

Understanding the new base for Canadian Limousin EPD's

Some of your *Frequently Asked Questions* answered and summary of 2015 statistics

What are the advantages and/or differences of changing to a multi breed evaluation?

- The Limousin evaluations (EPD's) are directly comparable to Red Angus, Simmental, Gelbvieh among other breeds.
- The carcass trait EPD's are more conservative, but consequently will be more accurate in the long run.
- This realignment of contemporary groups into larger groups contributes to higher accuracy EPDs for animals in these groups.
- Embryo calves are no longer taken for account in the growth traits, but carcass data will be included.

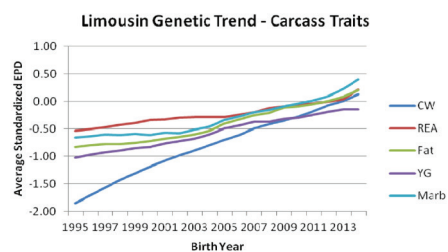
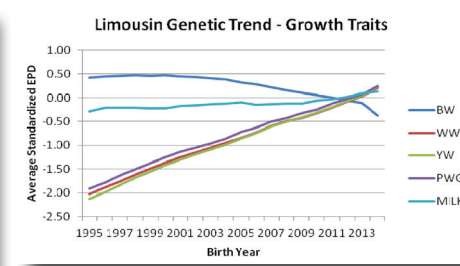
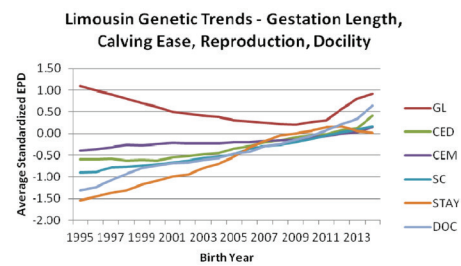
Across Breed Comparison (2013-2014 born non-parents on common base 2013)						
Breed	CED	BW	WW	YW	CEM	MA
Limousin	7.0	1.7	65	92	6	26
Lim-Flex	10	0.8	65	100	6	25
Gelbvieh	9	1.4	65	90	7	29
Maine Anjou	9	1.7	40	79	4	20
Red Angus	5	-1.3	57	89	4	20
Simmental	9	1.9	63	92	9	22
Shorthorn	4	2.2	48	53	1	20

Across Breed Comparison 2013-2014 born non-parents on common base			
Breed	CW	REA	MARB
Limousin	26	0.51	-0.06
Lim-Flex	30	0.46	0.29
Gelbvieh	25	0.44	-0.19
Maine Anjou	1	0.16	0.21
Red Angus	21	0.12	0.45
Simmental	27	0.79	0.14
Shorthorn	0	-0.06	0.05

Accuracy Comparison (Born 2003 or later)		
	SPRING 2015 ACC	FALL 2014 ACC
CED	0.27	0.22
BW	0.31	0.31
WW	0.25	0.24
YW	0.25	0.16
MA	0.21	0.18
CW	0.22	0.31
REA	0.09	0.28
MARB	0.11	0.28
YG	0.10	0.28

What current breed averages for Bulls, Cows and non-parent animals and genetic trends?

	GL (Days)	CED (%)	BW (lbs)	WW (lbs)	YW (lbs)	PWG (lbs)	Milk (lbs)	CEM (%)	SC (cm)	ST (%)	DOC (%)	CW (lbs)	REA (in ²)	YG (%)	Fat (in)	MARB (units)
Bulls	-2.3	6.4	2.1	64.0	89.9	25.8	24.9	5.4	0.1	19.1	18.1	25.8	0.49	-0.16	-0.035	-0.10
Cows	-2.2	6.3	2.2	60.5	84.1	23.6	24.9	5.3	0.0	18.9	17.4	22.5	0.48	-0.17	-0.038	-0.11
Calves	-1.2	7.2	1.7	65.0	91.9	26.9	25.5	5.6	0.1	19.4	22.8	26.4	0.51	-0.15	-0.032	-0.06



Quick EPD Guide

GL (Gestation Length): with the breed average at -1.2, a higher value indicates likelihood of longer gestation.

CED (Calving Ease Direct): with the breed average at +7.2, a higher value would indicate likelihood of greater calving ease.

BW (Birth Weight): with the breed average at +1.7, a higher value indicates likelihood of bigger weight at birth.

WW (Weaning Weight): with the breed average at +65, a higher value indicates likelihood of heavier calves at weaning.

YW (Yearling Weight): with the breed average at +91.9, a higher value indicates likelihood of heavier calves at one year of age.

PWG (Post Weaning Gain): with the breed average at +26.9, a higher value indicates likelihood more gain between WW and YW.

CEM (Maternal Calving Ease): with the breed average at +5.6, a higher value indicates likelihood of the daughters ability to calve without difficulty.

Milk: with the breed average at +25.5, a higher value indicates likelihood of additional milk from the daughters.

SC (Scrotal Circumference): with the breed average at +0.1, a higher value indicates likelihood of larger scrotal size from the sons.

ST (Stayability): with the breed average at +19.4, a higher value indicates likelihood that daughters will remain in production until six years of age or beyond.

DOC (Docility): with the breed average at +22.8, a higher value indicates likelihood of more docile progeny.

CW (Carcass Weight): with the breed average at +26.4 a higher value indicates likelihood of heavier carcasses.

REA (Rib Eye Area): with the breed average at +0.51 a higher value indicates likelihood of larger rib eye area.

Fat (Back Fat): with the breed average at -0.032 a higher value indicates likelihood of more back fat.

YG (Yield Grade): only applies to American cattle

MARB (Marbling): with the breed average at -0.06 a higher value indicates likelihood of additional marbling.

What is happening with Genomic Enhanced EPD's (Ge-EPD's)?

- A recalibration was needed and nearly completed. It will include over 5000 Limousin and Lim-Flex genotypes.
- A full gambit of traits will be included and the Ge-EPD's will be given to Lim-Flex animals.