

CHAROLAIS

GENOMIC BREEDING VALUE REPORT

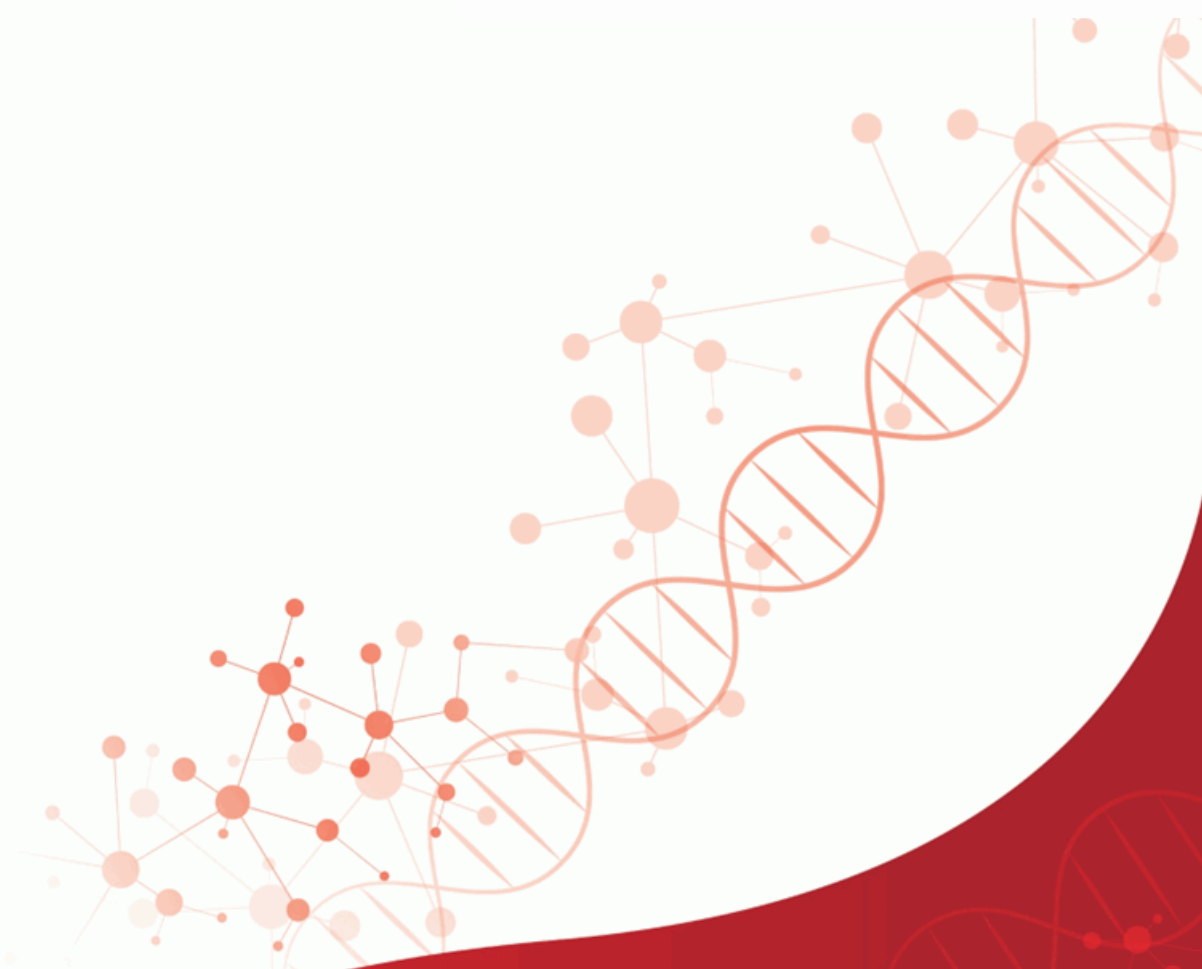
September 2026



FAIRBRIDGE AGRI (PTY) LTD

Herd Number: 694318

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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.

Selection Values

LOGIX Cow Value



Selecting for:

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

LOGIX Growth Value



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

LOGIX Production Value



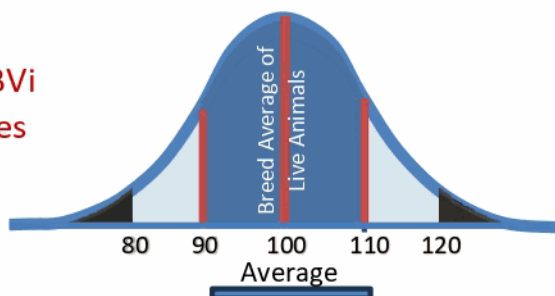
80% LOGIX Cow Value +
20% LOGIX Growth Value

LOGIX Carcass Value

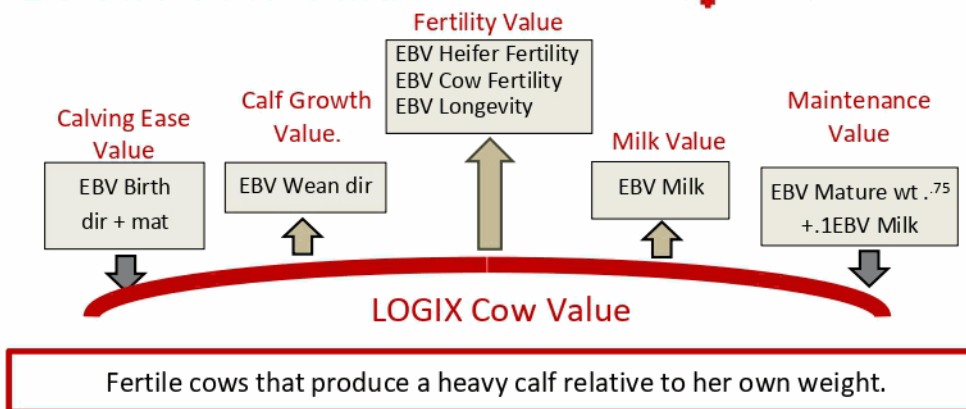


Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

Interpretation of EBVi and Selection Values



LOGIX Cow Value



How to use the Cow Value

Selection values should be compatible with your selection goal.

AVERAGE ANIMALS

(NO GROWTH EXTREMES)

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

GROWERS

(GOOD ENVIRONMENT)

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

LOW- MAINTENANCE ANIMALS

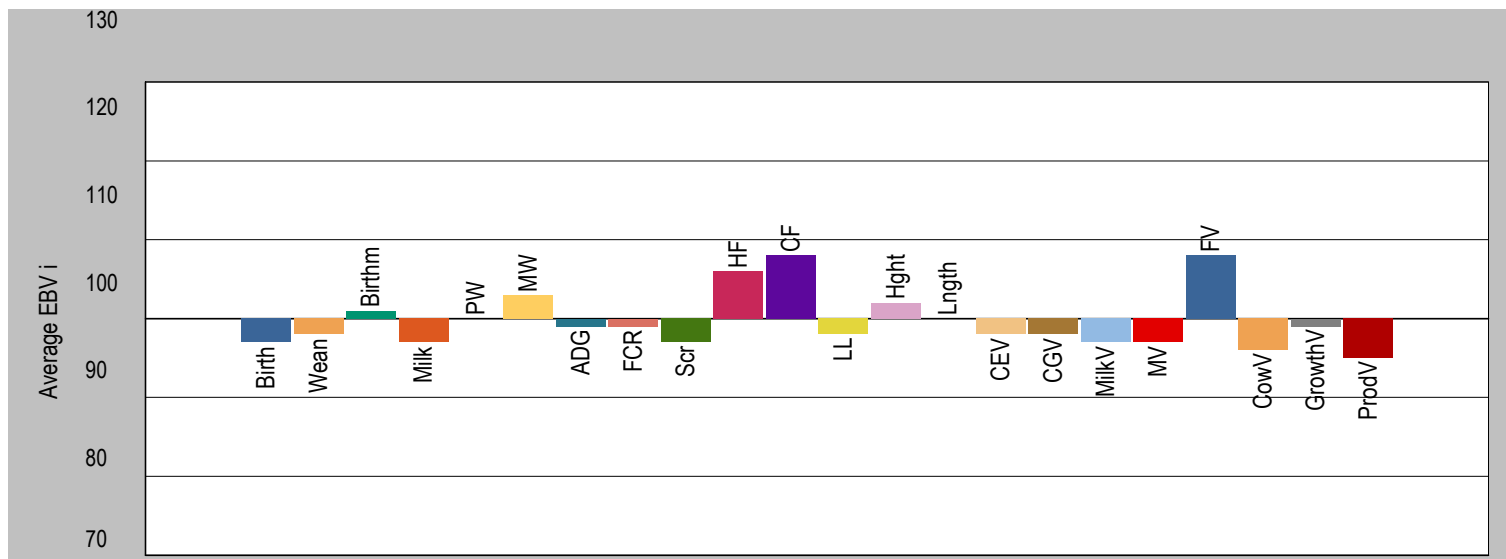
(HARSH ENVIRONMENT)

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

Examples

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

Herd and Breed Averages



Breeding Values:

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

Selection Values:

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

	Trait	EBV Herd	EBVIndex	EBV Breed
Prewean Growth	Birth Weight	0.86	97	0.55
	Wean Weight	10.1	98	10.9
	Birth Mat.	-0.24	101	-0.18
	Milk (Wn.Mat.)	0.1	97	0.9
Postwean Growth	Postwean Wt	18.1	100	18.2
	Mature Weight	15	103	13
	ADG	31	99	35
	FCR	-18	99	-19
Fertility	Scrotal Circumf.	4.8	97	6.1
	Heifer Fertility	-2.4	106	1.7
	Cow Fertility	-3.6	108	-2.1
	Longevity	13.5	98	14.4
Frame	Height	4	102	3
	Length	9	100	9

Selection Value	Ave. Herd
Calving Ease	98
Calf Growth	98
Milk	97
Maintenance	97
Fertility	108
Cow Value	96
Growth Value	99
Production Value	95

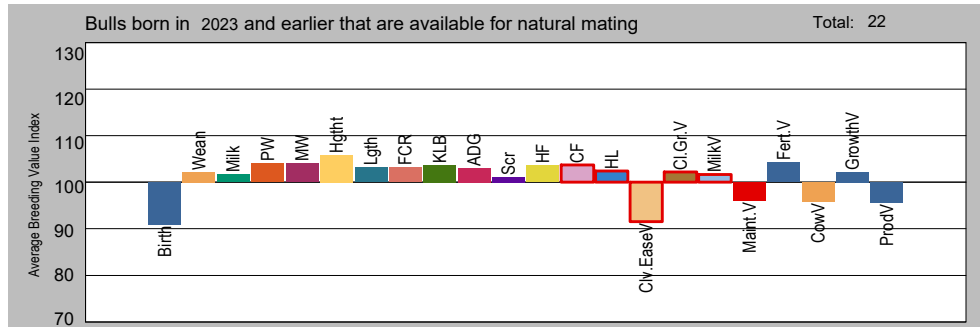
- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

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

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

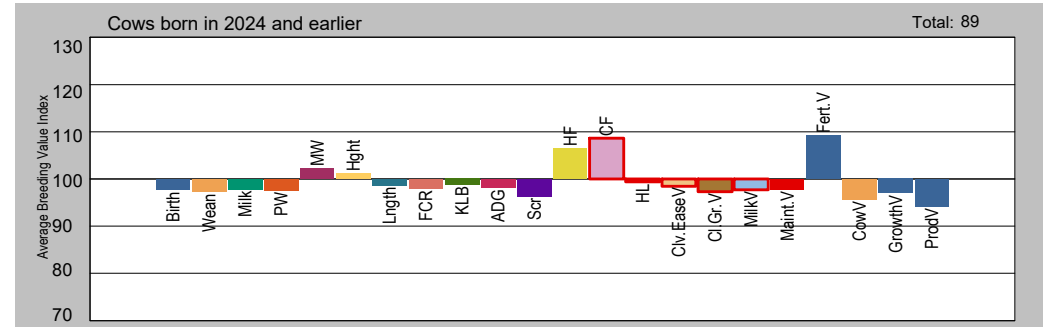
Genetic Windows

Bulls on the farm



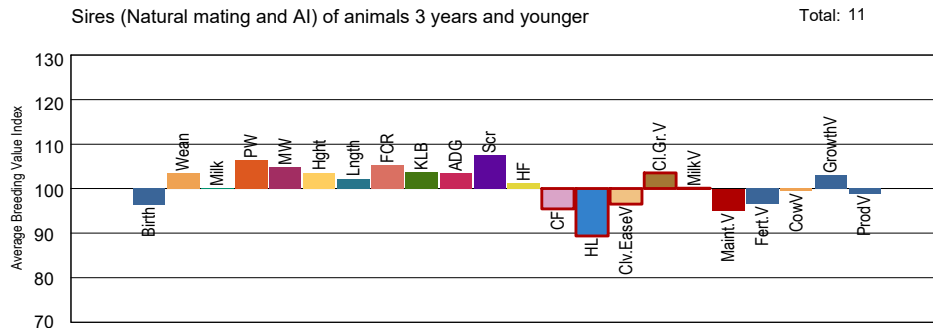
Animals available for breeding

Cow Herd

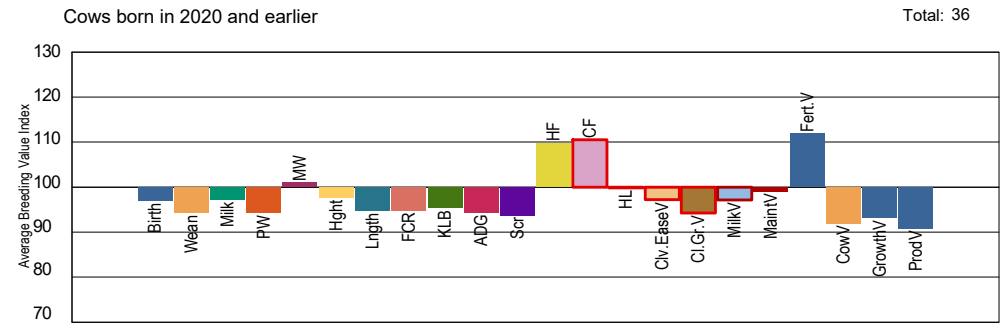


Results of previous selection decisions

Sires of young animals

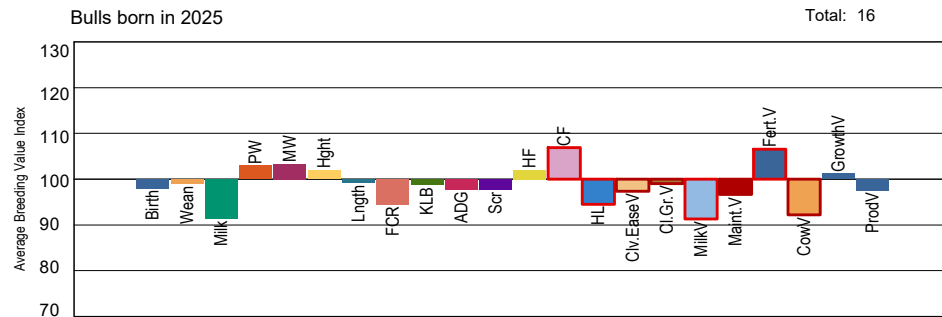


Cows older than 6 years

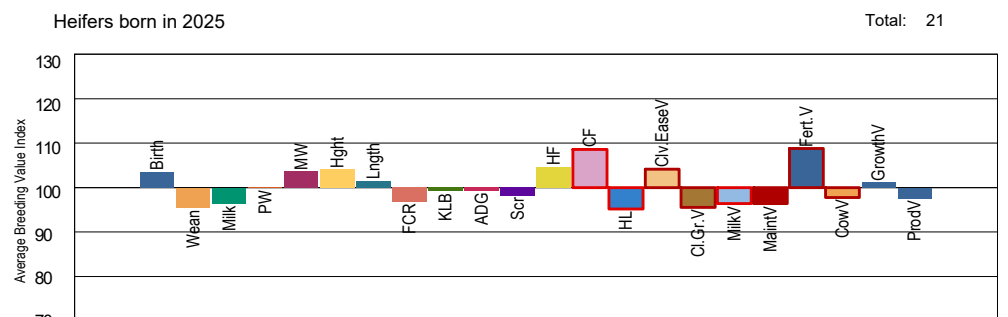


Selection possibilities

Bull calves



Heifer calves

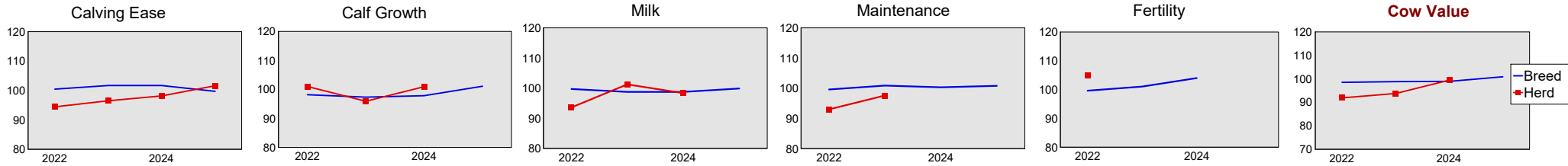


Summary of Cow Herd

			Selection Values (SV)								Calf Weight		Dam		Growth & Efficiency				Fertility				Frame		
Birth Year	No. Cows	Average Cow Value	Calving Ease	Calf Grwth	Milk	Maint.	Fertility	Cow Value	Growth Value	Prod Value	Birth Weight	Wean Weight	Birth Mat.	Milk (Wn.Mat)	Postwn Weight	Mature Weight	ADG	Kleiber	Scrotal Circumf.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
Cows in Breed Average:			100	99	100	101	100	100	99	99	100	99	100	100	100	99	99	99	99	99	100	100	100	99	99
2014	1	★★★	101	91	62	110	132	76	76	75	99	91	108	62	82	90	74	72	69	125	129	82	89	80	
2015	1	★★★★	93	88	129	104	88	99	88	95	92	88	103	129	91	96	91	90	87	104	85	93	99	95	
2016	2	★★★★☆	93	94	85	106	117	83	89	83	94	94	99	85	87	94	88	88	85	119	114	95	93	90	
2017	4	★★★★☆	95	94	86	105	111	84	89	84	94	94	101	86	94	95	89	91	91	112	109	102	90	89	
2018	8	★★★★	94	97	102	95	118	94	96	93	94	97	107	102	98	105	99	100	98	118	115	102	103	100	
2019	11	★★★★	97	96	100	95	110	94	95	93	96	96	104	100	97	105	97	97	95	105	110	101	101	97	
2020	9	★★★★	103	91	98	101	108	94	93	93	103	91	94	98	91	99	94	96	95	104	108	100	95	93	
2021	6	★★★★	96	95	99	98	121	93	92	91	94	95	114	99	96	102	94	94	92	122	117	103	99	96	
2022	13	★★★★	100	103	93	94	101	98	102	97	98	103	108	93	100	106	107	108	98	90	105	101	110	106	
2023	14	★★★★	99	94	102	97	103	94	97	92	98	94	105	102	99	103	98	99	98	106	101	100	102	99	
2024	23	★★★★☆	101	100	98	99	110	101	102	100	100	100	99	98	101	101	99	99	99	108	109	95	101	100	
2025	21	★★★★	104	96	96	96	109	98	101	98	104	96	101	96	100	104	99	99	98	105	109	95	104	101	
Cows in Herd Average:			98	95	96	100	111	92	93	91	97	95	104	96	95	100	94	94	92	110	109	97	99	96	

Genetic Trends for On-Farm Traits

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



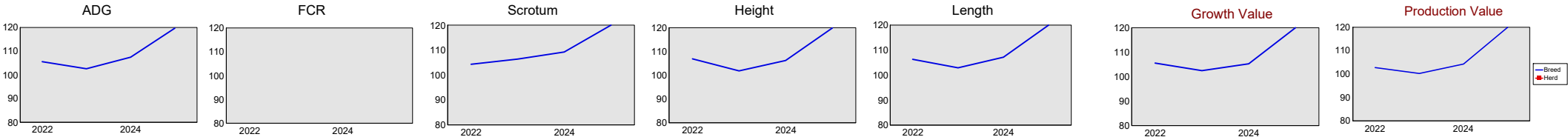
Herd

Birth Year	Calving Ease				Calf Growth			Milk			Maintenance				Fertility						Cow Value			
	Birth Weight		Calv. Ease	Dir EBV	Mat EBV	Weaning Weight		Calf Growth	Milk (Wn.Mat.)		Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity		
	Number	EBV				Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number			EBV	Number
2022	42	1.33	-0.53	94		31	11.4	101		31	-1.07	94	18	19.6		93	7	5.8			10	11.1	105	92
2023	45	1.05	-0.40	96		25	9.0	96		25	1.26	101	21	17.0		98								94
2024	42	0.76	-0.05	98		25	11.4	101		25	0.41	98												100
2025	37	0.39	-0.04	102																				

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.)		Milk	Postwean Weight		Mature Weight		Maintenance	Heifer Fert.		Cow Fert.		Longevity		Ferti- lity		
	Number	Dir EBV			Number	EBV		Number	EBV		Number	EBV	Number	EBV		Number	EBV	Number	EBV	Number	EBV		Number	
2016	1099	0.56	-0.08	100	863	7.7	93	863	0.18	98	663	13.6	137	5	104	240	1.0	197	-2.1	1108	9.4	99	93	
2017	1299	0.62	-0.11	99	1029	8.2	94	1029	0.34	98	796	13.9	155	8	103	257	1.9	224	-1.7	1213	9.5	98	93	
2018	1392	0.55	-0.12	100	1050	9.0	96	1050	-0.70	95	857	15.6	182	10	102	287	2.1	251	-1.4	1378	10.2	96	93	
2019	1431	0.42	-0.16	101	1078	8.9	96	1078	0.16	98	821	15.3	174	9	103	276	1.5	227	-2.1	1375	10.9	99	96	
2020	1636	0.46	-0.16	101	1150	8.9	96	1150	0.10	97	894	15.0	189	8	103	260	1.7	225	-2.3	1544	10.3	99	95	
2021	1590	0.35	-0.15	102	1209	9.2	96	1209	0.56	99	928	17.0	162	10	101	216	1.7	164	-2.3	1390	10.0	99	98	
2022	1585	0.53	-0.24	100	1189	10.1	98	1189	0.80	100	898	18.0	147	11	100	236	2.4	80	-2.8	497	7.7	100	99	
2023	1641	0.37	-0.24	102	1310	9.7	97	1310	0.50	99	969	17.0	36	6	101	152	1.8					101	99	
2024	1541	0.33	-0.17	102	1239	9.9	98	1239	0.50	99	896	18.5			100	1	1.0					104	99	
2025	1470	0.57	-0.18	100	971	11.5	101	971	0.87	100	141	17.5			101								101	
2026	517	0.43	-0.13	101	25	10.3	99	25	1.46	102													103	

Genetic Trends for Growth Test Traits



Herd

Birth Year	Growth									Frame						Selection Values	
	FCR			ADG			Scrotal Circumf.			Height			Length			Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		
2022																	
2023																	
2024																	
2025																	

Breed

Birth Year	Growth									Frame						Selection Values	
	FCR			ADG			Scrotal Circumf.			Height			Length			Growth Value	Prod Value
	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi	Number	EBV	EBVi		
2016				21	-26	84	21	-3.0	82	21	-9	85	21	-12	80	82	79
2017							3	-3.8	81								
2018				60	26	97	58	5.0	98	58	3	100	58	6	97	97	93
2019	15	-26	108	40	29	98	40	5.7	99	40	4	102	40	7	97	95	92
2020	15	-20	101	79	19	96	83	4.4	97	83	0	96	83	3	94	94	92
2021				52	84	113	52	10.2	108	52	9	108	52	21	111	111	107
2022				64	57	106	70	8.3	104	70	8	107	70	16	106	106	103
2023				85	45	103	88	9.3	106	88	4	102	88	13	103	102	100
2024				78	64	107	77	10.8	109	78	7	106	78	17	107	105	104
2025				21	111	120	21	20.0	127	21	17	120	21	41	129	121	125

Percentile Table for Bulls (based on live animals)

%	Calf weight			Growth & efficiency				Fertility				Frame	
	Birth weight	Weaning weight	Milk (WW.Mat.)	Post wean	Mature weight	ADG	Kleiber	Scrotal circum.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
Mean	0.54	11.4	0.9	18.9	15	43	34	7.2	2.3	-2.1	14.1	4	12
Top	-5.29	30.5	14.2	48.9	57	212	116	28.5	-28.1	-9.7	33.0	36	56
1	-3.36	27.5	10.7	43.3	45	187	94	28.5	-16.3	-7.2	30.1	27	51
2	-2.72	25.8	9.4	39.7	41	158	82	24.7	-14.2	-6.5	27.8	24	44
3	-2.37	24.1	8.3	37.2	39	146	78	22.7	-13.4	-6.0	26.1	23	42
4	-2.10	23.0	7.4	35.9	37	137	75	21.2	-12.0	-5.8	24.7	21	40
5	-1.94	22.3	6.9	34.7	36	132	71	19.5	-10.9	-5.5	23.8	20	38
6	-1.78	21.6	6.5	33.6	35	127	69	18.6	-10.1	-5.4	23.3	19	36
7	-1.66	21.0	6.1	32.7	33	120	67	17.8	-9.5	-5.2	22.8	19	35
8	-1.55	20.5	5.9	32.1	32	116	65	16.7	-8.7	-5.1	22.4	18	34
9	-1.45	20.1	5.7	31.4	31	113	63	16.4	-8.0	-5.0	21.7	17	32
10	-1.29	19.8	5.4	30.7	30	110	62	15.9	-7.4	-4.9	21.4	16	31
20	-0.67	16.6	3.5	26.4	25	84	51	12.0	-3.8	-3.8	18.7	12	23
30	-0.22	14.6	2.5	22.9	20	67	44	9.8	-1.5	-3.2	16.8	9	19
40	0.14	12.6	1.6	20.3	17	53	39	8.1	0.4	-2.6	15.3	6	15
50	0.45	10.9	0.8	18.2	14	39	33	6.5	2.4	-2.0	13.9	3	11
60	0.79	9.4	0.0	16.3	11	28	27	5.0	4.2	-1.5	12.6	1	7
70	1.21	7.9	-0.9	14.2	8	15	23	3.5	6.2	-1.0	10.9	-2	4
80	1.72	6.2	-1.9	11.6	4	3	17	1.9	8.5	-0.3	9.0	-4	0
90	2.60	3.8	-3.3	8.0	-1	-15	7	-0.3	12.2	0.6	6.6	-8	-5
91	2.74	3.5	-3.5	7.5	-1	-18	6	-0.5	12.5	0.7	6.3	-9	-6
92	2.90	3.2	-3.7	6.8	-2	-21	4	-0.7	13.1	0.8	6.1	-9	-7
93	3.01	2.9	-4.1	6.3	-3	-23	3	-1.3	13.8	1.0	5.8	-10	-8
94	3.18	2.4	-4.4	5.6	-4	-26	1	-1.8	14.5	1.1	5.6	-10	-8
95	3.44	1.7	-4.8	5.1	-6	-32	-1	-2.2	15.2	1.3	5.3	-11	-9
96	3.63	0.8	-5.1	4.1	-7	-36	-5	-2.8	16.2	1.5	4.8	-12	-10
97	3.92	0.3	-5.6	3.3	-8	-43	-9	-3.4	17.6	1.8	4.2	-13	-12
98	4.18	-0.9	-6.1	2.0	-10	-54	-13	-4.6	18.5	2.2	3.4	-14	-14
99	4.76	-2.1	-6.9	-0.7	-14	-69	-20	-6.5	20.0	2.7	1.8	-18	-18
Bottom	5.79	-12.6	-9.3	-10.1	-26	-226	-102	-15.8	26.0	5.6	-3.7	-35	-48

Percentile Table for Cows (based on live animals)

%	Calf weight			Growth & efficiency				Fertility				Frame	
	Birth weight	Weaning weight	Milk (WW.Mat.)	Post wean	Mature weight	ADG	Kleiber	Scrotal circum.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
Mean	0.56	10.7	0.9	17.9	12	31	30	5.5	1.4	-2.1	14.5	2	8
Top	-4.87	30.5	17.0	48.7	58	212	108	28.5	-38.3	-11.5	33.0	36	56
1	-3.07	25.4	12.0	39.0	45	152	83	24.8	-23.1	-8.4	30.7	23	43
2	-2.54	23.3	10.4	36.3	41	141	77	21.7	-19.2	-7.6	28.6	21	39
3	-2.18	22.3	9.4	34.4	38	133	73	19.8	-17.6	-7.1	27.0	20	35
4	-1.95	21.5	8.6	32.9	36	124	70	18.3	-16.2	-6.7	26.0	18	34
5	-1.78	20.7	7.9	32.1	34	115	66	17.1	-14.8	-6.5	25.3	18	32
6	-1.64	20.0	7.4	31.3	32	109	64	16.3	-13.8	-6.1	24.5	17	30
7	-1.53	19.5	7.0	30.7	31	104	62	15.6	-12.9	-6.0	23.9	16	29
8	-1.38	18.9	6.6	30.0	30	101	61	15.0	-12.2	-5.7	23.5	15	28
9	-1.27	18.6	6.3	29.5	29	98	59	14.4	-11.5	-5.5	22.9	15	27
10	-1.19	18.2	6.0	29.0	28	95	58	13.9	-10.8	-5.3	22.5	14	27
20	-0.49	15.8	4.0	25.1	22	73	48	10.4	-6.1	-4.1	19.6	10	20
30	-0.10	13.8	2.7	22.2	18	55	41	8.2	-3.1	-3.3	17.6	7	15
40	0.24	12.1	1.7	19.8	15	42	35	6.6	-0.7	-2.7	15.8	4	11
50	0.54	10.4	0.8	17.5	12	29	29	5.2	1.5	-2.1	14.3	2	8
60	0.86	9.0	-0.1	15.6	9	18	24	3.6	3.9	-1.5	12.9	0	4
70	1.21	7.4	-1.2	13.2	6	5	18	2.1	6.1	-0.8	11.4	-3	1
80	1.64	5.7	-2.4	10.8	2	-8	12	0.3	9.0	0.0	9.5	-6	-3
90	2.32	3.4	-4.2	7.5	-5	-29	2	-2.2	13.4	1.1	6.8	-10	-9
91	2.42	3.2	-4.4	6.9	-6	-31	1	-2.5	14.0	1.3	6.5	-10	-10
92	2.53	2.7	-4.7	6.3	-7	-34	0	-3.0	14.7	1.4	6.2	-11	-10
93	2.67	2.3	-5.0	5.9	-8	-38	-2	-3.4	15.6	1.6	5.8	-12	-11
94	2.82	1.8	-5.4	5.2	-9	-42	-4	-3.9	16.2	1.8	5.4	-13	-12
95	2.96	1.3	-5.8	4.3	-11	-47	-6	-4.4	17.3	2.1	5.0	-13	-14
96	3.12	0.8	-6.2	3.3	-13	-53	-9	-5.0	18.4	2.4	4.3	-14	-15
97	3.37	-0.2	-6.8	2.2	-16	-60	-12	-5.8	19.7	2.7	3.6	-16	-17
98	3.60	-1.2	-7.6	0.9	-19	-69	-17	-6.6	21.8	3.3	2.4	-18	-19
99	4.22	-2.6	-9.2	-1.4	-22	-82	-28	-8.5	24.5	4.3	0.1	-21	-23
Bottom	5.79	-11.0	-16.4	-13.2	-41	-137	-69	-18.3	33.3	9.8	-24.3	-32	-36

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	FCR	Scrotal	Heifer	Cow	Long-evi	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth	
				Value	Value	Value	Value	Value	Value	Value	Value	Dir	Dir	Mat.	Mat.	wt	weight					Fertility	Fertility	ty						
4296105603		0384106449		82	117	107	106	54	100	105	100	82	117	106	107	112	94	111	132	137	97	46	90	101	99	166	129	26	101	35
MAGENTA		4290101471		97	97	93	75	74	84	78	83	2.64	18.9	-0.43	3.0	26.4	6	77	-45	24.8	3.7	8.1	9.7	3	8					
				98	97				92	93		92	97	92	93	93	75	88	66	91	87	60	95	92	91					
4587100162		7177124201		108	109	84	97	87	104	95	100	106	109	110	84	106	103	96	118	118	123	78	94	95	93	252	204	67	292	32
CASOAR		4580102372		99	98	96	75	77	85	84	85	-0.13	14.9	-0.63	-4.1	22.3	15	19	-34	15.2	-14.2	2.0	11.6	-1	2					
				99	98				85	84	85	99	98	96	96	96	75	89	75	92	93	61	97	92	91					
7121423579		0398109454		95	101	100	89	95	94			94	101	103	100	104	111	99	99	98	80	101	81	98	99	3	2	1	1	
UNIBLOCK		7121330082		62	57	42	18	26	36			1.21	11.4	-0.32	0.8	21.1	24	33	-18	5.3	15.3	-2.2	5.1	2	9					
				62	57				36			65	57	40	42	47	18	13	10	14	37	16	58	15	14					
8552394134		D1893102983		101	98	109	99	97	104	97	101	98	98	124	109	96	101	103	100	97	96	98	82	113	106	159	116	20	71	10
PINAY		8596100049		97	96	89	67	64	77	70	76	0.76	10.1	-1.26	3.7	15.9	13	49	-19	4.4	4.3	-1.7	6.1	12	16					
				97	96				77	70	76	98	96	88	89	90	67	69	63	75	79	50	94	76	74					
DP 140026		DP 090024		105	93	92	115	118	98	96	96	105	93	90	92	91	85	97	90	100	103	120	96	89	94	30	18	9	17	5
DUP 49		DP 110027		91	87	76	50	50	65	39	60	-0.04	7.6	0.25	-1.5	12.0	-2	24	-11	5.9	-0.7	-5.8	12.5	-6	2					
				91	87				65	39	60	93	87	77	76	79	50	60	12	67	62	38	78	69	66					
FR 100001		SW 030012		102	91	97	113	94	93	80	89	101	91	101	97	92	87	77	85	80	91	96	98	91	87	22	20	11	22	
FR1001		FR 040016		89	87	79	44	60	67	40	62	0.39	6.5	-0.23	-0.2	13.1	0	-55	-7	-4.2	7.8	-1.4	13.4	-4	-5					
				89	87				67	40	62	90	87	79	79	75	44	49	25	53	74	45	78	54	52					
FR 130012		CJ J 0006		103	94	95	103	99	94	102	94	104	94	85	95	97	97	102	88	98	95	100	94	102	97	55	41	15	30	10
FROMAGE		FR 080008		94	92	82	57	63	73	60	70	0.08	7.9	0.50	-0.5	16.0	10	43	-9	5.1	5.0	-2.2	11.7	4	7					
				94	92				73	60	70	95	92	84	82	80	57	73	41	77	71	55	82	77	75					
FR 190023		FR 130012		95	107	105	100	107	108	125	109	96	107	94	105	111	100	119	101	106	103	107	95	129	119	24	12			
FR 19 23		FR 100025		92	89	83	78	79	82	80	82	0.99	14.4	0.11	2.5	25.4	13	109	-19	9.4	-0.7	-3.5	12.1	24	30					
				92	89				82	80	82	93	89	82	83	66	78	82	77	85	80	78	83	85	84					
FR 190025		DP 140026		109	90	105	112	107	105	87	100	108	90	105	105	94	88	93	100	98	108	105	89	86	89	14	5			
FR 19 25		FR 150030		90	86	80	76	77	80	79	80	-0.32	6.4	-0.41	2.5	14.1	1	10	-19	5.0	-3.9	-3.1	9.3	-8	-3					
				90	86				80	79	80	91	86	80	80	66	76	80	75	83	78	76	81	84	83					
GS533580		4286100325		79	98	111	76	71	79	104	82	80	98	99	111	94	124	116	134	111	80	73	76	109	102	78	58	14	53	10
HARNOIS		7190101641		95	94	84	55	57	71	76	72	2.78	10.0	-0.13	4.3	14.3	37	96	-47	11.9	15.3	2.9	3.1	9	11					
				95	94				71	76	72	96	94	83	84	83	55	73	72	80	73	41	90	80	77					
LEC 170048		0332		112	103	68	87	121	94	99	94	114	103	76	68	112	113	96	90	103	102	124	86	101	101	206	137	13	20	
FULL POTATO		WDC 090098		98	97	91	87	88	91	86	90	-1.04	12.1	0.91	-8.8	26.1	26	20	-11	7.5	0.6	-6.6	7.6	4	10					
				98	97				91	86	90	99	97	91	91	92	87	86	85	87	89	86	92	87	87					

Sires

Bull			Selection Values								Calf		Dam		Growth				Fertility				Frame		Measured Progeny				
ID	Index EBV Acc	Sire ID	Calv. Ease Value	Calf Grwth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value	Birth Dir	Wean Dir	Birth Mat.	Wean Mat.	Post wn wt	Mature weight	ADG	FCR	Scrotal	Heifer Fertility	Cow Fertility	Long-evi ty	Height	Length	Birth	Wean	Dgt/Calvs.	Grwth Test	
																													ID
LEC 190119	 EM704588 ACA 100027		96	120	89	93	111	109	114	108	0.63	20.1	1.02	-2.5	33.7	20	35	-4	11.5	-2.3	-4.1	7.9	-6	11	111	71	3	3	2
HAYMAKER			97	96	92	89	90	92	89	91	98	96	92	92	70	89	89	88	90	91	88	92	90	90					
SW 090034	 SW 030012 SW 040028		83	96	67	106	127	67	72	67	2.35	9.0	0.13	-9.1	7.4	7	-89	0	-4.5	-1.7	-7.6	5.2	-13	-10	44	39	18	37	
RAMPIE			96	94	90	83	86	88	82	87	96	94	91	90	86	83	82	80	83	88	83	90	83	83					
SW 140015	 DS 090440 SW 070038		85	105	110	90	130	101	103	100	2.33	13.2	-1.49	4.1	26.3	22	57	-26	6.6	-15.6	-7.1	14.9	12	20	67	40	11	20	11
ADAM			95	94	87	81	81	86	81	85	96	94	89	87	78	81	84	76	87	83	79	89	87	86					
SW 180019	 WDC 090070 SW 110006		95	109	89	90	87	94	110	96	1.31	15.3	-0.56	-2.6	22.0	23	108	-33	7.6	23.8	-1.2	14.3	18	28	33	24			
EDMUND			93	92	83	79	80	84	78	83	94	92	84	83	80	79	78	78	79	82	78	85	79	79					
WV 140016	CZ 100060 JA 090002		93	114	108	93	77	108	111	107	1.63	17.7	-0.93	3.4	23.4	20	87	-31	16.2	22.3	1.1	12.9	12	25	23	20	3	10	
WV1416			88	87	67	29	46	57	26	51	91	87	65	67	74	29	30	19	32	59	32	76	32	32					
WV 190065	 DS 140951 SW 120040		100	91	113	97	82	96	102	95	0.69	6.6	-0.41	4.8	22.8	16	32	-14	6.9	6.5	1.4	15.6	8	16	81	67	2	2	
WV 190065			96	95	85	77	78	84	76	82	97	95	82	85	71	77	76	76	77	80	77	85	77	76					

Breeding Values and Accuracies: Bulls

Inbreeding in red is high

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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	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
ID Number Name																											
FR 190023 89311203 FR 1923	4	FR 130012 FR 100025		95 92	107 89	105 83	100 78	107 79	108 82	125 80	109 82	96 0.99 93	94 0.11 82	100 13 78	107 14.4 89	105 2.5 83	110 50 83	111 25.4 66	119 109 82	101 -19 77	106 9.4 85	103 -0.7 80	107 -3.5 78	95 12.1 83	129 24 85	119 30 84	
FR 190025 89311211 FR 1925	1	DP 140026 FR 150030		109 90	90 86	105 80	112 76	107 77	105 80	87 79	100 80	108 -0.32 91	105 -0.41 80	88 1 76	90 6.4 86	105 2.5 80	101 31 81	94 14.1 66	93 10 80	100 -19 75	98 5.0 83	108 -3.9 78	105 -3.1 76	89 9.3 81	86 -8 84	89 -3 83	
FR 220020 94115599 FR 2220	1	SW 180019 FR 170002		94 75	106 72	78 50	98 27	105 34	88 46	102 23	89 41	93 1.37 78	108 -0.55 51	102 15 27	106 13.6 72	78 -6.0 50	87 1 50	96 15.5 56	107 61 25	106 -24 18	100 6.2 28	93 6.4 41	108 -3.7 26	105 16.7 47	107 8 28	107 17 27	
FR 220029 94115672 FR 2229	1	SW 180019 FR 110015		96 76	95 59	87 51	94 27	90 36	81 44	94 24	82 40	94 1.20 78	108 -0.53 53	106 19 27	95 8.5 59	87 -3.1 51	85 -3 46	92 13.0 50	99 32 26	103 -21 20	90 0.8 29	91 8.0 44	92 -0.6 28	99 13.9 50	104 5 30	98 8 28	
FR 220031 94115698 FR 2231	1	SW 180019 FR 180012		88 74	100 72	94 49	92 30	109 34	86 46	100 24	87 42	87 2.06 77	113 -0.75 50	108 21 30	100 10.8 72	94 -0.9 49	93 15 50	104 21.2 56	105 53 27	106 -24 18	95 3.5 30	104 -1.3 42	109 -3.8 26	105 17.0 48	110 10 30	105 15 29	
FR 220033 94115714 FR 2233	1	SW 180019 FR 190026		79 74	109 54	94 44	98 28	95 32	87 40	100 26	88 37	80 2.80 77	98 -0.08 49	102 15 28	109 15.3 54	94 -1.0 44	102 33 42	107 23.0 46	105 54 28	104 -22 20	94 3.3 30	86 11.7 39	99 -2.0 26	102 15.1 47	110 10 31	103 13 30	
FR 220039 94716545 FR 2239	27	SW 140015 FR 180002		81 76	107 72	116 53	83 33	123 33	99 47	107 28	99 43	80 2.87 78	117 -0.95 55	117 30 33	107 14.1 72	116 5.7 53	111 53 53	113 27.3 54	111 78 42	113 -30 11	106 9.0 46	121 -12.9 40	119 -5.8 26	103 15.9 52	116 14 46	114 24 45	
FR 220040 94716511 FR 2240	26	SW 140015 FR 190003		89 74	101 58	103 50	88 30	117 34	93 43	98 28	92 40	87 2.07 76	123 -1.22 55	112 25 30	101 11.3 58	103 1.7 50	99 27 46	105 21.4 47	101 39 40	105 -23 11	99 5.4 44	116 -9.3 43	114 -4.8 26	102 15.5 51	107 8 45	105 14 44	
FR 230002 95957650 FR230002		4587100162 FR 180017		95 76	110 73	102 60	89 43	105 50	105 57	102 44	102 54	93 1.36 78	115 -0.83 59	111 24 43	110 15.6 73	102 1.4 60	105 40 59	113 26.7 62	104 50 49	116 -32 38	113 12.9 51	123 -14.6 55	98 -1.7 44	106 17.1 58	106 7 51	104 14 51	
FR 230003 97600837 FR230003	1	WV 190065 FR 140005		91 75	94 73	100 52	95 25	112 31	87 45			90 1.73 78	111 -0.67 50	105 18 25	94 8.2 73	100 0.8 52	94 17 50	98 17.1 54	89 -6 23	90 -11 10	92 1.8 26	113 -7.5 39	109 -3.8 23	104 16.3 48	93 -2 26	94 2 25	
FR 230004 97600811 FR230004	2	WV 190065 FR 180006		91 75	102 72	109 50	95 26	97 28	98 44			90 1.68 78	108 -0.55 48	105 18 26	102 11.7 72	109 3.7 50	107 44 49	109 24.0 50	104 51 24	103 -21 9	106 9.2 26	102 0.3 33	96 -1.4 23	112 19.9 47	111 10 27	110 21 26	
FR 230014 95957718 FR230014		GS533580 FR 190039		80 76	99 71	108 56	88 32	76 36	81 48	102 42	84 47	82 2.63 78	92 0.17 55	112 25 32	99 10.5 71	108 3.2 56	102 33 53	98 16.6 51	110 73 42	117 -33 38	106 9.3 46	78 17.3 46	79 1.8 26	92 10.8 55	105 7 46	100 9 44	

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Animal				Selection Values							Birth		Wean				Growth			Fertility				Frame		
Index EBV Acc	% Inbreeding	Sire ID Dam ID		Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																										
FR 230015 97601025 FR230015	1	WV 190065 FR 170009		96 75	97 72	99 50	98 23	99 30	93 44			96 0.97 78	99 -0.13 47	102 14 23	97 9.4 72	99 0.5 50	96 21 48	105 21.6 52	97 24 20	94 -14 8	98 5.2 22	101 1.2 37	98 -1.8 22	109 18.9 47	100 3 23	100 10 22
FR 230018 97600779 FR230018	2	WV 190065 FR 180016		106 75	90 72	102 47	95 23	115 30	98 43			103 0.26 78	118 -0.97 47	105 18 23	90 6.5 72	102 1.3 47	93 14 47	98 16.9 53	95 15 24	95 -15 8	95 3.7 26	117 -10.2 37	112 -4.4 23	107 17.8 47	101 3 26	100 9 26
FR 230021 95957734 FR230021		4296105603 FR 190006		77 76	110 71	97 57	107 41	88 41	88 52	94 42	88 50	77 3.19 78	109 -0.59 59	93 6 41	110 15.4 71	97 0.0 57	107 45 56	106 22.5 54	97 22 48	112 -29 33	109 10.9 50	113 -7.1 48	82 1.3 34	102 15.4 57	95 -1 51	93 2 50
FR 230025 98442544 FR230025	2	FR 190023 FR 190009		79 74	114 53	110 45	86 27	115 28	101 38	111 27	101 36	79 2.96 77	105 -0.42 46	114 27 27	114 17.4 53	110 4.0 45	113 57 42	115 28.3 40	108 68 37	101 -20 13	103 7.6 42	105 -2.0 34	116 -5.1 22	104 16.2 44	117 15 42	112 22 41
FR 230027 95957783 FR230027	5	FR 190023 FR 170013		93 74	105 71	104 48	98 21	113 30	103 43	111 25	103 39	93 1.33 77	101 -0.22 47	102 14 21	105 13.2 71	104 2.1 48	106 42 47	108 23.4 52	108 68 33	102 -21 13	103 7.6 38	108 -3.8 36	112 -4.4 23	102 15.5 44	114 13 38	108 18 37
FR 230030 95957809 FR230030	15	FR 190023 FR 200016		88 74	108 68	109 46	89 26	97 28	100 42	114 28	101 39	90 1.70 77	89 0.30 45	111 24 26	108 14.5 68	109 3.6 46	109 47 47	111 25.5 38	112 80 37	99 -18 16	106 8.9 41	90 8.7 33	100 -2.1 23	104 16.4 43	116 15 42	110 21 40
FR 230038 95957858 FR230038	2	FR 190025 FR 170027		93 74	96 70	94 48	106 18	98 28	88 41	87 23	87 37	93 1.41 77	104 -0.36 46	94 7 18	96 9.1 70	94 -0.8 48	95 19 45	98 16.7 52	91 1 32	98 -17 9	94 3.2 37	104 -1.3 36	96 -1.4 20	102 15.5 43	89 -5 38	89 -3 36
FR 230039 95957866 FR230039	15	FR 190025 FR 200014		93 74	107 67	105 44	99 26	113 24	105 40	95 23	101 37	92 1.44 77	104 -0.34 44	101 14 26	107 14.0 67	105 2.3 44	108 47 46	104 21.0 38	99 31 34	101 -20 7	104 7.9 39	101 1.3 31	114 -4.8 18	102 15.4 42	95 -1 40	98 7 38
FR 230041 96345087 FR230041	4	FR 190023 FR 190001		98 73	101 56	105 46	100 27	109 30	104 40	109 27	103 37	96 0.96 76	111 -0.67 47	100 13 27	101 11.6 56	105 2.3 46	105 39 43	105 21.8 40	106 59 37	99 -18 13	101 6.7 42	103 -0.2 36	110 -3.9 24	105 17.0 44	115 13 43	109 19 41
FR 230047 98442528 FR230047	4	FR 190025 FR 190017		102 72	100 53	110 40	102 22	104 28	110 37	101 26	106 35	102 0.32 75	99 -0.11 41	98 11 22	100 11.1 53	110 4.1 40	109 48 38	99 17.8 41	107 61 36	106 -23 12	107 9.6 41	98 3.4 36	106 -3.2 20	102 15.6 43	102 4 42	102 12 40
FR 240001 97619290 FR240001		LEC 190119 FR 190006		92 75	109 59	86 46	98 20	118 28	96 39	100 22	95 36	93 1.33 78	93 0.13 51	102 14 20	109 15.1 59	86 -3.3 46	96 20 42	110 24.6 40	93 9 32	88 -9 8	98 5.3 36	116 -9.4 39	115 -5.0 18	95 12.1 46	91 -4 36	96 5 35
FR 240004 97619332 FR240004		LEC 190119 FR 190016		95 75	96 74	91 51	100 25	112 34	89 46	96 25	89 42	97 0.84 78	78 0.80 52	100 13 25	96 9.3 74	91 -1.7 51	91 11 50	102 19.8 42	89 -8 33	78 -1 13	95 3.6 37	119 -11.3 45	108 -3.6 24	97 12.8 47	85 -8 38	89 -3 36

Breeding Values and Accuracies: Bulls

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Animal		Selection Values									Birth		Wean				Growth			Fertility				Frame	
Index EBV Acc		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	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
FR 240007	LEC 190119	98	108	103	90	116	108	106	106		98	99	110	108	103	105	111	101	94	105	116	113	98	98	102
97623011	FR 180017	62	60	48	23	33	41	22	37		0.81	-0.12	23	14.6	1.9	40	25.5	37	-14	8.4	-9.7	-4.5	13.7	1	12
FR240007											63	50	23	60	48	44	43	32	9	36	44	22	47	37	36
FR 240012	LEC 190119	76	123	104	80	114	103	117	104		79	91	120	123	104	114	126	113	105	115	110	113	96	108	114
97619373	FR 180002	75	72	49	23	30	44	23	40		2.99	0.24	33	21.9	2.1	58	35.7	85	-23	13.8	-5.1	-4.5	12.5	9	25
FR240012											78	51	23	72	49	48	40	33	9	37	40	19	46	38	36
FR 240013	LEC 190119	100	99	88	104	109	94	98	93		102	85	96	99	88	91	101	91	82	99	113	106	98	85	92
97619407	FR 200001	75	73	49	20	32	44	22	40		0.37	0.51	9	10.3	-2.7	11	18.9	1	-4	5.6	-7.7	-3.2	13.6	-8	0
FR240013											78	50	20	73	49	47	42	31	9	36	43	21	46	37	35
FR 240018	LEC 190119	93	99	88	103	98	87	93	87		95	87	97	99	88	92	103	87	82	93	107	96	97	83	87
97619423	FR 170027	75	74	52	16	32	44	20	39		1.15	0.41	9	10.6	-2.6	12	20.1	-17	-4	2.7	-3.1	-1.3	12.7	-10	-5
FR240018											78	52	16	74	52	47	44	28	9	32	44	19	47	32	31
FR 240019	LEC 190119	91	110	101	84	99	100	109	100		94	79	116	110	101	103	114	104	91	109	91	101	97	98	103
97619431	FR 200016	75	72	48	23	30	43	24	39		1.20	0.77	29	15.7	1.2	36	27.8	50	-12	10.9	7.8	-2.4	13.1	1	13
FR240019											78	50	23	72	48	48	38	31	12	35	40	20	46	36	34
FR 240020	FR 190023	88	103	100	99	113	95	107	96		89	98	101	103	100	102	106	105	100	95	110	112	99	113	106
98374424	FR 210027	72	52	41	23	28	37	28	35		1.82	-0.09	14	12.4	1.0	35	22.3	56	-19	3.6	-5.3	-4.3	13.8	12	16
FR240020											75	44	23	52	41	39	39	38	14	43	33	22	43	44	42
FR 240022	FR 190023	94	110	100	95	117	106	118	107		94	98	105	110	100	106	109	115	103	109	100	120	97	120	118
98374440	FR 190031	74	72	46	26	30	44	26	40		1.21	-0.10	18	15.7	0.9	42	24.5	94	-22	10.7	1.4	-5.8	12.8	17	29
FR240022											77	45	26	72	46	48	42	36	13	41	37	24	43	42	40
FR 240024	FR 190025	104	91	84	111	120	91	81	87		102	107	89	91	84	84	88	83	94	83	117	117	86	87	84
98403371	FR 140026	74	55	48	21	30	39	25	36		0.29	-0.48	2	6.9	-4.1	-4	10.4	-28	-14	-2.4	-9.8	-5.3	7.6	-7	-8
FR240024											77	48	21	55	48	41	44	35	10	41	38	21	44	42	40
FR 240026	FR 190023	99	97	98	103	110	97	108	97		99	98	97	97	98	97	96	105	94	96	117	106	97	108	102
98374465	FR 160012	74	72	50	23	32	44	30	41		0.68	-0.10	9	9.3	0.3	23	15.3	53	-14	3.9	-10.0	-3.3	12.9	9	12
FR240026											77	49	23	72	50	48	42	39	17	45	38	25	45	46	44
FR 240027	FR 190020	105	83	98	116	96	89				105	95	84	83	98	90	86	87	85	88	110	92	89	91	88
98378110		68	66	35	22	24	37				0.03	0.03	-4	2.8	0.2	9	9.0	-17	-6	-0.1	-5.6	-0.6	9.2	-4	-4
FR240027											72	34	22	66	35	41	28	21	11	22	29	19	32	23	22
FR 240034	8552394134	98	97	106	96	102	98	100	97		97	104	104	97	106	101	99	101	92	100	97	103	91	109	104
98403397	FR 200026	76	73	55	40	39	51	40	49		0.91	-0.37	17	9.3	2.7	31	17.5	38	-12	6.3	3.7	-2.6	10.0	10	14
FR240034											78	56	40	73	55	56	51	41	34	44	45	33	56	45	43
FR 240039	FR 190025	103	91	101	109	105	97	89	94		103	95	91	91	101	97	93	92	96	92	106	104	97	92	89
98374507	FR 190026	73	50	41	22	26	35	26	33		0.20	0.03	4	6.6	1.0	22	13.6	5	-15	1.9	-2.1	-2.9	12.8	-3	-2
FR240039											76	45	22	50	41	38	40	36	12	41	32	21	43	42	40

Breeding Values and Accuracies: Bulls

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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	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
FR 240040 98374515 FR240040	4	FR 190023 FR 180012	84 74	108 56	100 46	95 26	120 31	96 40	110 27	97 37	83 2.46 77	108 -0.52 47	105 18 26	108 14.8 56	100 1.0 46	105 40 43	113 27.1 44	107 63 37	99 -19 13	99 5.6 42	121 -12.6 37	116 -5.1 25	102 15.2 44	116 14 42	109 19 41	
FR 240046 98374549 FR240046	15	FR 190023 FR 160013	87 74	104 72	93 50	99 23	114 32	91 44	108 28	93 41	88 1.86 77	94 0.07 48	101 14 23	104 12.9 72	93 -1.3 50	97 24 48	102 19.7 42	104 52 36	97 -16 15	98 4.9 41	105 -1.8 39	114 -4.8 24	94 11.5 46	115 13 42	109 20 40	
FR 240047 98378136 FR240047		FR 170013	89 68	100 38	102 36	102 12	109 22	93 28			89 1.81 71	102 -0.28 36	98 10 12	100 10.7 38	102 1.5 36	102 34 29	102 19.9 31	94 11 11	97 -17 6	95 3.6 11	107 -3.2 28	108 -3.5 15	82 6.0 30	95 -1 12	93 2 11	
FR 240048 98374556 FR240048	17	FR 190023 FR 190019	105 74	97 71	106 46	94 23	110 30	105 43	114 28	105 40	104 0.12 77	102 -0.28 46	106 19 23	97 9.4 71	106 2.7 46	100 30 47	98 17.1 41	111 79 37	100 -19 16	101 6.6 41	104 -0.9 37	110 -3.9 24	97 12.8 44	114 13 42	110 20 40	
FR 250003 99573669 FR250003	2	WV 190065 FR 220005	104 72	93 55	105 41	94 22	91 27	98 37			102 0.27 75	107 -0.50 41	106 19 22	93 7.9 55	105 2.4 41	97 23 39	101 18.7 42	104 52 18	101 -20 12	100 6.0 20	90 8.9 33	92 -0.7 21	103 15.6 42	108 9 20	107 17 19	
FR 250006 99573693 FR250006	2	WV 190065 FR 220028	99 72	96 59	102 41	102 23	90 29	97 39			99 0.69 75	102 -0.28 41	98 11 23	96 9.3 59	102 1.6 41	100 29 41	102 19.4 46	103 47 18	101 -20 11	100 6.1 20	89 9.6 37	91 -0.5 21	103 15.8 42	108 8 20	106 16 19	
FR 250007 99573701 FR250007	1	WV 190065 FR 200016	90 75	98 57	113 47	88 27	84 28	93 40			91 1.60 78	95 0.05 45	112 25 27	98 10.1 57	113 4.9 47	105 40 44	108 23.7 43	101 39 23	95 -15 12	102 7.3 24	85 12.0 33	87 0.4 23	104 16.1 44	105 6 24	103 13 24	
FR 250011 99573743 FR250011		LEC 170048 FR 190008	112 76	93 59	84 54	93 33	117 32	94 44	93 22	92 40	111 -0.74 78	93 0.16 53	107 20 33	93 7.4 59	84 -4.1 54	80 -12 49	100 18.5 52	91 2 29	92 -12 11	94 2.9 32	110 -5.1 40	117 -5.2 23	91 10.2 49	99 2 33	96 5 32	
FR 250016 99573784 FR250016		LEC 170048 FR 200001	110 76	94 61	76 53	97 30	115 34	90 44	94 22	89 40	111 -0.64 78	87 0.42 53	103 15 30	94 8.3 61	76 -6.5 53	77 -20 48	98 17.0 54	93 9 29	89 -10 11	99 5.6 32	109 -4.7 43	114 -4.8 26	96 12.6 49	95 -1 33	96 5 32	
FR 250019 99573818 FR250019		LEC 170048 FR 180039	106 76	94 58	80 53	101 34	106 33	89 44	94 24	88 40	107 -0.29 78	79 0.75 54	99 12 34	94 8.2 58	80 -5.1 53	81 -11 48	101 18.6 52	94 14 31	93 -13 16	96 4.3 33	96 4.8 40	108 -3.6 26	88 8.6 50	99 2 34	94 3 33	
FR 250021 99573834 FR250021		LEC 170048 FR 190003	89 76	106 60	83 51	86 30	113 34	86 44	96 22	87 40	90 1.71 78	97 -0.04 54	114 27 30	106 13.9 60	83 -4.3 51	88 4 47	111 25.4 52	96 20 29	96 -16 11	100 5.8 32	104 -1.2 43	113 -4.6 25	93 10.9 49	102 4 33	100 9 32	
FR 250024 99573875 FR250024		LEC 170048 FR 170009	101 76	97 61	79 54	97 30	118 34	88 45	92 20	87 40	103 0.27 78	85 0.51 54	103 16 30	97 9.7 61	79 -5.7 54	81 -11 48	102 19.8 53	91 1 27	88 -9 10	95 3.3 30	107 -3.1 43	118 -5.5 25	96 12.3 49	93 -3 31	93 1 30	

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Index EBV Acc		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	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
FR 250025	LEC 170048	99	102	75	93	105	85	94	86		100	90	107	102	75	80	105	93	94	98	101	106	95	98	96
99573883	FR 170027	76	62	56	27	34	45	20	40		0.56	0.27	19	11.8	-6.9	-12	21.8	10	-14	5.0	1.2	-3.2	11.8	1	5
FR250025											78	55	27	62	56	48	54	25	12	27	44	25	49	28	27
FR 250026	LEC 170048	101	103	84	92	101	93	102	93		103	81	108	103	84	88	107	103	97	104	87	105	91	104	102
99573891	FR 190039	76	61	55	31	35	45	24	41		0.27	0.67	21	12.3	-3.9	4	23.0	46	-17	8.4	10.6	-3.1	10.3	6	12
FR250026											78	54	31	61	55	49	54	30	14	33	44	26	49	33	32
FR 250027	LEC 170048	96	100	79	93	119	85	93	85		98	81	107	100	79	82	106	92	87	96	114	117	94	97	94
99573909	FR 190016	76	62	55	34	36	47	24	42		0.78	0.66	20	10.8	-5.6	-9	22.2	6	-8	4.3	-7.9	-5.3	11.7	0	3
FR250027											78	54	34	62	55	50	54	31	15	34	45	28	50	34	33
FR 250028	FR 190023	85	110	109	86	115	102	111	102		85	105	114	110	109	110	112	108	101	103	105	116	99	117	112
99573917	FR 190009	74	53	45	27	28	38	27	36		2.24	-0.41	27	15.7	3.8	51	26.1	68	-20	7.6	-2.0	-5.1	14.1	15	22
FR250028											77	46	27	53	45	42	40	37	13	42	34	22	42	42	41
FR 250029	FR 160012	90	99	94	106	106	90	91	89		90	102	94	99	94	97	95	92	91	89	115	103	81	91	89
99573925		69	39	40	17	24	31	20	29		1.67	-0.27	6	10.4	-0.8	23	14.7	3	-12	0.7	-8.7	-2.6	5.5	-4	-3
FR250029											72	39	17	39	40	32	31	24	12	27	30	19	31	27	26
FR 250031	FR 180019	96	93	98	117	105	94				96	93	83	93	98	100	89	91	93	91	107	104	82	91	89
99573941		68	37	35	20	22	29				0.96	0.15	-4	7.8	0.4	28	11.1	0	-13	1.4	-3.4	-2.8	5.8	-4	-2
FR250031											72	37	20	37	35	31	30	19	6	21	29	16	30	22	21
FR 250032	FR 190023	82	107	101	99	113	93	107	95		83	98	101	107	101	106	109	105	100	95	110	112	99	113	106
99573958	FR 210027	73	52	41	23	28	37	28	35		2.52	-0.11	14	14.1	1.2	41	24.4	56	-19	3.6	-5.3	-4.3	13.7	12	16
FR250032											76	44	23	52	41	39	39	38	14	43	33	22	42	44	42
FR 250038	FR 190023	98	99	99	102	107	98	110	99		99	93	98	99	99	99	102	107	94	100	103	107	97	111	105
99574006	FR 200027	74	52	43	23	28	37	28	35		0.71	0.12	11	10.6	0.5	28	19.4	62	-14	5.9	-0.7	-3.4	13.2	11	15
FR250038											77	45	23	52	43	39	39	37	16	42	33	23	42	42	41

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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	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																										
FR 140026 81125924 FR1426	1	SW 090034	FR 040001	101 90	91 88	62 88	110 79	132 82	76 84	76 79	75 83	99 0.66 90	108 -0.55 88	90 3 79	91 6.8 88	62 -10.7 88	67 -41 85	82 6.1 75	74 -67 80	87 -8 78	69 -9.7 80	125 -15.8 84	129 -7.6 80	82 5.8 85	89 -6 81	80 -13 80
FR 150018 83002147 FR1518	4	FR 100001	FR 110030	93 89	88 87	129 87	104 77	88 80	99 83	88 78	95 82	92 1.43 89	103 -0.32 87	96 8 77	88 5.1 87	129 9.9 87	115 62 84	91 12.0 73	91 1 79	102 -21 76	87 -0.5 81	104 -1.1 82	85 0.8 78	93 11.1 83	99 2 81	95 4 80
FR 160012 84601038 FR1612	4	FR 130012	FR 110021	104 84	92 79	88 79	107 33	114 48	92 59	92 38	90 55	103 0.26 85	104 -0.37 79	93 6 33	92 7.2 79	88 -2.8 79	87 2 64	85 8.3 62	92 3 48	89 -10 23	86 -0.8 53	128 -18.0 60	107 -3.4 37	98 13.7 63	89 -5 54	87 -5 52
FR 160013 84601046 FR1613	4	SW 090034	FR 100025	82 90	95 88	82 88	105 79	119 81	73 84	85 79	75 83	84 2.39 90	94 0.08 88	95 7 79	95 8.6 88	82 -4.8 88	84 -5 85	89 10.9 68	83 -29 79	87 -9 78	83 -2.6 80	109 -4.6 83	120 -5.8 79	92 10.6 84	96 -1 80	93 2 80
FR 170002 86413556 ROSIERE	1	DP 140026	FR 140002	105 82	88 74	70 73	114 32	122 43	81 54	84 24	81 48	104 0.05 83	100 -0.19 76	86 -2 32	88 5.4 74	70 -8.4 73	71 -31 60	81 5.6 58	84 -25 33	86 -7 10	88 -0.2 38	121 -13.1 53	119 -5.7 33	98 13.6 60	84 -9 38	85 -7 37
FR 170009 87222196 AMIENS	1	DP 140026	FR 140010	103 81	85 74	87 72	107 32	114 42	84 54	86 22	83 48	103 0.17 82	93 0.14 74	93 6 32	85 3.9 74	87 -3.0 72	81 -10 59	86 9.2 58	86 -17 32	86 -7 9	86 -0.8 37	112 -6.8 54	112 -4.4 30	105 16.9 59	85 -9 37	84 -8 36
FR 170013 86413655 NIVELLE	2	WV 140016	FR 080005	81 88	105 86	105 85	98 76	118 78	94 81	95 76	93 80	81 2.73 88	106 -0.44 85	102 14 76	105 13.2 86	105 2.4 85	107 44 82	111 25.4 74	96 20 76	102 -21 75	98 5.0 76	113 -7.1 80	117 -5.3 77	100 14.6 81	97 1 76	95 4 76
FR 170027 86420775 CARCASSONNE	4	WV 140016	FR 110015	90 82	99 78	80 77	100 21	89 43	77 54	90 20	79 47	89 1.76 83	104 -0.36 75	100 13 21	99 10.5 78	80 -5.1 77	84 -4 59	97 16.3 62	91 0 24	97 -17 14	93 2.4 26	100 1.8 57	88 0.2 29	103 16.0 59	94 -2 26	91 0 26
FR 180002 87523882 AMY	3	SW 140015	FR 120009	84 81	100 66	121 68	81 39	115 37	97 51	104 30	97 47	84 2.42 82	105 -0.39 72	119 32 39	100 11.1 66	121 7.3 68	110 51 58	107 23.3 52	109 69 42	113 -29 14	103 7.7 47	119 -11.7 45	111 -4.1 29	102 15.2 59	113 12 48	108 19 46
FR 180006 87523924 BERNI	1	SW 140015	FR 150030	88 81	114 76	104 73	90 39	113 38	106 54	109 28	105 49	88 1.94 82	106 -0.46 74	110 23 39	114 17.5 76	104 2.2 73	110 51 63	117 29.9 54	113 85 41	114 -31 12	114 13.5 46	110 -5.2 45	112 -4.4 32	111 19.6 59	118 15 46	119 30 45
FR 180012 87523973 PRIYA	1	SW 140015	FR 080005	88 81	100 75	94 70	90 40	132 46	89 57	94 27	88 51	86 2.17 82	121 -1.12 73	110 23 40	100 11.0 75	94 -1.1 70	92 13 62	108 23.4 63	95 17 39	98 -18 12	91 1.7 42	138 -24.5 57	125 -6.8 35	109 18.6 59	103 5 43	98 8 42
FR 180016 87524039 WINKLE	2	SW 140015	FR 140005	95 81	103 73	89 64	86 32	150 44	96 53	96 28	95 48	94 1.24 82	131 -1.58 72	114 27 32	103 12.2 73	89 -2.3 64	90 8 56	100 18.1 59	99 33 41	102 -21 12	98 4.9 45	138 -24.6 56	146 -10.7 31	101 14.7 59	102 4 46	103 13 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	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																									
FR 180017 87524047 FOWLER	3	SW 140015 FR 110016	99 80	96 75	118 70	87 39	120 48	106 57	98 29	103 51	96 0.99 81	124 -1.25 70	113 26 39	96 9.0 75	118 6.4 70	107 43 61	99 17.3 60	101 40 41	106 -24 14	99 5.4 45	127 -17.1 57	115 -4.9 38	107 17.6 60	107 8 45	103 13 44
FR 180019 87524062 LUCY	1	DP 140026 FR 110021	100 82	90 75	98 70	128 40	111 46	96 57	88 28	93 51	101 0.45 83	86 0.44 75	72 -15 40	90 6.1 75	98 0.1 70	100 28 62	82 6.1 59	90 -2 38	94 -14 13	89 0.5 43	113 -7.5 58	109 -3.8 33	100 14.2 59	89 -5 44	87 -4 42
FR 180023 87524104 KEREN	4	FR 130012 FR 120013	103 88	84 86	98 85	83 78	110 79	83 82	91 77	84 81	102 0.28 88	96 0.00 85	117 30 78	84 3.5 86	98 0.2 85	82 -8 83	82 6.2 72	94 13 78	92 -12 76	96 4.0 78	106 -2.4 81	110 -3.9 77	94 11.4 81	95 -1 78	92 0 78
FR 180039 88678057 FR 18 39	1	FR 130012 FR 130002	96 79	87 64	93 68	114 42	91 38	82 51	89 36	82 48	98 0.75 80	83 0.58 72	86 -1 42	87 5.0 64	93 -1.4 68	89 6 58	91 12.0 52	93 7 43	96 -16 25	90 1.1 45	90 8.9 43	92 -0.7 33	90 9.6 60	97 0 46	88 -4 44
FR 190001 88678081 FR 19 01	1	SW 140015 FR 140029	109 81	90 74	103 69	101 42	111 44	101 56	92 28	98 50	106 -0.14 82	128 -1.44 74	99 12 42	90 6.2 74	103 1.7 69	95 19 62	95 14.9 56	93 9 40	97 -17 12	96 4.1 43	102 0.3 55	112 -4.4 33	107 17.8 58	101 3 44	98 8 43
FR 190003 88685110 FR 19 03	2	SW 140015 FR 140025	79 80	103 71	96 61	85 31	104 43	81 52	94 26	82 47	78 3.06 81	118 -0.96 73	115 28 31	103 12.4 71	96 -0.3 61	95 19 54	103 20.4 54	96 20 38	101 -20 11	96 4.2 42	107 -2.9 54	103 -2.6 32	100 14.3 58	102 4 42	99 9 41
FR 190006 88678123 FR 19 06	3	SW 140015 FR 140002	93 80	96 71	83 63	104 32	125 34	84 49	86 27	83 45	91 1.57 81	113 -0.74 72	96 9 32	96 8.9 71	83 -4.2 63	85 -2 55	94 14.2 54	87 -17 39	93 -14 12	86 -0.9 43	126 -16.6 42	120 -5.9 27	100 14.2 58	94 -2 43	91 0 42
FR 190008 89385314 FR 19 8	2	SW 140015 FR 150025	105 80	86 68	100 70	98 39	113 36	92 51	87 27	89 46	103 0.26 81	110 -0.62 71	102 15 39	86 4.5 68	100 0.8 70	89 7 59	92 13.1 50	87 -16 39	93 -14 12	85 -1.7 43	118 -10.8 45	109 -3.8 26	97 12.8 58	96 0 43	91 0 42
FR 190009 89311112 FR 19 9	2	SW 140015 FR 140017	81 81	109 66	113 67	73 40	123 37	98 51	97 27	97 46	80 2.84 82	117 -0.91 72	127 40 40	109 15.4 66	113 4.8 67	108 46 58	110 24.7 51	98 27 39	102 -21 12	100 5.9 42	107 -3.3 47	124 -6.6 27	103 16.0 58	105 7 43	104 14 42
FR 190016 89311153 FR 19 16	11	FR 130012 FR 100029	100 81	86 77	87 74	98 43	116 50	80 60	88 35	81 55	101 0.44 82	86 0.46 73	102 15 43	86 4.3 77	87 -3.1 74	79 -14 65	90 11.6 60	89 -9 44	83 -5 23	90 1.1 47	126 -16.3 60	110 -4.0 40	103 15.9 60	92 -3 47	88 -4 46
FR 190017 89311161 FR 19 17	1	FR 130012 FR 130017	104 76	106 73	115 56	91 30	102 44	116 51	116 34	114 48	105 0.00 78	92 0.20 61	109 22 30	106 13.6 73	115 5.3 56	112 56 53	101 18.6 56	120 112 41	110 -28 22	116 14.3 44	87 10.6 57	106 -3.3 31	102 15.4 57	119 16 44	116 27 43
FR 190019 89316210 FR 19 19	3	FR 130012 FR 150004	107 88	91 85	106 83	91 76	112 78	101 80	100 76	99 79	105 0.00 88	112 -0.70 84	109 22 76	91 6.9 85	106 2.8 83	96 21 81	90 11.9 66	101 38 77	97 -16 75	93 2.5 77	104 -1.1 80	112 -4.4 77	98 13.5 80	97 0 78	97 6 77

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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	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																									
FR 190026 89311229 FR 19 26	4	FR 130012 FR 150009	90 80	95 62	96 60	106 32	104 40	87 48	91 34	86 45	93 1.41 81	86 0.47 71	94 7 32	95 8.5 62	96 -0.2 60	95 19 51	96 15.2 52	91 -1 42	91 -11 22	86 -1.1 45	103 -0.4 46	103 -2.7 33	101 14.8 58	98 1 46	89 -2 44
FR 190031 89312425 FR 19 31	1	DP 140026 FR 160013	97 79	96 74	100 68	106 39	124 45	98 56	93 24	95 50	96 0.96 80	100 -0.18 68	94 7 39	96 9.1 74	100 0.8 68	99 28 60	95 15.1 58	93 8 34	91 -12 11	94 3.0 39	103 -0.7 57	127 -7.2 33	98 13.3 56	95 -1 40	96 5 38
FR 190039 89702997 FR 19 39	9	FR 130012 FR 080012	97 81	99 76	99 73	96 35	81 46	93 57	106 33	94 52	99 0.66 82	86 0.44 73	104 16 35	99 10.4 76	99 0.6 73	98 24 61	98 17.1 58	109 71 41	104 -22 21	106 9.3 44	73 20.5 58	87 0.4 33	97 13.0 59	107 8 44	103 13 43
FR 200001 91103291 FR 20 01	1	DP 140026 FR 100029	105 79	87 74	83 69	108 31	109 45	85 54	89 28	85 49	104 0.04 80	98 -0.08 69	92 5 31	87 5.1 74	83 -4.2 69	80 -13 58	86 8.8 59	91 -1 38	88 -9 13	95 3.6 43	117 -10.1 56	105 -3.0 34	107 17.6 57	90 -5 44	90 -1 42
FR 200008 91103366 FR 20 08	4	FR 130012 FR 120013	105 80	92 73	100 66	94 41	117 49	98 57	98 35	96 53	105 -0.03 81	94 0.08 70	106 19 41	92 7.2 73	100 0.9 66	93 14 60	91 12.3 58	101 39 43	99 -18 23	99 5.8 46	114 -8.1 58	115 -4.9 40	97 13.1 58	102 4 47	96 5 45
FR 200009 91103374 FR 20 09	1	DP 140026 FR 160007	103 78	88 72	92 62	111 29	123 36	92 49	86 26	89 44	103 0.20 79	98 -0.07 65	89 1 29	88 5.2 72	92 -1.6 62	88 4 54	83 7.1 52	85 -23 36	86 -7 11	87 -0.7 41	116 -9.6 43	121 -6.1 29	108 18.0 55	87 -7 41	87 -5 40
FR 200014 91103424 FR 20 14	1	DP 140026 FR 140017	94 79	103 64	106 66	92 42	118 34	102 50	96 24	99 45	94 1.24 80	100 -0.16 68	108 20 42	103 12.2 64	106 2.8 66	105 39 57	98 17.0 50	96 21 33	96 -15 10	102 6.9 37	96 4.5 43	121 -6.1 26	102 15.5 56	96 0 38	99 8 37
FR 200015 91103432 FR 20 15	5	FR 130012 FR 130013	110 78	85 72	93 56	106 33	90 47	89 53	91 32	88 49	109 -0.42 79	100 -0.19 66	94 7 33	85 3.9 72	93 -1.4 56	85 -2 54	84 7.9 50	91 0 40	88 -9 22	92 1.8 42	105 -1.7 57	87 0.4 37	90 9.8 57	93 -2 42	90 -2 41
FR 200016 91103440 FR 20 16	1	FR 130012 FR 130009	94 79	98 65	112 67	79 39	87 38	94 51	101 31	94 47	96 1.05 80	84 0.53 68	121 34 39	98 10.1 65	112 4.5 67	101 32 57	103 20.1 48	103 45 38	96 -16 21	103 7.7 40	77 17.5 45	92 -0.6 32	105 16.6 56	103 5 40	100 9 39
FR 200017 91103457 FR 20 17	3	FR 130012 FR 170001	110 79	92 71	101 62	115 41	119 41	108 53	95 32	103 49	110 -0.54 80	94 0.08 69	85 -2 41	92 7.4 71	101 1.2 62	100 30 58	91 12.3 49	96 21 41	88 -10 21	95 3.7 43	109 -4.9 45	119 -5.7 37	97 12.9 56	94 -2 44	93 2 43
FR 200026 91121947 FR 20 26	27	FR 130012 FR 160004	101 78	85 72	104 63	103 40	104 42	90 54	90 35	89 50	103 0.21 79	83 0.60 68	97 10 40	85 3.8 72	104 2.2 63	93 15 58	93 13.7 49	85 -23 43	73 4 23	92 1.9 46	102 0.4 45	104 -2.9 39	96 12.7 56	94 -2 47	88 -4 45
FR 200027 91636357 FR 20 27	4	FR 130012 FR 170009	105 79	89 62	91 61	105 33	107 38	90 48	94 32	90 45	105 -0.02 80	93 0.14 69	95 8 33	89 5.8 62	91 -1.8 61	87 1 52	91 12.0 51	95 15 40	87 -9 21	93 2.4 42	104 -0.8 45	106 -3.3 31	100 14.2 56	94 -2 43	91 0 42

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ID Number Name																									
FR 210003 92714500 FR 21 003	2	SW 140015 FR 160016	94 76	93 59	90 52	101 30	119 36	85 45	87 28	84 42	93 1.40 78	110 -0.62 61	99 11 30	93 7.5 59	90 -2.1 52	88 3 47	93 13.6 48	88 -13 39	93 -13 12	88 0.2 43	113 -7.1 44	118 -5.5 28	106 17.1 55	94 -2 43	92 0 42
FR 210006 92934330 FR 21 6	2	SW 140015 FR 170001	101 78	96 58	101 52	98 31	133 34	102 44	96 27	99 41	99 0.66 79	111 -0.68 65	102 15 31	96 9.1 58	101 1.1 52	97 24 47	97 16.5 48	99 30 40	99 -18 10	97 4.8 44	125 -15.4 43	130 -7.7 25	102 15.3 54	100 2 45	100 10 43
FR 210012 92681360 FR 21 012	3	SW 140015 FR 110021	101 79	93 65	94 65	102 31	118 38	93 49	92 30	92 45	98 0.82 80	122 -1.15 67	98 11 31	93 7.8 65	94 -1.0 65	91 10 54	89 11.1 51	94 12 43	103 -21 14	89 0.6 47	125 -15.8 46	113 -4.5 31	107 17.7 58	101 3 48	95 4 46
FR 210016 92936087 FR 21 16	2	SW 140015 FR 130013	100 76	96 72	99 55	97 31	112 36	97 48	94 26	95 44	97 0.85 78	119 -1.03 56	103 15 31	96 9.2 72	99 0.5 55	96 21 53	97 16.1 55	95 18 39	101 -20 11	96 3.9 43	113 -7.6 45	109 -3.9 28	94 11.3 53	101 3 43	99 8 42
FR 210018 92681402 FR 21 18	3	SW 140015 FR 120013	93 79	93 73	112 57	93 31	126 43	96 52	93 30	94 48	90 1.64 80	116 -0.88 67	107 20 31	93 7.5 73	112 4.7 57	102 34 54	98 17.2 58	96 22 42	104 -23 14	95 3.4 47	136 -23.6 56	118 -5.5 30	107 17.6 56	102 4 48	96 5 46
FR 210027 92934355 FR 21 27	3	SW 140015 FR 110029	85 70	97 60	95 56	98 31	118 38	84 46	89 30	83 43	85 2.20 70	103 -0.29 66	102 14 31	97 9.4 60	95 -0.7 56	93 15 49	99 17.7 51	91 2 42	99 -18 14	84 -2.2 47	117 -10.0 45	116 -5.0 30	102 15.3 57	97 1 48	92 1 46
FR 220003 94115839 FR 22 03	1	SW 180019 FR 150018	90 74	105 73	108 52	94 26	86 40	99 49	103 26	98 44	90 1.68 76	100 -0.16 58	106 19 26	105 13.5 73	108 3.5 52	109 48 50	105 21.7 56	109 69 29	113 -29 19	99 5.4 33	80 15.6 55	90 -0.3 26	100 14.2 51	113 12 34	110 20 33
FR 220005 94705720 FR 22 05	1	SW 180019 FR 190019	110 77	95 58	97 47	90 28	99 34	100 43	105 24	99 39	107 -0.29 79	109 -0.59 56	110 23 28	95 8.8 58	97 -0.1 47	91 11 44	94 14.1 47	110 73 27	107 -25 20	98 5.1 29	86 11.4 43	104 -2.8 26	102 15.5 48	109 9 30	107 17 29
FR 220006 94115490 FR 22 06	1	SW 180019 FR 180017	106 74	108 72	98 48	82 30	105 34	109 46	112 24	108 42	103 0.19 77	118 -0.98 49	118 31 30	108 14.9 72	98 0.2 48	99 27 50	104 21.0 55	118 105 27	118 -33 18	108 10.4 30	94 5.8 42	108 -3.6 27	105 16.6 49	122 18 31	119 30 30
FR 220009 94115524 FR 22 09	1	SW 180019 FR 160012	101 77	113 73	83 52	90 28	110 41	103 49	110 28	102 45	99 0.71 79	113 -0.76 58	110 23 28	113 17.1 73	83 -4.4 52	94 16 51	105 21.3 57	115 92 30	111 -28 21	104 8.0 34	109 -4.5 55	109 -3.8 27	101 15.1 50	114 13 34	112 22 33
FR 220011 94115540 FR 22 11	1	SW 180019 FR 160007	99 75	100 73	88 51	95 27	108 36	92 47	97 24	92 42	98 0.82 78	104 -0.37 52	105 18 27	100 11.1 73	88 -2.8 51	90 8 50	92 13.1 57	100 36 27	103 -22 19	92 2.2 31	97 3.6 44	111 -4.1 27	104 16.5 50	107 8 31	103 13 30
FR 220013 96383294 FR 22 13	1	SW 180019 FR 130002	100 74	96 71	90 49	98 30	85 34	88 46	93 26	88 42	99 0.62 77	103 -0.30 52	102 15 30	96 9.1 71	90 -2.2 49	89 6 50	94 14.1 55	101 39 29	111 -28 22	93 2.3 31	75 18.9 40	90 -0.3 28	94 11.7 52	107 7 32	98 7 31

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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	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
ID Number Name																										
FR 220016 94115573 FR 22 16		SW 180019 FR 130006	100 75	106 73	99 52	101 28	89 33	103 46	106 24	102 42	99 0.61 78	98 -0.07 51	99 12 28	106 13.6 73	99 0.4 52	104 37 51	105 21.4 56	112 83 26	111 -28 18	105 8.5 25	72 21.3 41	97 -1.5 25	100 14.2 50	109 9 26	107 17 25	
FR 220018 94115581 FR 22 18	1	SW 180019 FR 140026	103 77	104 73	72 52	99 27	107 40	90 49	94 24	89 44	101 0.49 79	111 -0.68 59	101 14 27	104 12.6 73	72 -7.7 52	81 -11 51	95 14.8 56	97 25 26	103 -22 19	87 -0.5 30	90 8.8 55	112 -4.3 26	95 11.8 51	106 7 31	99 9 29	
FR 220021 96404520 FR 22 21	1	SW 180019 FR 190002	97 73	97 57	96 43	97 27	99 31	91 40	98 24	91 37	94 1.21 75	117 -0.94 54	103 16 27	97 9.5 57	96 -0.4 43	94 16 42	96 15.6 47	103 46 27	106 -24 18	95 3.7 30	93 6.8 38	101 -2.2 24	101 15.1 49	107 8 30	103 13 29	
FR 220024 94115623 FR 22 24	1	SW 180019 FR 190016	106 77	97 72	84 50	93 31	107 41	93 50	100 26	93 45	105 -0.02 79	103 -0.29 57	107 20 31	97 9.6 72	84 -3.9 50	84 -4 51	95 15.0 55	105 53 28	101 -20 21	98 4.8 31	105 -2.0 54	106 -3.3 28	105 16.6 49	108 8 32	103 13 31	
FR 220028 94115664 FR 22 28	1	SW 180019 FR 180019	95 77	104 72	92 49	107 31	97 40	97 49	102 24	96 44	95 1.09 79	100 -0.15 57	93 6 31	104 12.8 72	92 -1.5 49	99 28 51	98 17.2 55	107 63 26	108 -25 18	99 5.4 30	84 12.6 54	102 -2.4 26	103 16.0 49	108 8 30	105 15 29	
FR 220036 94705738 FR 22 36	26	SW 140015 FR 190009	93 77	106 71	109 53	82 33	126 38	105 49	101 28	102 45	90 1.66 79	122 -1.17 61	118 31 33	106 13.8 71	109 3.7 53	106 41 52	109 24.1 54	102 43 41	106 -24 11	101 6.4 45	115 -8.8 52	126 -6.9 25	106 17.1 53	109 10 45	107 18 44	
FR 220037 94716503 FR 22 37	1	SW 180019 FR 190031	99 74	107 71	92 48	97 30	101 40	101 48	103 23	100 43	98 0.82 77	105 -0.40 48	103 16 30	107 14.1 71	92 -1.5 48	98 26 50	105 21.7 54	108 66 25	106 -24 18	100 6.3 28	75 18.9 53	109 -3.8 26	103 15.8 49	110 10 29	109 19 28	
FR 230001 95957643 FR230001		GS533580 FR 200009	93 75	92 70	101 53	94 31	97 34	86 47	95 40	86 46	94 1.28 77	98 -0.10 53	106 19 31	92 7.0 70	101 1.3 53	93 15 51	88 10.0 54	100 37 41	111 -28 36	99 5.7 45	98 2.8 42	97 -1.6 25	94 11.5 54	98 1 45	95 4 44	
FR 230006 95957676 FR230006	2	WV 190065 FR 180012	111 75	90 72	100 49	93 27	107 31	99 45			108 -0.37 78	114 -0.78 47	107 20 27	90 6.3 72	100 0.8 49	91 10 49	102 19.3 54	98 29 23	97 -17 8	97 4.8 25	115 -8.5 38	104 -2.8 24	107 17.9 47	106 7 25	103 13 25	
FR 230007 97600795 FR230007	2	WV 190065 FR 180039	98 75	89 71	102 48	104 27	86 28	89 43	96 20	89 38	98 0.76 78	95 0.05 47	96 8 27	89 6.0 71	102 1.6 48	96 20 49	98 17.0 50	97 24 25	96 -16 14	97 4.6 26	91 8.2 33	87 0.3 23	99 13.8 47	103 5 26	98 8 26	
FR 230009 95957684 FR230009		7121423579 FR 200027	100 71	95 62	96 38	96 19	101 24	92 36			100 0.58 74	99 -0.11 40	104 17 19	95 8.6 62	96 -0.5 38	96 21 40	97 15.9 44	98 28 21	94 -14 12	97 4.3 22	92 7.5 29	104 -2.8 18	93 11.2 42	97 1 23	96 6 22	
FR 230010 97600852 FR230010	2	WV 190065 FR 190026	99 75	90 69	104 46	102 23	93 28	92 42	95 20	91 38	99 0.68 78	96 0.00 46	98 11 23	90 6.3 69	104 2.2 46	97 23 46	98 16.8 50	94 12 24	92 -12 13	93 2.5 26	98 2.8 34	92 -0.6 23	103 16.0 46	102 4 26	97 6 26	

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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	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length	
ID Number Name																										
FR 230012 95957692 FR230012		GS533580 FR 180023	85 76	98 72	104 56	75 34	92 38	81 50	103 42	84 48	85 2.22 78	99 -0.11 56	125 38 34	98 9.9 72	104 2.1 56	94 17 54	93 13.8 58	111 77 42	118 -34 38	109 10.8 46	91 8.0 47	93 -0.8 29	87 8.4 55	107 8 46	103 13 45	
FR 230016 97600829 FR230016	1	WV 190065 FR 130006	107 75	91 61	111 52	106 23	86 30	103 41			107 -0.20 78	95 0.03 49	94 7 23	91 6.5 61	111 4.2 52	104 37 45	99 17.4 46	102 42 22	99 -18 8	103 7.8 20	85 12.2 36	89 0.0 23	108 18.1 50	102 4 20	101 10 19	
FR 230019 95957726 FR230019		4587100162 FR 190019	106 76	108 72	93 59	89 41	101 50	106 56	104 45	104 54	104 0.12 78	112 -0.70 60	111 24 41	108 14.6 72	93 -1.4 59	97 23 57	105 21.4 60	105 57 48	113 -29 39	112 12.4 51	111 -5.8 55	97 -1.6 44	98 13.5 58	102 4 51	103 12 50	
FR 230020 97600787 FR230020	2	WV 190065 FR 150030	101 75	90 73	113 52	101 24	90 32	98 45			100 0.55 78	104 -0.33 49	99 11 24	90 6.4 73	113 5.0 52	104 37 50	104 21.0 54	93 8 24	95 -15 10	99 5.6 27	101 0.7 39	88 0.1 24	105 16.6 48	100 3 27	99 8 26	
FR 230022 95957742 FR230022		FR 200001	108 68	86 60	91 36	108 16	104 22	90 34			108 -0.32 72	97 -0.05 35	92 5 16	86 4.3 60	91 -1.9 36	85 -2 37	87 9.4 42	89 -7 19	89 -10 6	92 2.0 22	110 -5.1 28	101 -2.3 17	91 10.3 32	90 -5 22	89 -3 21	
FR 230029 96352117 FR230029	2	SW 140015 FR 160007	95 76	95 72	101 56	97 30	129 36	95 48	92 28	93 44	93 1.35 78	112 -0.73 57	103 16 30	95 8.6 72	101 1.3 56	97 22 53	97 16.4 56	92 3 41	97 -17 12	90 0.8 45	127 -16.9 45	125 -6.8 28	108 18.0 53	101 3 46	98 7 44	
FR 230035 95957833 FR230035	26	SW 140015 FR 190008	98 76	91 70	107 54	97 33	121 32	96 47	91 28	93 43	95 1.12 78	118 -0.97 54	103 15 33	91 6.9 70	107 2.9 54	98 25 52	100 18.5 52	92 6 41	98 -17 11	89 0.5 45	123 -14.3 40	117 -5.2 25	103 15.8 51	101 3 45	96 6 44	
FR 230043 96345103 FR230043	2	SW 140015 FR 190020	102 75	96 59	100 52	103 34	113 36	100 45	100 30	98 42	99 0.62 77	112 -0.72 53	97 10 34	96 9.0 59	100 0.9 52	98 25 48	101 18.7 48	100 37 41	98 -17 14	99 5.4 45	119 -11.3 44	109 -3.8 29	105 16.9 51	107 7 46	104 14 44	
FR 230048 96345137 FR230048	26	SW 140015 FR 190003	77 75	107 58	104 50	88 30	117 34	90 43	98 28	90 40	75 3.34 77	124 -1.24 55	112 25 30	107 14.3 58	104 2.1 50	105 39 46	111 25.4 47	101 39 40	105 -23 11	99 5.4 44	116 -9.3 43	114 -4.8 26	104 16.5 51	107 8 45	105 14 44	
FR 240002 97619308 FR240002	1	LEC 190119 FR 200009	102 75	102 59	90 46	102 19	117 30	101 39	100 22	99 36	103 0.16 78	85 0.48 49	98 11 19	102 12.0 59	90 -2.1 46	95 19 41	102 19.6 40	92 6 31	84 -6 8	99 5.4 35	111 -6.0 40	116 -5.1 19	98 13.4 45	88 -6 36	94 3 34	
FR 240005 97619316 FR240005		LEC 190119 FR 180023	100 75	101 73	93 51	91 23	110 34	97 46	99 25	96 42	102 0.38 78	85 0.51 52	109 21 23	101 11.5 73	93 -1.1 51	93 16 49	102 19.5 44	93 10 33	84 -6 13	100 6.0 37	107 -3.1 44	109 -3.8 24	92 10.4 47	89 -6 37	93 1 36	
FR 240006 97619340 FR240006		LEC 190119 FR 210012	96 75	108 72	91 48	99 20	114 30	102 43	100 23	100 39	96 0.96 78	98 -0.08 50	101 13 20	108 14.8 72	91 -1.8 48	99 28 47	108 23.4 40	95 14 33	90 -11 9	98 4.9 37	116 -9.5 41	111 -4.2 20	98 13.3 46	92 -3 38	96 5 36	

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ID Number Name																									
FR 240008 97622997 FR240008		LEC 190119 FR 180017	98 62	108 60	103 48	90 23	116 33	108 41	106 22	106 37	98 0.81 63	99 -0.12 50	110 23 23	108 14.6 60	103 1.9 48	105 40 44	111 25.5 43	101 37 32	94 -14 9	105 8.4 36	116 -9.7 44	113 -4.5 22	98 13.3 47	98 1 37	102 12 36
FR 240009 97619381 FR240009		LEC 190119 FR 180016	102 75	109 59	89 46	89 20	131 32	105 40	105 22	103 36	101 0.46 78	102 -0.27 51	111 24 20	109 15.0 59	89 -2.6 46	95 18 42	109 24.4 42	100 34 32	92 -13 8	104 8.2 36	122 -13.4 43	128 -7.4 20	93 11.3 46	95 -1 37	102 12 36
FR 240010 97619365 FR240010	1	LEC 190119 FR 170002	104 75	97 73	81 50	111 20	115 32	94 44	90 21	92 39	105 -0.05 78	86 0.46 52	89 1 20	97 9.7 73	81 -5.0 50	87 1 48	97 16.2 42	83 -31 30	76 1 8	90 1.2 34	117 -9.9 42	112 -4.4 21	94 11.6 47	78 -13 35	83 -9 34
FR 240011 97619399 FR240011		LEC 190119 FR 190003	90 75	105 73	94 46	95 20	106 32	93 44	97 22	92 40	91 1.59 78	94 0.08 51	105 18 20	105 13.1 73	94 -0.8 46	98 24 46	108 23.6 41	91 -1 31	86 -7 8	96 4.3 36	109 -4.2 43	105 -3.0 20	94 11.7 46	89 -6 36	92 1 35
FR 240014 97619357 FR240014		LEC 190119 FR 200008	105 75	103 73	94 48	96 23	114 34	105 45	103 25	103 41	106 -0.18 78	83 0.56 51	104 17 23	103 12.2 73	94 -0.9 48	96 22 48	104 21.2 42	98 26 33	88 -10 13	102 7.3 37	111 -5.7 44	112 -4.4 24	93 11.2 46	93 -3 37	96 5 36
FR 240021 98374432 FR240021	4	FR 190023 FR 190001	104 74	105 72	101 46	97 27	110 30	110 44	113 27	108 41	102 0.31 77	112 -0.71 47	103 16 27	105 13.1 72	101 1.3 46	104 37 48	107 22.9 40	110 75 37	102 -21 13	105 8.8 42	101 1.4 36	112 -4.3 24	100 14.3 44	119 16 43	113 24 41
FR 240023 98403363 FR240023	14	FR 190025 FR 170009	111 74	87 71	95 46	110 22	110 28	98 42	85 23	94 38	110 -0.56 77	99 -0.14 46	90 2 22	87 5.0 71	95 -0.7 46	90 8 46	89 11.1 42	89 -8 34	92 -13 7	91 1.5 39	110 -5.3 35	109 -3.8 20	98 13.6 43	84 -9 40	85 -7 38
FR 240025 98374457 FR240025	5	FR 190023 FR 190008	101 74	104 71	99 47	93 26	112 27	105 43	112 27	104 40	100 0.58 77	103 -0.31 46	107 19 26	104 12.9 71	99 0.7 47	101 31 48	107 22.8 38	109 70 37	102 -21 13	101 6.8 42	108 -3.6 33	111 -4.1 21	95 12.1 44	118 16 42	112 22 41
FR 240028 98374473 FR240028	2	FR 190023 FR 190009	87 74	109 70	109 46	85 27	116 28	102 43	112 27	103 40	87 2.06 77	105 -0.40 46	115 28 27	109 15.1 70	109 3.7 46	109 48 48	111 25.4 40	110 72 37	102 -21 13	104 8.2 42	104 -1.3 34	117 -5.2 22	98 13.6 44	118 16 42	113 23 41
FR 240029 98374481 FR240029	8	FR 190025 FR 150018	103 74	85 71	118 49	111 20	97 29	101 42	84 26	96 39	102 0.31 77	104 -0.34 47	89 2 20	85 4.0 71	118 6.4 49	107 44 47	89 11.1 43	89 -8 37	98 -18 10	89 0.5 44	107 -3.2 37	94 -1.0 21	92 10.8 44	89 -5 45	88 -4 42
FR 240030 98374499 FR240030	2	FR 190025 FR 220009	111 71	99 53	93 38	101 21	108 27	105 36	98 24	102 34	108 -0.40 74	109 -0.57 40	99 12 21	99 10.3 53	93 -1.1 38	95 18 37	96 15.9 42	104 51 33	106 -24 11	101 6.5 39	108 -4.2 35	107 -3.4 19	95 12.2 39	100 3 40	100 10 38
FR 240031 97619449 FR240031		8552394134 FR 160007	104 76	90 62	100 59	102 37	113 41	96 50	89 38	93 48	102 0.33 78	111 -0.68 59	98 11 37	90 6.2 62	100 1.0 59	93 15 53	86 8.8 55	90 -2 40	93 -13 33	87 -0.5 44	112 -6.9 50	111 -4.2 32	94 11.7 57	101 3 45	96 5 43

Breeding Values and Accuracies: Cows

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

Animal			Selection Values							Birth		Wean				Growth			Fertility				Frame		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																									
FR 240032 97619456 FR240032		8552394134 FR 200017	109 76	102 73	102 55	102 40	110 39	112 51	102 38	108 48	106 -0.14 78	111 -0.65 56	98 11 40	102 11.8 73	102 1.4 55	103 36 56	98 17.0 51	107 61 40	100 -19 33	103 7.4 43	100 1.8 45	111 -4.2 33	91 9.9 56	110 10 44	107 17 43
FR 240033 97619464 FR240033		8552394134 FR 180019	104 76	98 74	101 57	111 40	105 40	105 52	96 38	101 49	102 0.31 78	106 -0.45 58	89 2 40	98 9.8 74	101 1.2 57	103 35 57	92 12.6 54	100 36 39	100 -19 32	96 4.1 43	103 -0.4 49	105 -3.0 31	92 10.6 57	104 6 44	100 10 42
FR 240035 97619472 FR240035	2	FR 190023 FR 200014	93 74	108 70	105 46	94 27	113 27	106 42	114 26	105 39	94 1.28 77	97 -0.04 45	106 19 27	108 14.7 70	105 2.5 46	108 46 48	107 22.7 38	111 77 35	100 -19 13	107 9.6 40	98 3.1 32	116 -5.1 22	98 13.3 43	115 14 41	112 23 39
FR 240036 97619480 FR240036	16	FR 190023 FR 190039	102 74	96 72	103 48	101 24	94 30	99 44	112 29	100 41	103 0.23 77	89 0.32 47	99 12 24	96 9.2 72	103 1.9 48	100 30 48	99 17.6 42	110 74 37	99 -18 16	102 7.3 42	89 9.3 37	96 -1.4 24	95 12.2 44	114 13 43	107 17 41
FR 240037 98378102 FR240037		FR 210018	99 67	91 36	105 29	100 16	112 22	95 27			97 0.87 71	107 -0.50 34	100 13 16	91 6.9 36	105 2.5 29	98 25 27	95 14.6 29	94 12 21	99 -18 7	94 2.8 23	119 -11.5 28	108 -3.7 15	91 9.9 31	97 1 24	93 2 23
FR 240038 98378128 FR240038		FR 210003	103 67	89 29	94 26	104 15	109 18	91 24			102 0.38 71	104 -0.36 30	96 9 15	89 6.0 29	94 -1.0 26	89 6 23	90 11.7 24	90 -5 19	93 -13 6	90 1.2 21	107 -3.2 22	108 -3.6 14	90 9.6 30	93 -2 22	91 0 21
FR 240041 98403462 24 0041	16	FR 190023 FR 200015	108 73	93 55	98 41	103 23	99 31	100 39	108 28	100 37	107 -0.27 76	97 -0.03 44	97 10 23	93 7.8 55	98 0.4 41	95 19 40	95 14.9 39	105 55 37	95 -15 16	99 5.6 41	104 -1.2 37	97 -1.5 25	93 11.0 42	111 11 42	104 14 40
FR 240044 98374531 FR240044	4	FR 190023 FR 180006	81 74	117 57	106 47	95 26	110 28	104 40	117 28	105 38	82 2.63 77	100 -0.19 47	105 18 26	117 18.7 57	106 2.7 47	115 61 43	119 31.2 40	116 97 37	107 -25 13	110 11.4 42	107 -2.9 33	110 -3.9 23	102 15.2 44	123 20 43	119 30 41
FR 250002 99573651 FR250002	2	WV 190065 FR 220018	103 72	96 60	92 42	98 21	95 29	94 39			102 0.36 75	108 -0.54 42	102 15 21	96 9.1 60	92 -1.5 42	91 10 41	100 18.1 46	98 28 18	99 -18 11	94 3.2 20	91 7.7 37	96 -1.4 21	99 13.7 43	107 8 20	103 13 19
FR 250004 99573677 FR250004	2	WV 190065 FR 200008	96 75	95 60	107 47	96 27	99 32	95 42	100 20	95 38	96 1.06 78	100 -0.18 46	104 17 27	95 8.7 60	107 3.1 47	101 31 45	102 19.8 46	100 35 25	97 -16 13	100 6.4 26	104 -0.8 38	98 -1.8 26	100 14.4 45	105 6 27	101 11 26
FR 250005 99573685 FR250005	2	WV 190065 FR 220003	85 72	103 60	112 42	96 21	84 29	95 39			85 2.20 75	103 -0.31 42	104 17 21	103 12.5 60	112 4.4 42	110 51 41	111 25.4 46	104 50 19	104 -22 11	100 6.1 21	87 11.1 37	86 0.6 21	101 14.9 43	110 10 22	108 18 21
FR 250008 99573719 FR250008	2	WV 190065 FR 220024	110 72	90 59	98 42	95 23	94 29	96 39			108 -0.36 75	104 -0.34 41	105 18 23	90 6.4 59	98 0.2 42	90 8 41	98 16.8 46	102 43 19	98 -17 12	100 5.9 20	99 2.3 36	94 -0.9 22	104 16.1 42	108 8 21	105 15 20

Breeding Values and Accuracies: Cows

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Animal			Selection Values							Birth		Wean				Growth			Fertility				Frame		
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calf Growth V	Milk V	Maint. V	Fertility V	Cow Value	Growth Value	Prod. Value	Birth wt dir	Birth mat	Mature wt	Wean wt	Wean mat	Cow-Calf Ratio (Wean)	Postwean wt	ADG	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																									
FR 250009 99573727 FR250009	1	WV 190065 FR 210006	100 74	94 55	107 42	98 23	107 26	99 37			99 0.70 77	108 -0.55 44	102 15 23	94 7.9 55	107 3.0 42	100 29 40	102 19.7 43	99 31 23	97 -16 8	99 5.8 26	109 -4.4 33	105 -3.1 20	102 15.5 44	104 5 26	103 13 25
FR 250010 99573735 FR250010	2	WV 190065 FR 210018	98 75	91 60	112 44	95 23	104 30	96 40			97 0.95 78	110 -0.64 45	105 18 23	91 6.5 60	112 4.7 44	101 32 42	102 19.4 46	98 27 24	99 -18 9	98 5.2 27	115 -8.5 37	100 -2.1 22	105 16.6 45	105 6 27	101 10 26
FR 250013 99573750 FR250013		FR 200017	115 68	87 36	99 31	111 20	109 20	103 28			114 -1.09 72	96 0.00 34	89 2 20	87 4.8 36	99 0.5 31	93 14 29	87 9.5 24	94 12 20	91 -11 11	94 3.0 22	105 -2.1 22	109 -3.7 19	81 5.2 28	93 -2 22	92 1 21
FR 250014 99573768 FR250014		LEC 170048 FR 220036	101 73	105 60	89 48	84 31	124 32	100 43	100 22	98 39	101 0.46 76	99 -0.13 50	116 29 31	105 13.3 60	89 -2.5 48	91 10 46	111 25.5 52	99 32 30	98 -17 11	102 7.0 33	108 -4.1 42	125 -6.8 23	96 12.3 47	105 7 34	104 14 32
FR 250015 99573776 FR250015		LEC 170048 FR 180016	108 76	101 60	79 52	86 30	136 34	97 44	97 22	96 40	107 -0.19 78	103 -0.33 54	114 26 30	101 11.5 60	79 -5.6 52	81 -10 47	104 21.2 54	98 27 30	96 -16 11	100 6.2 33	120 -12.0 44	135 -8.7 25	93 11.1 49	102 4 34	102 11 33
FR 250017 99573792 FR250017		LEC 170048 FR 220021	108 72	98 56	82 46	92 29	110 30	94 40	98 20	93 36	107 -0.27 75	96 0.00 48	108 21 29	98 9.9 56	82 -4.7 46	83 -7 44	102 19.8 50	99 33 26	98 -17 13	99 5.6 28	97 3.7 38	112 -4.4 23	94 11.3 46	104 6 29	102 12 28
FR 250018 99573800 FR250018		LEC 170048 FR 190001	115 76	94 61	85 53	94 34	116 34	100 45	95 22	97 40	113 -0.97 78	102 -0.26 54	106 19 34	94 8.3 61	85 -3.6 53	83 -6 49	102 19.4 53	95 15 29	94 -14 11	99 5.8 32	102 0.4 43	118 -5.5 25	96 12.7 49	101 4 33	100 9 32
FR 250020 99573826 FR250020		LEC 170048 FR 180023	112 76	91 62	83 55	85 33	116 36	90 46	95 24	90 42	113 -0.92 78	86 0.47 55	115 28 33	91 6.5 62	83 -4.4 55	76 -21 50	94 14.5 54	95 17 31	91 -12 15	99 5.8 33	104 -0.9 44	117 -5.3 28	90 9.5 49	98 1 34	96 5 33
FR 250022 99573859 FR250022		FR 200026	105 68	86 36	101 32	104 20	102 21	93 28			106 -0.08 72	91 0.24 34	96 8 20	86 4.5 36	101 1.2 32	92 13 29	91 12.1 24	88 -10 22	83 -5 12	92 2.1 23	102 0.5 22	101 -2.3 20	80 5.1 28	93 -2 23	90 -2 23
FR 250023 99573867 FR250023		LEC 170048 FR 210012	111 75	95 58	81 52	94 30	120 32	95 43	95 23	94 39	110 -0.63 78	98 -0.11 52	106 18 30	95 8.7 58	81 -5.0 52	80 -12 47	98 17.0 52	95 16 30	96 -16 12	96 4.0 34	113 -7.6 41	118 -5.6 24	96 12.7 49	101 3 34	98 7 33
FR 250030 99573933 FR250030	2	FR 190023 FR 200014	101 74	102 53	105 45	96 27	113 27	106 38	111 26	105 36	101 0.48 77	96 -0.01 45	104 17 27	102 11.7 53	105 2.5 45	104 38 42	102 19.2 38	108 65 35	98 -17 13	104 8.2 40	100 1.9 32	114 -4.8 22	99 13.8 41	112 12 41	109 19 39
FR 250033 99573966 FR250033		FR 190026	105 68	88 31	96 30	106 16	101 20	93 26			106 -0.07 72	92 0.19 35	94 7 16	88 5.4 31	96 -0.2 30	91 9 26	89 11.1 26	91 1 21	92 -12 11	89 0.6 22	102 0.1 23	101 -2.2 16	83 6.1 29	96 -1 23	90 -1 22

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Animal			Selection Values								Birth		Wean				Growth			Fertility				Frame	
Index EBV Acc	% Inbreeding	Sire ID Dam ID	Calv. Ease V	Calv 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	FCR	Scrotal Circ.	Heifer Fertility	Cow Fertility	Longevity	Height	Length
ID Number Name																									
FR 250035 99573974 FR250035	4	FR 190023 FR 190006	106 74	95 55	93 43	102 23	116 26	99 37	106 27	99 35	105 -0.02 77	103 -0.29 46	98 11 23	95 8.5 55	93 -1.2 43	92 12 40	96 15.8 40	103 46 37	97 -17 13	96 4.2 42	115 -8.6 32	114 -4.7 21	97 13.1 42	111 11 42	105 15 41
FR 250036 99573982 FR250036	4	FR 190023 FR 180012	96 74	101 56	99 46	95 26	120 31	99 40	110 27	100 37	95 1.11 77	107 -0.50 47	105 18 26	101 11.6 56	99 0.6 46	99 27 43	107 23.0 44	107 63 37	99 -19 13	99 5.6 42	121 -12.6 37	116 -5.1 25	102 15.3 43	116 14 42	109 19 41
FR 250037 99573990 FR250037	4	FR 190025 FR 190019	112 74	89 54	105 44	101 22	109 29	104 38	93 26	100 36	110 -0.54 77	108 -0.55 45	99 12 22	89 5.8 54	105 2.6 44	97 22 40	90 11.8 41	97 24 36	98 -18 12	95 3.7 41	106 -2.5 36	109 -3.7 22	94 11.4 41	91 -4 42	93 2 40
FR 250039 99574014 FR250039		FR 180006	103 68	98 38	100 36	98 20	106 19	102 29			102 0.27 72	102 -0.27 37	102 15 20	98 10.1 38	100 1.0 36	99 26 31	101 18.6 27	102 44 21	104 -22 6	103 7.9 23	106 -2.3 22	105 -3.1 16	88 8.5 30	105 6 23	105 15 22
FR 250040 99575169 FR250040	4	FR 190023 FR 220037	97 58	107 55	99 38	98 22	104 28	104 36	114 26	104 34	97 0.91 60	99 -0.15 38	102 15 22	107 14.3 55	99 0.5 38	104 38 38	108 23.6 40	113 87 34	103 -22 15	103 7.8 38	89 9.1 36	108 -3.7 21	99 14.0 39	119 17 39	114 25 37

Selection List on Cow Value

Bulls 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Genomic tested	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID							Q204X	nt821	F94L		Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
										★★★★☆																	
1	FR 230047	FR230047	FR 190025	FR 190017	4.2						102	72	100	53	110	40	102	22	104	28	110	37	101	26	106	35	
										★★★★																	
1	FR 190023	FR 19 23	FR 130012	FR 100025	4.3	HH	0	0	0		95	92	107	89	105	83	100	78	107	79	108	82	125	80	109	82	
2	FR 190025	FR 19 25	DP 140026	FR 150030	1.1	HH	0	0	0		109	90	90	86	105	80	112	76	107	77	105	80	87	79	100	80	
3	FR 230002	FR230002	4587100162	FR 180017	0.1						95	76	110	73	102	60	89	43	105	50	105	57	102	44	102	54	
4	FR 230025	FR230025	FR 190023	FR 190009	2.1						79	74	114	53	110	45	86	27	115	28	101	38	111	27	101	36	
5	FR 230027	FR230027	FR 190023	FR 170013	5.4						93	74	105	71	104	48	98	21	113	30	103	43	111	25	103	39	
6	FR 230030	FR230030	FR 190023	FR 200016	14.8						88	74	108	68	109	46	89	26	97	28	100	42	114	28	101	39	
7	FR 230039	FR230039	FR 190025	FR 200014	14.7						93	74	107	67	105	44	99	26	113	24	105	40	95	23	101	37	
8	FR 230041	FR230041	FR 190023	FR 190001	4.2						98	73	101	56	105	46	100	27	109	30	104	40	109	27	103	37	
9	FR 240007	FR240007	LEC 190119	FR 180017	0.3						98	62	108	60	103	48	90	23	116	33	108	41	106	22	106	37	
10	FR 240012	FR240012	LEC 190119	FR 180002	0.3						76	75	123	72	104	49	80	23	114	30	103	44	117	23	104	40	
11	FR 240019	FR240019	LEC 190119	FR 200016	0.3						91	75	110	72	101	48	84	23	99	30	100	43	109	24	100	39	
12	FR 240022	FR240022	FR 190023	FR 190031	7.9						94	74	110	72	100	46	95	26	117	30	106	44	118	26	107	40	
13	FR 240048	FR240048	FR 190023	FR 190019	17.0						105	74	97	71	106	46	94	23	110	30	105	43	114	28	105	40	
										★★★★☆																	
1	FR 220039	FR 22 39	SW 140015	FR 180002	26.6						81	76	107	72	116	53	83	33	123	33	99	47	107	28	99	43	
2	FR 220040	FR 22 40	SW 140015	FR 190003	26.1						89	74	101	58	103	50	88	30	117	34	93	43	98	28	92	40	
3	FR 230004	FR230004	WV 190065	FR 180006	1.8						91	75	102	72	109	50	95	26	97	28	98	44					
4	FR 230015	FR230015	WV 190065	FR 170009	1.3						96	75	97	72	99	50	98	23	99	30	93	44					
5	FR 230018	FR230018	WV 190065	FR 180016	1.6						106	75	90	72	102	47	95	23	115	30	98	43					
6	FR 240001	FR240001	LEC 190119	FR 190006	0.5						92	75	109	59	86	46	98	20	118	28	96	39	100	22	95	36	
7	FR 240013	FR240013	LEC 190119	FR 200001	0.4						100	75	99	73	88	49	104	20	109	32	94	44	98	22	93	40	
8	FR 240020	FR240020	FR 190023	FR 210027	6.6						88	72	103	52	100	41	99	23	113	28	95	37	107	28	96	35	
9	FR 240024	FR240024	FR 190025	FR 140026	3.5						104	74	91	55	84	48	111	21	120	30	91	39	81	25	87	36	
10	FR 240026	FR240026	FR 190023	FR 160012	19.8						99	74	97	72	98	50	103	23	110	32	97	44	108	30	97	41	

Selection List on Cow Value

Bulls 2 years and older

ID Sorted on ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin		Genomic tested	Calving	Calf	Milk	Maint.	Fertility	Cow	Growth	Prod									
						Ease Value Acc	Growth Value Acc		Value Acc	Value Acc	Value Acc	Value Acc	Value Acc												
									★★★																
11	FR 240034	FR240034	8552394134	FR 200026	0.0				98	76	97	73	106	55	96	40	102	39	98	51	100	40	97	49	
12	FR 240039	FR240039	FR 190025	FR 190026	6.0				103	73	91	50	101	41	109	22	105	26	97	35	89	26	94	33	
13	FR 240040	FR240040	FR 190023	FR 180012	4.3				84	74	108	56	100	46	95	26	120	31	96	40	110	27	97	37	
14	FR 240046	FR240046	FR 190023	FR 160013	14.8				87	74	104	72	93	50	99	23	114	32	91	44	108	28	93	41	
15	FR 240047	FR240047		FR 170013	0.0				89	68	100	38	102	36	102	12	109	22	93	28					
									★★																
1	FR 220020	FR 22 20	SW 180019	FR 170002	0.9				94	75	106	72	78	50	98	27	105	34	88	46	102	23	89	41	
2	FR 220029	FR 22 29	SW 180019	FR 110015	1.2				96	76	95	59	87	51	94	27	90	36	81	44	94	24	82	40	
3	FR 220031	FR 22 31	SW 180019	FR 180012	0.9				88	74	100	72	94	49	92	30	109	34	86	46	100	24	87	42	
4	FR 220033	FR 22 33	SW 180019	FR 190026	0.8				79	74	109	54	94	44	98	28	95	32	87	40	100	26	88	37	
5	FR 230003	FR230003	WV 190065	FR 140005	1.4				91	75	94	73	100	52	95	25	112	31	87	45					
6	FR 230014	FR230014	GS533580	FR 190039	0.0				80	76	99	71	108	56	88	32	76	36	81	48	102	42	84	47	
7	FR 230021	FR230021	4296105603	FR 190006	0.0				77	76	110	71	97	57	107	41	88	41	88	52	94	42	88	50	
8	FR 230038	FR230038	FR 190025	FR 170027	1.7				93	74	96	70	94	48	106	18	98	28	88	41	87	23	87	37	
9	FR 240004	FR240004	LEC 190119	FR 190016	0.3				95	75	96	74	91	51	100	25	112	34	89	46	96	25	89	42	
10	FR 240018	FR240018	LEC 190119	FR 170027	0.3				93	75	99	74	88	52	103	16	98	32	87	44	93	20	87	39	
11	FR 240027	FR240027		FR 190020	0.0				105	68	83	66	98	35	116	22	96	24	89	37					

Selection List on Cow Value

Cows 2 years and older

ID Name Sorted on ID		Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin				Genomic tested	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	FR 190017	FR 19 17	FR 130012	FR 130017	0.8						10476	10673	11556	9130	10244	11651	11634	11448	
2	FR 240021	FR240021	FR 190023	FR 190001	4.2						10474	10572	10146	9727	11030	11044	11327	10841	
3	FR 240032	FR240032	8552394134	FR 200017	0.0						10976	10273	10255	10240	11039	11251	10238	10848	
											★★★★								
1	FR 180006	BERNI	SW 140015	FR 150030	1.5						8881	11476	10473	9039	11338	10654	10928	10549	
2	FR 180017	FOWLER	SW 140015	FR 110016	3.1						9980	9675	11870	8739	12048	10657	9829	10351	
3	FR 190001	FR 19 01	SW 140015	FR 140029	1.5						10981	9074	10369	10142	11144	10156	9228	9850	
4	FR 190019	FR 19 19	FR 130012	FR 150004	2.9	HH	0	0	0		10788	9185	10683	9176	11278	10180	10076	9979	
5	FR 200014	FR 20 14	DP 140026	FR 140017	0.7						9479	10364	10666	9242	11834	10250	9624	9945	
6	FR 200017	FR 20 17	FR 130012	FR 170001	2.9						11079	9271	10162	11541	11941	10853	9532	10349	
7	FR 210006	FR 21 6	SW 140015	FR 170001	1.8						10178	9658	10152	9831	13334	10244	9627	9941	
8	FR 220005	FR 22 05	SW 180019	FR 190019	0.9						11077	9558	9747	9028	9934	10043	10524	9939	
9	FR 220006	FR 22 06	SW 180019	FR 180017	1.1						10674	10872	9848	8230	10534	10946	11224	10842	
10	FR 220009	FR 22 09	SW 180019	FR 160012	0.9						10177	11373	8352	9028	11041	10349	11028	10245	
11	FR 220016	FR 22 16	SW 180019	FR 130006	0.4						10075	10673	9952	10128	8933	10346	10624	10242	
12	FR 220036	FR 22 36	SW 140015	FR 190009	26.2						9377	10671	10953	8233	12638	10549	10128	10245	
13	FR 220037	FR 22 37	SW 180019	FR 190031	0.9						9974	10771	9248	9730	10140	10148	10323	10043	
14	FR 230016	FR230016	WV 190065	FR 130006	0.8						10775	9161	11152	10623	8630	10341			
15	FR 230019	FR230019	4587100162	FR 190019	0.1						10676	10872	9359	8941	10150	10656	10445	10454	
16	FR 230043	FR230043	SW 140015	FR 190020	1.6						10275	9659	10052	10334	11336	10045	10030	9842	
17	FR 240002	FR240002	LEC 190119	FR 200009	0.6						10275	10259	9046	10219	11730	10139	10022	9936	
18	FR 240006	FR240006	LEC 190119	FR 210012	0.4						9675	10872	9148	9920	11430	10243	10023	10039	
19	FR 240008	FR240008	LEC 190119	FR 180017	0.3						9862	10860	10348	9023	11633	10841	10622	10637	
20	FR 240009	FR240009	LEC 190119	FR 180016	0.4						10275	10959	8946	8920	13132	10540	10522	10336	
21	FR 240014	FR240014	LEC 190119	FR 200008	0.3						10575	10373	9448	9623	11434	10545	10325	10341	
22	FR 240025	FR240025	FR 190023	FR 190008	4.5						10174	10471	9947	9326	11227	10543	11227	10440	
23	FR 240028	FR240028	FR 190023	FR 190009	2.1						8774	10970	10946	8527	11628	10243	11227	10340	

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Genomic tested	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID							Q204X	nt821	F94L		Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
										★★★																	
24	FR 240029	FR240029	FR 190025	FR 150018	7.5						103	74	85	71	118	49	111	20	97	29	101	42	84	26	96	39	
25	FR 240030	FR240030	FR 190025	FR 220009	2.0						111	71	99	53	93	38	101	21	108	27	105	36	98	24	102	34	
26	FR 240033	FR240033	8552394134	FR 180019	0.0						104	76	98	74	101	57	111	40	105	40	105	52	96	38	101	49	
27	FR 240035	FR240035	FR 190023	FR 200014	1.6						93	74	108	70	105	46	94	27	113	27	106	42	114	26	105	39	
28	FR 240041	24 0041	FR 190023	FR 200015	15.8						108	73	93	55	98	41	103	23	99	31	100	39	108	28	100	37	
29	FR 240044	FR240044	FR 190023	FR 180006	4.2						81	74	117	57	106	47	95	26	110	28	104	40	117	28	105	38	
										★★★☆☆																	
1	FR 150018	FR1518	FR 100001	FR 110030	3.7	HH	1	0	0		93	89	88	87	129	87	104	77	88	80	99	83	88	78	95	82	
2	FR 160012	FR1612	FR 130012	FR 110021	4.1						104	84	92	79	88	79	107	33	114	48	92	59	92	38	90	55	
3	FR 170013	NIVELLE	WV 140016	FR 080005	2.0	HH	0	0	0		81	88	105	86	105	85	98	76	118	78	94	81	95	76	93	80	
4	FR 180002	AMY	SW 140015	FR 120009	3.1						84	81	100	66	121	68	81	39	115	37	97	51	104	30	97	47	
5	FR 180016	WINKLE	SW 140015	FR 140005	2.0						95	81	103	73	89	64	86	32	150	44	96	53	96	28	95	48	
6	FR 180019	LUCY	DP 140026	FR 110021	0.8						100	82	90	75	98	70	128	40	111	46	96	57	88	28	93	51	
7	FR 190008	FR 19 8	SW 140015	FR 150025	2.4						105	80	86	68	100	70	98	39	113	36	92	51	87	27	89	46	
8	FR 190009	FR 19 9	SW 140015	FR 140017	2.4						81	81	109	66	113	67	73	40	123	37	98	51	97	27	97	46	
9	FR 190031	FR 19 31	DP 140026	FR 160013	0.7						97	79	96	74	100	68	106	39	124	45	98	56	93	24	95	50	
10	FR 190039	FR 19 39	FR 130012	FR 080012	8.9						97	81	99	76	99	73	96	35	81	46	93	57	106	33	94	52	
11	FR 200008	FR 20 08	FR 130012	FR 120013	4.0						105	80	92	73	100	66	94	41	117	49	98	57	98	35	96	53	
12	FR 200009	FR 20 09	DP 140026	FR 160007	0.8						103	78	88	72	92	62	111	29	123	36	92	49	86	26	89	44	
13	FR 200016	FR 20 16	FR 130012	FR 130009	1.3						94	79	98	65	112	67	79	39	87	38	94	51	101	31	94	47	
14	FR 200026	FR 20 26	FR 130012	FR 160004	27.4						101	78	85	72	104	63	103	40	104	42	90	54	90	35	89	50	
15	FR 200027	FR 20 27	FR 130012	FR 170009	3.9						105	79	89	62	91	61	105	33	107	38	90	48	94	32	90	45	
16	FR 210012	FR 21 012	SW 140015	FR 110021	3.2						101	79	93	65	94	65	102	31	118	38	93	49	92	30	92	45	
17	FR 210016	FR 21 16	SW 140015	FR 130013	2.4						100	76	96	72	99	55	97	31	112	36	97	48	94	26	95	44	
18	FR 210018	FR 21 18	SW 140015	FR 120013	3.1						93	79	93	73	112	57	93	31	126	43	96	52	93	30	94	48	
19	FR 220003	FR 22 03	SW 180019	FR 150018	1.0						90	74	105	73	108	52	94	26	86	40	99	49	103	26	98	44	
20	FR 220011	FR 22 11	SW 180019	FR 160007	0.9						99	75	100	73	88	51	95	27	108	36	92	47	97	24	92	42	

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Genomic tested	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value									
Sorted on ID								Q204X	nt821	F94L	Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc									
											★★★																
21	FR 220018	FR 22 18	SW 180019	FR 140026	1.0						103	77	104	73	72	52	99	27	107	40	90	49	94	24	89	44	
22	FR 220021	FR 22 21	SW 180019	FR 190002	1.0						97	73	97	57	96	43	97	27	99	31	91	40	98	24	91	37	
23	FR 220024	FR 22 24	SW 180019	FR 190016	1.0						106	77	97	72	84	50	93	31	107	41	93	50	100	26	93	45	
24	FR 220028	FR 22 28	SW 180019	FR 180019	0.9						95	77	104	72	92	49	107	31	97	40	97	49	102	24	96	44	
25	FR 230006	FR230006	WV 190065	FR 180012	1.7						111	75	90	72	100	49	93	27	107	31	99	45					
26	FR 230009	FR230009	7121423579	FR 200027	0.0						100	71	95	62	96	38	96	19	101	24	92	36					
27	FR 230010	FR230010	WV 190065	FR 190026	1.8						99	75	90	69	104	46	102	23	93	28	92	42	95	20	91	38	
28	FR 230020	FR230020	WV 190065	FR 150030	1.6						101	75	90	73	113	52	101	24	90	32	98	45					
29	FR 230022	FR230022		FR 200001	0.0						108	68	86	60	91	36	108	16	104	22	90	34					
30	FR 230029	FR230029	SW 140015	FR 160007	2.4						95	76	95	72	101	56	97	30	129	36	95	48	92	28	93	44	
31	FR 230035	FR230035	SW 140015	FR 190008	26.3						98	76	91	70	107	54	97	33	121	32	96	47	91	28	93	43	
32	FR 230048	FR230048	SW 140015	FR 190003	26.1						77	75	107	58	104	50	88	30	117	34	90	43	98	28	90	40	
33	FR 240005	FR240005	LEC 190119	FR 180023	0.3						100	75	101	73	93	51	91	23	110	34	97	46	99	25	96	42	
34	FR 240010	FR240010	LEC 190119	FR 170002	0.5						104	75	97	73	81	50	111	20	115	32	94	44	90	21	92	39	
35	FR 240011	FR240011	LEC 190119	FR 190003	0.4						90	75	105	73	94	46	95	20	106	32	93	44	97	22	92	40	
36	FR 240023	FR240023	FR 190025	FR 170009	14.4						111	74	87	71	95	46	110	22	110	28	98	42	85	23	94	38	
37	FR 240031	FR240031	8552394134	FR 160007	0.0						104	76	90	62	100	59	102	37	113	41	96	50	89	38	93	48	
38	FR 240036	FR240036	FR 190023	FR 190039	16.5						102	74	96	72	103	48	101	24	94	30	99	44	112	29	100	41	
39	FR 240037	FR240037		FR 210018	0.0						99	67	91	36	105	29	100	16	112	22	95	27					
40	FR 240038	FR240038		FR 210003	0.0						103	67	89	29	94	26	104	15	109	18	91	24					
											★★																
1	FR 170002	ROSIERE	DP 140026	FR 140002	0.7						105	82	88	74	70	73	114	32	122	43	81	54	84	24	81	48	
2	FR 170009	AMIENS	DP 140026	FR 140010	1.1						103	81	85	74	87	72	107	32	114	42	84	54	86	22	83	48	
3	FR 180012	PRIYA	SW 140015	FR 080005	1.1						88	81	100	75	94	70	90	40	132	46	89	57	94	27	88	51	
4	FR 180023	KEREN	FR 130012	FR 120013	4.0	HH	0	0	0		103	88	84	86	98	85	83	78	110	79	83	82	91	77	84	81	
5	FR 180039	FR 18 39	FR 130012	FR 130002	1.2						96	79	87	64	93	68	114	42	91	38	82	51	89	36	82	48	
6	FR 190003	FR 19 03	SW 140015	FR 140025	2.1						79	80	103	71	96	61	85	31	104	43	81	52	94	26	82	47	

Selection List on Cow Value

Cows 2 years and older

ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Genomic tested	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value										
Sorted on ID							Q204X	nt821	F94L		Acc	Acc	Acc	Acc	Acc	Acc	Acc	Acc										
										★★																		
7	FR	190006	FR 19 06	SW 140015	FR 140002	3.4					93	80	96	71	83	63	104	32	125	34	84	49	86	27	83	45		
8	FR	190016	FR 19 16	FR 130012	FR 100029	10.7					100	81	86	77	87	74	98	43	116	50	80	60	88	35	81	55		
9	FR	190026	FR 19 26	FR 130012	FR 150009	4.2					90	80	95	62	96	60	106	32	104	40	87	48	91	34	86	45		
10	FR	200001	FR 20 01	DP 140026	FR 100029	1.2					105	79	87	74	83	69	108	31	109	45	85	54	89	28	85	49		
11	FR	200015	FR 20 15	FR 130012	FR 130013	4.7					110	78	85	72	93	56	106	33	90	47	89	53	91	32	88	49		
12	FR	210003	FR 21 003	SW 140015	FR 160016	2.4					94	76	93	59	90	52	101	30	119	36	85	45	87	28	84	42		
13	FR	210027	FR 21 27	SW 140015	FR 110029	3.1					85	70	97	60	95	56	98	31	118	38	84	46	89	30	83	43		
14	FR	220013	FR 22 13	SW 180019	FR 130002	0.9					100	74	96	71	90	49	98	30	85	34	88	46	93	26	88	42		
15	FR	230001	FR230001	GS533580	FR 200009	0.1					93	75	92	70	101	53	94	31	97	34	86	47	95	40	86	46		
16	FR	230007	FR230007	WV 190065	FR 180039	2.0					98	75	89	71	102	48	104	27	86	28	89	43	96	20	89	38		
17	FR	230012	FR230012	GS533580	FR 180023	0.0					85	76	98	72	104	56	75	34	92	38	81	50	103	42	84	48		
										★★☆																		
1	FR	140026	FR1426	SW 090034	FR 040001	1.0	HH	0	0	1	🧬	101	90	91	88	62	88	110	79	132	82	76	84	76	79	75	83	
2	FR	160013	FR1613	SW 090034	FR 100025	4.3	HH	1	0	0	🧬	82	90	95	88	82	88	105	79	119	81	73	84	85	79	75	83	
3	FR	170027	CARCASSONNE	WV 140016	FR 110015	4.4					90	82	99	78	80	77	100	21	89	43	77	54	90	20	79	47		

Selection List on Cow Value

Bull Calves younger than 2 years

ID	Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin	Genomic tested	Calving Ease Value	Calf Growth Value	Milk Value	Maint. Value	Fertility Value	Cow Value	Growth Value	Prod Value										
Sorted on ID						Q204X	nt821	F94L	Acc	Acc	Acc	Acc	Acc	Acc	Acc										
											★★★★														
1	FR 250028	FR250028	FR 190023	FR 190009	2.1				85	74	110	53	109	45	86	27	115	28	102	38	111	27	102	36	
											★★★★☆														
1	FR 250003	FR250003	WV 190065	FR 220005	1.9				104	72	93	55	105	41	94	22	91	27	98	37					
2	FR 250006	FR250006	WV 190065	FR 220028	1.7				99	72	96	59	102	41	102	23	90	29	97	39					
3	FR 250007	FR250007	WV 190065	FR 200016	1.1				90	75	98	57	113	47	88	27	84	28	93	40					
4	FR 250011	FR250011	LEC 170048	FR 190008	0.3				112	76	93	59	84	54	93	33	117	32	94	44	93	22	92	40	
5	FR 250016	FR250016	LEC 170048	FR 200001	0.4				110	76	94	61	76	53	97	30	115	34	90	44	94	22	89	40	
6	FR 250026	FR250026	LEC 170048	FR 190039	0.3				101	76	103	61	84	55	92	31	101	35	93	45	102	24	93	41	
7	FR 250029	FR250029		FR 160012	0.0				90	69	99	39	94	40	106	17	106	24	90	31	91	20	89	29	
8	FR 250031	FR250031		FR 180019	0.0				96	68	93	37	98	35	117	20	105	22	94	29					
9	FR 250032	FR250032	FR 190023	FR 210027	6.6				82	73	107	52	101	41	99	23	113	28	93	37	107	28	95	35	
10	FR 250038	FR250038	FR 190023	FR 200027	16.3				98	74	99	52	99	43	102	23	107	28	98	37	110	28	99	35	
											★★★★														
1	FR 250019	FR250019	LEC 170048	FR 180039	0.3				106	76	94	58	80	53	101	34	106	33	89	44	94	24	88	40	
2	FR 250021	FR250021	LEC 170048	FR 190003	0.4				89	76	106	60	83	51	86	30	113	34	86	44	96	22	87	40	
3	FR 250024	FR250024	LEC 170048	FR 170009	0.4				101	76	97	61	79	54	97	30	118	34	88	45	92	20	87	40	
4	FR 250025	FR250025	LEC 170048	FR 170027	0.3				99	76	102	62	75	56	93	27	105	34	85	45	94	20	86	40	
5	FR 250027	FR250027	LEC 170048	FR 190016	0.3				96	76	100	62	79	55	93	34	119	36	85	47	93	24	85	42	

Selection List on Cow Value
Heifers younger than 2 years

ID Sorted on ID		Name	Sire ID	Dam ID	% Inbreeding	Horned / Polled	Myostatin			Genomic tested	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	FR 250013	FR250013		FR 200017	0.0						115 68	87 36	99 31	111 20	109 20	103 28			
2	FR 250014	FR250014	LEC 170048	FR 220036	0.3						101 73	105 60	89 48	84 31	124 32	100 43	100 22	98 39	
3	FR 250018	FR250018	LEC 170048	FR 190001	0.4						115 76	94 61	85 53	94 34	116 34	100 45	95 22	97 40	
4	FR 250030	FR250030	FR 190023	FR 200014	1.6						101 74	102 53	105 45	96 27	113 27	106 38	111 26	105 36	
5	FR 250037	FR250037	FR 190025	FR 190019	3.8						112 74	89 54	105 44	101 22	109 29	104 38	93 26	100 36	
6	FR 250039	FR250039		FR 180006	0.0						103 68	98 38	100 36	98 20	106 19	102 29			
7	FR 250040	FR250040	FR 190023	FR 220037	4.4						97 58	107 55	99 38	98 22	104 28	104 36	114 26	104 34	
											★★★★☆								
1	FR 250002	FR250002	WV 190065	FR 220018	2.0						103 72	96 60	92 42	98 21	95 29	94 39			
2	FR 250004	FR250004	WV 190065	FR 200008	1.6						96 75	95 60	107 47	96 27	99 32	95 42	100 20	95 38	
3	FR 250005	FR250005	WV 190065	FR 220003	2.0						85 72	103 60	112 42	96 21	84 29	95 39			
4	FR 250008	FR250008	WV 190065	FR 220024	1.8						110 72	90 59	98 42	95 23	94 29	96 39			
5	FR 250009	FR250009	WV 190065	FR 210006	1.5						100 74	94 55	107 42	98 23	107 26	99 37			
6	FR 250010	FR250010	WV 190065	FR 210018	1.8						98 75	91 60	112 44	95 23	104 30	96 40			
7	FR 250015	FR250015	LEC 170048	FR 180016	0.3						108 76	101 60	79 52	86 30	136 34	97 44	97 22	96 40	
8	FR 250017	FR250017	LEC 170048	FR 220021	0.5						108 72	98 56	82 46	92 29	110 30	94 40	98 20	93 36	
9	FR 250020	FR250020	LEC 170048	FR 180023	0.3						112 76	91 62	83 55	85 33	116 36	90 46	95 24	90 42	
10	FR 250022	FR250022		FR 200026	0.0						105 68	86 36	101 32	104 20	102 21	93 28			
11	FR 250023	FR250023	LEC 170048	FR 210012	0.3						111 75	95 58	81 52	94 30	120 32	95 43	95 23	94 39	
12	FR 250033	FR250033		FR 190026	0.0						105 68	88 31	96 30	106 16	101 20	93 26			
13	FR 250035	FR250035	FR 190023	FR 190006	4.2						106 74	95 55	93 43	102 23	116 26	99 37	106 27	99 35	
14	FR 250036	FR250036	FR 190023	FR 180012	4.3						96 74	101 56	99 46	95 26	120 31	99 40	110 27	100 37	

	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.

