

Dormer Genetic Analysis

SA Stud Book

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LUMLEY FARM

TWEESPRUIT

9770

dormer



FDM: LFB



CERTIFICATE
OF QUALITY

Valid up to
October 2029

General Information

This **Genetic Report** of your flock enables you to determine the genetic merit and potential of the animals in your herd relative to that of the breed. An animal's performance is determined by two factors, namely the environment and genetics. Good nutrition and management can improve performance, but an animal cannot perform better than its genetic potential. Superior performance due to the environment cannot be carried over to the next generation. It is therefore extremely important not to neglect genetic progress of your flock. Due to the interaction between environment and genetics, it is difficult to identify genetically superior animals on performance data. Estimated Breeding Values (EBVs) are therefore predicted for every animal to determine its genetic potential, as well its worth as a parent for the next generation. Through the use of EBVs, animals can be compared fairly **within the breed**, therefore across herds, years and production systems. Results presented in this report allow the breeder to identify the underlying genetics of the animals.

Genetic parameters

Genetic parameters (heritability and genetic correlations) are estimated on a breed-basis and are required for the prediction of breeding values. The **heritability** refers to the portion of the variation of a trait in a population that is due to transferrable genetics (the rest of the variation can be attributed to the environment and non-transferrable genetics). Some traits are genetically correlated, which means that a change in one trait will lead to changes in other traits. The strength of this association amongst traits is referred to as a **genetic correlations** and can be desirable or undesirable.

Breeding Values

The prediction of EBVs makes use of performance recordings of the animal as well as those of its relatives, pedigree information and genetic parameters. The deviation of the animal's measurement relative to the average of its contemporary group, forms the basis for identifying the animal's genetic potential for the trait. A **contemporary group** is a group of animals that have been exposed to the same environmental and biological effects, including herd, year, sex and age effects. After adjusting for differences in these effects, animals can fairly be compared and the difference in performance that still persist are then assumed to be due to differences in the genetic merit of the animals.

The EBV predicted for an animal at birth and until it has been measured, is the average EBV of its parents, since the animal received half of its genes from each parent. This mid-parent value makes the assumption that the same half of the parents' genes are carried over to all their offspring. In reality, each offspring receives a random sample of each parent's genes,

therefore mid-parent EBVs are still of low accuracy, but it does indicate the genetic level that can be expected due its parental history. An animal's true genetic merit can be predicted more accurately as more information becomes available, eg. when the animal has been measured or when the number of relatives with measurements increases. Estimated breeding values therefore change over time as more information becomes available. EBVs of animals are published with an **accuracy** (%), which indicates how much information was available for the estimation of breeding values and therefore the confidence with which a breeder can use it. Factors that influence the accuracy of an EBV are the heritability of the trait, the number of measured relatives, the size of the contemporary group, the precision with which the measurements were taken and the completeness of pedigree information. An EBV with an accuracy of 85% or more is less likely to change significantly with subsequent genetic analyses.

Interpretation of breeding values

EBVs are expressed around a **base year** (5 years ago), which means that the average breeding value of the base year is set as zero and all breeding values are expressed relative to this average. An animal with an EBV of +1kg for weaning weight is therefore genetically superior by 1kg compared to an average animal born in the base year. EBVs therefore express genetic merit of animals relative to each other. The true performance of an animal cannot be calculated from the EBV, but it enables the breeder to know which animals will make a better contribution to the next generation. For easier interpretation EBVs are also expressed as breeding value indices. For these indices the average value of the **active population** is set as 100 with a standard deviation of 12. An index of 76 therefore indicates that the animal is 2 standard deviations below the average and an index of 112 indicates that the animal is 1 standard deviation above the average of the active population for the specific trait. Please note that negative EBVs are favourable for Inter-Lambing Period and Age at First Lambing, therefore shorter inter-lambing periods and younger ages at first lambing indicates better fertility. However, breeding value indices are expressed in the same way for all traits, therefore higher indices indicates desirability for the traits and lower indices are undesirable. This makes it easy to identify superior animals for all traits.

The data used in this evaluation has been obtained from LOGIX, as supplied by breeders. Everything possible had been done to present the information correctly. SA Stud Book does not take any responsibility for the use and interpretation of the information from this publication.

Selection Indices

It is easy to select on a single trait, but that is not the best approach to follow. Selecting on only one trait can lead to the deterioration of performance in other traits due to genetic correlations. There are different traits that are important, some being more important than others. A selection index combines multiple traits, each with an economic weight to take the different levels of importance into account. EBVs for different traits cannot simply be added together, since the unit of measurement and range of the values differ and in some cases negative values are favoured. These factors are accounted for in the compilation of a selection index. An overall selection index includes EBVs of all the traits of economic importance, while other selection indices are more focused on specific breeding objectives. Selection indices are expressed around 100, with 100 being the average of the active population, with a standard deviation of 12. A selection index of 124 is therefore 2 standard deviations above the average and an index of 88 is one standard deviation below the average of the active animals of the population.

Three Indices are constructed for the Dormer breed, namely a Growth Index, Ewe Index and the Logix Merit Index. These indices, their purpose and the contribution of the different traits to the indices are summarised as follows :

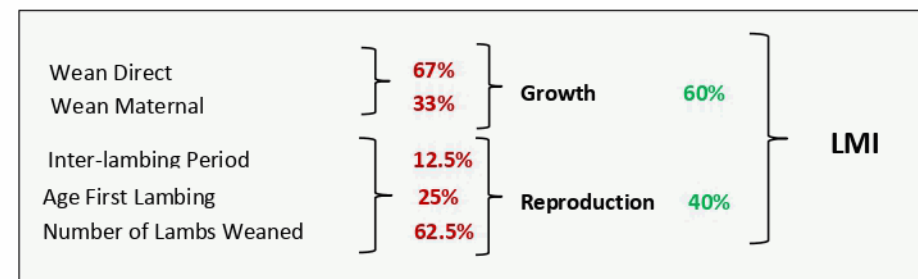
Logix Merit Index (LMI)

This index combines all the traits to select for a balanced, profitable animal that is fertile and delivers a desirable level of production. Selection based on the LMI will lead to breeding of balanced animals that will have the genetic potential to wean at a heavier weight (both due to its own potential and having dams that produce sufficient milk), lambs at an early age, lambs regularly and give multiple lambs. This value is especially important for sustainability, which requires the selection of good, productive replacement animals for the flock.

The **LMI** is constructed as follows :

$$LMI = 0.4 \text{ Wean Dir} + 0.2 \text{ Wean Mat} + 0.10 \text{ AFL} + 0.05 \text{ ILP} + 0.25 \text{ N_Lambs_weaned}$$

Schematically the LMI can be explained as follows :



Growth Index (GI)

The Growth Index indicates growth potential up to weaning and is a combination of Wean Direct and Maternal breeding values. The Growth Index is useful to indicate an animal's advantage at weaning for marketing.

The GI is constructed as follows :

$$GI = 0.67 \text{ Wean Dir} + 0.33 \text{ Wean Mat}$$

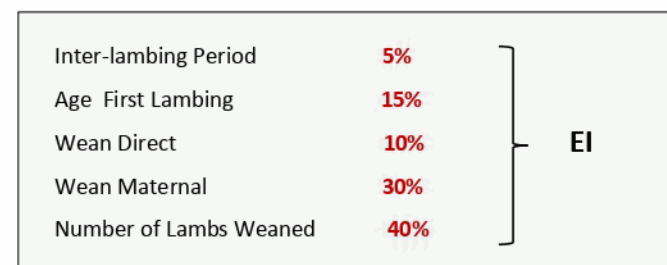
Ewe Index (EI)

This index includes Number of Lambs Weaned, Wean Direct and Maternal, Age at First Lambing and Inter-lambing Period. This is especially an important index to consider in the development of a dam line.

The **Ewe Index** is constructed as follows :

$$EI = (0.15 * AFL) + (0.05 * ILP) + (0.30 * \text{Wean Mat}) + (0.40 * \text{N_Lambs_Weaned}) + (0.10 * \text{Wean Dir})$$

Schematically it can be explained as follows :



Active Genetic Levels

Breeding Values

Trait	Flock **			Breed		
	All	Rams	Ewes	All	Rams	Ewes
Weaning Weight Direct	0.34	1.13	-0.16	1.43	1.86	1.26
Weaning Weight Maternal	-0.16	-0.18	-0.14	0.00	-0.04	0.02
Weaning Weight Combined	0.01	0.38	-0.22	0.72	0.88	0.65
Post-wean Weight	-1.65	-0.54	-2.36	-0.09	0.40	-0.30
Number Lambs Weaned	0.44	0.23	0.58	0.42	0.36	0.45
Total Weight Weaned	0.45	1.08	0.05	1.69	2.03	1.55
Age at First Lambing	0.33	0.48	0.24	0.81	0.67	0.86
Interlambing Period	-1.71	-1.67	-1.73	0.20	0.30	0.15
Selection Indices						
Logix Merit Index	97	101	94	103	105	102
Ewe Index	101	102	101	103	104	103
Growth Index	94	100	91	103	106	102
Inbreeding						
Inbreeding (%)	4.85	4.60	5.01	7.13	7.26	7.08
Number of Animals						
Number of Animals	18	7	11	24525	7123	17400

** Averages of all active animals in the flock.

Breeding Value Indices

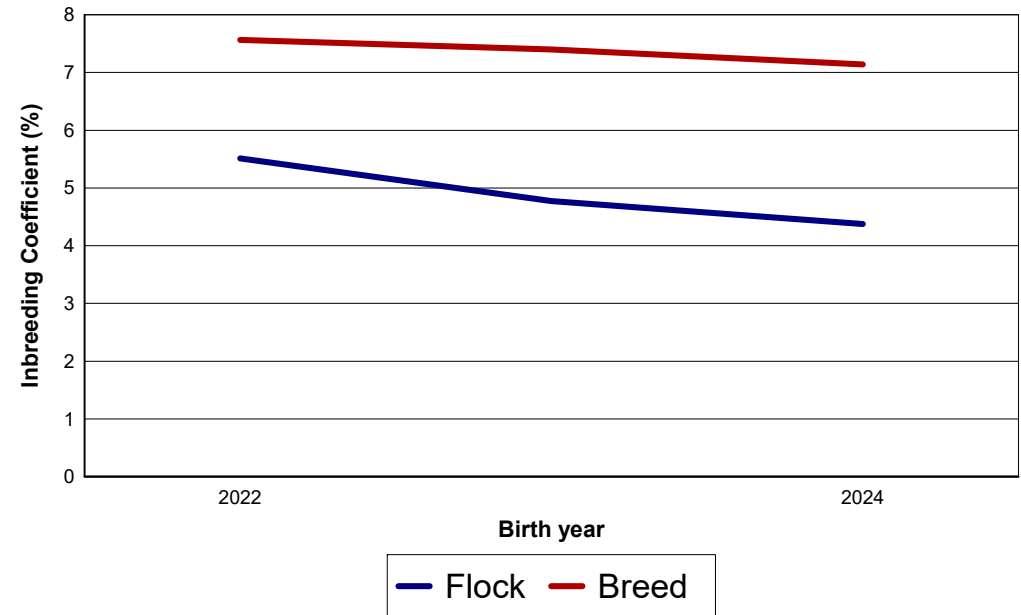
Trait	Flock **		
	All	Rams	Ewes
Weaning Weight Direct	91.7	97.6	88.0
Weaning Weight Maternal	98.3	97.9	98.4
Weaning Weight Comb	93.4	96.8	91.2
Post-wean Weight	92.3	97.8	88.7
Number Lambs Weaned	100.3	99.5	100.8
Total Weight Weaned	94.7	97.5	92.9
Age First Lambing	100.8	100.6	101.0
Interlambing Period	105.6	105.5	105.7
Selection Indices			
Logix Merit Index	96.6	100.7	93.9
Ewe Index	101.4	101.7	101.3
Growth Index	94.3	99.7	90.8
Inbreeding			
Inbreeding (%)	4.85	4.60	5.01
Number of Animals			
Number of Animals	18	7	11

** Averages of all active animals in the flock.

Inbreeding

Inbreeding primarily leads to decreased fertility and low survivability of lambs. The effects of inbreeding can be observed from 6.25% onwards. It is therefore highly recommended to record pedigree information as accurately and completely as possible and to use a selection programme for selection of unrelated rams. Incomplete or incorrect pedigree information can be reported to SA Stud Book. Inbreeding is dependent on pedigree information. Conventional methods for the Calculation of inbreeding coefficients usually assume that unknown parents are unrelated. However, this is usually far from the truth. An algorithm is used for the calculation of inbreeding, where the average inbreeding coefficient is assigned to unknown parents based on the generation in which they were born. This result is a more accurate reflection of inbreeding of the herd and breed.

Average Inbreeding per Year of Birth



Level and Rate of Inbreeding

Year of Birth	Level* (%)	Rate (% / year)
2022 - 2024	4.37	-0.57
Recommended:	< 6.25	< 0.1 - 0.2

*Of the last year of birth

Pedigree Information

	Number	%
Known Sires	18	100
Known Dams	18	100

Note: Inbreeding can be under-estimated if pedigree information is incomplete or incorrect

Genetic Windows

Number:

Genetic Linkage

(Based on the youngest measured generation)

Level	Nr of Link Rams

A link ram should have at least 20 measured progeny in your flock and at least another 20 measured progeny in at least one more flock.

Try to use at least 5 link rams in a 5 year period to obtain strong genetic linkage within the breed.

130
120
110
100
90
80
70

WWd: Weaning Weight Direct
WWm: Weaning Weight Maternal
WWc: Weaning Weight Combined
PoW: Post-Weaning Weight
L-wean: Number of Lambs Weaned
TWW: Total Weight Weaned
AFL: Age at First Lambing
ILP: Interlambing Period
EI: Ewe Index
GI: Growth Index

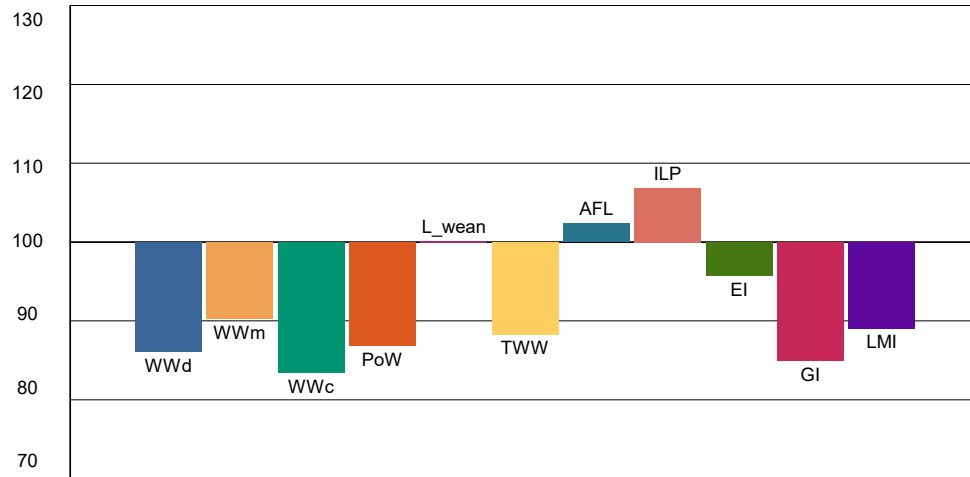
The genetic windows allow a quick overview of the genetic status of the flock compared to the breed. The values presented here are the average EBV indices of all the active animals of the flock, of the dams and the sires of the active animals of the flock, as well as of the ewes and rams that are younger than 2 years old. An index of 100 is equal to the average of the active population. Due to the higher selection intensity on rams (selection is more strict since a much smaller percentage of young animals are retained in the flock), the expectation is for the average index of the sires to be higher than that of the dams.

Remember that the EBV index for AFL and ILP are presented in such a way that an index above 100 indicates animals that have a lower EBV for these traits.

Genetic Windows

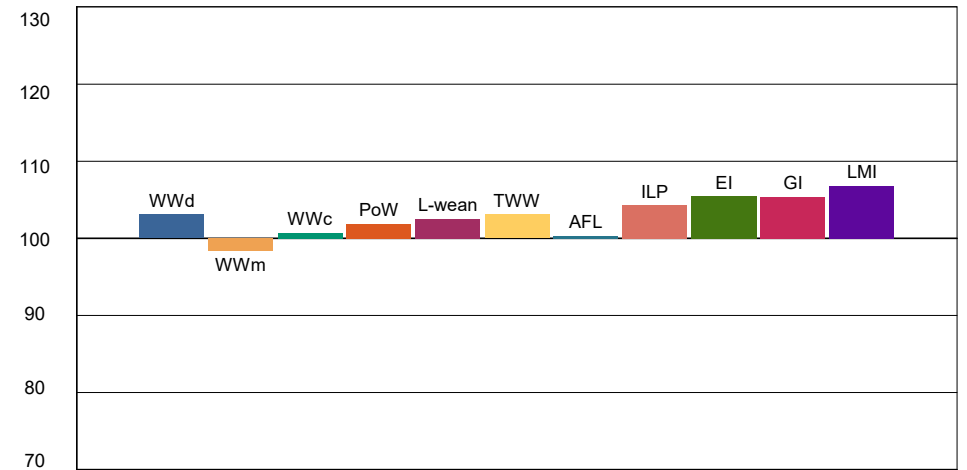
Dams

Number: 18



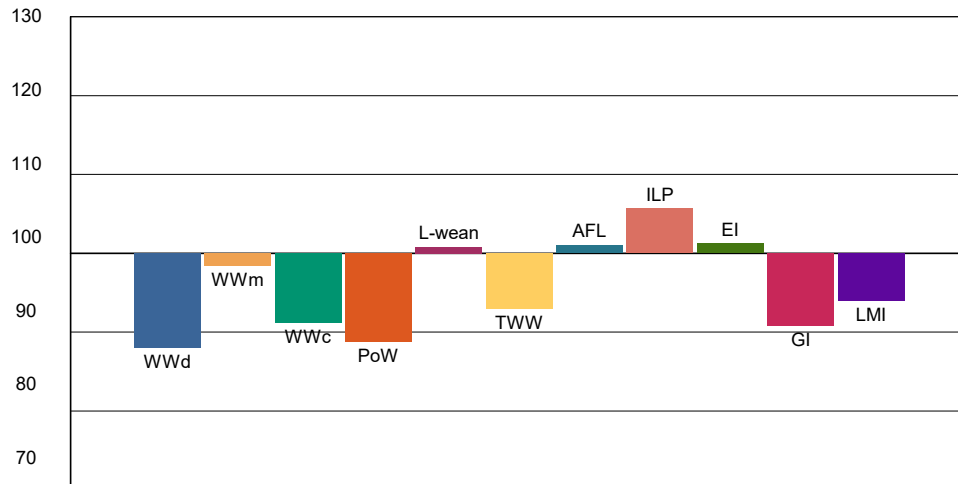
Sires

Number: 5



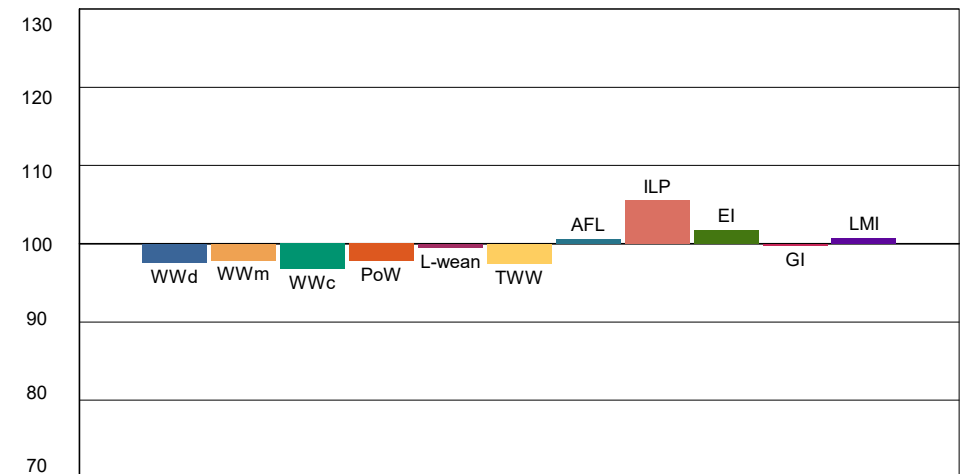
Young Ewes

Number: 11



Young Rams

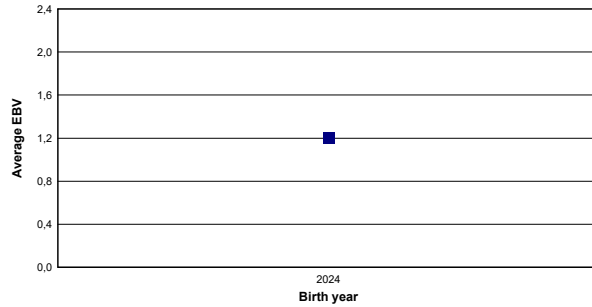
Number: 7



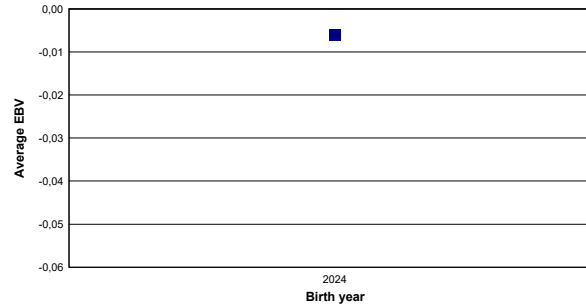
Genetic Trends

Genetic trends are based on measured animals that were bred by the specific breeder.

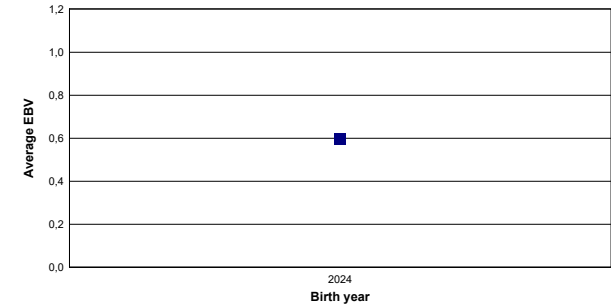
Weaning Weight Direct



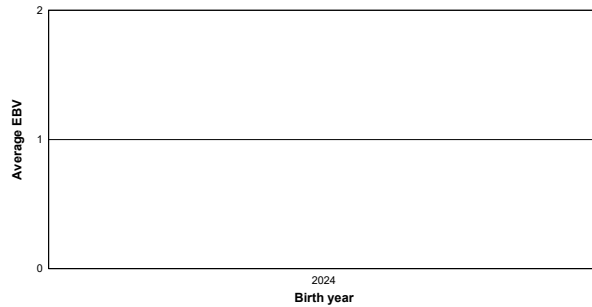
Weaning Weight Maternal



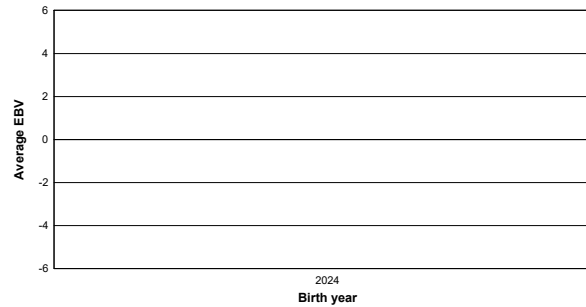
Weaning Weight Combined



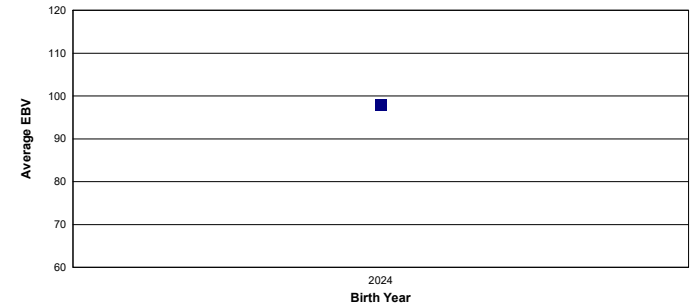
Post-weaning Weight



Number of Lambs Weaned



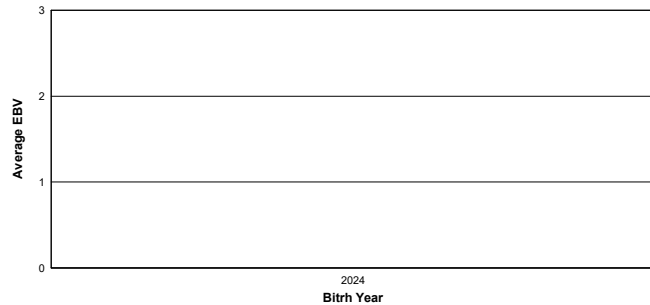
Total Weight Weaned



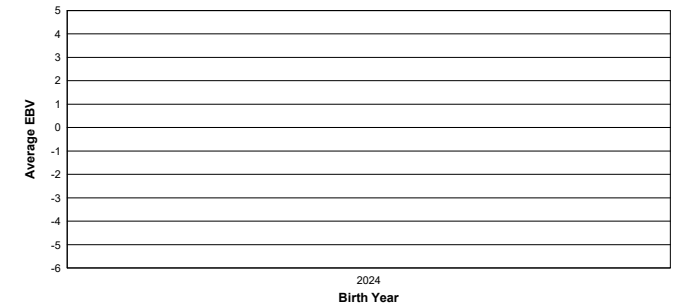
Genetic Trends

Genetic trends are based on measured animals that were bred by the specific breeder.

Age at First Lambing

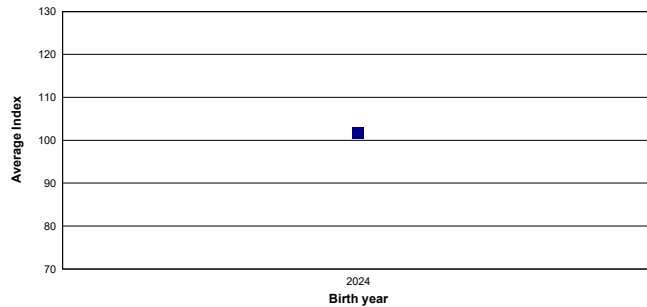


Inter-lambing Period

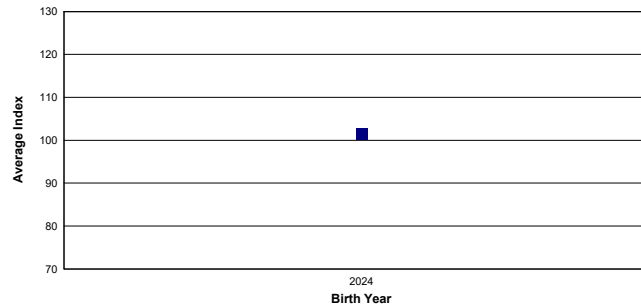


For AFL and ILP flock genetic trends below breed averages are desirable.

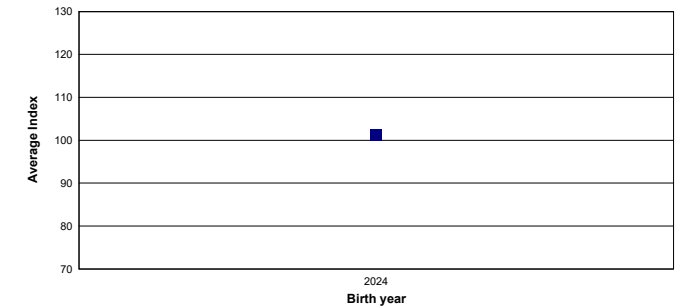
Ewe Index (EI)



Growth Index



Logix Merit Index (LMI)



Genetic Trends of Breed

Birth year	Weaning Weight				Post-wean		Lambs Weaned		TWW		AFL		ILP		EI	LMI
	Number	Dir	Mat	Comb	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV		
2013	11571	-1.23	-0.10	-0.71	3616	-3.20	2856	-0.37	11571	87	2862	-0.15	2007	-0.31	98	87
2014	11795	-0.93	-0.16	-0.62	3359	-2.42	2735	-0.02	11795	88	2802	-0.43	1869	-0.04	99	88
2015	10537	-0.87	-0.06	-0.49	2249	-2.89	2556	-0.63	10537	88	2589	-0.36	1733	-0.01	99	89
2016	11125	-0.62	-0.10	-0.41	2606	-2.56	2653	0.05	11125	90	2603	-0.22	1882	0.23	99	90
2017	10555	-0.46	-0.11	-0.34	2067	-1.51	2489	0.21	10555	91	2432	0.04	1655	-0.31	99	91
2018	11181	-0.09	-0.09	-0.14	2944	-1.40	2759	0.02	11181	92	2603	0.47	1922	0.13	99	93
2019	10894	0.00	0.00	0.00	1270	0.00	2811	0.00	10894	93	2732	0.00	1944	0.00	101	94
2020	10325	0.30	-0.04	0.11	2196	-0.46	2417	0.01	10325	94	2497	0.27	1809	-0.32	100	96
2021	11647	0.71	0.04	0.39	2124	0.28	2818	0.32	11647	97	2852	0.15	1732	0.80	102	98
2022	11484	1.11	0.14	0.70	2035	0.55	1973	0.62	11484	99	2171	0.79	662	-0.31	102	100
2023	11519	1.51	0.06	0.81	1446	1.17	625	0.70	11519	100	942	1.86	20	2.30	102	103
2024	9277	1.79	-0.06	0.84	1216	1.53			9277	102	1	2.13			104	105

Genetic Trends of Flock

Birth year	Weaning Weight				Post-Wean		Lambs Weaned		TWW		AFL		ILP		EI		LMI	
	Number	Dir	Mat	Comb	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV
2024	4	1.20	-0.01	0.60					4	98					4	102	4	101

Breeding Value & Selection Index Percentiles

The percentiles indicate the ranking of the animals' EBVs and Selection Indices within the active population.

For example, if an animal's EBV for a specific trait falls between the maximum and 99% percentile of the trait, it means that this animal ranks in the top 1% of the active population, or this animal's genetic merit for the trait is better than 99% of that of the active population.

Should the EBV for a specific trait falls between the 5% and 10% percentile, it means that the animal ranks in the bottom 10% of the active population for the specific trait, or the animal's genetic merit is worse than 90% of the active population.

Note that the percentiles for Age at First Lambing and Inter-lambing Period EBVs work on the reverse scale.

All Active Animals

Trait	Avg	SD*	Min	Percentiles (%)															Max
				1	5	10	20	25	30	40	50	60	70	75	80	90	95	99	
Weaning Weight Direct	1.43	1.69	-6.95	-3.33	-1.37	-0.68	0.11	0.38	0.62	1.07	1.50	1.92	2.35	2.59	2.83	3.50	4.00	4.88	11.66
Weaning Weight Maternal	0.00	1.00	-3.87	-2.13	-1.47	-1.13	-0.74	-0.59	-0.47	-0.24	-0.03	0.17	0.40	0.53	0.68	1.10	1.49	2.54	11.84
Weaning Weight Combined	0.72	1.25	-4.72	-1.94	-1.10	-0.68	-0.22	-0.03	0.14	0.44	0.71	0.99	1.28	1.43	1.59	2.02	2.39	3.29	16.68
Post-Wean Weight	-0.09	2.41	-11.19	-5.71	-3.97	-3.18	-2.13	-1.75	-1.39	-0.73	-0.08	0.56	1.22	1.57	1.96	2.95	3.77	5.44	12.11
Number of Lambs Weaned	0.42	3.27	-15.90	-6.50	-4.30	-3.20	-2.10	-1.60	-1.30	-0.60	0.10	0.80	1.60	2.10	2.70	4.50	6.50	10.10	25.70
Total Weight Weaned	1.69	2.73	-8.91	-4.21	-2.39	-1.51	-0.45	-0.04	0.32	0.96	1.54	2.13	2.79	3.16	3.62	5.04	6.38	9.32	21.95
Age at First Lambing	0.81	-6.47	43.43	19.59	13.51	9.31	4.98	3.61	2.59	1.13	0.01	-1.07	-2.36	-3.07	-3.86	-5.92	-7.78	-13.21	-38.80
Interlambing Period	0.20	-4.42	26.77	11.93	7.68	5.74	3.48	2.71	2.07	0.98	-0.02	-0.98	-2.05	-2.63	-3.28	-4.78	-6.06	-9.59	-30.97
Growth Index	103	12	51	74	83	87	93	95	97	100	103	106	110	111	113	118	122	129	155
Ewe Index	103	12	53	77	85	89	94	95	97	100	103	106	109	110	112	119	124	134	160
Logix Merit Index	103	12	58	76	84	89	94	95	97	100	103	106	109	111	113	119	124	134	146

*SD : Standard Deviation. An indicator of how far breeding values/selection indices are distributed arc

Breeding Value & Selection Index Percentiles

All Active Rams

Trait	Avg	SD*	Min	Percentiles (%)															Max
				1	5	10	20	25	30	40	50	60	70	75	80	90	95	99	
Weaning Weight Direct	1.85	1.45	-4.39	-1.43	-0.51	0.02	0.61	0.83	1.07	1.48	1.87	2.24	2.65	2.85	3.09	3.71	4.19	4.98	11.66
Weaning Weight Maternal	-0.04	0.83	-2.67	-1.90	-1.32	-1.00	-0.67	-0.54	-0.43	-0.23	-0.05	0.13	0.31	0.42	0.54	0.90	1.21	1.75	10.74
Weaning Weight Combined	0.88	1.08	-2.91	-1.34	-0.72	-0.41	0.04	0.20	0.36	0.63	0.88	1.14	1.41	1.54	1.68	2.10	2.39	3.14	16.57
Post-Wean Weight	0.40	2.19	-8.27	-4.53	-3.08	-2.41	-1.52	-1.16	-0.80	-0.17	0.43	0.97	1.56	1.89	2.26	3.21	3.96	5.52	12.11
Number of Lambs Weaned	0.36	2.96	-11.50	-5.60	-3.80	-2.90	-2.00	-1.60	-1.20	-0.60	0.10	0.70	1.40	1.80	2.40	4.00	6.00	9.50	16.80
Total Weight Weaned	2.03	2.46	-6.26	-3.05	-1.66	-0.86	0.08	0.42	0.77	1.32	1.83	2.37	3.00	3.37	3.78	5.16	6.28	9.18	20.12
Age at First Lambing	0.67	-6.00	43.43	18.96	13.18	8.87	4.21	2.94	2.09	0.77	-0.21	-1.17	-2.39	-3.01	-3.81	-5.63	-7.21	-10.88	-21.37
Interlambing Period	0.30	-3.79	18.49	10.38	6.95	5.24	3.24	2.56	2.01	1.00	0.07	-0.82	-1.82	-2.33	-2.92	-4.38	-5.42	-7.40	-11.85
Growth Index	106	11	65	81	88	92	97	98	100	103	106	109	112	113	115	119	123	130	155
Ewe Index	104	11	61	80	87	90	94	96	98	101	103	106	108	110	112	118	123	133	146
Logix Merit Index	105	11	70	82	88	92	96	98	99	102	105	108	110	112	114	120	125	134	145

All Active Ewes

Trait	Avg	SD*	Min	Percentiles (%)															Max
				1	5	10	20	25	30	40	50	60	70	75	80	90	95	99	
Weaning Weight Direct	1.26	1.75	-6.95	-3.49	-1.71	-0.93	-0.11	0.19	0.43	0.89	1.32	1.76	2.20	2.45	2.72	3.40	3.92	4.84	11.06
Weaning Weight Maternal	0.02	1.07	-3.87	-2.22	-1.53	-1.18	-0.76	-0.61	-0.48	-0.24	-0.02	0.20	0.45	0.58	0.75	1.19	1.62	2.69	11.84
Weaning Weight Combined	0.65	1.30	-4.72	-2.10	-1.23	-0.80	-0.31	-0.12	0.05	0.35	0.64	0.93	1.22	1.38	1.54	1.98	2.39	3.37	16.68
Post-Wean Weight	-0.30	2.46	-11.19	-6.00	-4.26	-3.43	-2.39	-1.99	-1.64	-0.97	-0.32	0.36	1.05	1.42	1.81	2.81	3.66	5.39	11.39
Number of Lambs Weaned	0.45	3.39	-15.90	-6.80	-4.50	-3.40	-2.20	-1.70	-1.30	-0.60	0.20	0.80	1.70	2.20	2.80	4.70	6.70	10.40	25.70
Total Weight Weaned	1.55	2.81	-8.91	-4.59	-2.67	-1.75	-0.66	-0.24	0.14	0.79	1.39	2.01	2.69	3.07	3.54	4.98	6.42	9.43	21.95
Age at First Lambing	0.86	-6.66	30.98	19.94	13.64	9.47	5.28	3.90	2.85	1.31	0.12	-1.03	-2.35	-3.09	-3.89	-6.05	-8.07	-14.45	-38.80
Interlambing Period	0.15	-4.65	26.77	12.45	8.02	5.97	3.60	2.81	2.11	0.97	-0.05	-1.07	-2.17	-2.79	-3.42	-4.98	-6.40	-10.78	-30.97
Growth Index	102	12	51	73	81	86	92	94	96	99	102	105	109	110	112	117	121	129	155
Ewe Index	103	12	53	76	84	88	93	95	97	100	103	105	109	111	113	119	125	135	160
Logix Merit Index	102	12	58	74	83	87	93	94	96	99	102	105	108	110	112	118	124	134	146

*SD : Standard Deviation. An indicator of how far breeding values/selection indices are distributed around the average.

Rams



Genotyped

Inbreeding in red is high

EBV - Estimated Breeding Value

Indices >=124
Above breed average
Indices <= 76

Acc: Accuracy of the breeding value
EBVs with an accuracy below 5% are not printed

Index: Expresses the EBV around 100 where 100 is set as the average EBV of active animals

Animal Information					Selection Indices			EBV - Weights				EBV - Fertility											
Animal ID Regnr		Parents Sire Dam		% In- breeding	Logix Merit Index	Growth Index	Ewe Index	Dir		Wean Weight		Post-Wean		Number Weaned		TWW		AFL		ILP		Dam	
								EBV Acc Index	EBV Acc Index	EBV Acc Index	EBV Acc Index	EBV Acc Index	EBV Acc Index	EBV Acc Index	EBV Acc Index	EBV Acc Index	EBV Acc Index	EPI	Times Lambd				
Active Breed Average:					100	100	100	1.43	0.00	0.72	-0.09	0.42	1.69	0.81	0.20								
GMO 23 0035 96701438		MS 20 0080 GMO 21 0043	4.63	104	103	108	0.87 57 96	0.77 41 109	1.20 105	-0.90 20 96	-0.50 31 97	1.34 45 99	0.16 28 101	-5.58 22 117	92	3							
GMO 23 0046 96702436		MS 20 0080 GMO 19 0011	5.15	91	96	95	0.03 57 89	0.56 45 107	0.58 99	-2.01 21 91	-2.90 34 88	-1.15 47 88	2.10 29 98	-0.84 23 103	100	5							
GMO 23 0050 96701958		NB 18 0009 GMO 19 0084	4.99	102	93	99	1.66 63 102	-2.00 59 76	-1.17 82	-0.31 49 99	2.50 51 108	1.16 59 98	-4.10 48 109	-5.16 41 115	103	4							
LFB 24 0001 106900137		JT 21 0426 GMO 23 0008	4.35	100	102	99	1.24 54 98	-0.02 40 100	0.60 99	-0.31 35 99	-0.40 32 97	0.98 44 97	3.16 30 96	0.25 24 100	100	1							
LFB 24 0004 106900129		JT 21 0426 GMO 22 0104	4.43	104	104	102	1.85 54 103	-0.40 40 95	0.53 98	0.32 34 102	0.40 32 100	1.70 44 100	-0.29 30 102	-0.06 23 101	99	1							
LFB 24 0005 101252047		JT 21 0426 GMO 22 0103	4.43	100	99	101	1.11 49 97	-0.38 38 96	0.17 95	-0.53 34 98	0.40 31 100	0.97 41 97	-0.11 30 102	-0.37 23 102		1							
LFB 24 0010 106827744		JT 21 0426 GMO 22 0074	4.22	105	102	109	1.12 49 98	0.19 38 102	0.75 100	-0.04 34 100	2.10 32 106	2.57 41 104	2.41 30 97	0.06 24 101	98	1							
Ram Flock Average: Number of rams in the flock: 7					101	100	102	1.13	-0.18	0.38	-0.54	0.23	1.08	0.48	-1.67								

Ewes



Inbreeding in red is high

EBV - Estimated Breeding Value

Indices >=124
Above breed average
Indices <= 76

Acc: Accuracy of the breeding value
EBVs with an accuracy below 5% are not printed

Index: Expresses the EBV around 100 where 100 is set as the average EBV of active animals

Animal Information			Selection Indices			EBV - Weights				EBV - Fertility				
Animal ID Regnr	Parents Sire Dam	% In- breeding	Logix Merit Index	Growth Index	Ewe Index	Wean Weight		Post-Wean		Number Weaned	TWW	AFL	ILP	EPI Lambled
						Dir EBV Acc Index	Mat EBV Acc Index	Comb EBV Index	EBV Acc Index					
Active Breed Average:			100	100	100	1.43	0.00	0.72	-0.09	0.42	1.69	0.81	0.20	
GMO 22 0071 94769239	VZ 19 0024 GMO 20 0082	6.01	86	79	98	-1.25 58 80	-0.75 45 91	-1.37 80	-3.52 27 83	2.30 38 107	-0.62 48 90	2.69 37 97	0.16 27 100	99 1
GMO 22 0074 94769437	VZ 19 0024 GMO 20 0007	6.85	94	86	105	-0.50 58 86	-0.47 47 95	-0.72 86	-2.32 28 89	3.60 39 112	1.19 49 98	2.84 38 96	0.32 27 100	98 1
GMO 22 0104 94881927	NB 20 0169 GMO 19 0035	4.91	90	87	92	0.36 58 92	-1.53 51 82	-1.35 81	-2.28 31 89	0.20 38 99	-1.05 51 88	-2.55 37 106	0.09 26 101	99 1
GMO 22 0119 94881588	NB 20 0169 GMO 21 0006	4.88	96	94	100	0.30 56 91	-0.24 43 97	-0.09 92	-2.13 27 90	-0.50 31 97	-0.24 45 92	-3.65 35 108	-1.72 21 106	1
GMO 23 0006 95591087	NB 20 0169 GMO 18 0005	4.71	82	83	86	-0.70 58 84	-0.90 51 89	-1.25 81	-3.95 29 81	-2.50 39 90	-3.10 51 79	-0.59 36 103	-2.21 26 107	100 1
GMO 23 0008 95591061	NB 20 0169 GMO 18 0060	4.83	84	86	87	-0.22 58 88	-0.89 51 90	-1.00 84	-2.80 35 87	-1.30 39 94	-1.89 51 85	4.34 36 94	0.69 29 99	100 1
GMO 23 0020 96701552	MS 20 0080 GMO 21 0055	4.58	102	97	115	-0.37 57 87	1.17 42 114	0.98 103	-2.20 20 90	1.30 30 103	1.58 45 100	-2.25 28 106	-3.58 21 111	0
GMO 23 0023 96702808	MS 20 0080 GMO 18 0025	5.02	92	86	104	-0.83 60 83	-0.10 51 99	-0.51 88	-3.41 23 84	1.30 36 103	-0.15 51 92	-0.74 31 103	-4.06 25 112	100 1
GMO 23 0085 96966304	MS 20 0080 GMO 21 0003	4.74	106	105	114	0.40 57 92	1.61 43 119	1.81 110	-1.47 20 93	-0.30 32 98	1.83 46 101	-0.43 28 102	-6.59 22 119	1
LFB 24 0003 106900152	JT 21 0426 GMO 23 0023	4.22	101	98	108	0.35 55 92	0.49 40 106	0.66 100	-1.27 33 94	0.90 31 102	1.37 44 99	0.62 28 100	-2.13 23 107	0
LFB 24 0008 101252062	JT 21 0426 GMO 22 0071	4.31	101	98	105	0.75 49 95	0.05 38 101	0.42 97	-0.64 34 97	1.40 32 104	1.64 41 100	2.33 30 97	-0.02 24 101	0
Ewe flock average: Total ewes in flock: 11			94	91	101	-0.16	-0.14	-0.22	-2.36	0.58	0.05	0.24	-1.73	

Sires Used in Flock



Genotyped

*Inbreeding in red is high

EBV - Estimated Breeding Value

Indices >=124
Above breed average
Indices <= 76

Acc: Accuracy of the breeding value
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Index: Expresses the EBV around 100 where 100 is set as the average EBV of active animals

Animal Information		Parents & Progeny						Selection Indices			EBV - Weights				EBV - Fertility					
Animal ID Regnr	% In-breeding	Sire ID Dam ID	1st Generation		2nd Generation		Logix Merit Index	Growth Index	Ewe Index	Weaning Weight		Comb EBV Index	Post-Wean		Number Weaned EBV Acc	TWW EBV Acc	AFL EBV Acc	ILP EBV Acc	Dam	
			Prog Weaned	Nr Flocks	Prog Weaned	Nr Flocks				Dir EBV Acc	Mat EBV Acc		Index	Index					EPI	Times Lambe
		Active Breed Average:						100	100	100	1.43	0.00	0.72	-0.09	0.42	1.69	0.81	0.20		
NB 18 0009 80863764	4.10	JB 16 0084 NB 14 0096	658	16	146	11	124	121	99	6.12 98	-2.85 135	0.21 95	5.28 66	2.30 86	4.64 107	-3.40 94	-5.18 113	96	3	
VZ 19 0024 90553074	22.79	NB 15 0134 VZ 16 0062	49	1	5	1	100	94	111	-0.10 82	0.32 61	0.27 96	-1.68 43	4.00 48	2.62 113	4.38 93	3.21 38	106	2	
MS 20 0080 90437468	4.44	PHR 18 0319 MS 18 0001	53	1	2	1	107	104	117	0.30 83	1.58 59	1.73 110	-1.55 33	1.30 43	2.66 103	1.26 40	-4.39 99	128	7	
NB 20 0169 86470382	6.85	NB 18 0286 NB 18 0368	36	3	7	2	88	91	88	0.31 79	-0.63 59	-0.48 89	-2.95 50	-2.80 45	-2.01 63	-1.11 44	0.37 104	91	3	
JT 21 0426 92167238	7.33	CPG 16 0485 JT 19 0668	36	2			115	117	112	2.75 80	0.84 61	2.22 114	2.24 61	0.50 50	3.89 101	1.98 47	-0.20 98	119	4	
		Sire Flock Average: Number of sires used in the flock: 5						107	105	105	1.87	-0.15	0.79	0.27	1.06	2.36	0.62	-1.24		

Ram Selection List: LMI

Animals sorted on LMI

Inbreeding in red is high

EBV - Estimated Breeding Value

Indices >=124
Above breed average
Indices <= 76

Acc: Accuracy of the breeding value
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Index: Expresses the EBV around 100 where 100 is set as the average EBV of active animals

Animal Information		Parents & Progeny				Selection Indices			EBV - Weights				EBV - Fertility							
Animal ID Regnr	% In- breeding	Sire ID Dam ID	1st Generation		2nd Generation		Logix Merit Index	Growth Index	Ewe Index	Weaning Weight		Comb	Post-Wean	Number Weaned	TWW	AFL	ILP	Dam		
			Prog Weaned	Nr Flocks	Prog Weaned	Nr Flocks				Dir EBV Acc index	Mat EBV Acc Index								EBV Index	EBV Acc Index
		Active Breed Average:				100	100	100	1.43	0.00	0.72	-0.09	0.42	1.69	0.81	0.20				
1 LFB 24 0010 106827744	4.22	JT 21 0426 GMO 22 0074					105	102	109	1.12 49 98	0.19 38 102	0.75 100	-0.04 34 100	2.10 32 106	2.57 41 104	2.41 30 97	0.06 24 101	98 1		
2 LFB 24 0004 106900129	4.43	JT 21 0426 GMO 22 0104					104	104	102	1.85 54 103	-0.40 40 95	0.53 98	0.32 34 102	0.40 32 100	1.70 44 100	-0.29 30 102	-0.06 23 101	99 1		
3 GMO23 0035 96701438	4.63	MS 20 0080 GMO 21 0043					104	103	108	0.87 57 96	0.77 41 109	1.20 105	-0.90 20 96	-0.50 31 97	1.34 45 99	0.16 28 101	-5.58 22 117	92 3		
4 GMO23 0050 96701958	4.99	NB 18 0009 GMO 19 0084					102	93	99	1.66 63 102	-2.00 59 76	-1.17 82	-0.31 49 99	2.50 51 108	1.16 59 98	-4.10 48 109	-5.16 41 115	103 4		
5 LFB 24 0005 101252047	4.43	JT 21 0426 GMO 22 0103					100	99	101	1.11 49 97	-0.38 38 96	0.17 95	-0.53 34 98	0.40 31 100	0.97 41 97	-0.11 30 102	-0.37 23 102	1		
6 LFB 24 0001 106900137	4.35	JT 21 0426 GMO 23 0008					100	102	99	1.24 54 98	-0.02 40 100	0.60 99	-0.31 35 99	-0.40 32 97	0.98 44 97	3.16 30 96	0.25 24 100	100 1		
7 GMO23 0046 96702436	5.15	MS 20 0080 GMO 19 0011					91	96	95	0.03 57 89	0.56 45 107	0.58 99	-2.01 21 91	-2.90 34 88	-1.15 47 88	2.10 29 98	-0.84 23 103	100 5		

Ewe Selection List: LMI

Animals sorted on LMI

Inbreeding in red is high

EBV - Estimated Breeding Value

Indices >=124
Above breed average
Indices <= 76

Acc: Accuracy of the breeding value
EBVs with an accuracy below 5% are not printed

Index: Expresses the EBV around 100 where 100 is set as the average EBV of active animals

Animal Information			Parents		Selection Indices			EBV - Weights						EBV - Fertility											
Animal ID Regnr		% In- breeding	Sire ID Dam ID		Logix Merit Index	Growth Index	Ewe Index	Weaning Weight				Post-Wean		Number Weaned		TWW		AFL		ILP		EPI	Times Lambd		
								Dir	Mat		Comb		Acc	Index	Acc	Index	EBV Index	Acc	Index	Acc	Index			Acc	Index
Active Breed Average:					100	100	100	1.43		0.00		0.72		-0.09		0.42		1.69		0.81		0.20			
1	GMO 23 0085 96966304	4.74	MS 20 0080 GMO 21 0003		106	105	114	0.40 57	92	1.61 43	119	1.81 110	-1.47 20	93	-0.30 32	98	1.83 46	101	-0.43 28	102	-6.59 22	119		1	
2	GMO 23 0020 96701552	4.58	MS 20 0080 GMO 21 0055		102	97	115	-0.37 57	87	1.17 42	114	0.98 103	-2.20 20	90	1.30 30	103	1.58 45	100	-2.25 28	106	-3.58 21	111		0	
3	LFB 24 0008 101252062	4.31	JT 21 0426 GMO 22 0071		101	98	105	0.75 49	95	0.05 38	101	0.42 97	-0.64 34	97	1.40 32	104	1.64 41	100	2.33 30	97	-0.02 24	101		0	
4	LFB 24 0003 106900152	4.22	JT 21 0426 GMO 23 0023		101	98	108	0.35 55	92	0.49 40	106	0.66 100	-1.27 33	94	0.90 31	102	1.37 44	99	0.62 28	100	-2.13 23	107		0	
5	GMO 22 0119 94881588	4.88	NB 20 0169 GMO 21 0006		96	94	100	0.30 56	91	-0.24 43	97	-0.09 92	-2.13 27	90	-0.50 31	97	-0.24 45	92	-3.65 35	108	-1.72 21	106		1	
6	GMO 22 0074 94769437	6.85	VZ 19 0024 GMO 20 0007		94	86	105	-0.50 58	86	-0.47 47	95	-0.72 86	-2.32 28	89	3.60 39	112	1.19 49	98	2.84 38	96	0.32 27	100	98	1	
7	GMO 23 0023 96702808	5.02	MS 20 0080 GMO 18 0025		92	86	104	-0.83 60	83	-0.10 51	99	-0.51 88	-3.41 23	84	1.30 36	103	-0.15 51	92	-0.74 31	103	-4.06 25	112	100	1	
8	GMO 22 0104 94881927	4.91	NB 20 0169 GMO 19 0035		90	87	92	0.36 58	92	-1.53 51	82	-1.35 81	-2.28 31	89	0.20 38	99	-1.05 51	88	-2.55 37	106	0.09 26	101	99	1	
9	GMO 22 0071 94769239	6.01	VZ 19 0024 GMO 20 0082		86	79	98	-1.25 58	80	-0.75 45	91	-1.37 80	-3.52 27	83	2.30 38	107	-0.62 48	90	2.69 37	97	0.16 27	100	99	1	
10	GMO 23 0008 95591061	4.83	NB 20 0169 GMO 18 0060		84	86	87	-0.22 58	88	-0.89 51	90	-1.00 84	-2.80 35	87	-1.30 39	94	-1.89 51	85	4.34 36	94	0.69 29	99	100	1	
11	GMO 23 0006 95591087	4.71	NB 20 0169 GMO 18 0005		82	83	86	-0.70 58	84	-0.90 51	89	-1.25 81	-3.95 29	81	-2.50 39	90	-3.10 51	79	-0.59 36	103	-2.21 26	107	100	1	

Dormer Genetic Analysis

SA Stud Book

21 April 2025