

Spring 2010 International Limousin Genetic Evaluation

Summary Statistics

The following summary statistics are presented for the Spring 2010 International Limousin Genetic Evaluation. They are for use as a rapid reference in comparing and evaluating Expected Progeny Differences (EPDs) from the genetic evaluation. More detailed information on the EPDs can be found in the Limousin Sire Summary, at www.limousin.com.

Current Sires

	GL* (days)	CED (%)	BW (lbs)	WW (lbs)	YW (lbs)	Milk (lbs)	CEM (%)	SC (cm)	ST (%)	DOC (%)	CW (lbs)	REA (in ²)	YG (%)	MARB (units)
Average	-1.0	7.1	1.9	41.9	78.5	20.2	2.9	0.3	17.2	14.5	16.2	0.43	-0.08	-0.04
Minimum	-5.3	-10	-8.7	-3	25	-8	-14	-1.3	-4	-24	-53	-0.62	-0.53	-0.32
Maximum	2.9	30	10.4	96	140	42	19	1.8	32	45	77	1.45	0.48	0.67
Std Dev	1.2	4.4	2.0	9.5	15.2	5.6	3.9	0.4	4.2	8.7	15.9	0.25	0.12	0.10
Upper %														
1	-4.4	20	-3.8	66	117	35	12	1.3	26	35	58	1.02	-0.32	0.36
2	-3.8	18	-2.6	63	112	33	11	1.1	25	33	53	0.94	-0.28	0.21
3	-3.4	16	-2.2	61	109	31	10	1.0	24	31	49	0.90	-0.26	0.16
4	-3.1	16	-1.8	59	106	30	10	1.0	24	30	46	0.86	-0.25	0.13
5	-3.0	15	-1.5	58	104	30	9	0.9	24	29	45	0.83	-0.24	0.12
10	-2.5	13	-0.5	54	98	27	8	0.8	22	25	37	0.75	-0.21	0.08
20	-1.9	11	0.5	49	91	25	6	0.6	21	21	30	0.64	-0.17	0.03
30	-1.5	9	1.1	46	85	23	5	0.5	20	19	24	0.57	-0.14	-0.02
40	-1.1	8	1.6	44	81	21	4	0.4	19	17	18	0.50	-0.12	-0.04
50	-0.9	7	2.1	42	77	20	3	0.3	18	15	15	0.43	-0.10	-0.06
60	-0.6	6	2.5	40	74	19	2	0.2	17	13	11	0.37	-0.07	-0.08
70	-0.3	5	2.9	37	71	18	1	0.1	15	10	8	0.31	-0.03	-0.10
80	0.0	4	3.4	34	67	16	0	0.0	14	8	4	0.24	0.01	-0.12
90	0.4	2	4.2	30	60	14	-2	-0.1	12	4	-3	0.14	0.08	-0.16
Number	807	2,869	2,878	2,878	2,878	2,888	2,869	2,790	1,252	2,451	2,438	2,438	2,438	2,438

Current Sires are those which have sired a calf born within the last two years.

* GL is for Canadian Sires only

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Current Dams

	GL* (days)	CED (%)	BW (lbs)	WW (lbs)	YW (lbs)	Milk (lbs)	CEM (%)	SC (cm)	ST (%)	DOC (%)	CW (lbs)	REA (in ²)	YG (%)	MARB (units)
Average	-0.6	6.9	2.0	38.4	72.3	20.0	3.0	0.2	16.5	12.6	11.3	0.38	-0.08	-0.04
Minimum	-6.6	-8	-7.2	-1	15	-12	-13	-0.8	-1	-27	-44	-1.22	-0.45	-0.38
Maximum	3.2	27	9.5	86	131	63	16	1.6	29	42	98	1.36	0.80	0.89
Std Dev	1.0	4.1	1.8	8.8	14.0	6.3	3.4	0.3	3.9	8.4	13.8	0.25	0.13	0.10
Upper %														
1	-3.5	18	-2.6	59	106	36	11	1.0	25	31	45	0.92	-0.30	0.38
2	-3.1	16	-2.0	56	102	34	10	0.9	24	29	41	0.85	-0.28	0.26
3	-2.8	15	-1.7	55	100	32	10	0.9	24	28	38	0.81	-0.26	0.20
4	-2.6	15	-1.4	54	98	31	9	0.8	23	27	36	0.78	-0.25	0.16
5	-2.4	14	-1.2	53	96	31	9	0.8	23	26	35	0.76	-0.24	0.13
10	-1.9	12	-0.4	50	91	28	7	0.7	21	23	29	0.67	-0.21	0.06
20	-1.4	10	0.5	46	84	25	6	0.5	20	20	23	0.58	-0.17	0.01
30	-1.0	9	1.1	43	79	23	5	0.4	19	17	18	0.51	-0.15	-0.02
40	-0.7	8	1.6	41	76	21	4	0.3	18	15	14	0.44	-0.13	-0.04
50	-0.5	7	2.1	38	72	20	3	0.2	17	13	11	0.38	-0.11	-0.06
60	-0.3	6	2.5	36	69	18	2	0.1	16	11	7	0.33	-0.08	-0.07
70	-0.1	5	3.0	34	65	17	1	0.0	14	8	4	0.27	-0.05	-0.09
80	0.2	4	3.5	31	61	15	0	0.0	13	6	0	0.20	-0.01	-0.11
90	0.5	2	4.2	27	55	12	-1	-0.2	11	2	-6	0.09	0.07	-0.14
Number	8,040	27,774	27,969	27,969	27,969	28,063	27,774	26,882	15,052	21,928	21,367	21,367	21,367	21,367

Current Dams are those females that have had a calf within the last two years.

* GL is for Canadian Dams only

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2008-2009 Born Calves

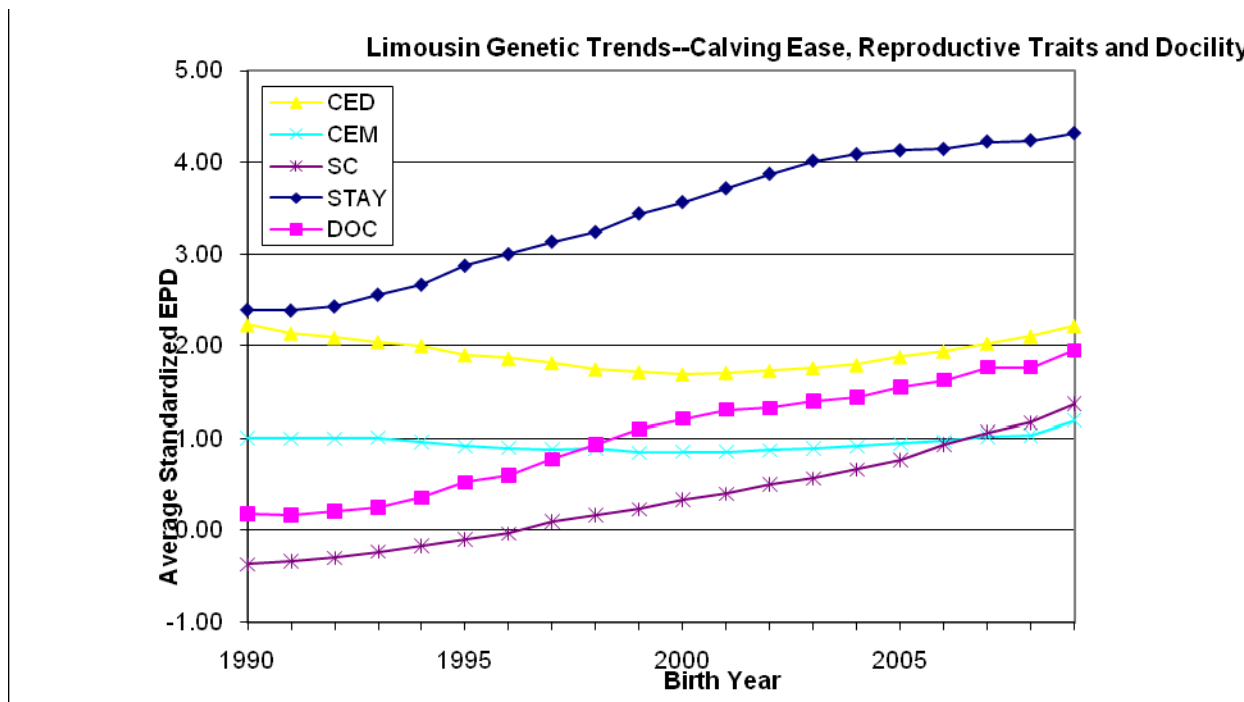
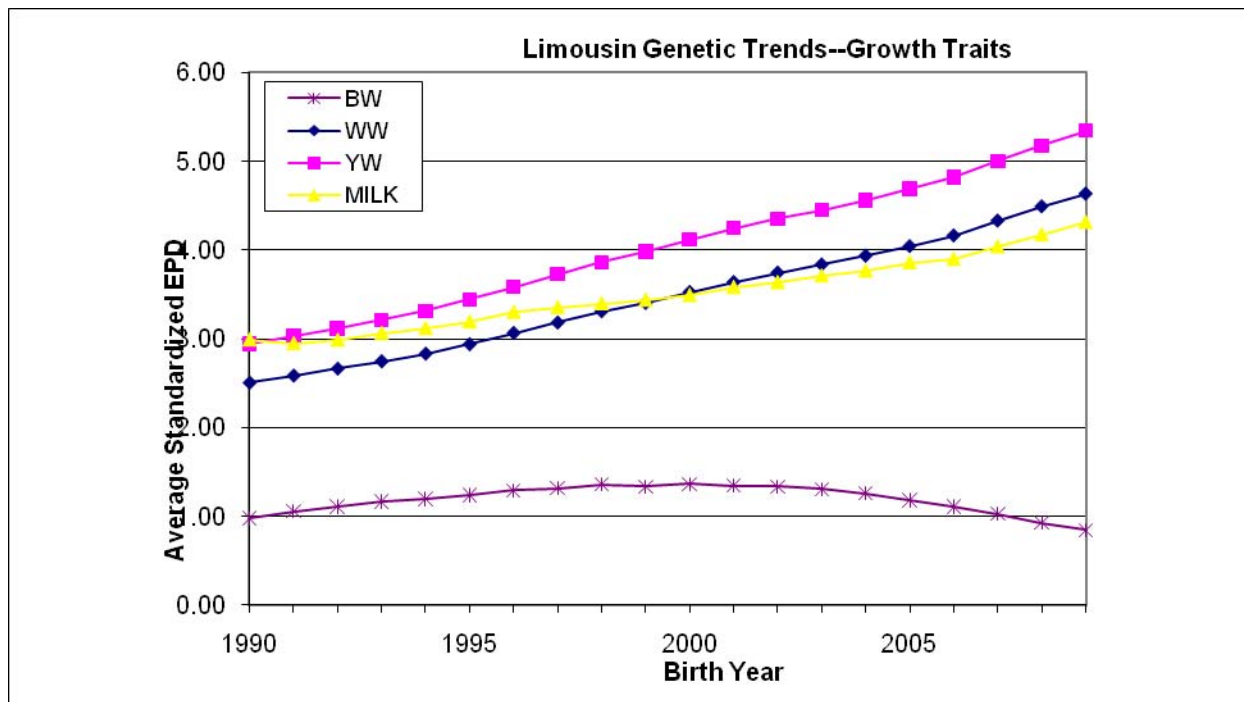
	GL* (days)	CED (%)	BW (lbs)	WW (lbs)	YW (lbs)	Milk (lbs)	CEM (%)	SC (cm)	ST (%)	DOC (%)	CW (lbs)	REA (in ²)	Fat (in)	YG (%)	MARB (units)
Average	-0.9	7.7	1.5	42.7	80.2	21.4	3.3	0.4	17.3	15.3	20.0	0.37	-0.007	-0.02	0.01
Minimum	-8.1	-9	-8.1	-1	23	-8	-10	-1.0	5	-26	-51	-1.06	-0.050	-0.40	-0.29
Maximum	3.0	26	9.8	91	134	45	17	1.9	28	40	83	1.24	0.030	0.70	0.84
Std Dev	1.0	3.9	1.9	8.4	13.5	5.1	3.0	0.3	3.7	7.8	13.3	0.30	0.012	0.16	0.14
Upper %															
1	-3.4	19	-3.3	63	113	34	11	1.1	26	33	52	0.89	-0.032	-0.25	0.50
2	-3.1	17	-2.6	61	109	33	10	1.0	25	31	48	0.84	-0.030	-0.23	0.42
3	-2.9	16	-2.3	59	107	32	9	0.9	24	30	45	0.81	-0.030	-0.22	0.39
4	-2.7	15	-2.0	58	105	31	9	0.9	24	29	43	0.79	-0.030	-0.21	0.35
5	-2.6	15	-1.8	57	103	30	9	0.9	23	28	42	0.77	-0.030	-0.20	0.32
10	-2.1	13	-1.0	54	98	28	7	0.8	22	26	37	0.71	-0.020	-0.18	0.22
20	-1.6	11	-0.1	50	92	26	6	0.6	21	22	31	0.62	-0.020	-0.14	0.09
30	-1.3	9	0.6	47	87	24	5	0.5	20	19	27	0.55	-0.010	-0.11	0.04
40	-1.0	8	1.2	45	83	23	4	0.4	18	17	23	0.49	-0.010	-0.09	0.00
50	-0.8	7	1.6	42	80	21	3	0.4	17	15	20	0.42	-0.010	-0.06	-0.02
60	-0.5	6	2.1	41	76	20	2	0.3	16	13	16	0.36	-0.008	-0.02	-0.05
70	-0.3	6	2.5	38	73	19	2	0.2	15	11	13	0.27	0.000	0.02	-0.07
80	0.0	5	3.0	36	69	17	1	0.1	14	9	9	0.13	0.000	0.10	-0.09
90	0.2	3	3.8	32	64	15	0	0.0	13	6	3	-0.06	0.010	0.22	-0.12
Number	10,753	38,556	39,327	39,326	39,326	39,783	38,556	33,523	1,611	23,135	27,611	27,611	376	27,611	27,611

* GL is for Canadian Calves only.

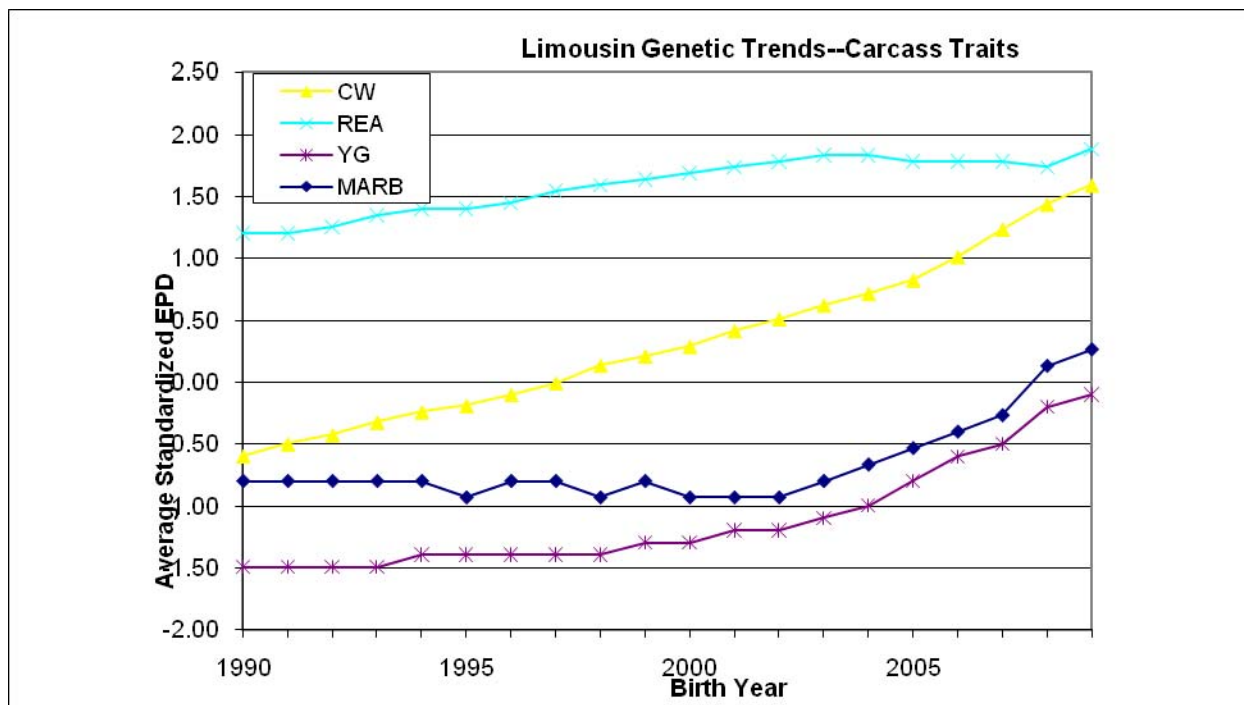
* Fat is for Canadian Calves only.

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Standardized Limousin International Genetic Trends



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Possible Change Values (plus or minus)

Accuracy	CE (%)	GL (days)	BW (lbs)	WW (lbs)	YW (lbs)	CEM (%)	MA (lbs)	SC (cm)	ST (%)	DOC (%)	CW (lbs)	REA (in ²)	FAT (in)	MARB (units)
.00	8.6	1.8	3.0	16.2	24.7	14.8	14.8	0.70	8.6	15.8	36	0.46	0.07	0.24
.10	7.8	1.6	2.8	15.0	22.0	13.7	13.7	0.62	7.7	14.3	32	0.41	0.06	0.22
.20	6.9	1.4	2.5	13.4	19.4	12.2	12.2	0.56	6.9	12.7	29	0.37	0.05	0.20
.30	6.1	1.2	2.2	11.7	16.8	10.8	10.8	0.49	6.0	11.1	25	0.32	0.04	0.17
.40	5.2	1.1	1.9	10.0	14.2	9.2	9.2	0.42	5.2	9.5	22	0.28	0.04	0.14
.50	4.3	0.9	1.6	8.1	11.5	7.4	7.4	0.35	4.3	7.9	18	0.23	0.03	0.12
.60	3.5	0.7	1.3	6.4	9.0	5.8	5.8	0.28	3.4	6.3	14	0.18	0.02	0.10
.70	2.6	0.6	1.0	4.8	6.4	4.3	4.3	0.21	2.6	4.8	11	0.14	0.02	0.07
.80	1.7	0.4	0.7	3.2	3.9	2.9	2.9	0.15	1.7	3.2	7	0.09	0.01	0.05
.90	0.9	0.3	0.4	1.5	2.1	1.4	1.4	0.08	0.9	1.6	4	0.05	0.01	0.02
1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0	0.00	0.00	0.00

Possible Change Values reflect the accuracy of an EPD and provide a measure of potential change associated with EPD of varying accuracy levels. For a given accuracy, the EPD values of 2/3 of the animals are expected to remain within plus or minus change level.

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Definitions

GL – Gestation Length in days

CED – Calving Ease Direct in % unassisted births

BW – Birth Weight in pounds

WW – Weaning Weight in pounds

YW – Yearling Weight in pounds

PWG – Post-weaning gain in pounds

CEM – Maternal Calving Ease in % unassisted births

Milk – Milk (Maternal Ability) in pounds of weaned calf

TM – Total Maternal in pounds of weaned calf ($1/2 WW + MA$)

SC – Scrotal in centimetres

ST – Stayability in percent probability

DOC – Docility in percent probability

CW – Carcass Weight in pounds

REA – Rib-Eye Area in square inches

FAT – backfat EPD in inches

YG – Yield Grade in % USDA Yield Grade Units

MARB – Marbling in USDA Marbling Scores

Std Dev – Standard Deviation, a measure of how much “spread” there is in the population for a particular trait.

A Note on Standard Curves

The Limousin population (all Limousin Cattle in North America) represents a normal or standard population. This means that the majority of animals will fall in the middle of the curve (near average) and fewer animals will lie towards to outside of the curve for any given trait. The Standard Deviation represents the width or spread of the curve. For any trait, roughly 50% of the cattle will be “above” average, with approximately 2% being more than 2 standard deviations above the average.

