0.05	0.01	100	249	0.8	98	249	-0.30	94	5	1.7	44	7	102	149	1.4	97	-0.9	762	4.0	96	93	
2016	606	-0.09	-0.04	102	243	0.6	97	243	-0.12	94	16	-4.6	24	7	103	39	0.3	27	-0.1	586	5.4	94	94	
2017	294	-0.21	-0.09	103	105	0.5	97	105	-1.28	90	92	-4.1	44	4	103	87	-0.2	47	0.3	279	6.7	97	92	
2018	318	-0.05	-0.08	101	204	1.0	98	204	0.57	97	159	-1.3	42	5	102	104	-0.2	48	-1.4	317	7.4	99	98	
2019	381	0.20	-0.08	99	284	1.8	100	284	0.32	96	230	-1.0	87	6	101	132	-0.3	89	-0.9	337	7.7	100	96	
2020	355	-0.06	-0.09	101	296	1.0	98	296	0.85	98	215	-1.6	33	9	103	81	1.4	15	-1.7	208	7.2	100	98	
2021	371	-0.17	-0.03	102	308	1.2	99	308	0.55	97	204	-1.3			101	71	3.5						96	99
2022	319	-0.14	0.06	101	289	1.1	98	289	0.96	98	177	-1.3			99									98
2023	313	0.08	-0.05	100	178	1.7	100	178	1.66	101														99
2024	100	0.06	-0.18	100																				

Sires

Sire		Selection Values (SV)						Calf Weight		Mother		Growth		Fertility			Measured Progeny Number of Herds								
ID	Sire ID	Calving Ease	Calf Growth	Milk	Maintenance	Fertility	Cow Value	Birth Weight	Weaning Weight	Birth Mat.	Milk (Wn.Mat.)	Post-wean Weight	Mature Weight	Heifer Fertility	Cow Fertility	Longevity	Birth	Wn	Gr. test	Dght/Calves.					
Reg. Nr	Dam ID	SV Acc	SV Acc	SV Acc	SV Acc	SV Acc	SV Acc	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc					EBVi	EBV Acc	EBVi		
Breed Average:								0.07	100	1.7	100	-0.03	100	1.4	100	-1.2					100	9	100	0.6	100
BB 160003	R 130006	114	109	89	82	74	109	-1.34	5.1	-0.55	-1.7	7.0	28	17.0	3.2	8.4	109	84		5	5				
	LOEK PZ 130247	88	87	70	29	38	55	90	113	87	109	74	110	51	80	65	1	1		1					
NGIMLEB	NGIMT 100315	83	108	129	102	115	111	1.86	4.4	0.32	9.2	8.6	8	-19.8	-2.7	13.2	24	21	11	7	11				
	160517 LEB 160517 NGIFLEB 040315	83	81	69	38	34	53	84	84	81	108	73	93	51	125	47	1	1		1					
PZ 060456	KLEIN NATAL PGRFGB 012671	94	103	97	105	88	90	0.90	2.6	-0.31	0.5	0.8	4	11.1	0.5	-8.9	29	4		2	4				
		83	68	60	10	32	43	85	92	68	103	69	106	49	87	71	5	2		2					
PZ 060477	PZ 030017	98	81	92	98	65	61	0.32	-5.1	0.09	-0.8	-12.2	11	32.0	3.8	-4.6	25	14	1	4	6				
	KNIGHT PZ 020412	83	78	69	21	46	54	84	98	78	81	32	80	62	62	76	1	1		4					
PZ 070028	NGIFZZN 040091	107	78	90	129	60	77	-0.41	-6.3	-0.75	-1.2	-17.3	-21	14.3	6.4	-2.0	61	12	3	4	5				
		PZ070028	90	84	72	34	51	60	92	104	84	78	58	71	68	84	82	7	2		3				
PZ 070711	PZ070711	110	76	58	110	87	54	-0.73	-7.0	-1.06	-9.9	-16.9	-1	-1.4	1.8	3.3	120	14	2	13	35				
		PZ070711	93	82	76	39	60	65	94	107	82	76	49	71	76	102	87	6	2		6				
PZ 090032	PZ 060743	92	117	79	89	80	84	0.81	7.9	0.46	-4.3	6.7	21	6.1	2.8	5.7	74	22	5	5	10				
	PZ090032 PZ 060621	89	84	74	33	52	61	90	93	84	117	79	90	66	93	81	9	4		4					
PZ 110424	PZ 080043	108	80	78	110	79	68	-0.86	-5.6	0.15	-4.6	-12.1	-1	14.3	2.3	3.5	53	39	3	6	9				
	PZ110424 PZ 092009	85	81	72	33	44	57	86	108	81	80	76	96	62	84	71	4	5		1					
PZ 120206	PGRMB 080867	73	91	100	106	105	55	2.69	-1.5	1.47	1.5	-5.7	3	-14.5	-1.0	2.4	22	6	1	1	3				
	PZ 120206 PZ 052064	84	79	64	16	28	46	85	76	79	91	71	70	42	92	68	6	3		1					
PZ 120248	PZ 090200	88	136	116	111	89	137	1.35	14.7	0.37	5.7	22.9	-2	3.7	0.9	4.2	26	4		1	2				
	NKOLODE PZ 090441	80	70	61	19	28	44	81	88	70	136	69	92	44	96	62	4	1		1					
PZ 120264	PZ 080693	111	84	86	101	119	89	-0.91	-4.2	-0.62	-2.3	-11.3	8	-16.0	-3.9	11.6	8	3							
	PZ 120264 PZ 100014	83	73	63	20	38	49	84	109	73	84	70	112	50	120	63	4	2							
PZ 130245	PZ 070487	105	103	109	90	106	114	-0.60	2.6	0.30	3.8	2.8	20	-9.4	-1.6	4.0	5	2							
	CARTER PZ 050026	80	76	64	19	40	50	81	106	76	103	71	93	52	112	62	2	2							
R 130048	PZ 090191	103	101	89	98	79	92	-0.13	2.2	-0.47	-1.5	0.6	12	11.3	2.5	-0.8	23	8							
	R 130048 R 090010	80	72	59	15	30	44	81	102	72	101	68	109	40	87	56	3	1							

Bulls

Bull		Selection Values (SV)						Calf Weight				Mother				Growth				Fertility					
ID	% Inbr.Sire ID	Calving Ease	Calf Growth	Milk	Mainte-nance	Fertility	Cow Value	Birth Weight	Weaning Weight	Birth Mat.	Milk (WnMat.)	Post-wn Weight	Mature Weight	Heifer Fertility	Cow Fertility	Longevity									
Bull Name	Dam ID	SV Acc	SV Acc	SV Acc	SV Acc	SV Acc	SV Acc	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi								
Inbreeding >6% is high		Breed Average:						0.07	100	1.7	100	-0.03	100	1.4	100	-1.2	100	9	100	0.6	100	-1.2	100	12.4	100
		Bull Average:						0.37	97	2.6	103	-0.01	100	2.1	103	-0.1	102	13	103	1.4	99	-1.4	101		
		Shaded EBVi:						90-110		>100		>100		>100		>100		90-110		>100		>100		>100	
MBT 140012	PZ 090032	92 72	109 69	91 59	97 17	86 26	87 41	0.89	4.8	0.27	-1.0	3.4	12	3.3	1.7	15.2									
MBITSINI MBT 140012	PZ 110511	★★★	★★★	★★★	★★★	★★	★★	73 92	69 109	66 94	59 91	28 108	17 103	33 97	19 85	52 107									
BB 190011	BB 160003	92 76	115 77	137 63	82 24	97 26	128 46	0.91	7.1	0.29	11.3	6.8	28	11.8	-1.5	14.7									
BERGALLEEN BB 190011	BB 160012	★★★	★★★★	★★★★★	★★	★★★	★★★★	77 92	77 115	68 94	63 137	63 115	24 118	34 87	17 101	46 106									
PZ 190320	NGIMLEB 160517	73 86	127 84	116 63	90 21	109 26	103 47	3.18	11.3	-0.05	5.7	12.6	20	-2.4	-2.9	22.6									
MATHOMO PZ190320	PGRFB 150083	★★	★★★★	★★★★★	★★★	★★★	★★★★	88 72	84 127	67 101	63 116	60 125	21 110	38 104	13 109	46 128									

Cows

Cow			Selection Values (SV)					Calf Weight		Mother		Growth		Fertility			
ID	% Inbr.	Sire ID Dam ID	Calving Ease	Calf Growth	Milk	Mainte- nance	Fertility	Cow Value	Birth Weight	Weaning Weight	Birth Mat.	Milk (WnMat.)	Post-wn Weight	Mature Weight	Heifer Fertility	Cow Fertility	Longevity
			SV Acc	SV Acc	SV Acc	SV Acc	SV Acc	SV Acc	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc
			Breed Average: Bull Average: Shaded EBVi						0.07 100 0.37 97	1.7 100 2.6 103	-0.03 100 -0.01 100	1.4 100 2.1 103	-1.2 100 -0.1 102	9 100 13 103	0.6 100 1.4 99	-1.2 100 -1.4 101	12.4 100
Inbreeding >6% is high									90-110	>100	>100	>100	>100	90-110	>100	>100	>100
PZ 102024 MATHOMO PZ102024			88 68 ★★	101 63 ★★★	106 53 ★★★		85 16 ★★		1.24 67 89	1.9 63 101	0.68 73 86	3.0 53 106			9.3 30 89		-0.4 45 65
PZ 110105 MATHOMO PZ110105			103 78 ★★★	96 66 ★★★	103 61 ★★★	105 5 ★★★	97 34 ★★★	102 42 ★★★	-0.16 78 102	0.2 66 96	-0.29 73 105	2.3 61 103	-2.2 10 98	4 5 95	2.7 45 97	-0.6 22 96	4.4 56 78
PZ 110514 MATHOMO PZ110514			92 68 ★★★	98 65 ★★★	103 61 ★★★		91 12 ★★★		0.84 67 93	1.0 65 98	0.43 73 91	2.3 61 103			3.0 22 97		3.5 43 76
PZ 110545 MATHOMO PZ110545			94 64 ★★★	98 63 ★★★	104 53 ★★★				0.70 63 94	0.9 63 98	0.31 68 93	2.4 53 104					1.8 38 71
PZ 110546 MATHOMO PZ110546			105 60 ★★★	93 63 ★★★	100 53 ★★★		104 12 ★★★		-0.31 60 103	-1.0 63 93	-0.36 65 107	1.3 53 100			-15.5 22 119		4.5 40 79
PZ 110556 MATHOMO PZ110556			103 68 ★★★	92 65 ★★★	97 61 ★★★		85 18 ★★		-0.15 67 102	-1.1 65 92	-0.17 73 103	0.5 61 97			9.2 36 90		5.8 46 82
PZ 110571 MATHOMO PZ110571			100 68 ★★★	94 65 ★★★	98 65 ★★★		102 19 ★★★		0.09 67 100	-0.6 65 94	-0.02 73 100	0.9 65 98			-4.9 30 107	-1.2 8 100	8.9 42 90
PZ 110572 MATHOMO PZ110572			109 68 ★★★	89 65 ★★	93 61 ★★★		82 19 ★★		-0.76 67 108	-2.4 65 89	-0.55 73 111	-0.4 61 94			7.4 30 92	2.1 8 82	1.4 48 70
PZ 120429 MATHOMO PZ 120429			99 76 ★★★	79 74 ★★	97 66 ★★★	107 11 ★★★	73 38 ★★	69 47 ★	0.30 76 98	-5.9 74 79	-0.38 73 107	0.7 66 97	-11.3 16 82	2 11 93	19.3 50 78	3.2 25 77	3.3 55 75
PZ 120495 MATHOMO PZ 120495			111 78 ★★★★	77 75 ★★	72 65 ★★	112 19 ★★★★	87 40 ★★	67 50 ★	-1.03 78 110	-6.6 75 77	-0.39 74 107	-6.3 65 72	-13.3 25 78	-3 19 88	0.5 51 100	1.6 29 85	4.5 58 78
MBT 130003 MBITSINI MBT 130003			107 74 ★★★	90 65 ★★★	101 61 ★★★		117 34 ★★★★		-0.73 75 107	-2.0 65 90	0.06 69 98	1.8 61 101	-4.6 5 94		-9.5 49 112	-3.9 19 114	6.2 40 83
MBT 130009 MBITSINI MBT 130009			99 72 ★★★	96 64 ★★★	99 57 ★★★		116 30 ★★★★		0.25 73 98	0.1 64 96	-0.22 67 104	1.2 57 99			-14.3 44 118	-3.3 15 111	4.3 36 78
MBT 140005 MBITSINI MBT 140005			99 74 ★★★	104 69 ★★★	90 59 ★★★	97 17 ★★★	84 28 ★★	90 42 ★★★	0.17 75 99	3.2 69 104	0.12 69 97	-1.4 59 90	1.2 28 104	12 17 103	5.3 38 94	1.8 19 84	6.5 52 84
MBT 140008 MBITSINI MBT 140008			99 74 ★★★	103 69 ★★★	88 62 ★★	96 17 ★★★	91 28 ★★★	89 43 ★★	0.15 75 99	2.9 69 103	0.23 68 95	-1.8 62 88	0.9 28 104	13 17 104	0.6 36 100	0.8 19 89	7.3 46 86
MBT 140011 MBITSINI MBT 140011			89 76 ★★	110 69 ★★★★	93 59 ★★★	97 17 ★★★	83 28 ★★	84 42 ★★	1.20 76 90	5.3 69 110	0.57 71 88	-0.6 59 93	4.5 28 110	12 17 103	7.7 36 91	2.0 19 83	6.5 49 84
MBT 150003 MBITSINI MBT 150003			86 69 ★★	85 70 ★★	99 59 ★★★	106 10 ★★★	89 22 ★★	62 39 ★	1.50 69 87	-3.7 70 85	0.54 66 88	1.1 59 99	-8.5 22 87	3 10 94	2.4 31 98	1.1 14 88	2.9 44 74

Cows

Cow			<75	75 - 125	>125	Selection Values (SV)						Calf Weight				Mother				Growth				Fertility					
			Calving Ease	Calf Growth	Milk	Mainte-nance	Fertility	Cow Value	Birth Weight	Weaning Weight	Birth Mat.	Milk (WnMat.)	Post-wn Weight	Mature Weight	Heifer Fertility	Cow Fertility	Longevity												
ID	%	Sire ID	SV Acc	SV Acc	SV Acc	SV Acc	SV Acc	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi	EBV Acc	EBVi				
Name	Inbr.	Dam ID																											
Inbreeding >6% is high			Breed Average:					0.07	100	1.7	100	-0.03	100	1.4	100	-1.2	100	9	100	0.6	100	-1.2	100	12.4	100				
			Bull Average:					0.37	97	2.6	103	-0.01	100	2.1	103	-0.1	102	13	103	1.4	99	-1.4	101						
			Shaded EBVi					90-110	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100	>100				
MBT 150005		PZ 110424	99 72	90 73	89 61	107 17	91 24	78 42	0.16 73	-2.1 99	0.06 68	-1.6 98	-6.2 32	2 17	4.9 34	0.5 95	7.7 43												
MBITSINI MBT 150005		PZ 110571	★★★☆☆	★★★☆☆	★★★☆☆	★★★★★	★★★★★	★★★☆☆																					
MBT 150007		2 PZ 110424	111 74	78 73	89 63	105 18	87 34	79 46	-1.22 75	-6.4 73	0.19 69	-1.6 96	-12.3 36	4 18	4.7 50	1.4 95	9.1 52												
MBITSINI MBT 150007		PZ 100141	★★★★★☆☆	★★★☆☆	★★★☆☆	★★★★★	★★★☆☆	★★★☆☆																					
MBT 150011		3 PZ 110424	99 73	98 73	88 62	104 16	88 24	85 42	0.11 74	0.9 73	0.19 68	-1.9 96	-2.2 34	5 16	2.0 36	1.3 98	8.4 46												
MBITSINI MBT 150011		PZ 110024	★★★★★☆☆	★★★☆☆	★★★☆☆	★★★★★	★★★☆☆	★★★☆☆																					
MBT 150014		PZ 110424	108 72	84 68	87 60	109 17	87 30	82 43	-0.87 72	-4.3 109	0.00 68	-2.2 99	-9.2 32	0 17	4.9 47	1.3 95	8.1 47												
MBITSINI MBT 150014		PZ 110556	★★★★★☆☆	★★★☆☆	★★★☆☆	★★★★★	★★★☆☆	★★★☆☆																					
MBT 150015		13 PZ 110424	103 72	90 72	84 58				-0.40 73	-1.9 104	0.46 65	-2.9 90	-6.9 28					6.8 28	6.3 44										
MBITSINI MBT 150015		PZ 110018	★★★★★☆☆	★★★☆☆	★★★☆☆																								
MBT 160005		PZ 120264	106 75	88 73	95 57	105 10	123 34	96 44	-0.48 76	-2.6 105	-0.28 65	-0.1 105	-7.2 22	4 10	-20.1 50	-4.5 125	14.2 43												
MBITSINI MBT 160005		MBT 130003	★★★★★☆☆	★★★☆☆	★★★☆☆	★★★★★	★★★★★	★★★★★☆☆																					
MBT 160011		R 130048	92 72	104 71	97 56	102 8	85 16	87 36	1.01 73	3.0 71	-0.03 65	0.7 100	2.0 20	8 8	7.4 23	1.5 92	2.3 38												
MBITSINI MBT 160011		PZ 110514	★★★★★☆☆	★★★★★	★★★☆☆	★★★★★	★★★☆☆	★★★☆☆																					
MBT 160016		R 130048	104 72	94 71	94 56	105 8	82 18	90 37	-0.22 73	-0.4 71	-0.31 65	-0.3 106	-2.7 20	4 8	9.8 27	2.1 89	3.3 38												
MBITSINI MBT 160016		PZ 110556	★★★★★☆☆	★★★☆☆	★★★☆☆	★★★★★	★★★☆☆	★★★★★☆☆																					
MBT 170002		PZ 130245	104 73	98 67	105 56	98 10	111 30	107 41	-0.37 74	0.9 67	0.06 65	2.7 98	-0.3 21	12 10	-20.8 46	-1.8 126	10.5 42												
MBITSINI MBT 170002		PZ 110501	★★★★★☆☆	★★★☆☆	★★★☆☆	★★★☆☆	★★★★★☆☆	★★★★★																					
MBT 170003		PZ 130245	118 73	88 67	102 56	98 10	97 22	111 38	-1.90 74	-2.5 67	-0.18 66	2.0 103	-5.1 21	12 10	-4.5 28	-0.1 106	2.6 38												
MBITSINI MBT 170003		PZ 110145	★★★★★☆☆	★★★☆☆	★★★☆☆	★★★☆☆	★★★☆☆	★★★★★☆☆																					
MBT 170018		PZ 120248	96 74	115 65	109 57	109 10	103 22	121 37	0.43 75	6.9 65	0.22 65	3.8 95	11.7 20	0 10	-2.9 33	-1.5 104	5.2 36												
MBITSINI MBT 170018		MBT 130003	★★★★★☆☆	★★★★★☆☆	★★★☆☆	★★★★★	★★★★★	★★★★★																					
MBT 180001		PZ 070028	98 77	94 70	91 60	113 19	71 28	81 43	0.40 78	-0.5 70	-0.09 67	-0.9 101	-6.4 32	-4 19	11.0 38	4.2 87	2.2 47												
MBITSINI MBT 180001		MBT 140011	★★★★★☆☆	★★★☆☆	★★★☆☆	★★★★★☆☆	★★★☆☆	★★★☆☆																					

Selection List on Cow Values

Bulls 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	
Sorted on ID											
							★★★★				
1	BB 190011 BB 190011	BB 160003	BB 160012	0.2	9276	11577	13763	8224	9726	12846	
							★★★★				
1	PZ 190320 PZ190320	NGIMLEB 160517	PGRFB 150083	0.0	7386	12784	11663	9021	10926	10347	
							★★				
1	MBT 140012 MBT 140012	PZ 090032	PZ 110511	0.0	9272	10969	9159	9717	8626	8741	

Selection List on Cow Values

Cows 2 years and older

ID	Name	Sire ID	Dam ID	% Inbreeding	Calving Ease Value Acc	Calf Growth Value Acc	Milk Value Acc	Maint. Value Acc	Fertility Value Acc	Cow Value Acc	
Sorted on ID											
							★				
							★★★★★				
1	MBT 170018	MBT 170018	PZ 120248	MBT 130003	0.0	96 74	115 65	109 57	109 10	103 22	121 37
							★★★★★				
1	MBT 170003	MBT 170003	PZ 130245	PZ 110145	0.0	118 73	88 67	102 56	98 10	97 22	111 38
							★★★★★				
1	MBT 170002	MBT 170002	PZ 130245	PZ 110501	0.0	104 73	98 67	105 56	98 10	111 30	107 41
2	PZ 110105	PZ110105	PZ 060456	GS 080389	0.0	103 78	96 66	103 61	105 5	97 34	102 42
							★★★★★				
1	MBT 140005	MBT 140005	PZ 090032	PZ 110525	0.0	99 74	104 69	90 59	97 17	84 28	90 42
2	MBT 160005	MBT 160005	PZ 120264	MBT 130003	0.0	106 75	88 73	95 57	105 10	123 34	96 44
3	MBT 160016	MBT 160016	R 130048	PZ 110556	0.0	104 72	94 71	94 56	105 8	82 18	90 37
							★★★				
1	MBT 140008	MBT 140008	PZ 090032	PZ 110571	0.0	99 74	103 69	88 62	96 17	91 28	89 43
2	MBT 140011	MBT 140011	PZ 090032	PZ 102024	0.0	89 76	110 69	93 59	97 17	83 28	84 42
3	MBT 150011	MBT 150011	PZ 110424	PZ 110024	3.1	99 73	98 73	88 62	104 16	88 24	85 42
4	MBT 150014	MBT 150014	PZ 110424	PZ 110556	0.0	108 72	84 68	87 60	109 17	87 30	82 43
5	MBT 160011	MBT 160011	R 130048	PZ 110514	0.0	92 72	104 71	97 56	102 8	85 16	87 36
6	MBT 180001	MBT 180001	PZ 070028	MBT 140011	0.0	98 77	94 70	91 60	113 19	71 28	81 43
							★★★				
1	MBT 150005	MBT 150005	PZ 110424	PZ 110571	0.0	99 72	90 73	89 61	107 17	91 24	78 42
2	MBT 150007	MBT 150007	PZ 110424	PZ 100141	1.6	111 74	78 73	89 63	105 18	87 34	79 46
							★				
1	MBT 150003	MBT 150003	PZ 120206	PZ 120429	0.0	86 69	85 70	99 59	106 10	89 22	62 39
2	PZ 120429	PZ 120429	PZ 060477	PZ 052002	0.0	99 76	79 74	97 66	107 11	73 38	69 47
3	PZ 120495	PZ 120495	PZ 070711	PZ 012029	0.0	111 78	77 75	72 65	112 19	87 40	67 50

