



BOERBOK GENETIC REPORT

21 September 2026



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FDM : 2217



CERTIFICATE
OF QUALITY

Valid up to
October 2029

 **SA** STAMBOEK
STUD BOOK
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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 :

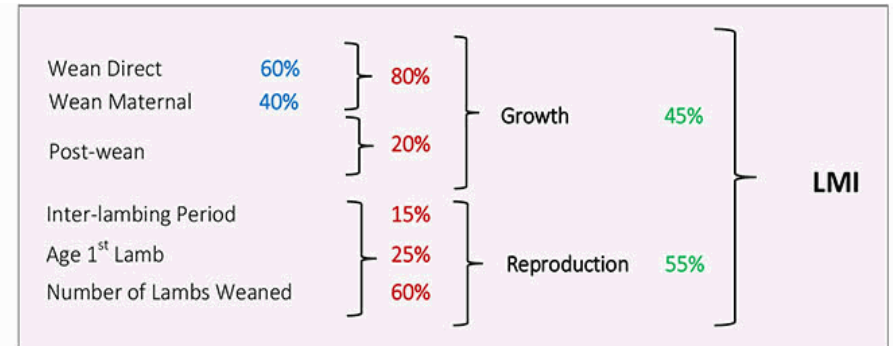
Logix Merit Index (LMI)

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	-0.48	-0.40	-0.52	-0.06	-0.01	-0.09
Weaning Weight Maternal	0.13	0.15	0.12	-0.02	-0.03	-0.02
Weaning Weight Combined	-0.11	-0.06	-0.13	-0.06	-0.03	-0.07
Post-wean Weight	-0.22	-0.25	-0.21	0.50	0.58	0.45
Number Lambs Weaned	-0.11	-0.15	-0.09	-0.36	-0.55	-0.26
Total Weight Weaned	-0.41	-0.35	-0.45	-0.31	-0.37	-0.27
Age at First Lambing	1.23	3.25	0.13	-0.30	-0.22	-0.35
Inter-lambing Period	-0.88	-1.92	-0.29	0.15	0.19	0.13
Selection Indices						
Logix Merit Index	100	100	100	101	100	101
Reproduction Index	105	105	105	102	101	102
Inbreeding						
Inbreeding (%)	4.56	3.70	4.96	5.54	5.93	5.34
Number of Animals						
Number of Animals	41	13	28	49286	16616	32526

** Averages of all active animals in the flock.

Breeding Value Indices

Trait	Flock **		
	All	Rams	Ewes
Weaning Weight Direct	94.4	95.2	93.9
Weaning Weight Maternal	104.1	104.5	103.9
Weaning Weight Comb	98.5	99.4	98.0
Post-wean Weight	94.2	94.0	94.3
Number Lambs Weaned	102.9	102.7	103.0
Total Weight Weaned	100.1	100.5	99.9
Age First Lambing	98.2	95.6	99.6
Interlambing Period	104.3	107.1	102.6
Selection Indices			
Logix Merit Index	99.8	99.9	99.8
Ewe Index	104.7	104.9	104.5
Growth Index	94.6	94.8	94.5
Inbreeding			
Inbreeding (%)	4.56	3.70	4.96
Number of Animals			
Number of Animals	41	13	28

** 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

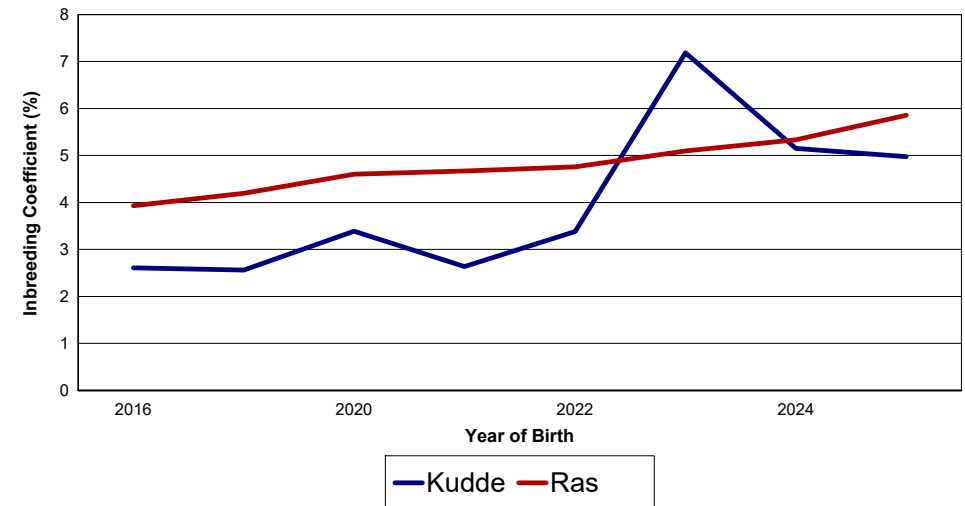
Progeny with Parents :	25%
Full Brother x Full Sister :	25%
Half Brother x Half Sister :	12.5%
One Common Grandparent :	6.25%
One Common Great-Grandparent :	3.125%

Level and Rate of Inbreeding

Year of Birth	Level* (%)	Rate (% / year)
2016 - 2025	4.97	0.26
Recommended:	< 6.25	< 0.1 - 0.2

*Of the last year of birth

Average Inbreeding per Year of Birth

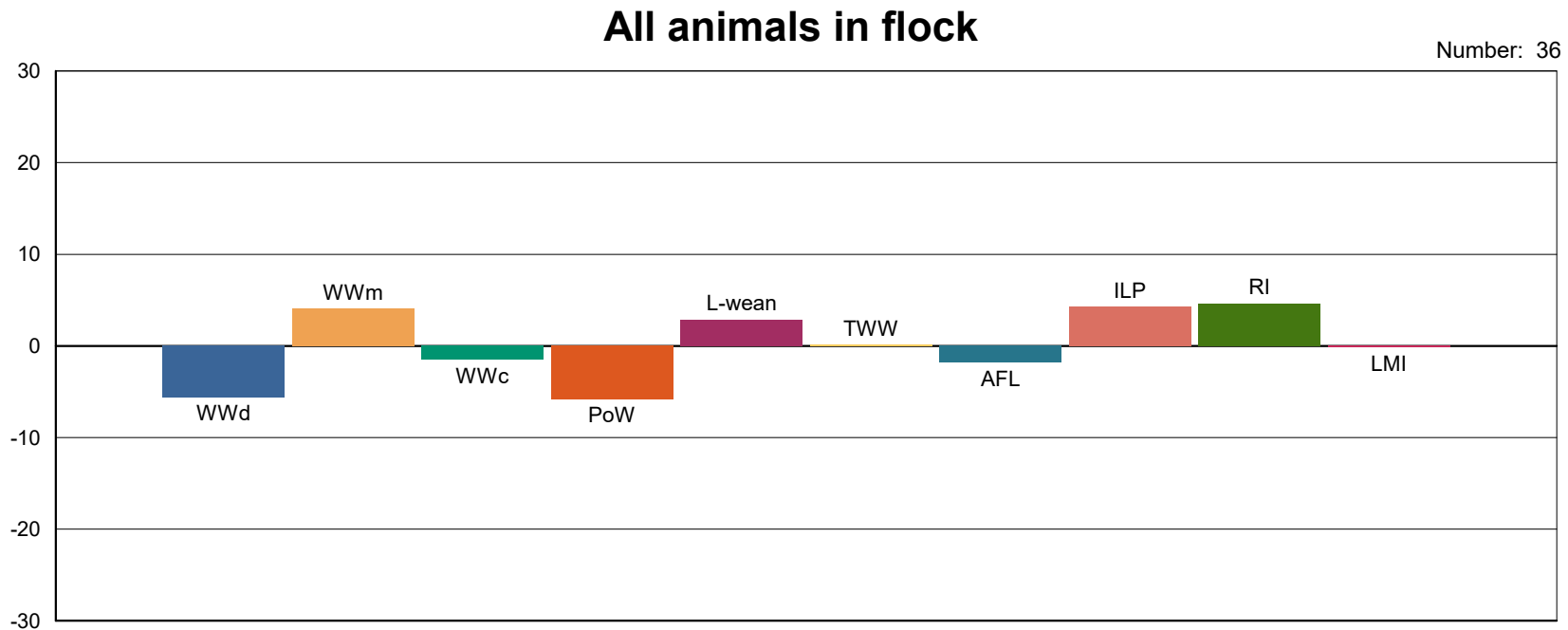


Pedigree Information

	Number	%
Known Sires	36	88
Known Dams	36	88

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

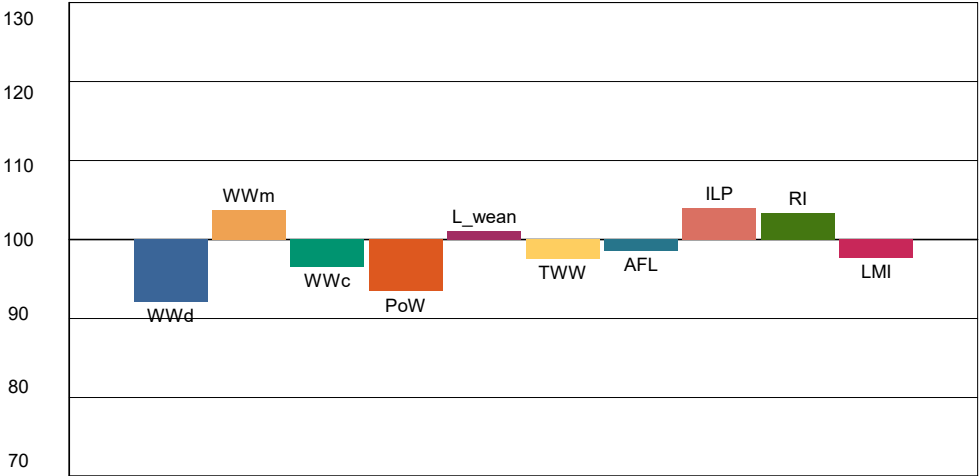
The genetic windows allow a quick overview of the genetic status of the flock compared to the breed. The values presented here are the average EBV indices of all the active animals of the flock, of the dams and sires of the active animals of the flock, as well as of the ewes and rams that are younger 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

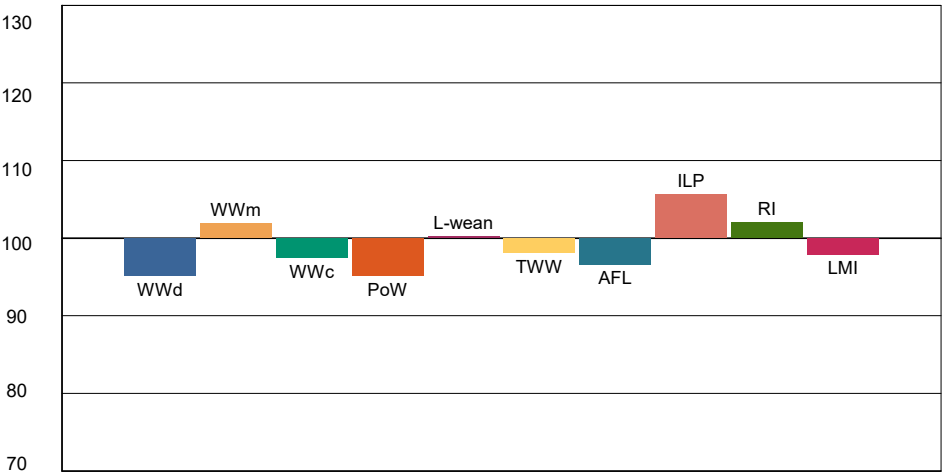
Dams

Number: 14



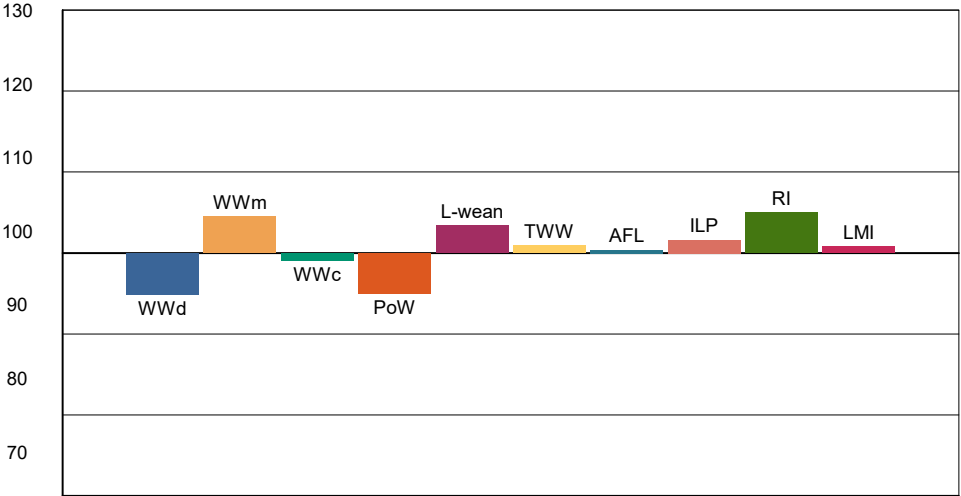
Sires

Number: 13



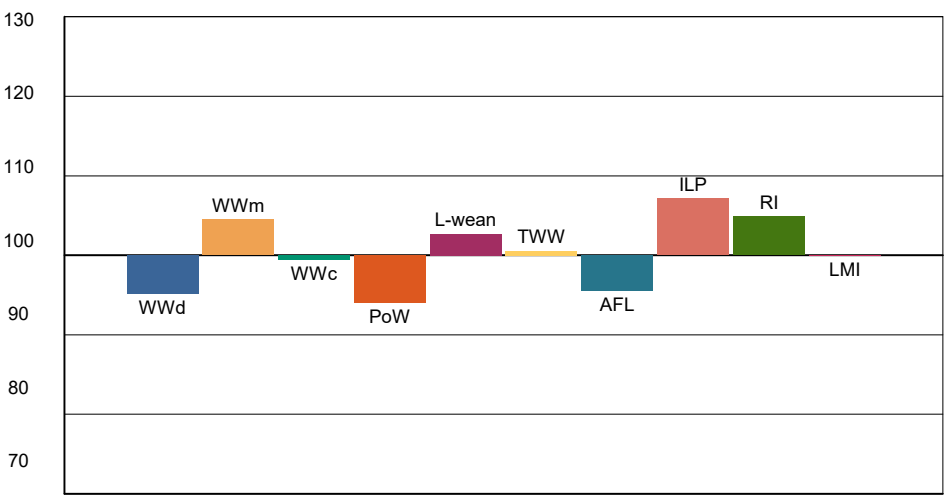
Young Ewes

Number: 11



Young Rams

Number: 13



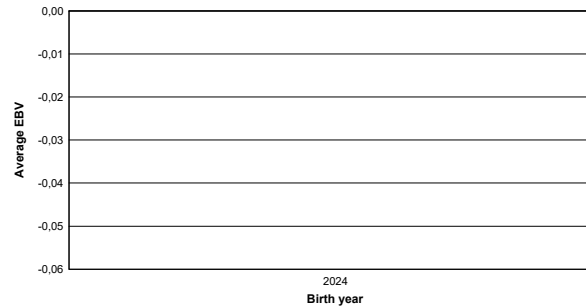
Genetic Trends

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

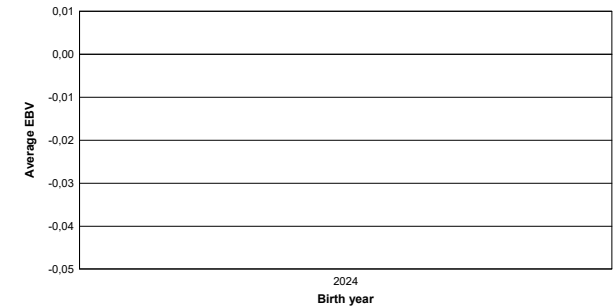
Weaning Weight Direct



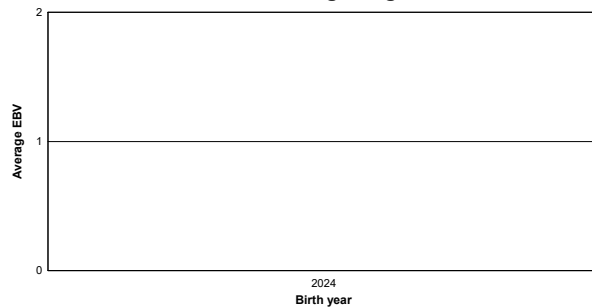
Wean Weight Maternal



Weaning Weight Combined



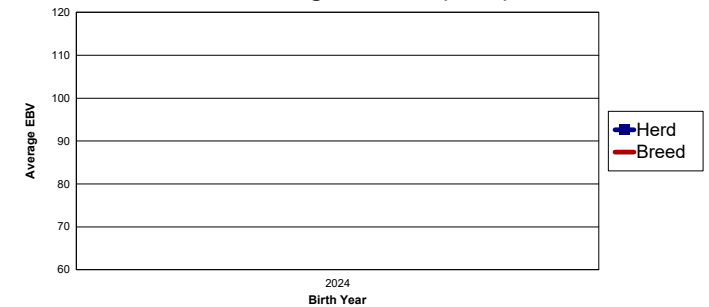
Post-weaning Weight



Number of Lambs Weaned

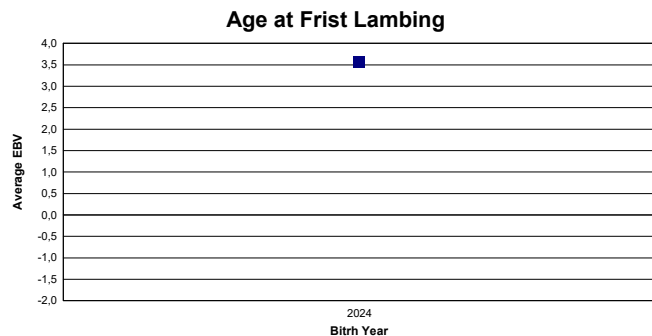


Total Weight Weaned (TWW)

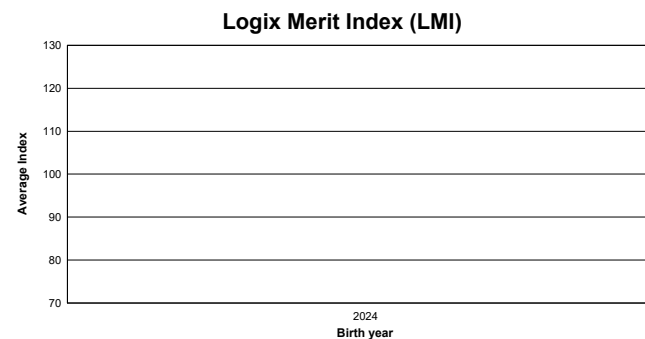
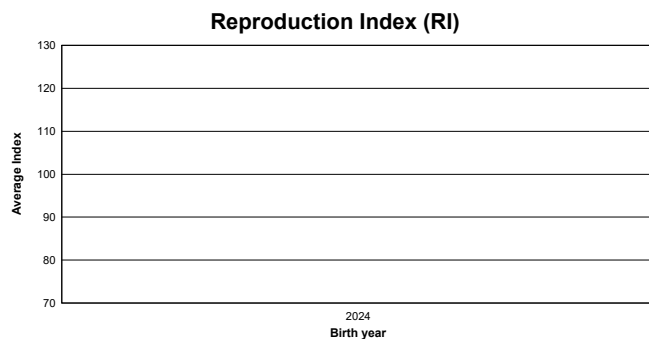
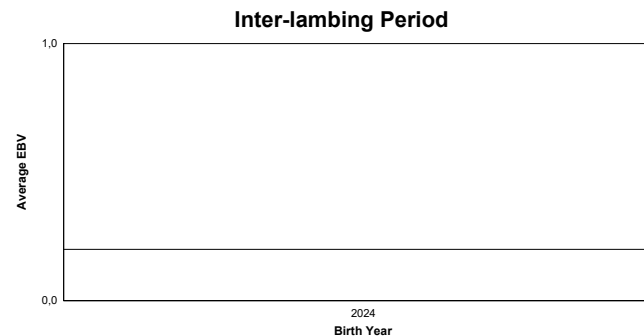


Genetic Trends

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				Post-wean	Lambs Weaned		TWW	AFL		ILP		RI	LMI				
	EBV					EBV			EBV		EBV							
	Number	Dir	Mat	Comb		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
2024										1	3.56						

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 Comp no.			Parents			% In-breeding	Logix Merit Index	Reproducti on	Wean Weight		Post-Wean		Number Weaned	TWW	AFL	ILP	Dam					
									Dir	Mat	Comb											
								Acc	EBV Index	Acc	EBV Index	EBV Index	Acc	EBV Index	Acc	EBV Index	Acc	EBV Index	EPI	Times Lambded		
			Active Breed Average:					100	100	-0.06	-0.02	-0.06	0.50	-0.36	-0.31	-0.30	0.15					
1700	21	0043	1590	19	0158	2.92		99	105	-0.29	0.24	0.09	-0.36	-0.80	-0.54	2.30	-2.23					
	94779329		1700	17	0018					25	96	22	107	15	100	22	99	25	97	18	108	3
1563	21	0104	1563	19	0429	2.41		99	104	-0.02	0.37	0.36	0.03	-1.30	-0.43	7.51	-3.28					
	91932905		1590	19	0003					26	100	24	110	14	97	22	100	29	90	19	111	7
2217	24	0001	1563	21	0104	2.87		102	107	-0.35	0.22	0.05	-0.23	0.20	0.00	3.56	-2.11					
	110893799		106	20	0045					13	96	12	106	7	104	11	103	15	95	10	108	3
2217	24	0005	1563	21	0043	3.05		98	106	-0.94	0.25	-0.21	-0.77	0.10	-0.62	3.76	-1.36					
	110893823		762	17	0565					31	89	24	107	12	104	24	99	28	95	19	106	4
2217	24	0007	1563	21	0104	2.87		102	107	-0.35	0.22	0.05	-0.23	0.20	0.00	3.56	-2.11					
	110893807		106	20	0237					13	96	12	106	7	104	11	103	15	95	10	108	4
2217	24	0012	1563	21	0104	3.01		96	99	-0.05	0.03	0.01	-0.16	-1.90	-1.16	4.85	-2.68					
	110893781		1520	17	0329					23	99	25	102	10	94	21	96	24	94	16	109	102 4
2035	24	0035	1637	22	0082	3.17		102	109	-0.80	0.05	-0.35	-0.70	1.10	-0.09	-0.10	-2.30					
	107170516		970	23	0030					18	91	17	102	6	109	15	102	31	100	17	108	2
2217	25	0001	1700	21	0043	2.87		102	107	-0.48	0.16	-0.08	-0.42	0.40	-0.09	0.96	-1.59					
	110893880		106	20	0243					12	94	11	105	8	105	11	102	13	99	9	106	2
2217	25	0002	1700	21	0043	2.87		102	107	-0.48	0.16	-0.08	-0.42	0.40	-0.09	0.96	-1.59					
	110893872		106	20	0237					12	94	11	105	8	105	11	102	13	99	9	106	4
2217	25	0003	1700	21	0043	2.87		102	107	-0.48	0.16	-0.08	-0.42	0.40	-0.09	0.96	-1.59					
	110893864		106	20	0045					12	94	11	105	8	105	11	102	13	99	9	106	3
2217	25	0006	1700	21	0043	4.84		101	106	-0.32	0.23	0.07	-0.29	-0.30	-0.27	2.93	-2.17					
	110893856		2217	24	0004					14	96	13	107	8	102	12	101	15	96	10	108	1
2217	25	0008	1700	21	0043	3.13		100	105	-0.57	0.19	-0.09	-0.32	-0.10	-0.44	-1.15	1.25					
	111081808		2027	22	0513					16	93	14	106	8	103	13	100	22	101	13	98	2

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 Comp no.			Parents			% In-breeding	Logix Merit Index	Reproducti on	Wean Weight				Post-Wean		Number Weaned	TWW		AFL		ILP		Dam			
									Dir	Mat		Comb													
									EBV Acc Index	EBV Acc Index	EBV 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	-0.06	-0.02		-0.06	0.50		-0.36	-0.31		-0.30		0.15						
2035 25 0040 110198140			1564 22 0472 1564 23 0398			11.25	96	95	-0.12 47 98	-0.38 36 91		-0.44 93	1.12 29 103		-0.30 25 102	-0.68 38 99		12.12 33 84		-3.18 23 111		1			
Ram Flock Average: Number of rams in the flock: 13						100	105	-0.40	0.15		-0.06	-0.25		-0.15	-0.35		3.25		-1.92						

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	Index		Acc	Index	Acc	Index	Acc	Index	Acc	Index
							EBV	EBV	EBV			EBV								
Active Breed Average:					100	100	-0.06	-0.02	-0.06	0.50	-0.36	-0.31	-0.30	0.15						
1520 17 0329 81153983	762 13 0190 1520 14 0038	2.25	92	94	-0.09 39 99	-0.30 43 93	-0.34 94	-0.36 15 93	-2.50 15 92	-1.89 35 92	2.20 39 97	-2.07 25 108	102	4						
762 17 0565 80894611	776 15 0303 762 10 0280	2.79	97	109	-1.54 58 83	0.24 44 107	-0.53 91	-1.36 25 87	1.00 21 108	-0.69 44 99	9.74 49 87	-4.26 34 114	4							
2027 22 0402 110893963	19 1 00 3BSB 1563 16 1225	2.61	104	107	-0.71 17 92	0.16 11 105	-0.20 97	-0.14 11 95	1.70 5 111	0.47 11 105	-2.67 32 103	3.81 16 91	1							
2027 22 0405 110893930	1590 19 0024 1298 17 0053	4.52	98	106	-0.83 20 90	0.22 19 106	-0.19 97	-0.45 10 93	-1.00 11 99	-1.20 18 96	-4.16 31 105	-0.40 19 103	1							
2027 22 0513 110893971	19 1 00 3BSB 1563 21 0091	3.02	100	104	-0.86 21 90	0.15 17 105	-0.28 96	-0.29 12 94	0.60 6 106	-0.35 16 101	-4.60 37 106	4.73 20 89	2							
1564 23 0398 100453661	1564 21 0554 1564 22 0002	9.86	87	95	-1.35 51 85	-0.30 40 93	-0.98 84	-0.42 28 93	-1.70 26 95	-2.67 41 87	11.36 37 85	-5.59 24 117	1							
2217 24 0003 110893708	1563 21 0043 106 20 0232	2.87	102	107	-0.50 11 94	0.17 10 105	-0.08 99	-0.34 7 93	0.50 6 106	-0.03 9 102	-1.30 13 101	0.30 9 101	0							
2217 24 0004 110893690	1563 21 0104 106 20 0045	2.87	102	107	-0.35 13 96	0.22 12 106	0.05 101	-0.23 10 94	0.20 7 104	0.00 11 103	3.56 15 95	-2.11 10 108	1							
2217 24 0010 110893716	1563 21 0043 106 20 0232	2.87	102	107	-0.50 11 94	0.17 10 105	-0.08 99	-0.34 7 93	0.50 6 106	-0.03 9 102	-1.30 13 101	0.30 9 101	0							
2217 24 0011 110893757	1563 21 0104 106 20 0237	2.87	102	107	-0.35 13 96	0.22 12 106	0.05 101	-0.23 10 94	0.20 7 104	0.00 11 103	3.56 15 95	-2.11 10 108	0							
2217 24 0015 110893682	1563 21 0104 1520 17 0329	3.01	96	99	-0.05 23 99	0.03 25 102	0.01 100	-0.16 12 95	-1.90 10 94	-1.16 21 96	4.85 24 94	-2.68 16 109	0							
2217 24 0016 111078531	1563 21 0043 2027 22 0402	2.78	102	106	-0.52 14 94	0.21 11 106	-0.05 99	-0.16 9 95	0.50 6 106	-0.01 11 103	-2.44 21 103	2.68 12 95	0							
2217 24 0018 111078549	1563 21 0043 2027 22 0513	3.14	100	104	-0.60 15 93	0.21 13 106	-0.09 99	-0.24 9 94	-0.10 7 103	-0.45 12 100	-3.41 23 104	3.14 13 93	0							
2217 24 0019 111078564	1563 21 0043 2027 22 0513	3.14	100	104	-0.60 15 93	0.21 13 106	-0.09 99	-0.24 9 94	-0.10 7 103	-0.45 12 100	-3.41 23 104	3.14 13 93	0							
2035 24 0019 100085083	970 22 0142 970 23 0009	21.65	108	110	-0.01 36 100	0.25 26 107	0.24 105	0.69 23 100	0.20 7 104	0.36 25 105	-12.14 40 115	2.37 22 95	0							

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	Dir		Wean Weight		Comb	Post-Wean	Number Weaned	TWW		AFL		ILP		Times EPI Lambded
							EBV	EBV	EBV	EBV				EBV	EBV	EBV	EBV	EBV	EBV	
							Acc	Index	Acc	Index	Index	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						
2217 24 0020 110893765	1700 106	21 20	0043 0079	2.87	102	107	-0.48 12	94	0.16 11	105	-0.08 99	-0.42 10	93	0.40 8	-0.09 11	0.96 13	-1.59 9	106	0	
2217 24 0021 110893773	1700 106	21 20	0043 0079	2.87	102	107	-0.48 12	94	0.16 11	105	-0.08 99	-0.42 10	93	0.40 8	-0.09 11	0.96 13	-1.59 9	106	0	
2035 24 0081 107172975	970 970	22 23	0142 0009	21.65	108	110	-0.01 36	100	0.25 26	107	0.24 105	0.69 23	100	0.20 7	0.36 25	-12.14 40	2.37 22	95	0	
2217 25 0004 111078598	1700 106	21 20	0043 0045	2.87	102	107	-0.48 12	94	0.16 11	105	-0.08 99	-0.42 10	93	0.40 8	-0.09 11	0.96 13	-1.59 9	106	0	
2217 25 0005 110893831	1700 2217	21 24	0043 0004	4.84	101	106	-0.32 14	96	0.23 13	107	0.07 102	-0.29 11	94	-0.30 8	-0.27 12	2.93 15	-2.17 10	108	0	
2217 25 0007 111081790	1700 2027	21 22	0043 0513	3.13	100	105	-0.57 16	93	0.19 14	106	-0.09 99	-0.32 12	94	-0.10 8	-0.44 13	-1.15 22	1.25 13	98	0	
2217 25 0009 111078572	1700 2027	21 22	0043 0405	4.81	99	105	-0.56 16	93	0.23 15	107	-0.05 99	-0.40 11	93	-0.90 9	-0.87 14	-0.93 20	-1.32 13	106	0	
2035 25 0039 110198025	1564 1564	22 23	0472 0398	11.25	96	95	-0.12 47	98	-0.38 36	91	-0.44 93	1.12 29	103	-0.30 25	-0.68 38	12.12 33	-3.18 23	111	0	
	Ewe flock average: Total ewes in flock: 23				100	105	-0.52	0.12	-0.13	-0.21	-0.09	-0.45	0.13	-0.29						

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
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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 Computer nr	% In-breeding	Sire ID Dam ID	1st Generation		2nd Generation		Logix Merit Index	Reprod Index	Weaning Weight		Post-Wean		Number Weaned	TWW	AFL	ILP	Dam	
			Progeny y	Number Herds	Progeny Weaned	Number Herds			Dir EBV Acc Index	Mat EBV Acc Index	Comb EBV Index							
		Active Breed Average:						100	100	-0.06	-0.02	-0.06	0.50	-0.36	-0.31	-0.30	0.15	
1	762 13 0190 74420290	4.90	762 11 0489 762 10 0077			4	2	81	78	0.39 58 104	-0.83 60 80	-0.63 89	-0.30 30 94	-6.60 30 72	-4.40 52 77	-9.69 66 112	1.13 48 99	4
2	776 15 0303 76944412	1.30	430 10 0119 776 12 0006	25	1	4	2	92	109	-2.17 83 75	0.02 69 101	-1.07 82	-2.16 40 82	1.60 36 111	-1.19 67 96	23.26 75 70	-12.13 53 135	5
3	1590 19 0024 89765408	3.34	1590 18 0024 1590 17 0006					97	108	-1.04 29 88	0.23 28 107	-0.29 95	-0.55 13 92	-1.40 16 97	-1.65 26 93	-8.83 52 111	-1.24 31 105	2
4	1590 19 0158 89803316	7.44	1590 16 0020 1590 17 0013					95	101	0.09 49 101	0.39 45 111	0.44 108	-0.22 40 94	-3.20 30 88	-1.44 43 94	4.98 50 93	-3.52 37 112	5
5	1563 19 0429 90963109	2.22	1085 17 0171 1563 18 0010					105	109	-0.32 22 96	0.20 20 106	0.04 101	0.06 11 96	1.10 5 109	0.54 17 106	-1.64 32 102	0.34 17 101	1
6	IMPA 19 1003 93214120	11.76	14 9 37 6DJL 13 9 26 8DJL	1	1			103	104	-0.75 34 91	0.24 22 107	-0.14 98	0.22 22 97	1.70 6 111	0.51 23 106	-4.97 64 106	8.56 31 78	2
7	1563 21 0043 91955013	2.90	1590 19 0224 1563 19 0103					100	104	-0.33 22 96	0.27 19 107	0.10 102	-0.18 15 95	-0.70 12 100	-0.49 19 100	-2.22 27 103	1.55 17 98	1
8	1700 21 0043 94779329	2.92	1590 19 0158 1700 17 0018					99	105	-0.29 25 96	0.24 22 107	0.09 102	-0.36 20 93	-0.80 15 100	-0.54 22 99	2.30 25 97	-2.23 18 108	3
9	1563 21 0104 91932905	2.41	1563 19 0429 1590 19 0003					99	104	-0.02 26 100	0.37 24 110	0.36 107	0.03 19 96	-1.30 14 97	-0.43 22 100	7.51 29 90	-3.28 19 111	7
10	1564 21 0554 93509388	9.05	1564 19 0124 1564 19 0136	21	1			85	97	-1.94 77 78	-0.04 50 100	-1.00 83	-0.79 36 91	-0.90 31 99	-2.51 56 88	19.03 47 76	-5.36 29 117	91 4
11	1637 22 0082 94377850	2.98	1610 18 0100 1637 16 0017					104	108	-0.11 24 99	-0.06 24 99	-0.11 98	-0.09 10 95	0.50 10 106	0.14 21 103	-1.03 45 101	-3.69 21 112	4
12	970 22 0142 95120036	2.43	430 21 0129 970 19 0126	4	2	2	1	105	105	0.01 57 100	0.00 40 101	0.01 101	0.82 38 101	0.20 10 104	0.14 40 103	-9.52 64 112	2.97 30 94	3
13	1564 22 0472 98789142	6.31	762 16 0299 1564 18 0053	25	1			106	95	1.10 79 112	-0.45 59 90	0.10 102	2.66 52 113	1.10 43 109	1.31 63 110	12.89 54 83	-0.78 39 104	86 3

		Sire Flock Average: Number of sires used in the flock: 13	98	102	-0.41	0.05	-0.16	-0.07	-0.67	-0.77	2.47	-1.36
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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 Computer nr	% In-breeding	Sire ID Dam ID	1st Generation	2nd Generation	Logix Merit Index	Repro- duction Index	Weaning Weight		Comb	Post-Wean	Number Weaned	TWW	AFL	ILP	Dam	
			Progeny Number	Progeny Number			Dir	Mat								EBV
			Weaned	Herds			Weaned	Herds	Acc Index	Acc 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	2035 24 0035 107170516	3.17	637 22 0082 970 23 0030		102	109	-0.80 18 91	0.05 17 102	-0.35 94	-0.70 7 91	1.10 6 109	-0.09 15 102	-0.10 31 100	-2.30 17 108	2	
2	2217 24 0001 110893799	2.87	563 21 0104 106 20 0045		102	107	-0.35 13 96	0.22 12 106	0.05 101	-0.23 10 94	0.20 7 104	0.00 11 103	3.56 15 95	-2.11 10 108	3	
3	2217 24 0007 110893807	2.87	563 21 0104 106 20 0237		102	107	-0.35 13 96	0.22 12 106	0.05 101	-0.23 10 94	0.20 7 104	0.00 11 103	3.56 15 95	-2.11 10 108	4	
4	2217 25 0001 110893880	2.87	700 21 0043 106 20 0243		102	107	-0.48 12 94	0.16 11 105	-0.08 99	-0.42 10 93	0.40 8 105	-0.09 11 102	0.96 13 99	-1.59 9 106	2	
5	2217 25 0002 110893872	2.87	700 21 0043 106 20 0237		102	107	-0.48 12 94	0.16 11 105	-0.08 99	-0.42 10 93	0.40 8 105	-0.09 11 102	0.96 13 99	-1.59 9 106	4	
6	2217 25 0003 110893864	2.87	700 21 0043 106 20 0045		102	107	-0.48 12 94	0.16 11 105	-0.08 99	-0.42 10 93	0.40 8 105	-0.09 11 102	0.96 13 99	-1.59 9 106	3	
7	2217 25 0006 110893856	4.84	700 21 0043 217 24 0004		101	106	-0.32 14 96	0.23 13 107	0.07 102	-0.29 11 94	-0.30 8 102	-0.27 12 101	2.93 15 96	-2.17 10 108	1	
8	2217 25 0008 111081808	3.13	700 21 0043 2027 22 0513		100	105	-0.57 16 93	0.19 14 106	-0.09 99	-0.32 12 94	-0.10 8 103	-0.44 13 100	-1.15 22 101	1.25 13 98	2	
9	1700 21 0043 94779329	2.92	590 19 0158 700 17 0018		99	105	-0.29 25 96	0.24 22 107	0.09 102	-0.36 20 93	-0.80 15 100	-0.54 22 99	2.30 25 97	-2.23 18 108	3	
10	1563 21 0104 91932905	2.41	563 19 0429 590 19 0003		99	104	-0.02 26 100	0.37 24 110	0.36 107	0.03 19 96	-1.30 14 97	-0.43 22 100	7.51 29 90	-3.28 19 111	7	
11	2217 24 0005 110893823	3.05	563 21 0043 762 17 0565		98	106	-0.94 31 89	0.25 24 107	-0.21 97	-0.77 14 91	0.10 12 104	-0.62 24 99	3.76 28 95	-1.36 19 106	4	
12	2035 25 0040 110198140	11.25	564 22 0472 564 23 0398		96	95	-0.12 47 98	-0.38 36 91	-0.44 93	1.12 29 103	-0.30 25 102	-0.68 38 99	12.12 33 84	-3.18 23 111	1	
13	2217 24 0012 110893781	3.01	563 21 0104 520 17 0329		96	99	-0.05 23 99	0.03 25 102	0.01 100	-0.16 12 95	-1.90 10 94	-1.16 21 96	4.85 24 94	-2.68 16 109	102 4	

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	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	2035 24 0081 107172975	21.65	970 22 0142 970 23 0009	108	110	-0.01 36	0.25 100	0.24 105	0.69 100	0.20 7	0.36 104	-12.14 40	2.37 22							0	
2	2035 24 0019 100085083	21.65	970 22 0142 970 23 0009	108	110	-0.01 36	0.25 100	0.24 105	0.69 100	0.20 7	0.36 104	-12.14 40	2.37 22							0	
3	2027 22 0402 110893963	2.61	19 1 00 3BSB 1563 16 1225	104	107	-0.71 17	0.16 105	-0.20 97	-0.14 95	1.70 5	0.47 105	-2.67 32	3.81 16							1	
4	2217 24 0003 110893708	2.87	1563 21 0043 106 20 0232	102	107	-0.50 11	0.17 105	-0.08 99	-0.34 93	0.50 6	-0.03 102	-1.30 101	0.30 101							0	
5	2217 24 0010 110893716	2.87	1563 21 0043 106 20 0232	102	107	-0.50 11	0.17 105	-0.08 99	-0.34 93	0.50 6	-0.03 102	-1.30 101	0.30 101							0	
6	2217 24 0004 110893690	2.87	1563 21 0104 106 20 0045	102	107	-0.35 13	0.22 106	0.05 101	-0.23 94	0.20 7	0.00 103	3.56 15	-2.11 10							1	
7	2217 24 0011 110893757	2.87	1563 21 0104 106 20 0237	102	107	-0.35 13	0.22 106	0.05 101	-0.23 94	0.20 7	0.00 103	3.56 15	-2.11 10							0	
8	2217 24 0016 111078531	2.78	1563 21 0043 2027 22 0402	102	106	-0.52 14	0.21 106	-0.05 99	-0.16 95	0.50 6	-0.01 103	-2.44 21	2.68 12							0	
9	2217 25 0004 111078598	2.87	1700 21 0043 106 20 0045	102	107	-0.48 12	0.16 105	-0.08 99	-0.42 93	0.40 8	-0.09 102	0.96 13	-1.59 9							0	
10	2217 24 0021 110893773	2.87	1700 21 0043 106 20 0079	102	107	-0.48 12	0.16 105	-0.08 99	-0.42 93	0.40 8	-0.09 102	0.96 13	-1.59 9							0	
11	2217 24 0020 110893765	2.87	1700 21 0043 106 20 0079	102	107	-0.48 12	0.16 105	-0.08 99	-0.42 93	0.40 8	-0.09 102	0.96 13	-1.59 9							0	
12	2217 25 0005 110893831	4.84	1700 21 0043 2217 24 0004	101	106	-0.32 14	0.23 107	0.07 102	-0.29 94	-0.30 8	-0.27 101	2.93 15	-2.17 10							0	
13	2027 22 0513 110893971	3.02	19 1 00 3BSB 1563 21 0091	100	104	-0.86 21	0.15 105	-0.28 96	-0.29 94	0.60 6	-0.35 101	-4.60 37	4.73 20							2	
14	2217 24 0019 111078564	3.14	1563 21 0043 2027 22 0513	100	104	-0.60 15	0.21 106	-0.09 99	-0.24 94	-0.10 7	-0.45 100	-3.41 23	3.14 13							0	
15	2217 25 0007 111081790	3.13	1700 21 0043 2027 22 0513	100	105	-0.57 16	0.19 106	-0.09 99	-0.32 94	-0.10 8	-0.44 100	-1.15 22	1.25 13							0	

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		Comb	Post-Wean	Number Weaned	TWW	AFL		ILP		EPI	Times Lambded
					Dir	Mat					EBV	EBV	EBV	EBV		
					Acc	Index	Acc	Index	EBV	Index	Acc	Index	Acc	Index	Phenotype	
Active Breed Average:			100	100	-0.06	-0.02	-0.06	0.50	-0.36	-0.31	-0.30	0.15				
16	2217 24 0018 111078549	3.14	1563 21 0043 2027 22 0513	100	104	-0.60 15 93	0.21 13 106	-0.09 99	-0.24 9 94	-0.10 7 103	-0.45 12 100	-3.41 23 104	3.14 13 93			0
17	2217 25 0009 111078572	4.81	1700 21 0043 2027 22 0405	99	105	-0.56 16 93	0.23 15 107	-0.05 99	-0.40 11 93	-0.90 9 99	-0.87 14 98	-0.93 20 101	-1.32 13 106			0
18	2027 22 0405 110893930	4.52	1590 19 0024 1298 17 0053	98	106	-0.83 20 90	0.22 19 106	-0.19 97	-0.45 10 93	-1.00 11 99	-1.20 18 96	-4.16 31 105	-0.40 19 103			1
19	762 17 0565 80894611	2.79	776 15 0303 762 10 0280	97	109	-1.54 58 83	0.24 44 107	-0.53 91	-1.36 25 87	1.00 21 108	-0.69 44 99	9.74 49 87	-4.26 34 114			4
20	2035 25 0039 110198025	11.25	1564 22 0472 1564 23 0398	96	95	-0.12 47 98	-0.38 36 91	-0.44 93	1.12 29 103	-0.30 25 102	-0.68 38 99	12.12 33 84	-3.18 23 111			0
21	2217 24 0015 110893682	3.01	1563 21 0104 1520 17 0329	96	99	-0.05 23 99	0.03 25 102	0.01 100	-0.16 12 95	-1.90 10 94	-1.16 21 96	4.85 24 94	-2.68 16 109			0
22	1520 17 0329 81153983	2.25	762 13 0190 1520 14 0038	92	94	-0.09 39 99	-0.30 43 93	-0.34 94	-0.36 15 93	-2.50 15 92	-1.89 35 92	2.20 39 97	-2.07 25 108	102	4	
23	1564 23 0398 100453661	9.86	1564 21 0554 1564 22 0002	87	95	-1.35 51 85	-0.30 40 93	-0.98 84	-0.42 28 93	-1.70 26 95	-2.67 41 87	11.36 37 85	-5.59 24 117			1