

Ile de France Genetic Analysis

SA Stud Book

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FDM: LEHA



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.

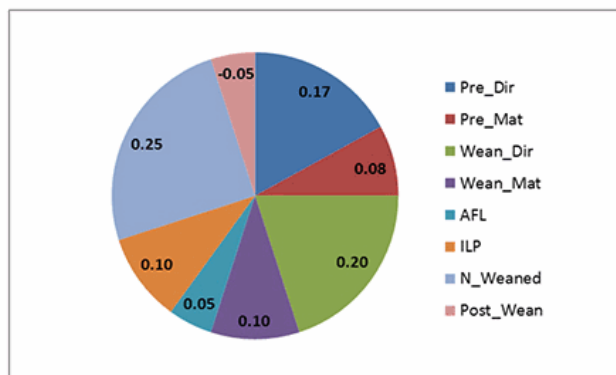
Selection Indices

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.

The available selection indices, their purpose and the contribution of the different traits to the indices are summarised below:

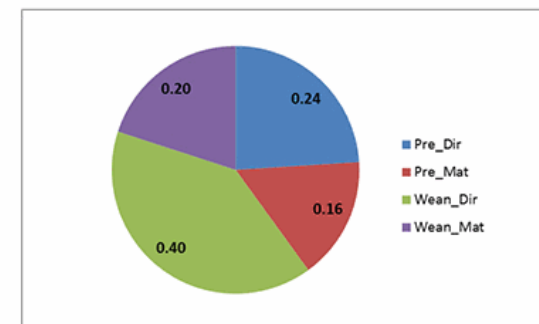
Logix Merit Index (LMI)

This index combines all the traits to select for a balanced, profitable animal that is fertile and delivers a desirable level of production while not reaching very large adult weights. Very large animals require more feed to meet their maintenance requirements, which makes them more expensive to keep and more likely to struggle during difficult times. Since large animals in a breeding flock are unfavourable, a penalty is placed on Post-Wean Weight EBV (indicated by the negative value) in the index. 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, give multiple lambs and has lower maintenance requirements. This value is especially important for sustainability, which requires the selection of good, productive replacement animals for the flock.



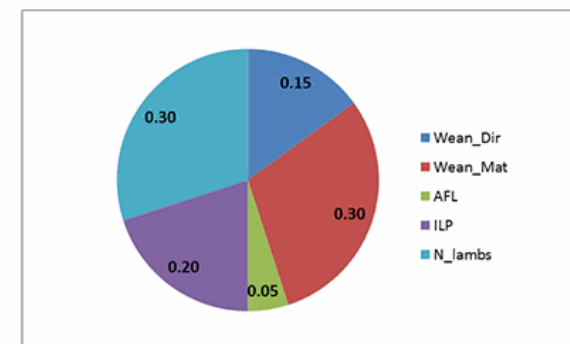
Growth Index (GI)

This encompasses growth for the period up until weaning and is especially important to farmers who sell lambs at or near the time of weaning. Strong emphasis is placed on direct weights, while still allowing the breeding of daughters that will have the ability to raise lambs more efficiently to reach their own genetic potential.



Reproduction Index (RI)

This includes Weaning Weight (Direct and Maternal), combined with Number of Lambs Weaned as indication of Total Weight Weaned (TWW) and therefore the ewe's overall productivity. More emphasis is placed on the Maternal compared to the Direct Weaning Weight EBV. Age at First Lambing and Inter-lambing Period are included to select for ewes that lamb earlier and regularly. This is especially an important index to consider in the development of a dam line.



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.

Ile de France

Genetic Averages of Animals

Trait	Flock			Breed		
	All	Rams	Ewes	All	Rams	Ewes
Pre-wean Direct	0.25	0.16	0.32	0.27	0.39	0.22
Pre-wean Maternal	0.42	0.40	0.43	0.04	0.00	0.06
Pre-wean Combined	0.54	0.48	0.58	0.18	0.20	0.17
Weaning Weight Direct	0.73	0.46	0.95	0.50	0.71	0.42
Weaning Weight Mat	0.46	0.42	0.49	0.07	0.04	0.08
Weaning Weight Comb	0.82	0.65	0.96	0.32	0.40	0.29
Post-wean Weight	0.42	0.18	0.60	0.30	0.52	0.22
Lambs Weaned	-0.58	0.13	-1.12	0.34	0.35	0.34
Total Weight Weaned	0.84	0.95	0.76	0.77	0.97	0.70
Age at First Lambing	1.49	3.55	-0.12	-0.46	-0.71	-0.37
Inter-lambing Period	-0.59	-1.46	0.09	0.05	0.17	0.01
Selection Index						
Logix Merit Index	105	104	105	100	102	100
Growth Index	108	106	110	100	102	100
Reproduction Index	106	106	106	100	100	100
Inbreeding						
Inbreeding coefficient (%)	8.10	7.36	8.68	6.81	7.16	6.68
Number of Animals						
Number of animals	16	7	9	10496	2776	7713

** Averages of all active animals in the flock.

Breeding Value Indices

Trait	Flock **		
	All	Rams	Ewes
Pre-wean Direct	100.2	98.8	101.3
Pre-wean Maternal	112.2	111.7	112.5
Pre-wean Combined	109.5	108.0	110.7
Weaning Weight Direct	103.1	100.0	105.6
Weaning Weight Mat	112.3	111.1	113.1
Weaning Weight Comb	109.5	106.3	112.0
Post-wean weight	102.0	99.3	104.1
Lambs Weaned	96.9	99.5	94.9
Total Weight Weaned	100.9	101.5	100.4
Age First Lambing	96.2	88.1	102.4
Inter-lambing Period	101.3	103.5	99.6
Selection Indices			
Logix Merit Index	104.5	103.7	105.2
Growth Index	108.3	105.5	110.4
Reproduction Index	106.3	106.4	106.2
Inbreeding			
Inbreeding (%)	8.10	7.36	8.68
Number of Animals			
Number of animals	16	7	9

** Averages of all active animals in the flock.

Inbreeding

Notes

- 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

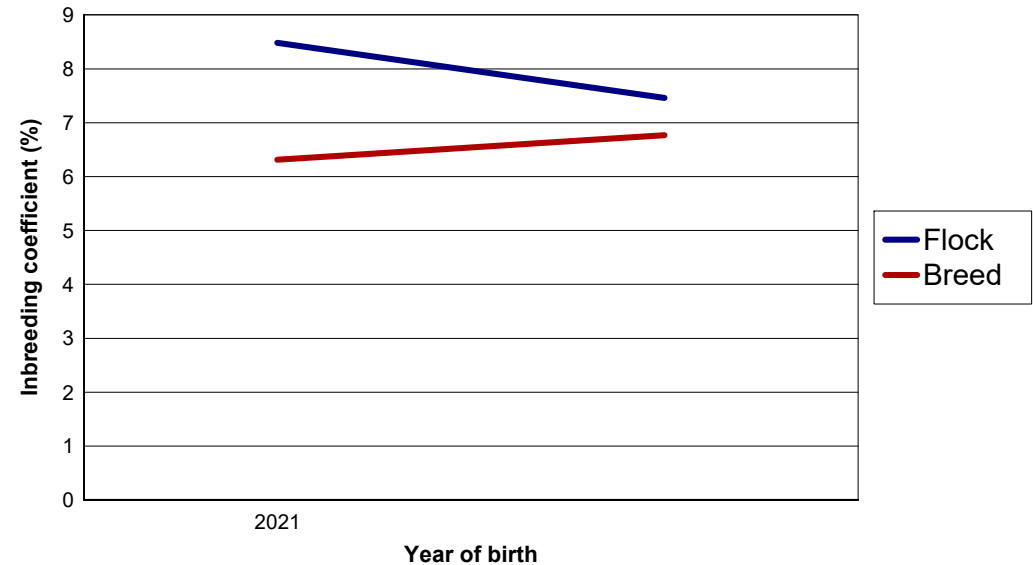
Progeny with Parents :	25%
Full Brother x Full Sister :	25%
Half Brother x Half Sister :	12.5%
One Common Grandparent :	6.25%
One Common Great-Grandparent :	3.125%

Level and Rate of Inbreeding

Year of Birth	Level* (%)	Rate (% / year)
2021 - 2022	7.46	-1.02
Recommended:	< 6.25	< 0.1 - 0.2

*Of the last year of birth

Rate of Inbreeding



Pedigree Information

	Animals	%
Known sires	16	100
Known dams	16	100

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

Genetic Windows

Genetic Linkage of Flock

(Based on the youngest measured generation)

Level	Nr of Link Rams
Geen / None	0

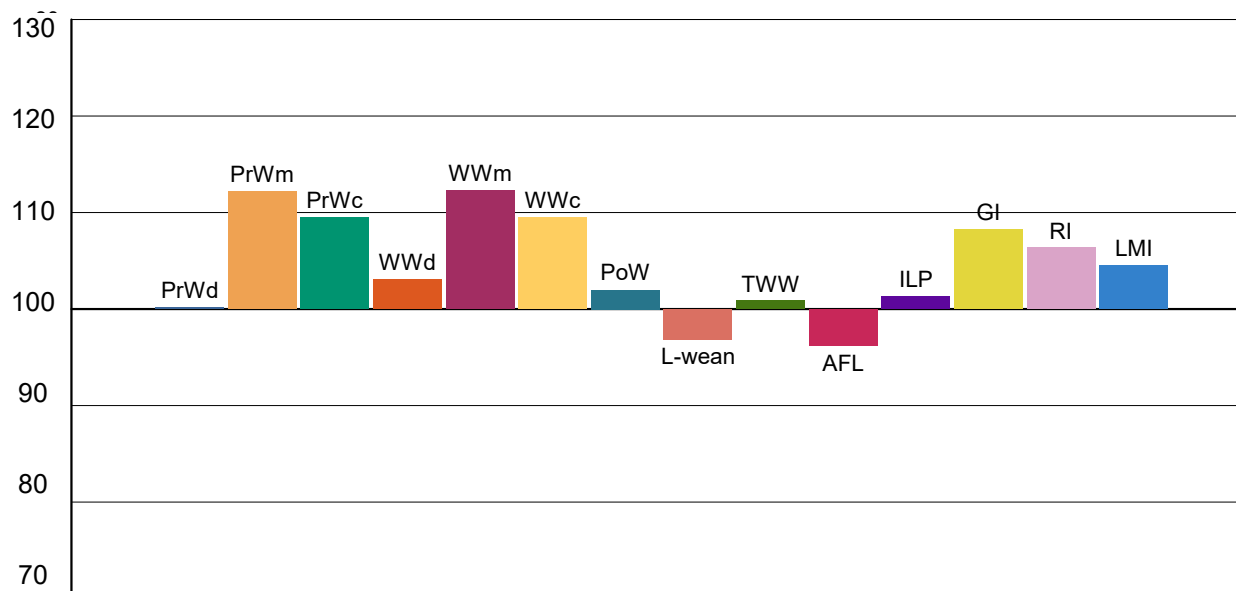
A link ram should have at least 20 measured progeny in your flock and at least another 20 measured progeny in at least one more flock.

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

PrWd:	Pre-Wean Direct
PrWm:	Pre-Wean maternal
PrWc:	Pre-Wean Combined
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
GI:	Growth Index
RI:	Reproduction Index

All animals in flock

Number: 16



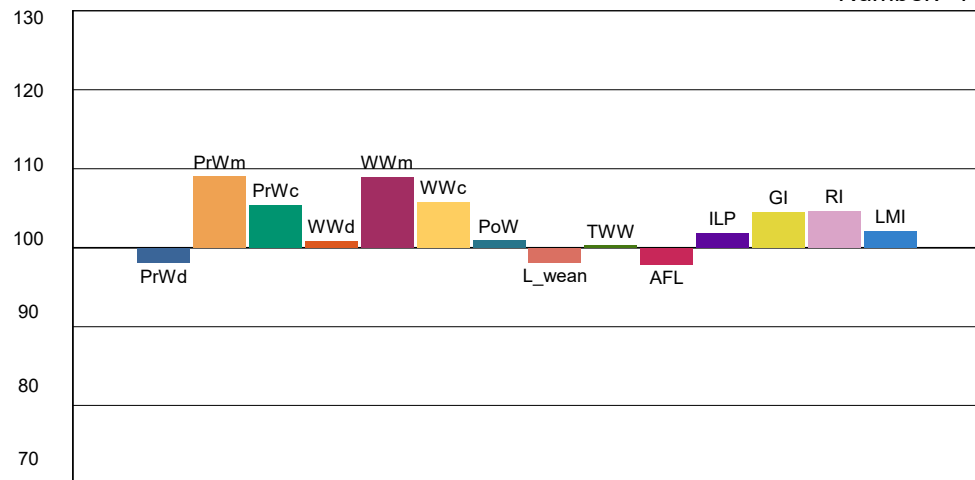
The genetic windows allow a quick overview of the genetic status of the flock compared to the breed. The values presented here are the average EBV indices of all the active animals of the flock, of the dams and sires of the active animals of the flock, as well as of the ewes and rams younger than 2 years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

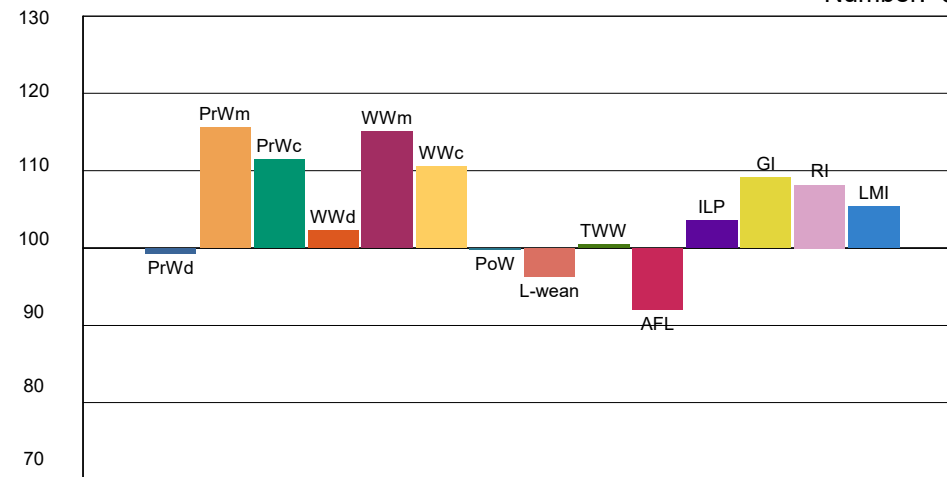
Dams

Number: 14



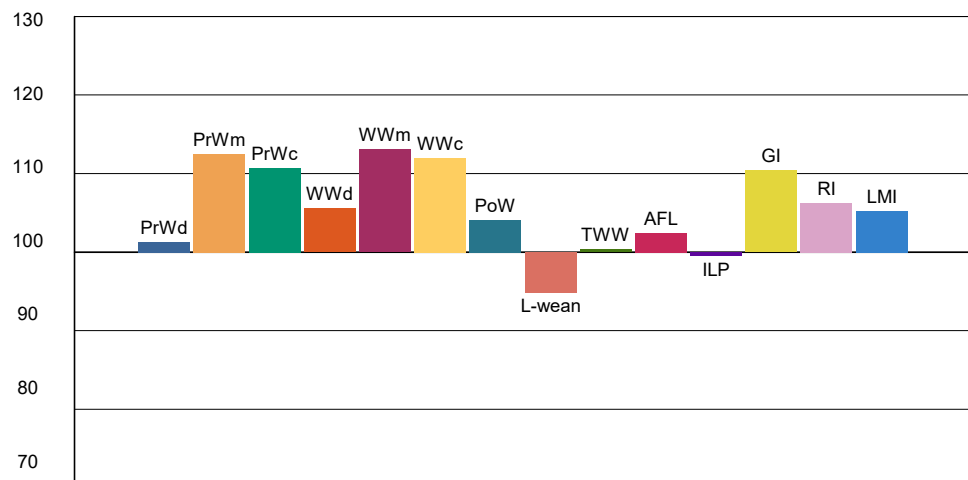
Sires

Number: 3



Young Ewes

Number: 9



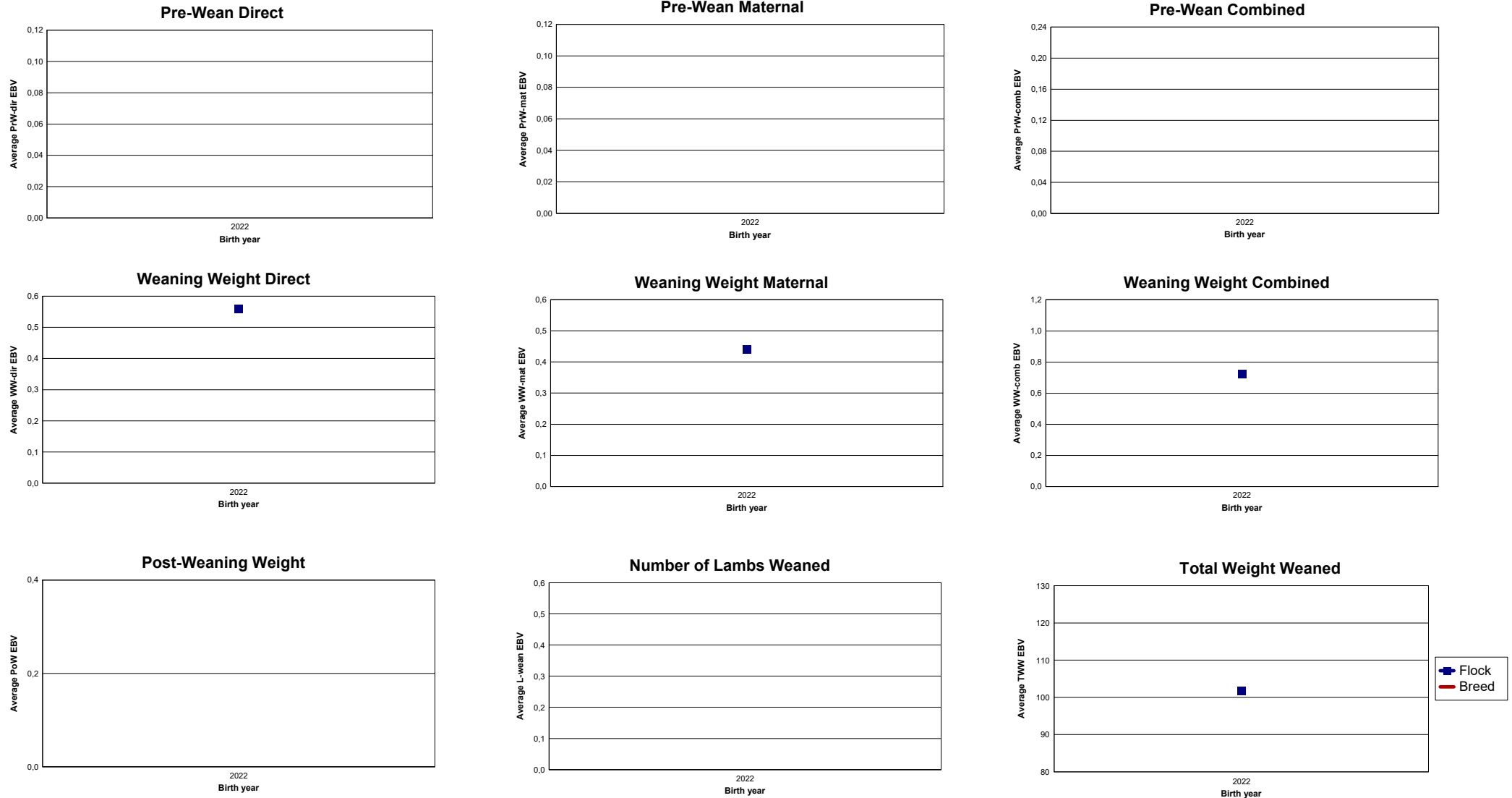
Young Rams

Number: 7



Genetic Trends

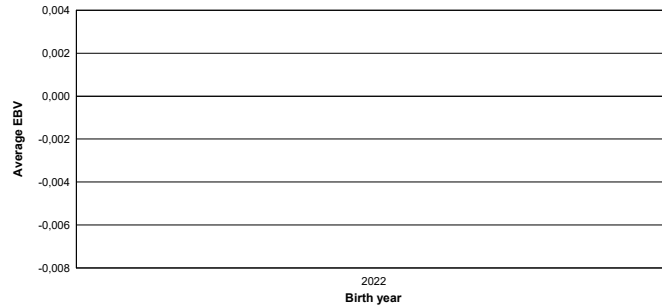
Genetic trends are based on measured animals that were bred by the specific breeder.



Genetic Trends

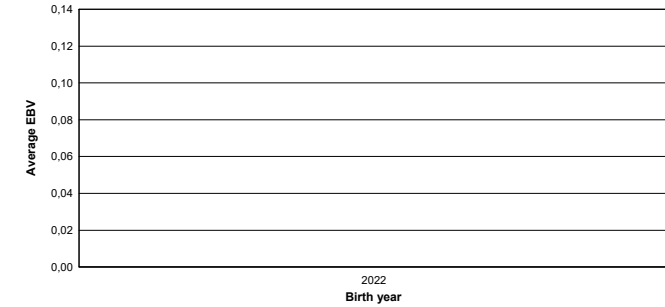
Genetic trends are based on measured animals that were bred by the specific breeder.

Age at First Lambing

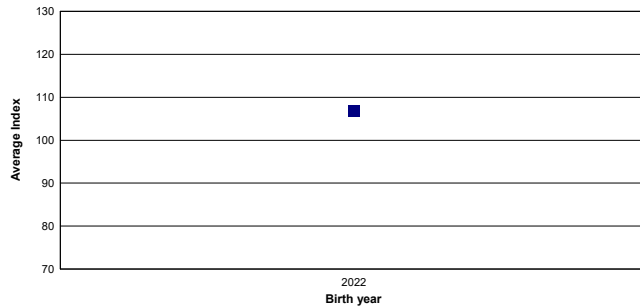


For AFL and ILP flock genetic trends below breed averages are desirable.

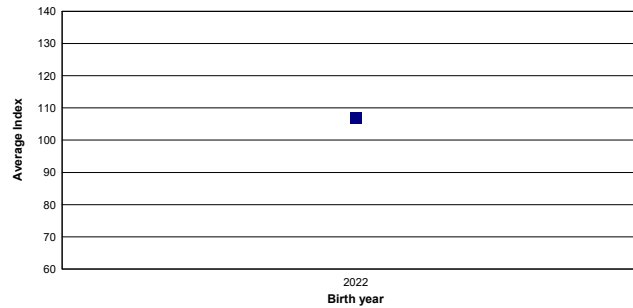
Inter-lambing Period



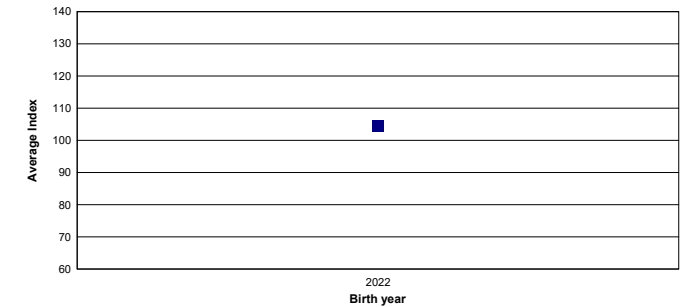
Growth Index (GI)



Reproduction Index (RI)



Logix Merit Index (LMI)



Genetic Trends of Breed

Birth Year	Pre-Wean EBV			Weaning Weight EBV			Post Wean		Lambs Weaned		TWW		AFL		ILP	
	Anim	Dir	Mat	Anim	Dir	Mat	Anim	EBV	Anim	EBV	Anim	EBV	Anim	EBV	Anim	EBV
2014	1572	-0.38	0.11	1722	-0.47	0.07	94	-0.55	877	0.43	1722	95	944	-0.07	678	-0.09
2015	2521	-0.40	0.03	2767	-0.43	-0.03	80	-1.03	1045	0.33	2767	94	1142	0.35	793	-0.47
2016	2430	-0.33	0.00	2668	-0.30	-0.03	11	-0.58	956	0.42	2668	94	960	0.63	662	-0.69
2017	3278	-0.26	-0.04	3670	-0.29	-0.08	74	-0.42	1018	0.36	3670	95	1033	0.26	741	-0.84
2018	3211	-0.28	0.04	3362	-0.30	0.02	224	-0.46	1048	0.74	3362	94	952	-0.03	715	-0.49
2019	3092	-0.23	0.07	3203	-0.13	0.05	614	0.15	929	0.61	3200	97	911	-0.45	672	-0.83
2020	2897	0.00	0.00	2962	0.00	0.00	540	0.00	821	0.00	2962	97	863	0.00	631	0.00
2021	3253	-0.02	0.03	3308	0.06	0.02	497	0.20	894	0.24	3308	97	1056	-0.48	668	-0.18
2022	3914	0.11	0.07	4125	0.29	0.08	474	0.36	794	0.34	4125	98	1010	-0.01	529	0.12
2023	3532	0.21	0.06	3660	0.41	0.07	289	0.76	387	0.38	3660	99	677	-0.94	105	-0.51
2024	3494	0.30	0.05	3642	0.56	0.07	774	0.52	23	0.53	3642	101	55	-0.58		
2025	940	0.32	0.10	996	0.61	0.12	298	0.59			996	102				

Genetic Trends of Flock

Birth Year	Pre-Wean EBV			Weaning Weight EBV			Post Wean		Lambs Weaned		TWW		AFL		ILP	
	Anim	Dir	Mat	Anim	Dir	Mat	Anim	EBV	Anim	EBV	Anim	EBV	Anim	EBV	Anim	EBV
2022				8	0.56	0.44					8	102				

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

Traits	AVG	SA*	Min	Percentiles (%)																Max
				1	5	10	20	25	30	40	50	60	70	75	80	90	95	99		
Pre-wean Weight Direct	0.27	0.76	-2.60	-1.34	-0.91	-0.65	-0.34	-0.24	-0.15	0.04	0.23	0.41	0.62	0.74	0.86	1.24	1.58	2.34	3.96	
Pre-wean WEigh Maternal	0.04	0.36	-1.72	-0.80	-0.51	-0.39	-0.25	-0.19	-0.14	-0.06	0.03	0.12	0.22	0.28	0.34	0.51	0.62	0.88	1.59	
Weaning Weight Direct	0.50	1.03	-3.50	-1.95	-1.21	-0.79	-0.33	-0.16	-0.01	0.27	0.51	0.75	1.00	1.13	1.30	1.75	2.19	3.17	5.51	
Weaning Weight Maternal	0.07	0.37	-1.70	-0.82	-0.51	-0.37	-0.23	-0.17	-0.13	-0.03	0.05	0.15	0.26	0.32	0.39	0.55	0.67	0.93	1.72	
Weaning weight Combined	0.32	0.63	-2.18	-1.30	-0.78	-0.49	-0.19	-0.07	0.03	0.20	0.35	0.50	0.65	0.73	0.82	1.09	1.32	1.75	3.34	
Post-Wean Weight	0.30	1.03	-3.68	-2.16	-1.41	-1.00	-0.53	-0.37	-0.23	0.03	0.28	0.54	0.83	0.98	1.14	1.64	2.03	2.76	5.37	
Number of Lambs Weaned	0.34	3.10	-12.00	-7.00	-4.70	-3.60	-2.10	-1.60	-1.20	-0.40	0.30	1.10	1.80	2.20	2.70	4.20	5.40	8.20	16.60	
Total Weight Weaned	0.77	2.00	-7.74	-3.86	-2.54	-1.72	-0.86	-0.54	-0.27	0.26	0.75	1.24	1.78	2.08	2.40	3.28	4.09	5.63	10.22	
Age at First Lambing	-0.46	-3.65	27.29	8.27	5.15	3.69	2.21	1.67	1.26	0.46	-0.26	-1.01	-1.88	-2.36	-2.97	-4.97	-6.68	-10.85	-27.38	
Interlambing Period	0.05	-4.60	19.47	11.53	7.89	6.04	3.78	2.99	2.23	0.99	-0.19	-1.22	-2.33	-2.97	-3.67	-5.52	-7.24	-10.54	-22.55	
Growth Index	101	12	59	72	81	86	91	93	95	98	101	104	107	108	110	115	120	129	158	
Reproduction Index	100	11	50	72	81	86	91	93	94	97	100	103	106	108	110	115	119	127	154	
Logix Merit Index	100	12	56	73	81	86	91	93	95	98	101	103	107	108	110	115	119	128	150	

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

All Active Rams

Trait	AVG	SA*	Min	Percentiles (%)															Max
				1	5	10	20	25	30	40	50	60	70	75	80	90	95	99	
Pre-wean Weight Direct	0.39	0.74	-2.06	-1.19	-0.71	-0.46	-0.22	-0.11	-0.01	0.17	0.35	0.53	0.70	0.80	0.92	1.30	1.78	2.45	3.96
Pre-wean Weight Maternal	0.00	0.31	-1.00	-0.71	-0.49	-0.38	-0.26	-0.21	-0.17	-0.09	-0.02	0.06	0.15	0.21	0.29	0.45	0.56	0.72	0.98
Weanweight Direct	0.71	1.01	-2.61	-1.68	-0.90	-0.52	-0.11	0.06	0.22	0.47	0.70	0.92	1.15	1.30	1.46	1.94	2.48	3.46	5.51
Weanweight Maternal	0.04	0.32	-1.11	-0.68	-0.45	-0.35	-0.22	-0.18	-0.14	-0.06	0.02	0.10	0.21	0.26	0.34	0.49	0.60	0.79	1.05
Weanweight Combined	0.40	0.60	-2.18	-1.06	-0.59	-0.37	-0.09	0.02	0.11	0.28	0.42	0.56	0.70	0.79	0.87	1.14	1.41	1.81	3.06
Post-Wean Weight	0.52	0.98	-2.96	-1.68	-1.04	-0.69	-0.29	-0.15	-0.02	0.23	0.49	0.75	1.01	1.15	1.33	1.76	2.17	2.91	4.12
Number of Lambs Weaned	0.35	2.78	-9.00	-6.30	-4.30	-3.30	-1.90	-1.50	-1.00	-0.30	0.30	1.00	1.70	2.10	2.70	3.90	4.90	7.00	9.50
Total Weight Weaned	0.97	1.81	-5.29	-3.13	-1.91	-1.27	-0.59	-0.31	-0.05	0.49	0.94	1.40	1.91	2.19	2.49	3.31	3.98	5.17	6.62
Age at First Lambing	-0.71	-3.42	14.13	7.18	4.40	3.12	1.78	1.37	0.98	0.28	-0.40	-1.17	-2.03	-2.52	-3.12	-4.98	-6.57	-10.32	-18.29
Interlambing Period	0.17	-4.10	16.35	10.32	7.18	5.65	3.51	2.72	2.10	0.97	-0.09	-0.95	-1.99	-2.52	-3.13	-4.75	-6.12	-9.56	-19.92
Growth Index	103	11	64	76	85	89	94	96	97	100	103	106	108	110	112	117	122	131	147
Reproduction Index	100	10	64	76	83	87	92	94	95	98	100	103	106	108	109	114	117	124	133
Logix Merit Index	102	11	58	76	85	88	93	95	96	99	102	105	108	109	111	115	120	127	150

All Active Ewes

Trait	AVG	SA*	Min	Percentiles (%)															Max
				1	5	10	20	25	30	40	50	60	70	75	80	90	95	99	
Pre-wean Weight Direct	0.22	0.76	-2.60	-1.39	-0.97	-0.72	-0.40	-0.29	-0.18	0.00	0.18	0.36	0.59	0.71	0.83	1.21	1.51	2.31	3.46
Pre-wean Weight Maternal	0.06	0.37	-1.72	-0.85	-0.52	-0.39	-0.24	-0.19	-0.13	-0.04	0.05	0.14	0.24	0.30	0.36	0.53	0.65	0.93	1.59
Weanweight Direct	0.42	1.03	-3.50	-2.04	-1.30	-0.88	-0.42	-0.23	-0.08	0.19	0.44	0.68	0.94	1.07	1.23	1.68	2.09	2.94	4.99
Weanweight Maternal	0.08	0.38	-1.70	-0.86	-0.53	-0.39	-0.23	-0.17	-0.12	-0.02	0.07	0.17	0.28	0.33	0.40	0.57	0.70	0.98	1.72
Weanweight Combined	0.29	0.64	-2.18	-1.36	-0.83	-0.54	-0.22	-0.09	-0.01	0.17	0.32	0.48	0.63	0.71	0.81	1.06	1.29	1.70	3.34
Post-Wean Weight	0.22	1.04	-3.68	-2.23	-1.53	-1.10	-0.61	-0.44	-0.31	-0.05	0.20	0.46	0.74	0.90	1.08	1.58	1.96	2.69	5.37
Number of Lambs Weaned	0.34	3.21	-12.00	-7.30	-4.90	-3.70	-2.20	-1.70	-1.20	-0.50	0.30	1.10	1.80	2.30	2.80	4.30	5.60	8.80	16.60
Total Weight Weaned	0.70	2.06	-7.74	-4.08	-2.70	-1.87	-0.98	-0.65	-0.35	0.19	0.68	1.18	1.73	2.03	2.36	3.27	4.13	5.82	10.22
Age at First Lambing	-0.37	-3.73	27.29	8.42	5.37	3.91	2.38	1.79	1.34	0.52	-0.19	-0.96	-1.83	-2.31	-2.92	-4.94	-6.73	-11.14	-27.38
Interlambing Period	0.01	-4.77	19.47	11.85	8.15	6.20	3.88	3.09	2.30	1.00	-0.22	-1.32	-2.50	-3.16	-3.85	-5.82	-7.58	-10.85	-22.55
Growth Index	100	12	59	71	80	85	90	92	94	97	100	103	106	107	109	115	119	127	158
Reproction Index	100	12	50	71	81	85	90	92	94	97	100	103	106	108	110	115	119	128	154
Logix Merit Index	100	12	56	72	81	85	90	92	94	97	100	103	106	108	110	115	119	128	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

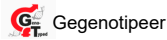
Indices above 124
Above breed average
Indices below 76

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				Selection Indices			EBV - Weights								EBV - Fertility					
Animal	Parents			% In-breeding	Logix	Growth	Repro-	PreW	PreW	PreW	Wean	Wean	Wean	Post	Lambs	TWW	AFL	ILP	Dam	
Regnumber	Sires	Dams			Merit	Index	duction	Dir	Mat	Comb	Dir	Mat	Comb	Wean	Weaned				EPI	Times
					Index		Index	EBV	EBV	EBV	EBV	EBV	EBV	EBV	Acc	Acc	Acc	Acc	Lambd	
								Acc	Index	Acc	Index	Acc	Index	Acc	Index	Acc	Index	Acc	Index	
Active breed average:					100	100	100	0.27	0.04	0.18	0.50	0.07	0.32	0.30	0.34	0.77	-0.46	0.05		
EL 21 0005	BS 17 0111			5.90	104	102	108	0.10	0.37	0.42	0.12	0.37	0.43	-0.07	1.50	1.39	5.96	-2.73	108	4
92037761	EL 16 0031							59 98	54 111	107	67 96	49 109	102	35 96	46 105	55 104	41 79	35 107		
LEHA 22 0001	EL 21 0005			8.91	95	105	97	0.19	0.36	0.46	0.43	0.37	0.58	0.09	-0.90	0.25	12.35	1.35	98	1
95222865	EL 21 0003							39 99	34 110	107	51 100	32 109	105	24 98	29 96	39 98	28 64	23 96		
LEHA 22 0002	EL 21 0005			7.80	102	102	107	-0.09	0.43	0.38	0.12	0.42	0.48	-0.20	0.00	0.54	2.25	-3.38	99	1
95222808	EL 21 0027							38 95	32 113	106	51 96	31 111	103	22 95	28 99	38 99	28 92	22 108		
LEHA 22 0003	EL 21 0005			7.79	106	108	108	0.23	0.49	0.61	0.58	0.53	0.82	0.30	0.10	1.16	3.09	-0.61	106	1
95222782	EL 21 0028							38 100	33 115	111	52 101	33 114	109	24 101	29 99	39 103	29 89	24 101		
LEHA 22 0005	EL 21 0005			7.98	109	108	111	0.21	0.43	0.53	0.71	0.46	0.82	0.33	0.20	1.29	-0.06	-3.47	100	1
95222907	EL 21 0040							38 100	32 113	109	51 103	31 112	109	22 101	28 100	38 103	28 99	22 109		
LEHA 22 0006	EL 21 0005			6.84	100	103	103	-0.01	0.37	0.36	0.27	0.37	0.51	0.11	-0.60	0.28	0.96	-0.54	97	1
95222840	EL 21 0043							38 96	33 111	105	51 98	32 110	104	24 99	29 97	39 98	29 96	23 101		
LEHA 22 0008	EL 21 0005			6.28	110	111	110	0.48	0.37	0.61	0.96	0.44	0.92	0.71	0.60	1.76	0.28	-0.81	100	1
95222923	EL 21 0048							38 104	33 111	111	51 106	31 112	111	22 105	29 101	38 106	28 98	22 102		
Ram Herd Average:					104	106	106	0.16	0.40	0.48	0.46	0.42	0.65	0.18	0.13	0.95	3.55	-1.46		
Total rams in herd: 7																				

Ewes



*Inbreeding in red is high

EBV - Estimated Breeding Value

Indices above 124
Above breed average
Indices below 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			Selection Indices			EBV - Weights								EBV - Fertility					
Animal	Parents		% In-breeding	Logix Merit Index	Growth Index	Reproduction Index	PreW Dir	PreW Mat	PreW Comb	Wean Dir	Wean Mat	Wean Comb	Post Wean	Lambs Weaned	TWW	AFL	ILP	EPI	Times Lambded
Comp.no.	Sire	Dam					EBV Acc Index	EBV Acc Index	EBV Index	EBV Acc Index	EBV Acc Index	EBV Index	EBV Acc Index	EBV Acc Index	EBV Acc Index	EBV Acc Index	EBV Acc Index	Phenotype	
Active breed average:				100	100	100	0.27	0.04	0.18	0.50	0.07	0.32	0.30	0.34	0.77	-0.46	0.05		
EL 21 0003 93623239	EL 19 0086 EL 17 0050		6.18	89	110	88	0.44 50 103	0.33 41 109	0.55 110	1.05 51 107	0.36 41 109	0.88 111	0.51 32 103	-3.30 35 87	-0.57 43 93	18.74 37 64	5.43 30 86	98	1
EL 21 0027 93623254	EL 19 0086 EL 19 0139		7.14	100	102	107	-0.29 47 92	0.48 35 115	0.34 104	0.09 49 96	0.48 38 113	0.52 104	-0.34 26 93	-1.50 31 94	-0.33 41 94	-1.47 37 104	-4.04 27 110	99	1
EL 21 0028 93623262	EL 19 0086 EL 19 0033		16.01	106	113	108	0.29 48 101	0.62 39 119	0.77 116	0.90 52 105	0.68 43 120	1.14 115	0.56 32 104	-1.30 36 94	0.81 45 101	0.23 40 98	1.51 32 96	106	1
EL 21 0040 93623296	EL 19 0086 EL 19 0126		7.59	108	108	113	-0.05 46 96	0.53 35 116	0.50 109	0.63 48 102	0.57 38 116	0.88 111	0.16 27 99	-1.10 31 95	0.54 40 99	-6.08 37 119	-4.21 26 110	100	1
EL 21 0043 93623320	EL 19 0086 EL 19 0085		15.87	101	110	101	0.32 48 101	0.30 39 108	0.46 108	1.25 50 109	0.36 41 109	0.99 113	1.00 32 109	-2.80 34 89	-0.07 43 96	-4.04 40 112	1.64 31 96	97	1
EL 21 0047 93623338	EL 19 0086 EL 18 0092		5.62	113	116	111	0.72 48 108	0.34 37 110	0.70 114	1.55 49 112	0.46 39 112	1.23 117	1.28 28 112	-0.40 33 98	1.77 41 106	-6.07 37 119	0.92 27 98	99	1
EL 21 0048 93623346	EL 19 0086 EL 18 0092		5.62	114	117	111	0.77 48 108	0.38 37 111	0.76 115	1.63 49 113	0.51 39 114	1.32 119	1.35 28 113	-0.40 33 98	1.90 41 107	-5.40 37 117	1.11 27 97	100	1
LEHA 22 0004 95222881	EL 21 0005 EL 21 0028		7.79	106	109	108	0.28 38 101	0.49 33 115	0.63 112	0.66 52 102	0.52 33 114	0.86 110	0.37 24 102	0.10 29 99	1.25 39 103	3.09 29 89	-0.61 24 101		0
LEHA 22 0007 95222824	EL 21 0005 EL 21 0047		6.28	108	108	109	0.37 38 102	0.36 33 110	0.55 110	0.75 51 103	0.42 31 111	0.79 109	0.53 22 103	0.60 29 101	1.53 38 105	-0.05 28 99	-0.91 22 102		0
Ewe Herd Average:				105	110	106	0.32	0.43	0.58	0.95	0.49	0.96	0.60	-1.12	0.76	-0.12	0.09		
Total ewes in herd: 9																			

Sires used in Flock



Génotypeur

*Inbreeding in red is high

EBV - Estimated Breeding Value

Indices above 124
Above breed average
Indices below 76

Acc: Accuracy of the breeding value
EBV's 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

Dier Inligting		Ouers & Nageslag						Seleksie Indekse			EBV - Gewigte								EBV - Vrugbaarheid					
Animal ID Regnr	% In-breeding	Sire ID Dam ID	1st Gen		2nd Gen		Logix Merit Index	Growth Index	Repro-duction Index	Pre-wean Weight			Wean Weight			Post Wean	Lambs Weaned	TWW	AFL	ILP	Dam			
			Progeny weaned	Number herds	Progeny weaned	Number herds				Dir	Mat	Comb	Dir	Mat	Comb									
										EBV Acc	EBV Index	EBV Index	EBV Acc	EBV Index	EBV Index								EBV Acc	EBV Index
		Active Breed Average:						100	100	100	0.27	0.04	0.18	0.50	0.07	0.32	0.30	0.34	0.77	-0.46	0.05			
BS 17 0111 80262819	5.76	AB 12 0025 EL 11 0110	223	4	97	4	104	103	111	-0.20 96 93	0.53 89 116	0.43 107	0.04 96 95	0.52 83 114	0.54 104	-0.34 57 93	0.60 77 101	0.92 87 101	3.36 73 88	-3.99 59 110	108	6		
EL 19 0086 83463869	1.64	HIS 00 0070 EL 16 0005	9	2	9	1	108	122	106	0.66 71 107	0.65 56 120	0.98 121	1.82 71 116	0.76 56 122	1.67 125	1.11 46 110	-4.30 51 83	0.00 61 96	-2.92 53 109	2.30 45 94	108	4		
EL 21 0005 92037761	5.90	BS 17 0111 EL 16 0031	8	1			104	102	108	0.10 59 98	0.37 54 111	0.42 107	0.12 67 96	0.37 49 109	0.43 102	-0.07 35 96	1.50 46 105	1.39 55 104	5.96 41 79	-2.73 35 107	108	4		
		Sire Flock Average: Number of sires used in flock: 3						105	109	108	0.19	0.52	0.61	0.66	0.55	0.88	0.23	0.34	0.77	2.13	-1.47			

Ram Selection list: LMI

Animals are sorted on LMI

*Inbreeding in red is high

EBV - Estimated Breeding Value

Indices above 124
Bokant rasgemiddeld
Indices below 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		Parents & Progeny				Selection Indices			EBV - Weights								EBV - Fertility								
Animal ID Computer nr	% In-breeding	Sire ID Dam ID	1st Gen		2nd Gen	Logix Merit Index	Growth Index	Repro-duction Index	PreW Dir	PreW Mat	PreW Comb	Wean Dir	Wean Mat	Wean Comb	Post Wean	Lambs Weane	TWW	AFL	ILP	Dam					
			Progeny Number weaned	Progeny Number herds					EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV	EBV	EPI	Times Lamb ed
									Acc	Index	Acc	Index	Index	Index	Index	Index	Index	Index	Index	Index	Index	Index	Index	Index	Index
			Active breed average:			100	100	100	0.27	0.04	0.18	0.50	0.07	0.32	0.30	0.34	0.77	-0.46	0.05						
1 LEHA 22 0008 95222923	6.28	EL 21 0005 EL 21 0048				110	111	110	0.48 38	0.37 104	0.61 111	0.96 51	0.44 31	0.92 111	0.71 22	0.60 29	1.76 101	0.28 38	-0.81 28	-0.81 102	100	1			
2 LEHA 22 0005 95222907	7.98	EL 21 0005 EL 21 0040				109	108	111	0.21 38	0.43 100	0.53 109	0.71 51	0.46 31	0.82 109	0.33 22	0.20 28	1.29 100	-0.06 38	-3.47 103	-3.47 22	109	100	1		
3 LEHA 22 0003 95222782	7.79	EL 21 0005 EL 21 0028				106	108	108	0.23 38	0.49 100	0.61 33	0.58 115	0.53 111	0.82 109	0.30 24	0.10 29	1.16 99	3.09 39	-0.61 103	-0.61 24	101	106	1		
4 EL 21 0005 92037761	5.90	BS 17 0111 EL 16 0031	8	1		104	102	108	0.10 59	0.37 98	0.42 54	0.12 111	0.37 107	0.43 67	-0.07 96	1.50 46	1.39 105	5.96 55	-2.73 104	-2.73 41	107	108	4		
5 LEHA 22 0002 95222808	7.80	EL 21 0005 EL 21 0027				102	102	107	-0.09 38	0.43 95	0.38 32	0.12 113	0.42 106	0.48 51	-0.20 96	0.00 28	0.54 99	2.25 38	-3.38 92	-3.38 28	108	99	1		
6 LEHA 22 0006 95222840	6.84	EL 21 0005 EL 21 0043				100	103	103	-0.01 38	0.37 96	0.36 33	0.27 111	0.37 105	0.51 51	0.11 98	-0.60 29	0.28 97	0.96 39	-0.54 98	-0.54 23	101	97	1		
7 LEHA 22 0001 95222865	8.91	EL 21 0005 EL 21 0003				95	105	97	0.19 39	0.36 99	0.46 34	0.43 110	0.37 109	0.58 32	0.09 105	-0.90 29	0.25 96	12.35 39	1.35 98	1.35 28	96	98	1		



Ewe Selection list: LMI

Animals are sorted on LMI

*Inbreeding in red is high

EBV - Estimated Breeding Value

Indices above 124
Bokant rasgemiddeld
Indices below 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		Parents		Selection Indices			EBV - Weights								EBV - Fertility					
Animal ID	% In-breeding	Sire ID Dam ID		Logix Merit Index	Growth Index	Reproduction Index	PreW Dir	PreW Mat	PreW Comb	Wean Dir	Wean Mat	Wean Comb	Post Wean	Lambs Weaned	TWW	AFL	ILP	EPI	Times Lambed	
Comp.no.							EBV Acc	EBV Index	EBV Acc	EBV Index	EBV Acc	EBV Index	EBV Acc	EBV Index	EBV Acc	EBV Index	EBV Acc	EBV Index	Phenotype	
Active breed average:				100	100	100	0.27	0.04	0.18	0.50	0.07	0.32	0.30	0.34	0.77	-0.46	0.05			
1	EL 21 0048 93623346	5.62	EL 19 0086 EL 18 0092	114	117	111	0.77 48	0.38 108	0.76 115	1.63 49	0.51 39	1.32 119	1.35 28	-0.40 33	1.90 41	-5.40 37	1.11 27	100	1	
2	EL 21 0047 93623338	5.62	EL 19 0086 EL 18 0092	113	116	111	0.72 48	0.34 108	0.70 114	1.55 49	0.46 39	1.23 117	1.28 28	-0.40 33	1.77 41	-6.07 37	0.92 27	99	1	
3	EL 21 0040 93623296	7.59	EL 19 0086 EL 19 0126	108	108	113	-0.05 46	0.53 96	0.50 109	0.63 48	0.57 38	0.88 111	0.16 27	-1.10 31	0.54 40	-6.08 37	-4.21 26	100	1	
4	LEHA 22 0007 95222824	6.28	EL 21 0005 EL 21 0047	108	108	109	0.37 38	0.36 102	0.55 110	0.75 51	0.42 31	0.79 109	0.53 22	0.60 29	1.53 38	-0.05 28	-0.91 22		0	
5	EL 21 0028 93623262	16.01	EL 19 0086 EL 19 0033	106	113	108	0.29 48	0.62 101	0.77 116	0.90 52	0.68 43	1.14 115	0.56 32	-1.30 36	0.81 45	0.23 40	1.51 32	106	1	
6	LEHA 22 0004 95222881	7.79	EL 21 0005 EL 21 0028	106	109	108	0.28 38	0.49 101	0.63 112	0.66 52	0.52 33	0.86 110	0.37 24	0.10 29	1.25 39	3.09 29	-0.61 24		0	
7	EL 21 0043 93623320	15.87	EL 19 0086 EL 19 0085	101	110	101	0.32 48	0.30 101	0.46 108	1.25 50	0.36 41	0.99 113	1.00 32	-2.80 34	-0.07 43	-4.04 40	1.64 31	97	1	
8	EL 21 0027 93623254	7.14	EL 19 0086 EL 19 0139	100	102	107	-0.29 47	0.48 92	0.34 104	0.09 49	0.48 38	0.52 104	-0.34 26	-1.50 31	-0.33 41	-1.47 37	-4.04 27	99	1	
9	EL 21 0003 93623239	6.18	EL 19 0086 EL 17 0050	89	110	88	0.44 50	0.33 103	0.55 110	1.05 51	0.36 41	0.88 111	0.51 32	-3.30 35	-0.57 43	18.74 37	5.43 30	98	1	