How To Interpret GenOvis Reports EPD LAMB REPORT (all EPDs)



Report description: The EPD lamb report (all EPDs) is produced after 50 day and 100 day weighing. This report shows lamb contemporary group's raw data, EPDs and genetic indexes.

Visual:

Lamb Proof Report for Management Group 43224*2016*1 (All Traits) CDBQ Marie-Claude Litalien 1642 rue de la Ferme / STE-ANNE-DE-LA-POCATIÈRE QC GOR120

				Estimated Progeny Differences								
Lamb(Sex) GAIN(%) MAT(%) MAT-HP(%)	Site Bith: Weight Ad. 50.1/ EPO Dr. Mat Bith: Weight Ad. 50.1/ EPO Dr. Mat CARC(%) Dem 50.40 Acc Dr. Mat EPO Dr. Mat EPO Dr. Mat MAT-U(%) Bith: Dr. Dr. Mat Acc Dr. Mat Acc Dr. Mat Acc Dr. Mat MAT-U(%) Bith: Dr. Dr. Dr. Mat Acc Dr. Mat Acc Dr. Mat Acc Dr. Mat MAT-U(%) Bith: Dr.		d. 50 WM. Gain 50-1000 PD Dir Mat EPD Dir co Dir Mat Acc Dir L Dir Mat St. Dir WMMh1st Lambing Interval PD EPD cc Acc 5 55		Ultra Loin EPO Dir Acc Dir % Dir # Bom Later EPO Acc %	Ultra Eat EPO Dir Acc Dir % Dir <u>TatWht</u> EPO Acc %						
Breed DP	1											
CEP000706D(F)	CEP080212W	5.0	-0.02	0.03	0.40	-0.08	1.39	-0.66	0.86	0.82	0.51
9.74 (95)	6.83 (92)	CEPO8749T	25.3	4	3	54	20	35	17	63	69	76
-1.65 (88)	0.64 (89)	0.0138	42.9	41	50	98	1	98	3	93	94	1
-8.94 (87)	-5.29 (89)	2016-01-01	0.35	1.60		-0.22		-0.15		0.02	-0.25	0.03
		1	26.09	0		0		0		5	23	23
		1	5.12	14		4		89		75	10	90
CEP000707D(M		CEPO980458	5.0	0.02	0.04	0.47	0.05	1.66	-0.26	1.28	1.84	0.23
13.41 (97)	14.96 (98)	CEP054104B	29.3	1	1	49	10	21	7	58	66	74
2.77 (95)	6.23 (97)	0.0214	46.0	84	57	99	6	99	18	97	99	6
-4.31 (98)	0.49 (97)	2016-01-02	0.33	1.18		-0.18		-0.33		0.70	-0.21	0.05
		2	29.77	0		0		0		0	3	3
		2	2.74	36		36		81		38	39	90
CEP000708D(M	t in the second s	CEPO98045B	4.0	0.02	0.04	0.34	0.05	1.56	-0.26	1.70	1.47	0.49
15.64 (98)	13.96 (98)	CEP054104B	29.9	1	1	49	10	21	7	58	66	74
4.37 (97)	7.28 (98)	0.0214	50.1	83	57	96	6	98	18	99	99	1
-2.82 (97)	1.5 (98)	2016-01-02	0.40	1.18		-0.18		-0.33		0.70	-0.21	0.05
		2	28.69	0		0		0		0	3	3
		2	3.60	36		38		81		38	39	90
CEP000709D(M	1	CEP080212W	5.2	0.00	0.03	0.54	-0.12	1.81	-0.82	1.54	1.20	0.02
14.94 (98)	16.44 (99)	CEP080372X	27.5	4	3	53	19	33	17	63	69	76
0.91 (92)	5.18 (96)	0.0343	48.7	60	37	99	1	99	1	98	98	50
-5.74 (94)	-0.29 (97)	2016-01-03	0.43	1.48		-0.22		0.02		0.55	-0.26	0.42
		2	28.66	0		0		0		11	21	21
		2	2.24	19		4		95		51	7	08

How to interpret the EPD lamb report (all EPDs) :

						3							
	1	2		Estimated Progeny Differences									
Lamb(Sex) GAIN(%) MAT(%) MAT-HP(%)	CARC(%) MAT-U(%) MAT-UHP(%)	Sire Dam Inbreeding BirthDate # Born # Raised	BirthWt 50 Adj 100 Adj ADG Adj Loin Adj Fat	Lamb S EPD Dir Acc Dir % Dir M Age Firs EPD Acc %	urvival r Mat Mat lat st Lamb	Birth W EPD Di Acc Dir % Dir N # Born EPD Acc %	<u>eight</u> r Mat Mat first	Ad. 50 EPD Di Acc Dir % Dir M TWtWn EPD Acc %	<u>Wt.</u> r Mat Mat 1at <u>1st</u>	Gain 50-100d EPD Dir Acc Dir % Dir Lambing Interval EPD Acc %	Ultra Loin EPD Dir Acc Dir % Dir <u># Born Later</u> EPD Acc %	Ultra Fat EPD Dir Acc Dir % Dir <u>TwtWn+</u> EPD Acc %	
Breed DP													
CEP000706D(F	F)	CEP080212W	5.0	-0.02	0.03	0.40	-0.08	1.39	-0.66	0.86	0.82	0.51	
9.74 (95)	6.83 (92)	CEPO8749T	25.3	4	3	54	20	35	17	63	69	76	
-1.65 (86)	0.64 (89)	0.0136	42.9	41	50	98	1	98	3	93	94	1	
-8.94 (87)	-5.29 (89)	2016-01-01	0.35	1.60		-0.22		-0.15		0.02	-0.25	0.03	
		1	26.09	0		0		0		5	23	23	
		1	5.12	14		4		89		75	10	90	

1. Animal Identification and Selection Indexes :

Lamb basic information

Lamb ID (Tattoo) Lamb sex

No ultrasound

Gain Index (GAIN) Maternal Index (Mat) Maternal Higher Prolificacy Index (MAT-HP)

With ultrasound

Carcass Index (CARC) Maternal Ultrasound Index (Mat) Maternal Ultrasound Higher Prolificacy Index (MAT-HP)

2. Raw data :

Sire ID (Tattoo) Dam ID (Tattoo) Lamb inbreeding Birth date Number born Number raised Birth weight 50 day adjusted weight (50 ADJ) 100 day adjusted weight (100 ADJ) Average daily gain between 50 and 100 days (ADG) Loin eye depth actual Fat cover actual

How to interpret the EPD lamb report (all EPDs) (following) :



3. Estimated Progeny Difference (EPD) :

Letter	EPD	Use
A-1	Lamb Survival direct	To select ewes which will produce lambs that have a better ability to survive to weaning due to the lamb's own genetics.
A-2	Lamb Survival maternal	To select ewes which are better at helping their progeny to survive to weaning.
В	Age First Lambing	To select ewes which will give birth to daughters that will produce progeny earlier.
C-1	Birth Weight direct	To select animals which will produce lambs that are heavier in live weight at birth due to the lamb's own genetics.
C-2	Birth Weight maternal	To select ewes which will produce lambs that are heavier in live weight at birth due to the ewe's larger womb and her ability to provide nutrients to the fetus.
D	Number Born First Lambing	To select ewes which will produce daughters that give birth to more progeny during their first lambing.
E-1	50 Day Weight direct	To select animals which will produce lambs that are heavier in live weight at 50 days of age due to the lamb's own genetics.
E-2	50 Day Weight maternal	To select ewes which will produce lambs that are heavier in live weight at 50 days of age by having a greater potential for milk production and mothering ability.
F	Total Weight Wean 1 st lambing	To select ewes which will produce daughters that will wean heavier lambs at their first lambing. Increase the total kg of the litter by number of lambs weaned and the lambs' weights at weaning.
G	Gain 50-100 Day direct	To select animals which will produce lambs that will have a faster growth from 50 to 100 days of age due to the lamb's own genetics.
Н	Lambing Interval	To select ewes who will take less time between subsequent lambings.
1	Loin Depth	To select animals which will produce lambs that contribute to higher lean meat yield. This value estimates the difference between animals in loin eye depth.
J	Number Born Later	To select ewes which will produce daughters that give birth to more progeny at later lambings.
к	Fat Cover	To select animals that will produce lambs that are leaner. This value estimates the difference between animals in back fat depth.
L	Total Weight Wean later lambings	To select ewes which will produce daughters that will wean heavier lambs at later lambings. Increase the total kg of the litter by number of lambs weaned and the lambs' weights at weaning.

*** Look for more positive EPD for orange traits and more negative EPD for blue traits. ***

3. Estimated Progeny Difference (EPD) :

How to interpret EPDs



Trait: Lamb Survival

EPD direct and EPD maternal Accuracy direct and accuracy maternal Percentile direct and percentile maternal

<u>Trait: Age at First Lambing</u>	
EPD	
Accuracy	
Percentile	

EPD Lamb Survival direct (-0.02) and maternal (0.03) Accuracy direct (4) and maternal (3) Percentile direct (41) and maternal (50)

EPD Age at First Lambing (1.60) Accuracy (0) Percentile (14)

Reference:

EPD : The performance of an animal is a mixture of its genetics and the environmental conditions in which it was raised. An EPD is the numerical estimate of the genetic value that an animal will pass on to its progeny for a particular trait. An EPD encompasses all performance data on the relatives of the animal, as well as the animal's own performance data. EPDs should be used along with visual selection. It is important to remember that when selecting sheep, the EPDs account for environmental effects, and therefore allow you to choose sheep solely on differences in genetic traits.

Percentile : This number reflects the position, in terms of percentile rank, that this EPD is in for the animal's breed. For example, a 90% indicates that the animal is in the top 10% of all animals of the same breed for this trait. 50% is the average of the breed. All animals locate above 50% are better than the average of the breed for this particular trait.

Accuracy: This number is an indication of how close the EPD is to the true genetic value of the animal. The greater the amount of performance data that is available, the higher the accuracy for that EPD will be and the less likely it is to change once more performance data is added to the evaluation. Once accuracy is low (below 50) the trait value is likely to change when new data are added.