



BOERBOK GENETIC REPORT

21 September 2026



MANYOHA MA FARM

FDM : 2131



**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 as 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.

Two Indices are constructed for the Boer Goat breed, namely the Logix Merit Index and the Reproduction Index. These indices, their purpose and the contribution of the different traits to the indices are summarised as follows :

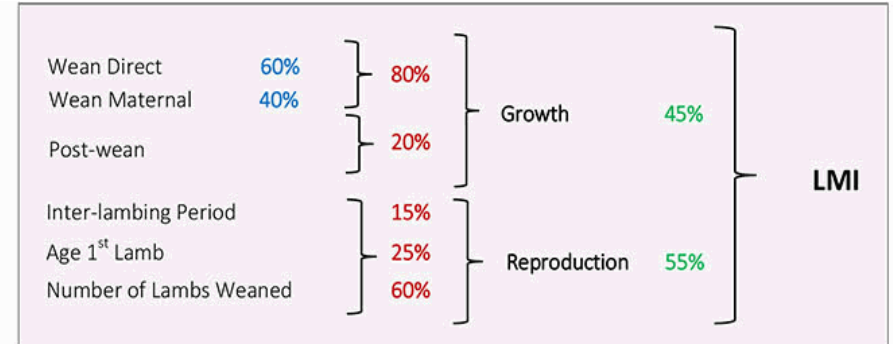
Logix Merit Index (LMI)

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 :

$$LMI = (0.1375 * AFL) + (0.0825 * ILP) + (0.216 * Wean Dir) + (0.144 * Wean Mat) + (0.33 * N_Lambs_Weaned) + (0.09 * Post-Wean Dir)$$

Schematically the LMI can be explained as follows :



Reproduction Index (RI)

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

The RI is constructed as follows :

$$(0.2 * AFL) + (0.2 * ILP) + (0.3 * Wean Mat) + (0.3 * N_Lambs_Weaned)$$

Schematically it can be explained as follows :



It is always important to consider the traits that contribute to the index individually when selection of animals is based on indices. It sometimes happen that an animal receives a good index due to its exceptional genetic merit of a specific trait, while some of the other traits of the animal in the index might be at undesirable levels for the specific flock's breeding objective, but masked in the index due to the exceptionality of that trait. A sound procedure is to rank animals based on the relevant selection index and then eliminate animals from the list that do not conform towards the flock's breeding objectives when considering the individual traits. Make use of all the available information.

Active Genetic Levels

Genetic Averages : Breeding Values

Trait	Flock			Breed		
	All	Rams	Ewes	All	Rams	Ewes
Weaning Weight Direct	-0.26	-0.40	-0.21	-0.06	-0.01	-0.09
Weaning Weight Maternal	0.11	0.08	0.12	-0.02	-0.03	-0.02
Weaning Weight Combined	-0.02	-0.12	0.01	-0.06	-0.03	-0.07
Post-wean Weight	0.19	0.08	0.22	0.50	0.58	0.45
Number Lambs Weaned	0.29	-0.60	0.59	-0.36	-0.55	-0.26
Total Weight Weaned	0.02	-0.68	0.26	-0.31	-0.37	-0.27
Age at First Lambing	-0.75	1.54	-1.51	-0.30	-0.22	-0.35
Inter-lambing Period	-0.64	-1.89	-0.22	0.15	0.19	0.13
Selection Indices						
Logix Merit Index	103	99	104	101	100	101
Reproduction Index	106	104	107	102	101	102
Inbreeding						
Inbreeding (%)	5.58	4.59	5.91	5.54	5.93	5.34
Number of Animals						
Number of Animals	32	8	24	49286	16616	32526

** Averages of all active animals in the flock.

Breeding Value Indices

Trait	Flock **		
	All	Rams	Ewes
Weaning Weight Direct	96.8	95.2	97.3
Weaning Weight Maternal	103.4	102.7	103.7
Weaning Weight Comb	99.9	98.2	100.5
Post-wean Weight	96.9	96.2	97.1
Number Lambs Weaned	104.8	100.6	106.2
Total Weight Weaned	102.6	98.5	104.0
Age First Lambing	100.7	97.8	101.7
Interlambing Period	103.6	107.1	102.5
Selection Indices			
Logix Merit Index	102.8	99.1	104.1
Ewe Index	106.0	103.6	106.9
Growth Index	97.2	96.1	97.6
Inbreeding			
Inbreeding (%)	5.58	4.59	5.91
Number of Animals			
Number of Animals	32	8	24

** 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.

Inbreeding Levels for Specific Matings

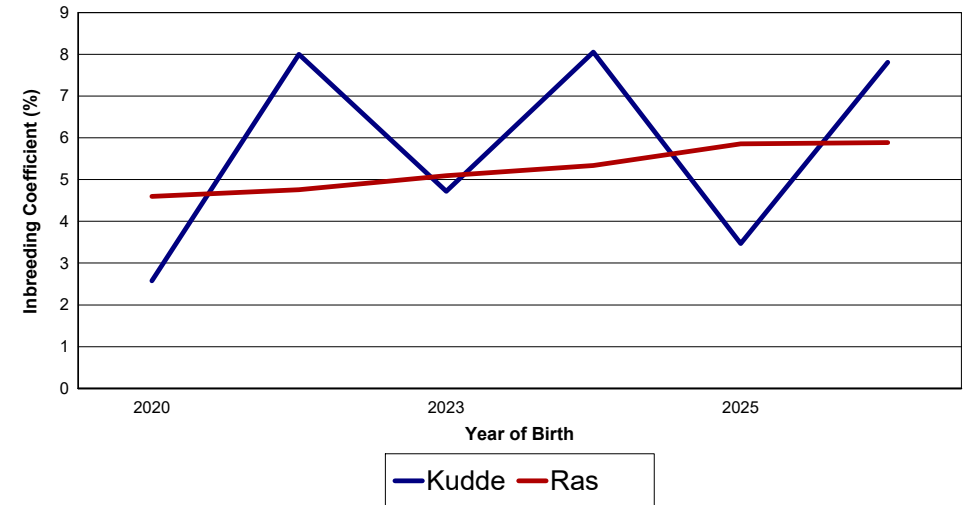
Progeny with Parents :	25%
Full Brother x Full Sister :	25%
Half Brother x Half Sister :	12.5%
One Common Grandparent :	6.25%
One Common Great-Grandparent :	3.125%

Level and Rate of Inbreeding

Year of Birth	Level* (%)	Rate (% / year)
2020 - 2026	7.81	0.87
Recommended:	< 6.25	< 0.1 - 0.2

*Of the last year of birth

Average Inbreeding per Year of Birth

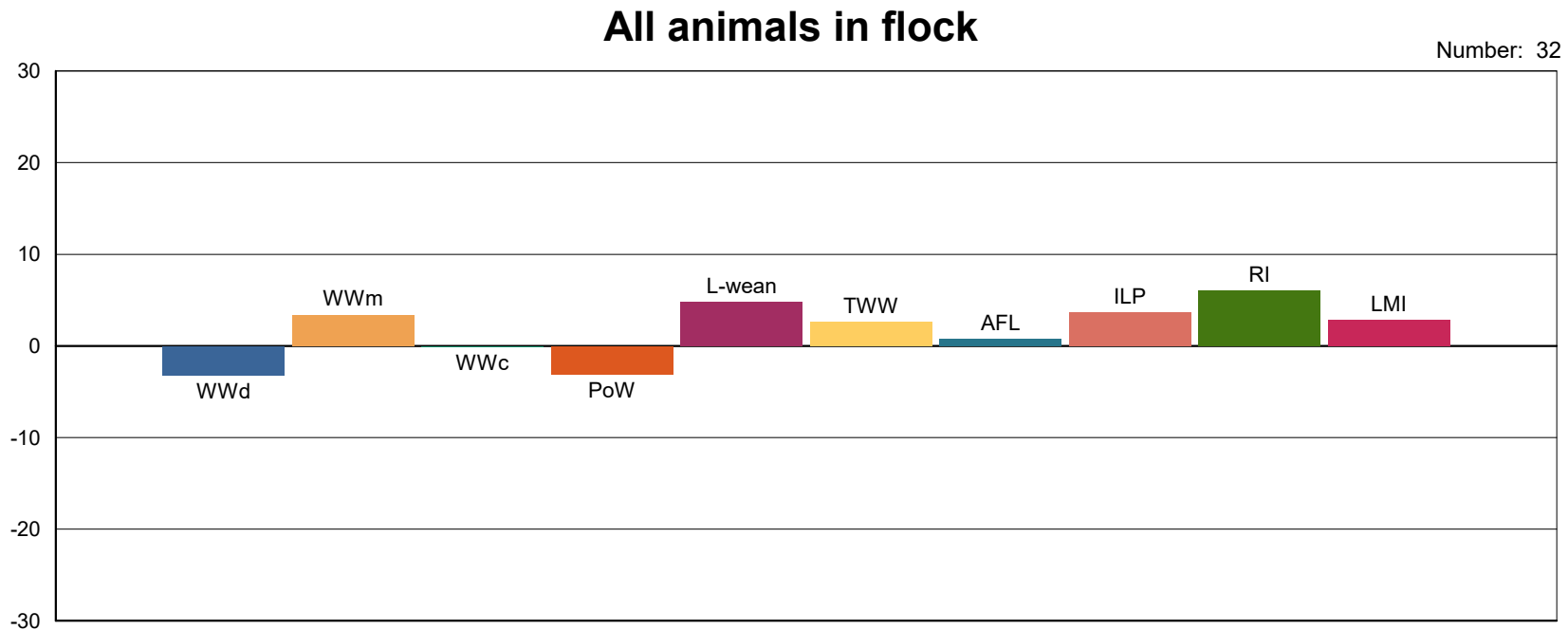


Pedigree Information

	Number	%
Known Sires	32	100
Known Dams	32	100

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

Genetic Windows



WWd: Weaning Weight Direct
WWm: Weaning Weight Maternal
WWc: Weaning Weight Combined
PoW: Post-Wean Weight
L-wean: Number of Lambs Weaned
TWW: Total Weight Weaned
AFL: Age at First Lambing
ILP: Inter-lambing Period
RI: Reproduction Index
LMI: Logix Merit Index

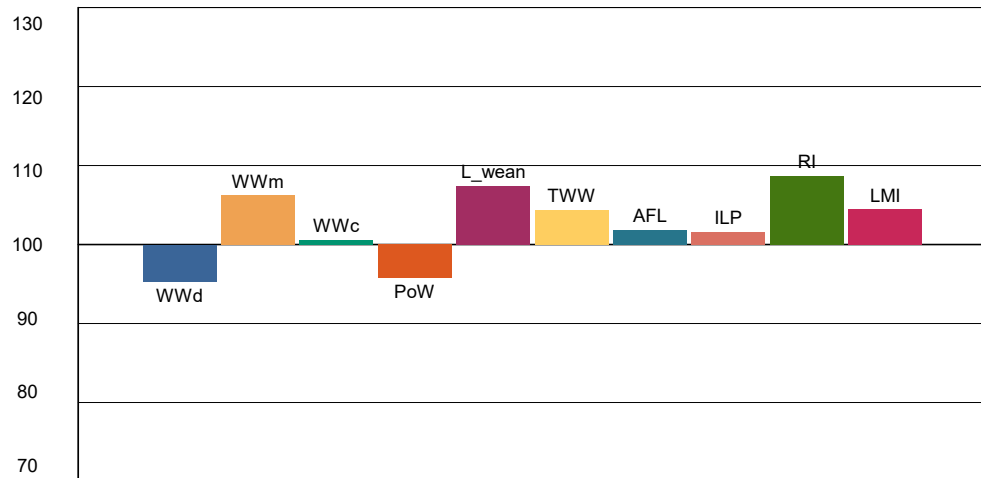
The genetic windows allow a quick overview of the genetic status of the flock compared to the breed. The values presented here are the average EBV indices of all the active animals of the flock, of the dams and sires of the active animals of the flock, as well as of the ewes and rams that are younger than 2-years old. An index of 100 is equal to the average of the active measured 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

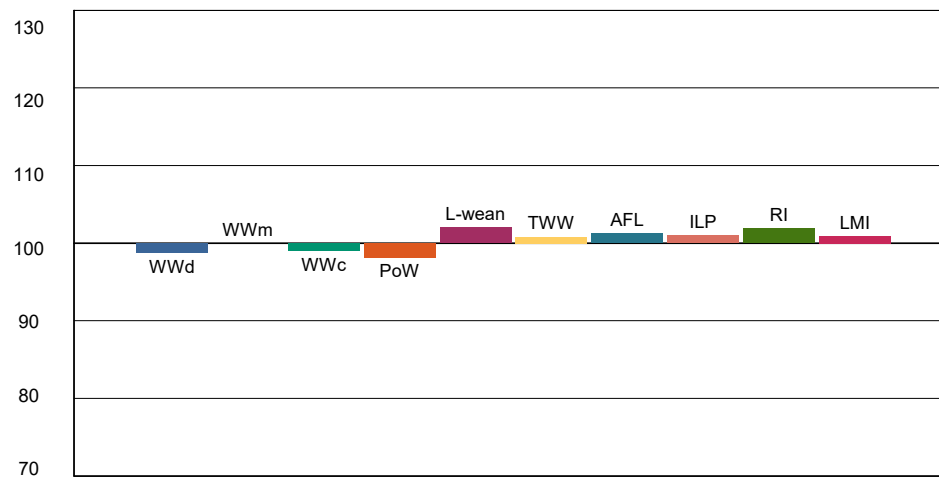
Dams

Number: 22



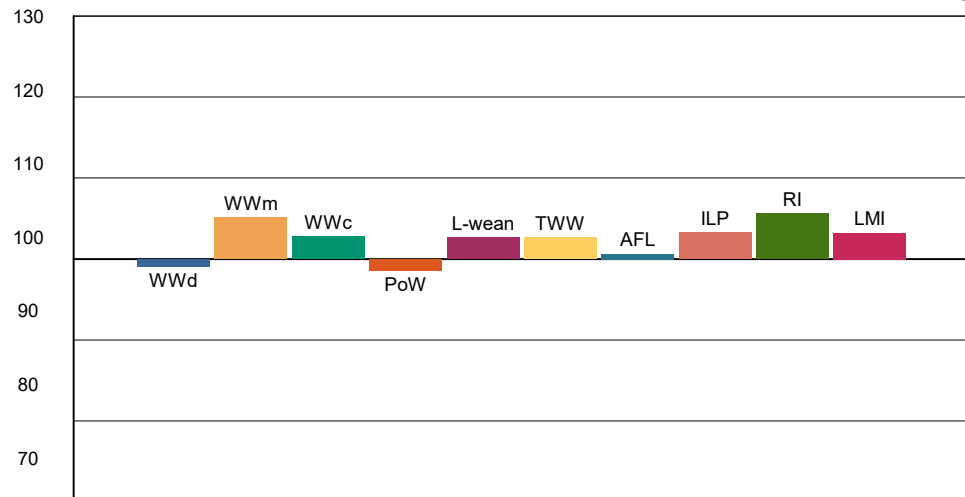
Sires

Number: 17



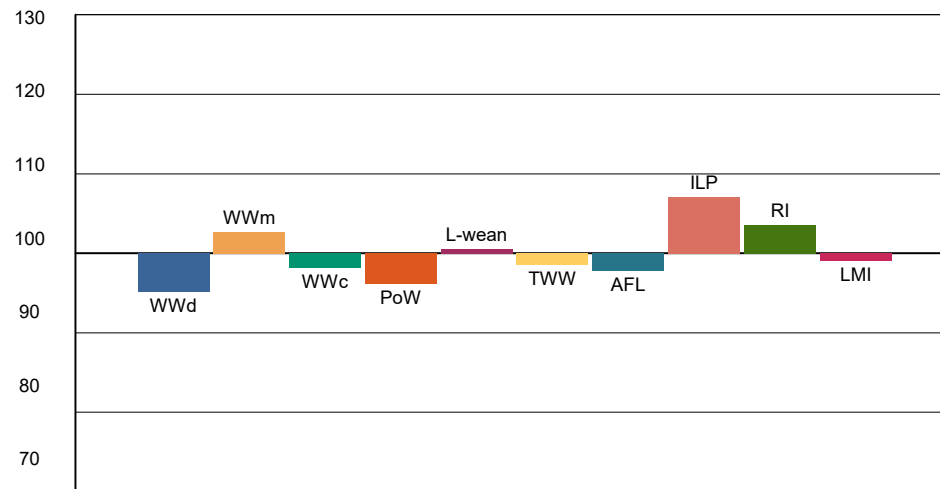
Young Ewes

Number: 10



Young Rams

Number: 8



Genetic Trends

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

Genetic Trends

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

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

Genetic Trends of Breed

Birth year	Weaning Weight EBV				Post-wean		Lambs Weaned		TWW		AFL		ILP		RI		LMI	
	Number	Dir	Mat	Comb	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV
2013	1336	-0.37	0.02	-0.17	108	0.51	508	0.24	1336	100	1078	-2.27	653	0.70	1336	103	1336	100
2014	1007	-0.37	-0.07	-0.26	58	-0.17	671	0.13	1007	99	1072	-1.16	661	0.26	1007	100	1007	97
2015	1626	-0.20	0.08	-0.02	233	1.23	705	0.74	1626	104	1180	-1.69	715	0.18	1626	106	1626	104
2016	1804	-0.26	0.04	-0.09	239	0.72	791	0.07	1804	102	1291	-1.49	887	0.13	1804	104	1804	102
2017	2163	-0.29	-0.02	-0.17	313	1.21	825	0.29	2120	99	1404	-1.53	992	0.29	2120	102	2120	99
2018	2547	-0.28	0.07	-0.07	236	0.58	909	0.35	2519	101	1853	-0.08	1275	-0.77	2519	104	2519	101
2019	2144	-0.01	0.02	0.01	254	0.24	889	0.13	2138	102	2101	-0.70	1389	0.07	2138	102	2138	102
2020	2459	-0.10	0.04	-0.01	436	-0.69	864	0.14	2459	102	2740	-0.11	1744	-0.19	2459	102	2459	101
2021	1759	0.00	0.00	0.00	330	0.00	823	-0.01	1759	103	3094	0.00	1960	0.00	1759	104	1759	104
2022	2519	-0.07	0.05	0.02	427	0.54	802	-0.40	2519	102	3449	-0.76	1843	0.46	2519	103	2519	102
2023	2896	-0.17	0.05	-0.03	465	-0.06	570	-0.16	2894	101	3098	-0.57	1076	0.57	2894	103	2894	101
2024	3036	0.04	-0.06	-0.04	414	1.29	196	-0.35	3035	100	1825	-1.17	154	0.85	3035	100	3035	100
2025	2284	0.15	-0.01	0.07	476	1.04			2283	103	82	-1.16			2283	101	2283	102

Genetic Trends of Flock

Birth year	Weaning Weight EBV				Post-Wean		Lambs Weaned		TWW		AFL		ILP		RI		LMI	
	Number	Dir	Mat	Comb	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV

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	SA*	Min	Percentiles (%)															Max
				1	5	10	20	25	30	40	50	60	70	75	80	90	95	99	
Weaning Weight Direct	-0.06	0.74	-4.91	-1.74	-1.04	-0.83	-0.65	-0.57	-0.48	-0.32	-0.16	0.02	0.22	0.35	0.51	0.91	1.28	2.04	4.89
Weaning Weight Maternal	-0.02	0.33	-2.29	-0.90	-0.58	-0.43	-0.26	-0.20	-0.15	-0.07	0.00	0.06	0.11	0.15	0.20	0.35	0.49	0.86	2.30
Weaning Weight Combined	-0.06	0.49	-2.89	-1.24	-0.79	-0.58	-0.39	-0.33	-0.28	-0.21	-0.12	-0.01	0.12	0.20	0.29	0.58	0.84	1.32	3.11
Post-Wean Weight	0.50	1.23	-7.95	-2.29	-1.01	-0.67	-0.42	-0.31	-0.19	0.05	0.33	0.61	0.96	1.14	1.38	1.99	2.60	4.25	12.54
Number of Lambs Weaned	-0.36	2.06	-13.10	-5.70	-4.20	-3.30	-2.20	-1.70	-1.30	-0.50	0.10	0.60	1.10	1.30	1.40	1.60	2.00	3.80	11.20
Total Weight Weaned	-0.30	1.53	-9.52	-4.12	-2.96	-2.34	-1.52	-1.22	-0.94	-0.48	-0.12	0.16	0.38	0.52	0.74	1.37	2.06	3.69	8.21
Age at First Lambing	-0.30	-6.96	62.93	17.45	10.46	7.50	4.40	3.30	2.43	0.97	-0.37	-1.47	-2.89	-3.74	-4.73	-7.80	-10.96	-19.95	-75.66
Interlambing Period	0.15	-3.66	23.72	9.96	6.51	4.87	2.99	2.35	1.75	0.75	-0.15	-0.94	-1.75	-2.21	-2.71	-4.10	-5.38	-8.00	-21.68
Reproduction Index	102	10	49	75	84	88	94	96	98	101	103	105	107	108	109	112	114	121	146
Logix Merit Index	101	9	62	79	85	89	94	95	97	100	102	103	105	106	107	111	116	126	147

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

Breeding Value & Selection Index Percentiles

All Active Rams

Trait	AVG	SA*	Min	Percentiles (%)															Max
				1	5	10	20	25	30	40	50	60	70	75	80	90	95	99	
Weaning Weight Direct	-0.01	0.75	-4.91	-1.73	-0.99	-0.78	-0.60	-0.51	-0.41	-0.26	-0.09	0.07	0.30	0.42	0.57	0.96	1.32	2.10	3.75
Weaning Weight Maternal	-0.03	0.31	-1.73	-0.81	-0.55	-0.42	-0.26	-0.20	-0.16	-0.08	-0.01	0.05	0.11	0.14	0.19	0.33	0.45	0.76	1.79
Weaning Weight Combined	-0.03	0.46	-2.44	-1.09	-0.69	-0.51	-0.36	-0.31	-0.26	-0.19	-0.10	0.01	0.14	0.21	0.29	0.57	0.82	1.25	2.18
Post-Wean Weight	0.58	1.24	-7.95	-2.36	-0.94	-0.60	-0.33	-0.22	-0.10	0.17	0.45	0.71	1.06	1.24	1.48	2.06	2.64	4.24	12.54
Number of Lambs Weaned	-0.55	2.07	-8.30	-5.70	-4.40	-3.60	-2.40	-2.00	-1.50	-0.80	-0.20	0.40	0.80	1.10	1.30	1.60	1.90	3.60	8.30
Total Weight Weaned	-0.37	1.55	-5.94	-4.10	-3.06	-2.47	-1.65	-1.33	-1.05	-0.55	-0.18	0.11	0.37	0.50	0.72	1.35	2.01	3.69	7.18
Age at First Lambing	-0.22	-6.62	39.94	16.34	10.21	7.43	4.48	3.42	2.57	1.12	-0.29	-1.47	-2.85	-3.69	-4.63	-7.53	-10.44	-18.29	-65.44
Interlambing Period	0.19	-3.45	20.34	9.44	6.20	4.66	2.89	2.30	1.73	0.78	-0.11	-0.90	-1.67	-2.11	-2.61	-3.86	-4.98	-7.30	-14.85
Reproduction Index	101	9	55	76	83	88	93	95	97	100	103	105	107	108	109	111	114	120	135
Logix Merit Index	100	9	65	79	85	88	93	95	97	99	101	103	105	106	107	111	116	126	144

All Active Ewes

Trait	AVG	SA*	Min	Percentiles (%)															Max
				1	5	10	20	25	30	40	50	60	70	75	80	90	95	99	
Weaning Weight Direct	-0.09	0.74	-3.89	-1.74	-1.07	-0.86	-0.67	-0.60	-0.51	-0.36	-0.20	-0.02	0.19	0.31	0.47	0.88	1.27	2.00	4.89
Weaning Weight Direct	-0.02	0.34	-2.29	-0.94	-0.59	-0.44	-0.27	-0.20	-0.15	-0.07	0.00	0.06	0.12	0.16	0.21	0.37	0.52	0.89	2.30
Weaning Weight Combined	-0.07	0.50	-2.89	-1.31	-0.83	-0.62	-0.41	-0.34	-0.29	-0.22	-0.13	-0.02	0.11	0.19	0.29	0.58	0.85	1.36	3.11
Post-Wean Weight	0.46	1.22	-6.83	-2.27	-1.05	-0.70	-0.46	-0.36	-0.24	-0.01	0.27	0.55	0.90	1.09	1.33	1.96	2.58	4.25	8.78
Number of Lambs Weaned	-0.26	2.05	-13.10	-5.80	-4.10	-3.20	-2.00	-1.60	-1.10	-0.40	0.20	0.70	1.10	1.30	1.50	1.70	2.00	3.90	11.20
Total Weight Weaned	-0.27	1.52	-9.52	-4.15	-2.89	-2.26	-1.45	-1.16	-0.90	-0.44	-0.10	0.19	0.39	0.54	0.75	1.38	2.08	3.69	8.21
Age at First Lambing	-0.34	-7.13	62.93	18.10	10.67	7.55	4.36	3.23	2.34	0.88	-0.38	-1.48	-2.90	-3.76	-4.78	-7.95	-11.29	-20.92	-75.66
Interlambing Period	0.13	-3.78	23.72	10.31	6.69	4.98	3.03	2.38	1.76	0.73	-0.17	-0.94	-1.80	-2.27	-2.76	-4.23	-5.54	-8.30	-21.68
Reproduction Index	102	10	49	74	84	89	94	96	98	101	104	106	108	109	109	112	115	122	146
Logix Merit Index	101	9	62	79	86	89	94	96	97	100	102	103	105	106	107	111	116	126	147

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

Rams

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			Parents			% In-breeding	Logix Merit Index	Reproducti on	Wean Weight		Post-Wean	Number Weaned	TWW	AFL	ILP	Dam						
Comp no.									Dir	Mat							Comb	EBV Index	EBV Index	EBV Index	EBV Index	EPI
									Acc	Index	Acc	Index	Index	Acc	Index	Acc	Index	Acc	Index			
Active Breed Average:						100	100	-0.06	-0.02	-0.06	0.50	-0.36	-0.31	-0.30	0.15							
1413	22	0328	1413	21	0079	2.84	102	109	-0.45	0.25	0.02	0.14	-0.10	-0.26	3.37	-4.51	3					
	96067632		1413	20	0068				21	95	18	107	101	12	97	9		103	17	101	32	96
762	23	0770	762	21	0605	7.90	82	80	0.20	-0.37	-0.27	1.29	-6.10	-3.83	7.45	-0.71	131	3				
	98688047		762	21	0215				65	102	47	92	96	23	104	25			75	49	80	43
2131	24	0046	1509	22	0030	4.56	103	107	-0.64	-0.02	-0.34	-0.46	1.30	0.12	-6.45	1.85	3					
	109056267		1264	20	0086				7	93	5	100	95	5	93	5		110	5	103	26	108
2131	25	0018	1413	22	0328	2.67	102	108	-0.66	0.07	-0.26	-0.28	0.80	-0.11	0.67	-2.40	1					
	111511176		1264	22	0146				11	92	10	103	96	6	94	5		107	9	102	26	99
2131	25	0019	1413	22	0328	2.67	102	108	-0.66	0.07	-0.26	-0.28	0.80	-0.11	0.67	-2.40	1					
	111511184		1264	22	0146				11	92	10	103	96	6	94	5		107	9	102	26	99
2131	25	0022	1413	22	0328	5.87	103	111	-0.74	0.27	-0.11	-0.33	0.60	-0.12	-0.95	-2.27	1					
	111511218		1413	23	0097				12	91	11	107	99	7	94	6		106	10	102	18	101
2131	25	0024	1413	22	0328	2.66	103	108	-0.55	0.10	-0.17	-0.15	0.60	-0.08	-2.83	-1.02	3					
	111511093		1264	20	0086				12	94	10	103	97	6	95	5		106	10	102	23	103
2131	26	0012	762	23	0676	7.55	96	98	0.30	0.23	0.38	0.70	-2.70	-1.09	10.41	-3.63	1					
	113535702		762	24	1167				44	103	33	107	107	13	100	18		91	34	96	33	87
Ram Flock Average:						99	104	-0.40	0.08	-0.12	0.08	-0.60	-0.68	1.54	-1.89							
Number of rams in the flock: 8																						

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 Comp no.				% In- breeding	Logix Merit Index	Repro- duction Index	Wean Weight		Comb	Post-Wean		Number Weaned	TWW		AFL		ILP		Times EPI Lamberd	
							Dir	Mat		Acc	EBV Index		Acc	EBV Index	Acc	EBV Index	Acc	EBV Index	Acc	EBV Index
							EBV Acc	EBV Index												
Active Breed Average:					100	100	-0.06	-0.02	-0.06	0.50	-0.36	-0.31	-0.30	0.15						
1264 20 0086 93104081	1658 19 0022 1264 19 0102	2.57	103	107	-0.65 12 92	-0.04 9 100	-0.36 94	-0.44 5 93	1.20 5 109	0.03 9 103	-9.03 33 111	2.47 19 95	3							
1264 22 0146 98768054	1264 20 0001 1264 15 0128	2.89	102	107	-0.87 9 90	-0.10 7 98	-0.54 91	-0.71 5 91	1.60 5 111	-0.01 6 102	-2.04 41 102	-0.29 18 103	1							
1264 22 0222 98768062	1264 20 0001 1264 21 0022	8.71	101	106	-0.97 14 89	-0.17 10 97	-0.66 89	-0.83 5 90	1.60 5 111	-0.18 9 102	-3.42 46 104	0.33 22 101	1							
1740 22 0284 98762172	1520 20 0346 1026 19 0263	2.90	102	107	-0.81 16 91	0.13 12 104	-0.28 96	-0.59 5 92	1.50 5 111	0.22 11 104	-2.51 29 103	3.01 15 94	1							
1740 22 0325 96029723	430 20 0131 430 21 0038	18.87	121	116	1.64 32 118	0.49 28 113	1.31 123	3.35 24 118	1.10 9 109	2.79 25 119	2.72 37 96	-5.44 27 117	1							
1085 22 0484 98653413	1085 18 0242 1085 21 0030	4.48	111	114	-0.03 24 99	0.13 18 104	0.11 102	0.25 9 97	2.10 5 113	1.36 17 110	-3.86 27 105	-2.69 16 109	0							
175 23 0009 97191357	175 20 0964 175 19 0051	9.49	103	109	-0.80 5 91	0.10 5 103	-0.30 95	-0.72 5 91	1.50 5 111		0.86 29 99	-1.25 13 105	0							
1413 23 0010 98438203	1028 17 0526 1413 16 0886	2.61	104	109	-0.67 5 92	0.08 5 103	-0.26 96	-0.49 5 92	1.60 5 111		-3.30 6 104	0.15 5 102	1							
1264 23 0024 98768088	762 21 0673 1264 19 0122	2.46	107	110	-0.64 32 93	-0.02 24 100	-0.34 95	-0.34 7 93	2.90 12 117	1.08 24 109	0.39 40 99	0.04 18 102	0							
1413 23 0097 98438302	1028 17 0526 1413 18 0318	2.85	104	113	-1.04 14 88	0.28 13 108	-0.24 96	-0.79 8 90	1.40 7 110	0.09 12 103	-5.28 19 107	-0.03 13 102	1							
2131 24 0047 109056275	1509 22 0030 1264 20 0086	4.56	103	107	-0.64 7 93	-0.02 5 100	-0.34 95	-0.46 5 93	1.30 5 110	0.12 5 103	-6.45 26 108	1.85 11 97	0							
762 24 1083 107598138	762 21 0467 762 19 0721	9.53	90	95	-0.75 65 91	-0.14 51 97	-0.51 92	-1.11 21 88	-1.90 27 94	-2.02 51 91	0.74 51 99	1.25 32 98	0							
762 24 1167 107597106	762 23 0100 762 20 1082	9.45	110	109	0.82 57 109	0.43 39 112	0.84 115	1.80 16 108	0.70 20 107	1.67 42 112	13.91 43 82	-4.92 21 115	1							
762 24 1196 107611642	762 22 0040 762 18 0825	11.49	106	100	0.81 61 109	-0.08 44 99	0.32 106	1.91 13 108	-0.90 18 99	0.19 45 104	-12.29 38 115	5.48 24 87	0							
762 24 1467 107617037	762 22 0538 762 19 0416	8.74	106	99	0.73 63 108	0.05 46 102	0.42 108	1.08 30 103	-0.30 27 102	0.61 48 106	-16.22 52 120	11.83 29 69	1							

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 Comp no.				% In- breeding	Logix Merit Index	Repro- duction Index	Wean Weight		Post-Wean		Number Weaned	TWW	AFL	ILP	Times EPI Lambded
							Dir	Mat	Comb						
							Acc	Index	Acc	Index	EBV	EBV	EBV	EBV	Acc
Active Breed Average:					100	100	-0.06	-0.02	-0.06	0.50	-0.36	-0.31	-0.30	0.15	
2131 25 0015 111511101	1413 22 0328 1740 22 0325	5.28	111	113	0.60 19 106	0.37 17 110	0.67 112	1.75 13 107	0.50 6 106	1.27 15 110	3.05 24 96	-4.97 17 116	0		
2131 25 0016 111511127	1413 22 0328 1740 22 0325	5.28	111	113	0.60 19 106	0.37 17 110	0.67 112	1.75 13 107	0.50 6 106	1.27 15 110	3.05 24 96	-4.97 17 116	0		
2131 25 0017 111511119	1413 22 0328 1740 22 0284	3.00	102	108	-0.63 13 93	0.19 11 106	-0.13 98	-0.22 6 94	0.70 5 107	-0.02 10 102	0.43 22 99	-0.75 12 104	0		
2131 25 0020 111511200	1413 22 0328 1264 22 0222	2.53	102	108	-0.71 12 92	0.04 10 102	-0.32 95	-0.34 6 93	0.80 5 107	-0.19 10 101	-0.02 28 100	-2.09 15 108	0		
2131 25 0023 111511135	1413 22 0328 1264 20 0086	2.66	103	108	-0.55 12 94	0.10 10 103	-0.17 97	-0.15 6 95	0.60 5 106	-0.08 10 102	-2.83 23 103	-1.02 14 105	0		
2131 25 0025 111511192	1413 22 0328 1413 23 0010	2.78	103	109	-0.56 10 93	0.16 9 105	-0.12 98	-0.17 6 95	0.80 5 107	0.08 8 103	0.04 16 100	-2.18 10 108	0		
2131 25 0026 111511168	1413 22 0328 1413 23 0010	2.78	103	109	-0.56 10 93	0.16 9 105	-0.12 98	-0.17 6 95	0.80 5 107	0.08 8 103	0.04 16 100	-2.18 10 108	0		
2131 26 0011 113535710	762 23 0676 762 24 1167	7.55	96	98	0.30 44 103	0.23 33 107	0.38 107	0.70 13 100	-2.70 18 91	-1.09 34 96	10.41 33 87	-3.63 19 112	0		
2131 26 0013 113535694	762 23 0676 762 24 1467	8.33	94	93	0.26 46 103	0.04 35 102	0.17 103	0.33 18 98	-3.20 20 88	-1.62 36 93	-4.65 36 106	4.75 22 89	0		
	Ewe flock average: Total ewes in flock: 24				104	107	-0.21	0.12	0.01	0.22	0.59	0.26	-1.51	-0.22	

Sires Used in Flock

*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 & Progeny					Selection Indices		EBV - Weights				EBV - Fertility					
Animal ID Computer nr	% In-breeding	Sire ID Dam ID	1st Generation		2nd Generation		Logix Merit Index	Reprod Index	Weaning Weight		Comb	Post-Wean	Number Weaned	TWW	AFL	ILP	Dam	
			Progeny	Number	Progeny	Number			Dir	Mat								EBV
			y	Herds	Weaned	Herds			Acc Index	Acc Index	Index	Acc Index	Acc Index	Acc Index	Acc Index	Acc Index		Acc Index
		Active Breed Average:					100	100	-0.06	-0.02	-0.06	0.50	-0.36	-0.31	-0.30	0.15		
1 1028 17 0526 94827920	2.89	1028 15 0976 1028 15 0499					105	110	-0.67 5 92	0.08 5 103	-0.26 96	-0.49 5 92	1.60 5 111		-6.21 13 108	1.24 10 99	2	
2 1085 18 0242 86178910	1.59	1085 17 0171 1400 15 0021			2	1	112	116	0.02 44 100	0.13 34 104	0.14 103	0.58 11 99	2.00 5 113	1.35 31 110	-1.08 50 101	-5.65 30 117	7	
3 1658 19 0022 92615590	2.92	770 17 0258 1658 13 0021					106	112	-0.55 8 94	0.06 5 102	-0.22 97	-0.33 5 94	1.60 5 111		-6.38 49 108	-1.00 26 105	8	
4 1264 20 0001 96414214	14.78	1658 18 0027 1658 17 0078					101	105	-1.07 18 88	-0.28 14 94	-0.82 86	-0.92 5 90	1.60 5 111	-0.39 13 100	-9.38 64 112	2.23 36 96	1	
5 430 20 0131 90635921	19.50	430 19 0008 430 18 0007			2	1	127	121	2.12 51 124	0.64 47 117	1.70 130	4.08 39 122	1.40 13 110	3.60 41 123	-0.41 53 100	-5.84 39 118	5	
6 1520 20 0346 91099887	2.33	17 0 67 4DL 1520 18 0452					101	104	-0.94 33 89	0.18 24 105	-0.29 95	-0.69 7 91	1.30 6 110	0.02 23 103	-7.77 57 110	8.38 29 79	100 7	
7 175 20 0964 95815007	38.52	175 17 0763 175 16 0203					101	108	-0.94 5 89	0.12 5 104	-0.35 94	-0.95 5 89	1.40 5 110		1.54 36 98	-1.00 14 105	4	
8 1413 21 0079 95590865	2.96	1298 19 0040 1413 20 0036			1	1	102	102	0.51 31 105	0.01 26 101	0.26 105	1.38 16 105	-1.20 13 98	-0.21 25 101	11.09 53 86	-7.71 31 123	1	
9 762 21 0467 93656387	7.30	762 19 1002 762 17 0284	150	2	38	1	96	96	-0.23 95 97	0.36 82 110	0.25 105	-0.59 34 92	-0.90 42 99	-0.41 78 100	1.20 85 98	9.26 55 76	72 3	
10 762 21 0605 93666766	7.01	762 19 0449 762 18 0665	26	1	9	1	86	83	0.03 84 100	-0.80 66 81	-0.78 87	0.79 24 101	-4.00 31 85	-3.17 65 84	3.41 64 95	-2.85 39 110	100 8	
11 762 21 0673 93989739	4.53	762 19 0246 762 17 0583					112	113	-0.43 61 95	-0.01 44 100	-0.23 96	0.04 14 96	4.20 23 123	2.08 46 115	0.90 71 99	-0.34 29 103	137 6	
12 1509 22 0030 97609929	2.70	1509 20 0133 1509 21 0105					103	107	-0.63 6 93	0.01 5 101	-0.31 95	-0.49 5 92	1.30 5 110	0.16 5 103	-3.87 39 105	1.24 12 99	1	
13 762 22 0040 96006457	7.36	762 20 0304 762 18 0657	59	1	6	1	87	88	-0.87 89 90	-0.41 64 91	-0.84 86	0.06 20 96	-3.40 29 87	-3.32 66 83	-13.49 59 117	6.55 36 84	3	

Sires Used in Flock

*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 & Progeny					Selection Indices		EBV - Weights				EBV - Fertility					
Animal ID Computer nr	% In-breedin g	Sire ID Dam ID	1st Generation		2nd Generation		Logix Merit Index	Reprod Index	Weaning Weight		Post-Wean		Number Weaned	TWW	AFL	ILP	Dam	
			Progen y	Number Herds	Progeny Weaned	Progeny Herds			Dir EBV Acc Index	Mat EBV Acc Index	Comb EBV Index	Post-Wean EBV Acc Index						
		Active Breed Average:					100	100	-0.06	-0.02	-0.06	0.50	-0.36	-0.31	-0.30	0.15		
14	1413 22 0328 96067632	2.84	1413 21 0079 1413 20 0068					102	109	-0.45 21 95	0.25 18 107	0.02 101	0.14 12 97	-0.10 9 103	-0.26 17 101	3.37 32 96	-4.51 20 114	3
15	762 22 0538 96016506	8.99	762 19 0382 762 19 0287	48	2	6	1	96	72	2.63 86 129	-0.76 63 82	0.55 110	3.41 39 118	-4.30 31 83	-0.71 64 98	-1.64 73 102	10.20 40 74	6
16	762 23 0100 96528138	8.28	762 21 0404 762 20 0855	17	1			99	99	0.14 75 101	-0.14 48 97	-0.06 99	0.96 27 102	-1.30 24 97	-0.77 53 98	1.84 50 97	-2.23 28 108	4
17	762 23 0676 98687361	9.16	762 21 0081 762 18 0246	1	1			82	87	-0.22 68 97	0.03 54 102	-0.08 99	-0.41 21 93	-6.10 29 75	-3.85 54 80	6.92 51 91	-2.34 32 108	159 9
		Sire Flock Average: Number of sires used in the flock: 17					101	102	-0.09	-0.03	-0.08	0.39	-0.29	-0.30	-1.17	0.33		

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
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 & Progeny				Selection Indices		EBV - Weights				EBV - Fertility						
Animal ID Computer nr	% In-breeding	Sire ID Dam ID	1st Generation		2nd Generation	Logix Merit Index	Repro- duction Index	Weaning Weight		Post-Wean		Number Weaned	TWW	AFL	ILP	Dam		
			Progeny Number Weaned	Herds	Progeny Number Weaned			Herds	Dir EBV Acc Index	Mat EBV Acc Index	Comb EBV Index							EBV Acc Index
			Active Breed Average:				100	100	-0.06	-0.02	-0.06	0.50	-0.36	-0.31	-0.30	0.15		
1	2131 24 0046 109056267	4.56	509 22 0030 264 20 0086			103	107	-0.64 7 93	-0.02 5 100	-0.34 95	-0.46 5 93	1.30 5 110	0.12 5 103	-6.45 26 108	1.85 11 97	3		
2	2131 25 0024 111511093	2.66	413 22 0328 264 20 0086			103	108	-0.55 12 94	0.10 10 103	-0.17 97	-0.15 6 95	0.60 5 106	-0.08 10 102	-2.83 23 103	-1.02 14 105	3		
3	2131 25 0022 111511218	5.87	413 22 0328 413 23 0097			103	111	-0.74 12 91	0.27 11 107	-0.11 99	-0.33 7 94	0.60 6 106	-0.12 10 102	-0.95 18 101	-2.27 12 108	1		
4	2131 25 0018 111511176	2.67	413 22 0328 264 22 0146			102	108	-0.66 11 92	0.07 10 103	-0.26 96	-0.28 6 94	0.80 5 107	-0.11 9 102	0.67 26 99	-2.40 13 109	1		
5	2131 25 0019 111511184	2.67	413 22 0328 264 22 0146			102	108	-0.66 11 92	0.07 10 103	-0.26 96	-0.28 6 94	0.80 5 107	-0.11 9 102	0.67 26 99	-2.40 13 109	1		
6	1413 22 0328 96067632	2.84	413 21 0079 413 20 0068			102	109	-0.45 21 95	0.25 18 107	0.02 101	0.14 12 97	-0.10 9 103	-0.26 17 101	3.37 32 96	-4.51 20 114	3		
7	2131 26 0012 113535702	7.55	762 23 0676 762 24 1167			96	98	0.30 44 103	0.23 33 107	0.38 107	0.70 13 100	-2.70 18 91	-1.09 34 96	10.41 33 87	-3.63 19 112	1		
8	762 23 0770 98688047	7.90	762 21 0605 762 21 0215	2	2	82	80	0.20 65 102	-0.37 47 92	-0.27 96	1.29 23 104	-6.10 25 75	-3.83 49 80	7.45 43 90	-0.71 28 104	131 3		

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 Computer nr		% In-breeding	Sire ID Dam ID		Logix Merit Index	Reproduction Index	Weaning Weight		Post-Wean		Number Weaned		TWW		AFL		ILP		EPI	Times Lambded
							Dir	Mat	Comb		Acc	EBV	Acc	EBV	Acc	EBV	Acc	EBV		
Active Breed Average:					100	100	-0.06	-0.02	-0.06	0.50	-0.36	-0.31	-0.30	0.15						
1	1740 22 0325 96029723	18.87	430 20 0131 430 21 0038	121	116	1.64	0.49	1.31	3.35	1.10	2.79	2.72	-5.44			1				
						32 118	28 113	123	24 118	9 109	25 119	37 96	27 117							
2	2131 25 0015 111511101	5.28	1413 22 0328 1740 22 0325	111	113	0.60	0.37	0.67	1.75	0.50	1.27	3.05	-4.97			0				
						19 106	17 110	112	13 107	6 106	15 110	24 96	17 116							
3	2131 25 0016 111511127	5.28	1413 22 0328 1740 22 0325	111	113	0.60	0.37	0.67	1.75	0.50	1.27	3.05	-4.97			0				
						19 106	17 110	112	13 107	6 106	15 110	24 96	17 116							
4	1085 22 0484 98653413	4.48	1085 18 0242 1085 21 0030	111	114	-0.03	0.13	0.11	0.25	2.10	1.36	-3.86	-2.69			0				
						24 99	18 104	102	9 97	5 113	17 110	27 105	16 109							
5	762 24 1167 107597106	9.45	762 23 0100 762 20 1082	110	109	0.82	0.43	0.84	1.80	0.70	1.67	13.91	-4.92			1				
						57 109	39 112	115	16 108	20 107	42 112	43 82	21 115							
6	1264 23 0024 98768088	2.46	762 21 0673 1264 19 0122	107	110	-0.64	-0.02	-0.34	-0.34	2.90	1.08	0.39	0.04			0				
						32 93	24 100	95	7 93	12 117	24 109	40 99	18 102							
7	762 24 1467 107617037	8.74	762 22 0538 762 19 0416	106	99	0.73	0.05	0.42	1.08	-0.30	0.61	-16.22	11.83			1				
						63 108	46 102	108	30 103	27 102	48 106	52 120	29 69							
8	762 24 1196 107611642	11.49	762 22 0040 762 18 0825	106	100	0.81	-0.08	0.32	1.91	-0.90	0.19	-12.29	5.48			0				
						61 109	44 99	106	13 108	18 99	45 104	38 115	24 87							
9	1413 23 0010 98438203	2.61	1028 17 0526 1413 16 0886	104	109	-0.67	0.08	-0.26	-0.49	1.60		-3.30	0.15			1				
						5 92	5 103	96	5 92	5 111		6 104	5 102							
10	1413 23 0097 98438302	2.85	1028 17 0526 1413 18 0318	104	113	-1.04	0.28	-0.24	-0.79	1.40	0.09	-5.28	-0.03			1				
						14 88	13 108	96	8 90	7 110	12 103	19 107	13 102							
11	1264 20 0086 93104081	2.57	1658 19 0022 1264 19 0102	103	107	-0.65	-0.04	-0.36	-0.44	1.20	0.03	-9.03	2.47			3				
						12 92	9 100	94	5 93	5 109	9 103	33 111	19 95							
12	2131 24 0047 109056275	4.56	1509 22 0030 1264 20 0086	103	107	-0.64	-0.02	-0.34	-0.46	1.30	0.12	-6.45	1.85			0				
						7 93	5 100	95	5 93	5 110	5 103	26 108	11 97							
13	2131 25 0025 111511192	2.78	1413 22 0328 1413 23 0010	103	109	-0.56	0.16	-0.12	-0.17	0.80	0.08	0.04	-2.18			0				
						10 93	9 105	98	6 95	5 107	8 103	16 100	10 108							
14	2131 25 0026 111511168	2.78	1413 22 0328 1413 23 0010	103	109	-0.56	0.16	-0.12	-0.17	0.80	0.08	0.04	-2.18			0				
						10 93	9 105	98	6 95	5 107	8 103	16 100	10 108							
15	2131 25 0023 111511135	2.66	1413 22 0328 1264 20 0086	103	108	-0.55	0.10	-0.17	-0.15	0.60	-0.08	-2.83	-1.02			0				
						12 94	10 103	97	6 95	5 106	10 102	23 103	14 105							

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 Computer nr	% In-breeding	Sire ID Dam ID	Logix Merit Index	Repro- duction Index	Dir EBV Acc Index	Weaning Weight Mat EBV Acc Index	Comb EBV Index	Post-Wean EBV Acc Index	Number Weaned EBV Acc Index	TWW EBV Acc Index	AFL EBV Acc Index	ILP EBV Acc Index	EPI Times Lambded Phenotype
Active Breed Average:			100	100	-0.06	-0.02	-0.06	0.50	-0.36	-0.31	-0.30	0.15	
16 175 23 0009 97191357	9.49	175 20 0964 175 19 0051	103	109	-0.80 5 91	0.10 5 103	-0.30 95	-0.72 5 91	1.50 5 111		0.86 29 99	-1.25 13 105	0
17 1740 22 0284 98762172	2.90	1520 20 0346 1026 19 0263	102	107	-0.81 16 91	0.13 12 104	-0.28 96	-0.59 5 92	1.50 5 111	0.22 11 104	-2.51 29 103	3.01 15 94	1
18 2131 25 0017 111511119	3.00	1413 22 0328 1740 22 0284	102	108	-0.63 13 93	0.19 11 106	-0.13 98	-0.22 6 94	0.70 5 107	-0.02 10 102	0.43 22 99	-0.75 12 104	0
19 1264 22 0146 98768054	2.89	1264 20 0001 1264 15 0128	102	107	-0.87 9 90	-0.10 7 98	-0.54 91	-0.71 5 91	1.60 5 111	-0.01 6 102	-2.04 41 102	-0.29 18 103	1
20 2131 25 0020 111511200	2.53	1413 22 0328 1264 22 0222	102	108	-0.71 12 92	0.04 10 102	-0.32 95	-0.34 6 93	0.80 5 107	-0.19 10 101	-0.02 28 100	-2.09 15 108	0
21 1264 22 0222 98768062	8.71	1264 20 0001 1264 21 0022	101	106	-0.97 14 89	-0.17 10 97	-0.66 89	-0.83 5 90	1.60 5 111	-0.18 9 102	-3.42 46 104	0.33 22 101	1
22 2131 26 0011 113535710	7.55	762 23 0676 762 24 1167	96	98	0.30 44 103	0.23 33 107	0.38 107	0.70 13 100	-2.70 18 91	-1.09 34 96	10.41 33 87	-3.63 19 112	0
23 2131 26 0013 113535694	8.33	762 23 0676 762 24 1467	94	93	0.26 46 103	0.04 35 102	0.17 103	0.33 18 98	-3.20 20 88	-1.62 36 93	-4.65 36 106	4.75 22 89	0
24 762 24 1083 107598138	9.53	762 21 0467 762 19 0721	90	95	-0.75 65 91	-0.14 51 97	-0.51 92	-1.11 21 88	-1.90 27 94	-2.02 51 91	0.74 51 99	1.25 32 98	0