

Dormer Genetic Analysis

SA Stud Book
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1501

dormer



FDM: SSNP



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 persists 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 to 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 indicate desirability for the traits and lower indices are undesirable. This makes it easy to identify superior animals for all traits.

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

Selection Indices

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

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

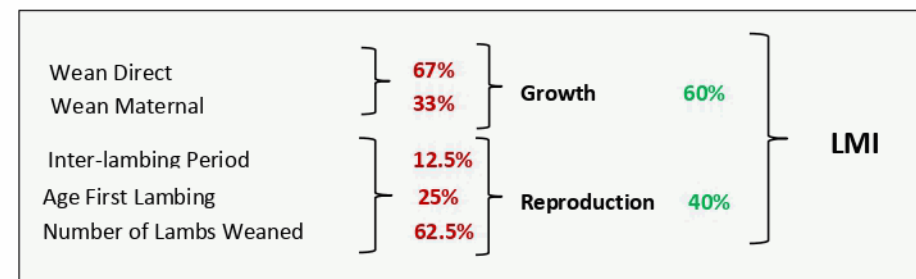
Logix Merit Index (LMI)

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

The **LMI** is constructed as follows :

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

Schematically the LMI can be explained as follows :



Growth Index (GI)

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

The GI is constructed as follows :

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

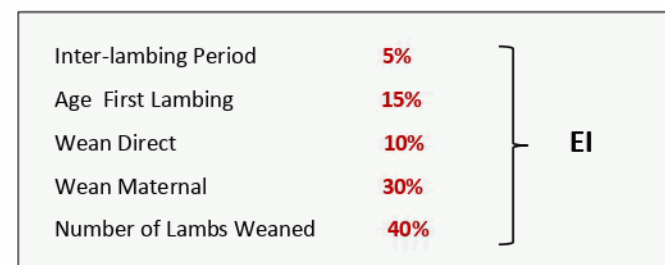
Ewe Index (EI)

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

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

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

Schematically it can be explained as follows :



Active Genetic Levels

Breeding Values

Trait	Flock **			Breed		
	All	Rams	Ewes	All	Rams	Ewes
Weaning Weight Direct	-0.15	2.56	-0.45	1.41	1.81	1.24
Weaning Weight Maternal	0.67	-0.75	0.83	-0.03	-0.10	0.00
Weaning Weight Combined	0.60	0.53	0.60	0.67	0.80	0.62
Post-wean Weight	-0.53	1.91	-0.81	0.83	1.31	0.62
Number Lambs Weaned	1.07	2.10	0.96	0.27	0.33	0.25
Total Weight Weaned	1.16	3.07	0.95	1.54	1.91	1.39
Age at First Lambing	2.18	1.23	2.29	0.67	0.67	0.67
Interlambing Period	-5.03	-3.16	-5.24	0.57	0.81	0.46
Selection Indices						
Logix Merit Index	100	111	98	103	105	102
Ewe Index	109	106	109	103	104	103
Growth Index	96	107	94	103	105	102
Inbreeding						
Inbreeding (%)	5.90	6.17	5.87	7.40	7.60	7.31
Number of Animals						
Number of Animals	12	1	11	25237	7540	17684

** Averages of all active animals in the flock.

Breeding Value Indices

Trait	Flock **		
	All	Rams	Ewes
Weaning Weight Direct	87.9	108.6	85.6
Weaning Weight Maternal	108.5	91.6	110.4
Weaning Weight Comb	99.3	98.7	99.4
Post-wean Weight	93.1	105.7	91.7
Number Lambs Weaned	103.0	106.5	102.6
Total Weight Weaned	98.5	106.7	97.6
Age First Lambing	97.1	98.8	96.9
Interlambing Period	117.0	111.4	117.6
Selection Indices			
Logix Merit Index	99.5	110.7	98.3
Ewe Index	108.9	105.8	109.3
Growth Index	95.6	107.4	94.2
Inbreeding			
Inbreeding (%)	5.90	6.17	5.87
Number of Animals			
Number of Animals	12	1	11

** Averages of all active animals in the flock.

Inbreeding

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

Inbreeding Levels for Specific Matings

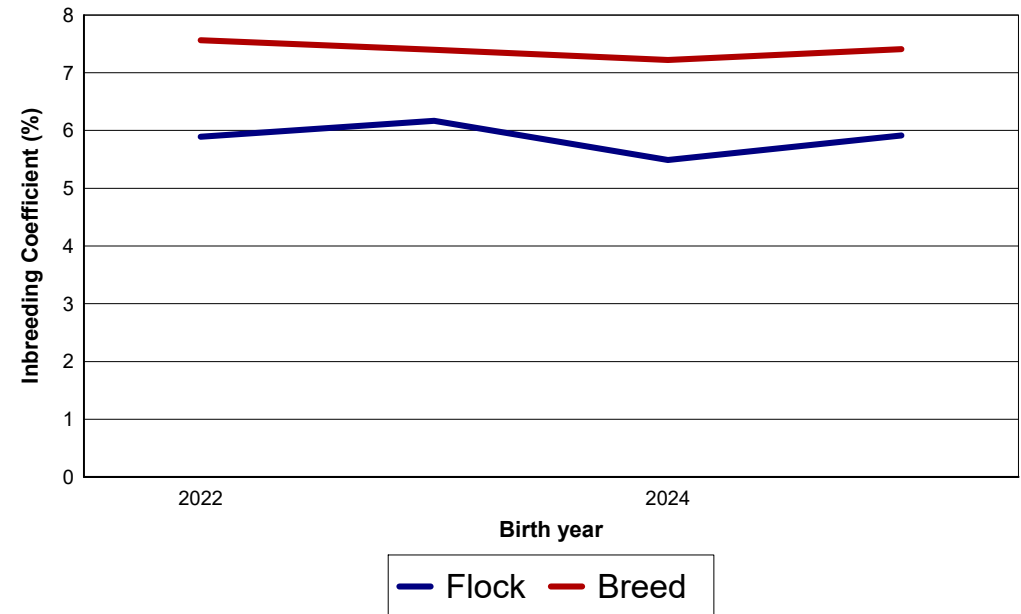
Progeny with Parents :	25%
Full Brother x Full Sister :	25%
Half Brother x Half Sister :	12.5%
One Common Grandparent :	6.25%
One Common Great-Grandparent :	3.125%

Level and Rate of Inbreeding

Year of Birth	Level* (%)	Rate (% / year)
2022 - 2025	5.91	0.01
Recommended:	< 6.25	< 0.1 - 0.2

*Of the last year of birth

Average Inbreeding per Year of Birth



Pedigree Information

	Number	%
Known Sires	10	83
Known Dams	10	83

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

Genetic Windows

Genetic Linkage

(Based on the youngest measured generation)

Level	Nr of Link Rams

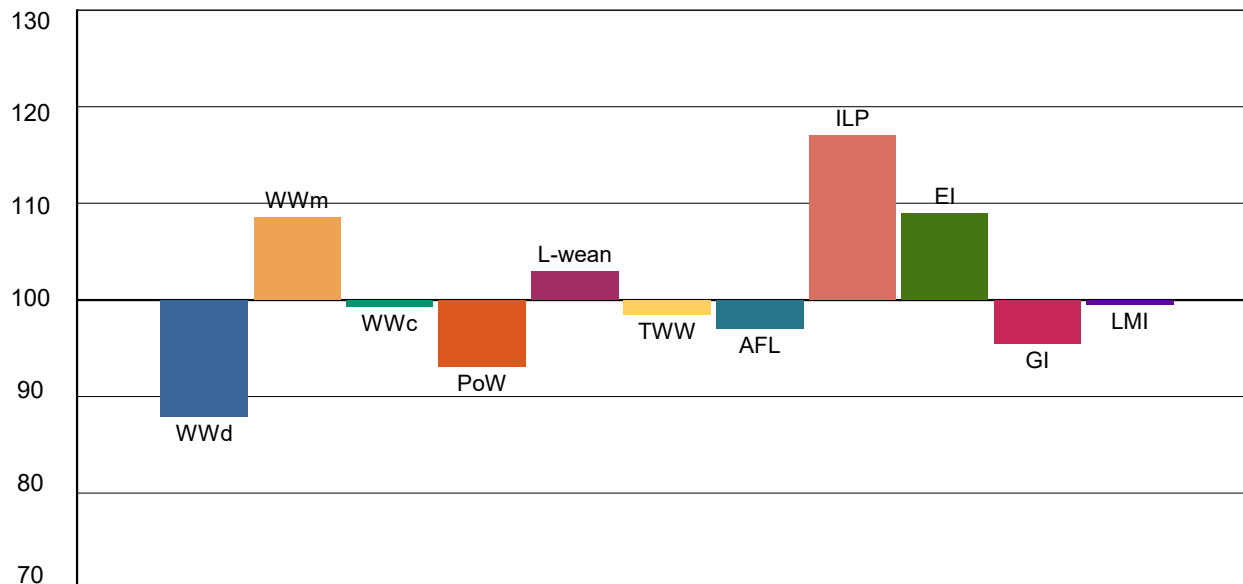
A link ram should have at least 20 measured progeny in your flock and at least another 20 measured progeny in at least one more flock.

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

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

All animals in flock

Number: 10



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

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

Genetic Windows

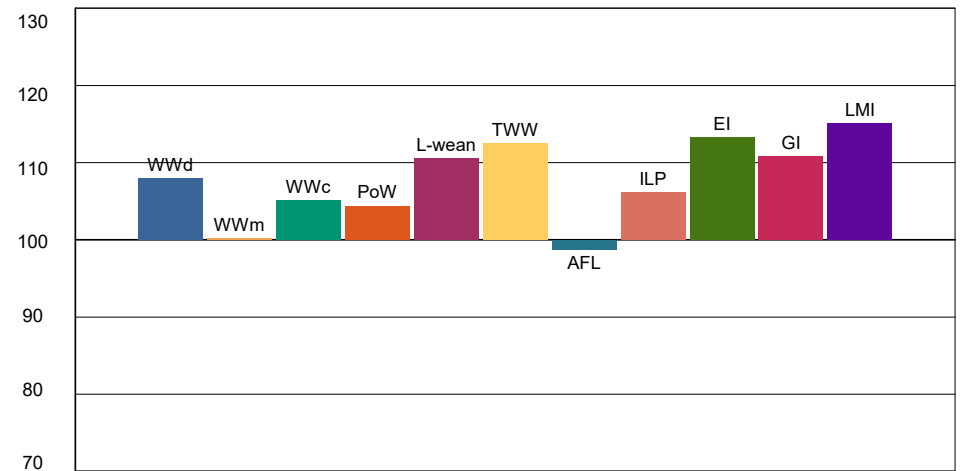
Dams

Number: 7



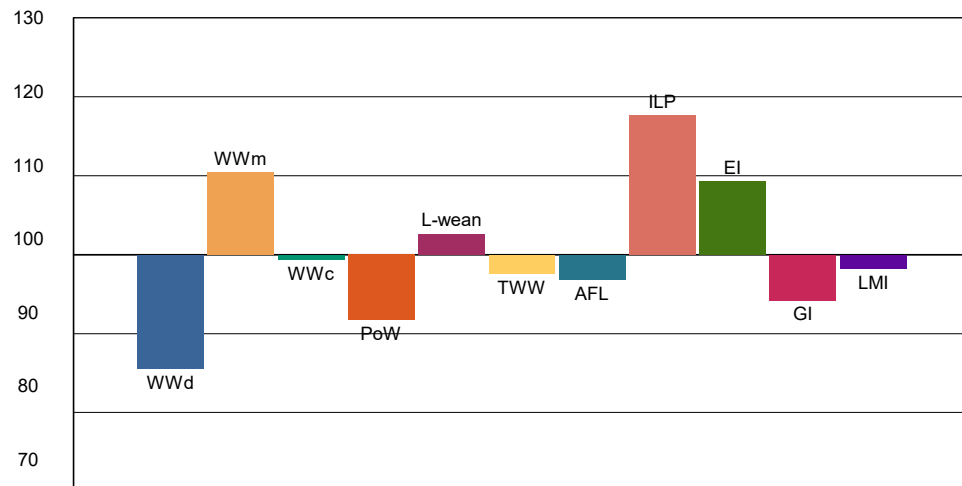
Sires

Number: 4



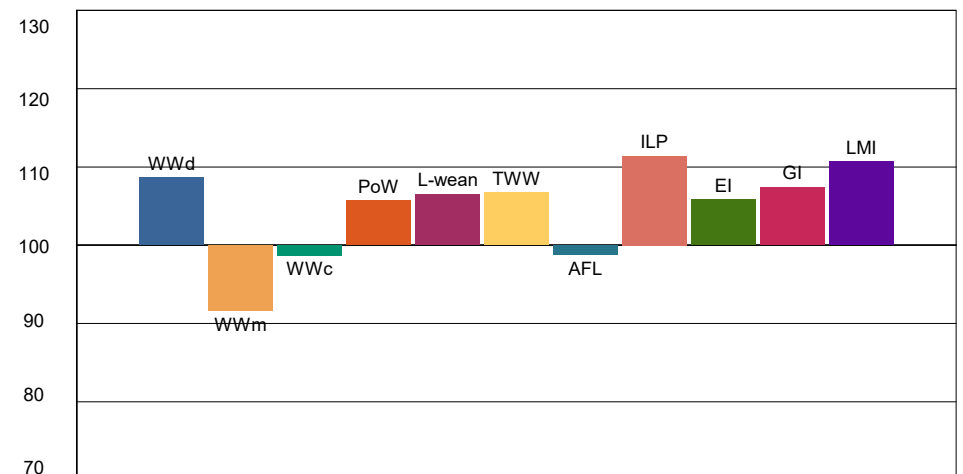
Young Ewes

Number: 9



Young Rams

Number: 1



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				Post-wean		Lambs Weaned		TWW		AFL		ILP		EI	LMI
	Number	Dir	Mat	Comb	Number	EBV	Number	EBV	Number	EBV	Number	EBV	Number	EBV		
2014	11795	-1.21	-0.12	-0.73	3359	-1.89	2735	0.10	11795	88	2802	-0.43	1869	0.31	100	88
2015	10537	-1.14	-0.04	-0.61	2249	-2.35	2556	-0.54	10537	88	2589	-0.23	1733	0.46	100	88
2016	11125	-0.90	-0.07	-0.52	2606	-2.03	2653	0.20	11125	90	2603	-0.21	1882	0.36	100	90
2017	10555	-0.74	-0.07	-0.45	2067	-1.00	2488	0.30	10555	91	2432	-0.07	1655	0.06	100	91
2018	11181	-0.38	-0.06	-0.25	2944	-0.89	2759	-0.04	11181	91	2603	0.26	1923	0.30	100	92
2019	10894	-0.29	0.04	-0.11	1270	0.47	2812	0.00	10894	93	2733	-0.34	1947	0.37	102	94
2020	10324	0.00	0.00	0.00	2195	0.00	2418	0.00	10324	94	2498	0.00	1831	0.00	101	95
2021	11647	0.43	0.08	0.29	2124	0.78	2877	0.14	11647	96	2899	-0.08	1842	0.95	102	97
2022	11484	0.85	0.19	0.62	2069	1.19	2276	0.16	11484	98	2425	0.60	1324	0.47	102	99
2023	11525	1.22	0.07	0.67	1647	1.70	1822	0.26	11525	99	2187	1.16	379	0.42	102	101
2024	10291	1.42	-0.06	0.65	2371	1.94	241	1.87	10291	100	463	-0.59			103	103
2025	6244	1.97	-0.12	0.86	370	2.47			6244	103					105	107

Genetic Trends of Flock

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

Breeding Value & Selection Index Percentiles

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

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

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

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

All Active Animals

Trait	Avg	SD*	Min	Percentiles (%)															Max
				1	5	10	20	25	30	40	50	60	70	75	80	90	95	99	
Weaning Weight Direct	1.42	1.61	-7.18	-3.24	-1.29	-0.60	0.14	0.42	0.66	1.10	1.51	1.92	2.32	2.54	2.77	3.33	3.74	4.57	11.21
Weaning Weight Maternal	-0.03	0.99	-3.38	-2.06	-1.47	-1.16	-0.78	-0.65	-0.53	-0.30	-0.09	0.13	0.37	0.50	0.66	1.08	1.49	2.71	11.26
Weaning Weight Combined	0.67	1.22	-3.82	-1.88	-1.09	-0.69	-0.23	-0.05	0.10	0.40	0.66	0.91	1.19	1.33	1.49	1.95	2.38	3.68	16.21
Post-Wean Weight	0.83	2.32	-10.53	-4.65	-2.93	-2.15	-1.16	-0.75	-0.41	0.25	0.88	1.49	2.11	2.44	2.80	3.70	4.54	6.12	12.36
Number of Lambs Weaned	0.27	3.48	-15.90	-6.70	-4.60	-3.60	-2.40	-2.00	-1.60	-0.90	-0.10	0.60	1.50	2.00	2.70	4.80	7.00	10.50	25.30
Total Weight Weaned	1.55	2.78	-9.15	-4.34	-2.50	-1.64	-0.62	-0.25	0.09	0.69	1.29	1.90	2.60	3.03	3.54	5.09	6.64	9.37	21.53
Age at First Lambing	0.67	-6.30	42.88	18.89	12.98	9.00	4.63	3.38	2.40	1.04	-0.06	-1.12	-2.36	-3.06	-3.82	-5.92	-7.88	-12.87	-43.44
Interlambing Period	0.57	-4.11	27.03	10.51	6.86	5.30	3.62	3.01	2.45	1.45	0.53	-0.35	-1.34	-1.85	-2.43	-4.09	-5.63	-9.24	-31.86
Growth Index	103	12	58	75	83	88	93	95	97	100	103	106	109	111	113	117	121	129	155
Ewe Index	103	12	56	76	84	88	94	95	97	100	103	106	109	111	113	119	124	133	154
Logix Merit Index	103	12	61	77	85	89	93	95	97	100	103	106	109	111	113	119	124	132	149

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

Breeding Value & Selection Index Percentiles

All Active Rams

Trait	Avg	SD*	Min	Percentiles (%)															Max
				1	5	10	20	25	30	40	50	60	70	75	80	90	95	99	
Weaning Weight Direct	1.81	1.38	-4.77	-1.42	-0.50	0.00	0.62	0.84	1.08	1.49	1.87	2.22	2.62	2.81	3.02	3.52	3.91	4.61	9.62
Weaning Weight Maternal	-0.10	0.84	-2.64	-1.82	-1.36	-1.10	-0.77	-0.65	-0.54	-0.32	-0.13	0.06	0.27	0.39	0.52	0.88	1.22	2.09	9.95
Weaning Weight Combined	0.80	1.05	-2.24	-1.37	-0.77	-0.43	-0.02	0.14	0.29	0.54	0.78	1.00	1.27	1.40	1.56	2.00	2.38	3.44	14.74
Post-Wean Weight	1.31	2.14	-7.68	-3.53	-2.18	-1.47	-0.57	-0.21	0.14	0.78	1.35	1.88	2.49	2.82	3.12	4.05	4.79	6.15	10.61
Number of Lambs Weaned	0.33	3.28	-10.50	-5.70	-4.20	-3.30	-2.20	-1.90	-1.50	-0.80	-0.10	0.60	1.40	1.90	2.50	4.50	7.00	10.30	13.90
Total Weight Weaned	1.91	2.59	-5.26	-3.12	-1.79	-1.10	-0.16	0.18	0.46	1.01	1.60	2.19	2.88	3.30	3.81	5.34	6.85	9.20	18.83
Age at First Lambing	0.67	-5.83	42.88	18.08	12.67	8.74	4.32	3.04	2.09	0.80	-0.21	-1.24	-2.36	-2.97	-3.64	-5.46	-7.28	-10.32	-22.43
Interlambing Period	0.81	-3.46	26.60	9.49	6.33	4.88	3.42	2.89	2.36	1.45	0.66	-0.14	-1.02	-1.45	-1.94	-3.30	-4.44	-6.54	-13.54
Growth Index	106	11	70	81	88	92	97	98	100	103	106	108	111	113	115	118	122	129	155
Ewe Index	104	11	64	78	85	89	94	96	98	101	103	106	109	111	113	118	123	132	142
Logix Merit Index	105	11	68	82	88	91	96	97	99	102	104	108	111	113	115	120	125	132	144

All Active Ewes

Trait	Avg	SD*	Min	Percentiles (%)															Max
				1	5	10	20	25	30	40	50	60	70	75	80	90	95	99	
Weaning Weight Direct	1.25	1.67	-7.18	-3.81	-1.53	-0.86	-0.08	0.22	0.48	0.94	1.36	1.77	2.18	2.40	2.64	3.21	3.65	4.53	11.21
Weaning Weight Maternal	0.00	1.05	-3.38	-2.14	-1.52	-1.18	-0.79	-0.65	-0.52	-0.29	-0.07	0.16	0.41	0.56	0.72	1.17	1.62	2.85	11.26
Weaning Weight Combined	0.62	1.28	-3.82	-2.03	-1.23	-0.79	-0.31	-0.14	0.03	0.32	0.59	0.87	1.15	1.30	1.46	1.93	2.37	3.78	16.21
Post-Wean Weight	0.63	2.36	-10.53	-4.91	-3.18	-2.39	-1.39	-0.98	-0.62	0.04	0.64	1.27	1.92	2.27	2.61	3.54	4.38	6.12	12.36
Number of Lambs Weaned	0.25	3.56	-15.90	-7.10	-4.90	-3.80	-2.50	-2.00	-1.60	-0.90	-0.10	0.60	1.50	2.10	2.70	4.90	7.00	10.60	25.30
Total Weight Weaned	1.39	2.84	-9.15	-4.65	-2.73	-1.87	-0.79	-0.43	-0.09	0.53	1.15	1.77	2.46	2.89	3.40	4.97	6.57	9.41	21.53
Age at First Lambing	0.67	-6.49	31.08	19.18	13.11	9.22	4.79	3.50	2.53	1.15	0.02	-1.07	-2.35	-3.10	-3.93	-6.08	-8.20	-14.12	-43.44
Interlambing Period	0.46	-4.36	27.03	11.00	7.10	5.46	3.73	3.08	2.48	1.44	0.47	-0.46	-1.52	-2.05	-2.71	-4.51	-6.11	-10.28	-31.86
Growth Index	102	12	58	74	82	86	92	94	96	99	102	105	109	110	112	116	120	129	155
Ewe Index	103	12	56	75	84	88	93	95	97	100	103	106	109	111	113	119	124	134	154
Logix Merit Index	102	12	61	75	84	88	92	94	96	99	102	105	108	110	112	118	123	132	149

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

Rams



Genotyped

Inbreeding in red is high

EBV - Estimated Breeding Value

Indices >=124
Above breed average
Indices <= 76

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

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

Animal Information				Selection Indices			EBV - Weights				EBV - Fertility									
Animal ID Regnr		Parents Sire Dam		% In- breeding	Logix Merit Index	Growth Index	Ewe Index	Wean Weight		Comb	Post-Wean	Number Weaned	TWW	AFL	ILP	Dam				
								Dir	Mat								Comb	Post-Wean	Number Weaned	TWW
								Dir	Mat	Comb	Post-Wean									
								EBV Acc Index	EBV Acc Index	EBV Index	EBV Acc Index	EBV Acc Index	EBV Acc Index	EBV Acc Index	EBV Acc Index	EPI Times Lambd				
Active Breed Average:				100	100	100		1.41	-0.03	0.67	0.83	0.27	1.54	0.67	0.57					
D 23 0192 97620835		D 22 0019 D 20 0101		6.17	111 107 106		2.56		-0.75		0.53		1.91		2.10 3.07		1.23 -3.16		106 3	
							55 109		47 92		99		39 106		36 107 48 107		32 99 27 111			
Ram Flock Average: Number of rams in the flock: 1				111	107	106		2.56	-0.75	0.53	1.91	2.10	3.07	1.23	-3.16					

Ewes



Inbreeding in red is high

EBV - Estimated Breeding Value

Indices >=124
Above breed average
Indices <= 76

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

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

Animal Information				Selection Indices			EBV - Weights				EBV - Fertility								
Animal ID Regnr	Parents Sire Dam		% In- breeding	Logix Merit Index	Growth Index	Ewe Index	Wean Weight		Post-Wean		Number Weaned	TWW		AFL		ILP		EPI	Times Lambd
							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	EBV Acc Index	Phenotype	
Active Breed Average:				100	100	100	1.41	-0.03	0.67	0.83	0.27	1.54	0.67	0.57					
PDD 22 0020 93631109	SL 20 0017 PDD 20 0215	5.92	94	93	106	-0.92 55 82	1.21 47 115	0.75 101	-1.36 39 89	-1.30 32 95	-0.49 47 91	2.00 32 97	-5.75 25 119	91	1				
PDD 22 0071 94538444	SL 20 0017 PDD 18 0014	5.56	87	85	103	-1.94 54 74	1.10 45 114	0.13 95	-2.28 27 84	-1.30 32 95	-1.62 45 87	3.02 35 96	-5.37 28 118	2					
PDD 22 0088 94696812	SL 20 0017 PDD 18 0085	5.56	101	101	112	-0.41 54 86	1.94 45 124	1.73 110	-0.44 27 94	-1.30 32 95	0.74 45 97	1.25 35 99	-6.70 28 122	2					
SSNP 24 0005 100855378	SWH 21 0030 PDD 22 0113	6.22	101	90	119	-1.11 35 81	0.88 27 111	0.32 97	-1.71 28 87	5.10 19 117	2.83 28 106	3.93 19 94	-4.63 14 116	0					
SSNP 24 0006 100855451	SWH 21 0030 PDD 22 0020	5.26	107	100	117	0.48 44 93	0.64 35 108	0.88 102	-0.86 34 91	4.40 25 114	3.76 36 110	4.03 25 94	-2.62 19 110	0					
SSNP 25 0002 109823112	D 23 0192 PDD 22 0113	6.22	96	90	108	-0.77 27 83	0.46 23 106	0.08 94	-0.57 20 93	1.10 18 103	0.36 23 95	1.51 16 98	-6.46 13 121	0					
SSNP 25 0003 109823096	D 23 0192 PDD 22 0088	5.61	106	104	109	1.08 39 97	0.59 33 108	1.13 104	0.73 24 100	0.40 24 101	1.91 33 102	1.24 24 99	-4.93 19 117	0					
SSNP 25 0005 110328770	D 23 0192 PDD 22 0071	5.61	99	96	104	0.31 39 91	0.17 33 103	0.33 97	-0.18 24 95	0.40 24 101	0.72 33 97	2.12 24 97	-4.26 19 115	0					
SSNP 25 0006 110328762	D 23 0192 PDD 22 0114	6.22	96	90	107	-0.76 27 83	0.46 23 106	0.08 94	-0.57 20 93	1.10 18 103	0.36 23 95	1.51 16 98	-6.46 13 121	0					
Ewe flock average: Total ewes in flock: 9				98	94	109	-0.45	0.83	0.60	-0.81	0.96	0.95	2.29	-5.24					

Sires Used in Flock



Genotyped

*Inbreeding in red is high

EBV - Estimated Breeding Value

Indices ≥ 124
Above breed average
Indices ≤ 76

Acc: Accuracy of the breeding value
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 Regnr	% In-breeding	Sire ID Dam ID	1st Generation		2nd Generation		Logix Merit Index	Growth Index	Ewe Index	Weaning Weight				Post-Wean	Number Weaned	TWW		AFL		ILP		Dam	
			Prog	Nr	Prog	Nr				Dir	Mat	Comb				EBV	EBV	EBV	EBV	EPI	Times		
			Weaned	Flocks	Weaned	Flocks				EBV Acc Index	EBV Acc Index	EBV Index	EBV Acc Index			Acc Index	Acc Index	Acc Index	Acc Index	Lambe			
		Active Breed Average:						100	100	100	1.41	-0.03	0.67	0.83	0.27	1.54	0.67	0.57					
SL 20 0017 89851240	5.29	JH 18 0153 SL 16 0023	136	1	26	1	108	115	105	2.01 91	1.25 104	2.25 115	0.63 53	-2.70 64	1.64 80	2.14 97	-1.58 51	171	7				
SWH 21 0030 91700278	4.81	JH 18 0211 SWH 17 0318	12	1			121	107	128	1.87 70	0.07 103	1.01 101	-0.36 55	10.00 39	7.94 134	6.06 90	0.50 28	108	4				
D 22 0019 93991867	6.55	DZ 19 0389 D 18 0122	10	1			121	114	115	3.47 70	-0.69 116	1.05 104	4.43 60	3.70 49	5.01 61	-4.49 109	-1.40 38	121	6				
D 23 0192 97620835	6.17	D 22 0019 D 20 0101					111	107	106	2.56 55	-0.75 109	0.53 99	1.91 39	2.10 36	3.07 48	1.23 99	-3.16 27	106	3				
		Sire Flock Average:						115	111	113	2.48	-0.03	1.21	1.65	3.28	4.41	1.23	-1.41					
		Number of sires used in the flock: 4																					

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 Regnr	% In- bding	Sire ID Dam ID	1st Generation		2nd Generation		Logix Merit Index	Growth Index	Ewe Index	Weaning Weight		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	Dam EPI Times Lambd
			Prog	Nr	Prog	Nr				Dir	Mat							
			Weaned	Flocks	Weaned	Flocks				EBV	EBV							
									Acc Index	Acc Index	Index	Acc Index	Acc Index	Acc Index	Acc Index	Acc Index		
		Active Breed Average:				100	100	100	1.41	-0.03	0.67	0.83	0.27	1.54	0.67	0.57		
1	D 23 0192 97620835	6.17	D 22 0019 D 20 0101			111	107	106	2.56 55	-0.75 47	0.53 99	1.91 39	2.10 36	3.07 48	1.23 32	-3.16 27	106	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 Regnr	% In-breeding	Sire ID Dam ID	Logix Merit Index	Growth Index	Ewe Index		Dir EBV Acc	Weaning Weight Mat EBV Index	Comb EBV Index	Post-Wean EBV Acc	Number Weaned EBV Acc	TWW EBV Acc	AFL EBV Acc	ILP EBV Acc	EPI Phenotype
Active Breed Average:				100	100	100	1.41	-0.03	0.67	0.83	0.27	1.54	0.67	0.57	
1 SSNP 24 0006 100855451	5.26	SWH 21 0030 PDD 22 0020	107	100	117		0.48 44 93	0.64 35 108	0.88 102	-0.86 34 91	4.40 25 114	3.76 36 110	4.03 25 94	-2.62 19 110	0
2 SSNP 25 0003 109823096	5.61	D 23 0192 PDD 22 0088	106	104	109		1.08 39 97	0.59 33 108	1.13 104	0.73 24 100	0.40 24 101	1.91 33 102	1.24 24 99	-4.93 19 117	0
3 PDD 22 0088 94696812	5.56	SL 20 0017 PDD 18 0085	101	101	112		-0.41 54 86	1.94 45 124	1.73 110	-0.44 27 94	-1.30 32 95	0.74 45 97	1.25 35 99	-6.70 28 122	2
4 SSNP 24 0005 100855378	6.22	SWH 21 0030 PDD 22 0113	101	90	119		-1.11 35 81	0.88 27 111	0.32 97	-1.71 28 87	5.10 19 117	2.83 28 106	3.93 19 94	-4.63 14 116	0
5 SSNP 25 0005 110328770	5.61	D 23 0192 PDD 22 0071	99	96	104		0.31 39 91	0.17 33 103	0.33 97	-0.18 24 95	0.40 24 101	0.72 33 97	2.12 24 97	-4.26 19 115	0
6 SSNP 25 0002 109823112	6.22	D 23 0192 PDD 22 0113	96	90	108		-0.77 27 83	0.46 23 106	0.08 94	-0.57 20 93	1.10 18 103	0.36 23 95	1.51 16 98	-6.46 13 121	0
7 SSNP 25 0006 110328762	6.22	D 23 0192 PDD 22 0114	96	90	107		-0.76 27 83	0.46 23 106	0.08 94	-0.57 20 93	1.10 18 103	0.36 23 95	1.51 16 98	-6.46 13 121	0
8 PDD 22 0020 93631109	5.92	SL 20 0017 PDD 20 0215	94	93	106		-0.92 55 82	1.21 47 115	0.75 101	-1.36 39 89	-1.30 32 95	-0.49 47 91	2.00 32 97	-5.75 25 119	91 1
9 PDD 22 0071 94538444	5.56	SL 20 0017 PDD 18 0014	87	85	103		-1.94 54 74	1.10 45 114	0.13 95	-2.28 27 84	-1.30 32 95	-1.62 45 87	3.02 35 96	-5.37 28 118	2