

Spring 2015 International Limousin Genetic Evaluation

Summary Statistics

The following summary statistics are presented for the Spring 2015 International Limousin Genetic Evaluation. They are for use as a rapid reference in comparing and evaluating Expected Progeny Differences (EPDs) from the genetic evaluation.

Current Sires

	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)
Average	-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
Minimum	-6.6	-10.4	-5.8	5.1	10.5	-10.6	-5.8	-13.4	-1.2	1.7	-18.2	-19.0	-0.34	-0.60	-0.120	-0.50
Maximum	1.2	23.8	10.4	103.4	155.3	59.7	47.2	22.6	1.8	39.2	46.8	68.6	1.59	0.98	0.090	0.46
Std Dev	1.3	3.7	2.0	11.2	18.8	9.0	6.2	3.4	0.4	4.8	10.3	12.0	0.24	0.12	0.025	0.13
Upper %																
1	-5.0	17	-3.2	91	133	49	41	13	1.1	29	41	54	1.09	-0.45	-0.090	0.27
2	-4.7	16	-2.7	88	129	45	39	12	0.9	28	39	51	1.00	-0.39	-0.080	0.22
3	-4.5	14	-2.2	85	126	43	38	12	0.9	27	37	49	0.97	-0.37	-0.080	0.18
4	-4.4	14	-1.8	84	124	42	37	11	0.8	27	36	47	0.93	-0.35	-0.080	0.15
5	-4.2	13	-1.6	83	122	41	36	11	0.7	27	35	46	0.90	-0.34	-0.070	0.13
10	-3.8	11	-0.6	79	115	37	33	10	0.6	25	31	41	0.81	-0.30	-0.070	0.07
20	-3.4	9	0.6	73	106	33	30	8	0.4	23	27	36	0.69	-0.25	-0.060	0.00
30	-2.9	8	1.4	69	100	31	28	7	0.3	22	23	32	0.61	-0.22	-0.050	-0.04
40	-2.7	7	1.9	66	94	28	26	6	0.2	20	20	28	0.54	-0.20	-0.040	-0.08
50	-2.4	6	2.3	64	89	25	25	5	0.1	19	18	25	0.48	-0.17	-0.040	-0.11
60	-2.1	5	2.7	61	84	23	23	5	-0.1	18	16	22	0.43	-0.13	-0.030	-0.14
70	-1.7	4	3.2	58	80	21	22	4	-0.2	17	13	19	0.36	-0.09	-0.020	-0.17
80	-1.2	3	3.6	55	74	18	20	3	-0.3	16	10	16	0.29	-0.06	-0.010	-0.20
90	0.0	2	4.4	50	67	14	18	2	-0.4	13	5	11	0.19	0.00	-0.010	-0.25
Count	1,538	1,538	1,538	1,538	1,538	1,538	1,538	1,538	1,270	806	1,315	1,538	1,538	1,538	1,538	1,538

Current Sires are those males that have sired a calf within the last two years.

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Current Dams

	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)
Average	-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
Minimum	-6.4	-7.4	-10.1	-12.2	-12.0	-11.2	-4.5	-17.6	-1.2	4.1	-24.6	-43.7	-0.41	-0.65	-0.150	-0.63
Maximum	2.3	21.3	14.3	109.8	171.2	63.0	51.4	23.0	1.5	35.4	42.8	81.9	1.45	2.01	0.080	0.70
Std Dev	1.2	3.4	2.0	10.3	17.8	8.5	5.7	3.3	0.3	4.6	9.4	11.4	0.22	0.11	0.022	0.12
Upper %																
1	-4.8	15	-2.8	84	125	44	39	13	0.8	31	37	50	1.02	-0.4	-0.080	0.25
2	-4.5	14	-2.2	81	120	42	37	12	0.7	30	35	46	0.95	-0.4	-0.080	0.19
3	-4.3	13	-1.9	79	117	40	36	11	0.7	28	34	44	0.90	-0.4	-0.080	0.15
4	-4.2	13	-1.5	78	114	39	35	11	0.6	28	33	42	0.87	-0.4	-0.070	0.13
5	-4.0	12	-1.3	77	113	38	35	11	0.6	27	32	41	0.84	-0.3	-0.070	0.11
10	-3.6	11	-0.4	74	107	35	32	9	0.5	25	30	37	0.76	-0.3	-0.060	0.05
20	-3.2	9	0.6	69	100	31	29	8	0.3	23	26	32	0.65	-0.3	-0.060	-0.01
30	-2.9	8	1.3	66	94	28	28	7	0.2	21	23	28	0.58	-0.2	-0.050	-0.06
40	-2.6	7	1.9	63	89	26	26	6	0.1	20	20	25	0.52	-0.2	-0.040	-0.09
50	-2.3	6	2.3	61	84	23	25	5	0.0	19	17	23	0.46	-0.2	-0.040	-0.12
60	-2.0	5	2.8	58	79	21	23	5	-0.1	18	15	20	0.41	-0.2	-0.030	-0.15
70	-1.7	5	3.2	55	75	19	22	4	-0.2	16	13	17	0.36	-0.1	-0.030	-0.18
80	-1.1	4	3.7	52	69	16	20	3	-0.3	15	10	13	0.30	-0.1	-0.020	-0.20
90	0.0	2	4.4	48	62	13	18	1	-0.4	13	5	8	0.22	0.0	-0.010	-0.24
Count	16,063	16,063	16,063	16,063	16,063	16,063	16,063	16,063	12,271	9,364	13,275	16,063	16,063	16,063	16,063	16,063

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

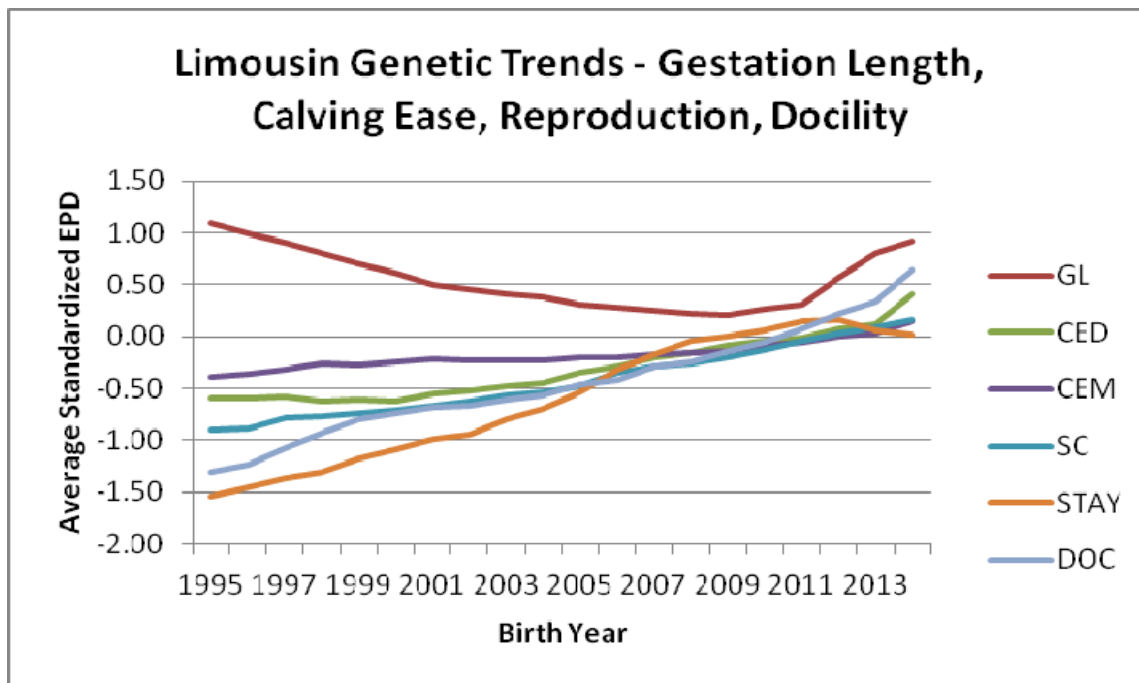
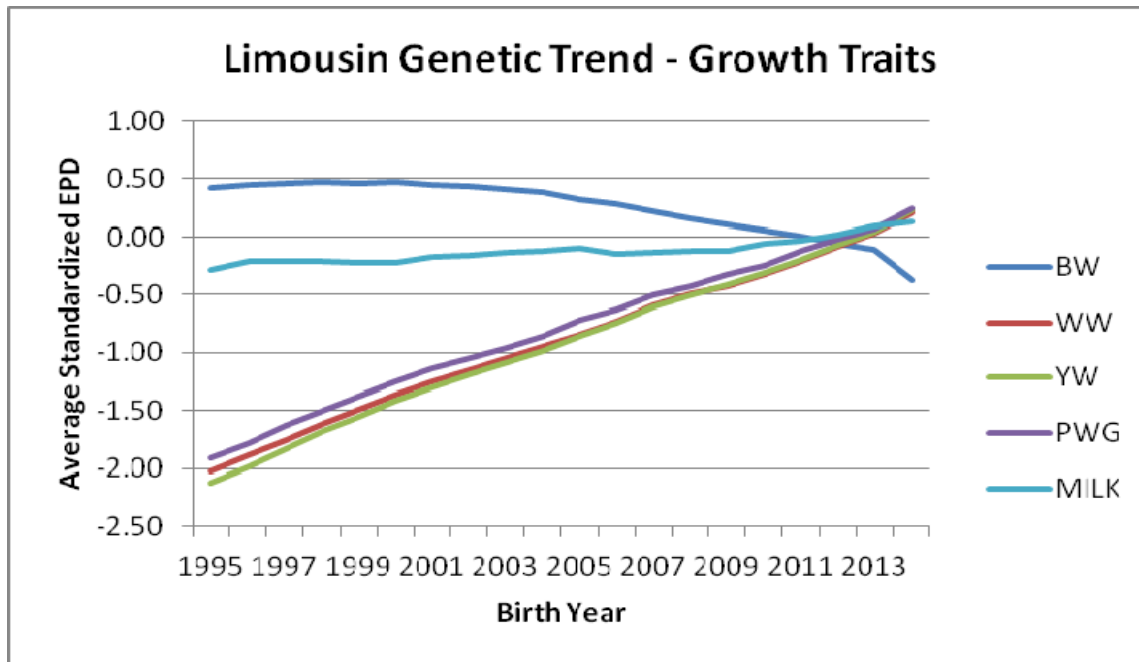
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2013-2014 Born Calves

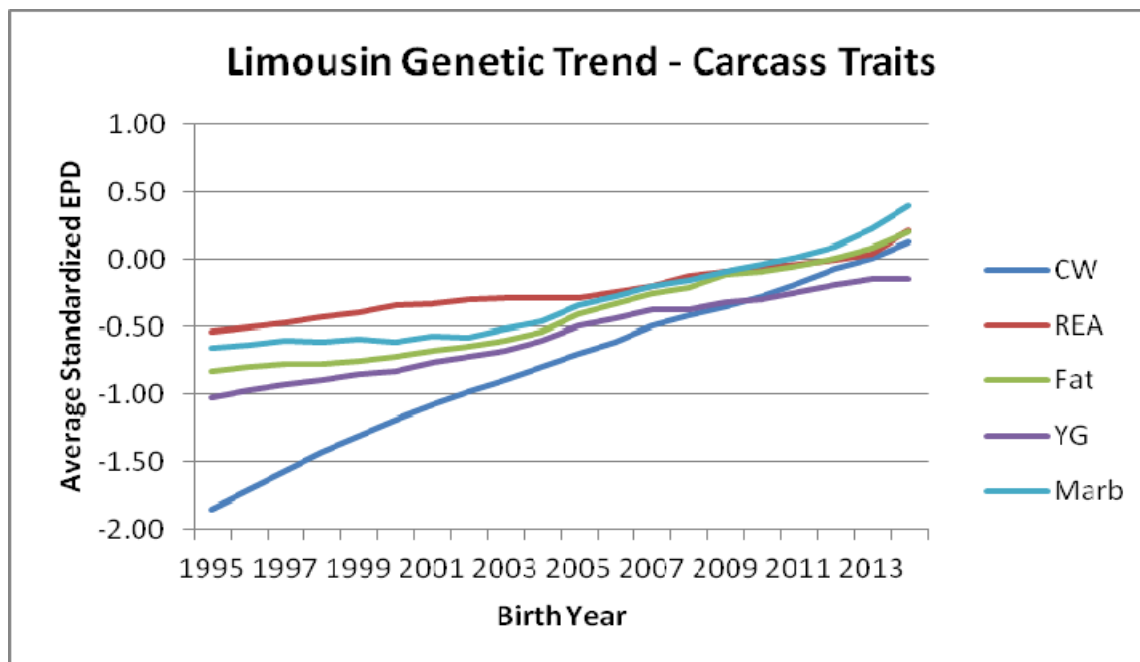
	GL* (days)	CED (%)	BW (lbs)	WW (lbs)	YW (lbs)	PWG* (lbs)	Milk (lbs)	CEM (%)	SC (cm)	ST (%)	DOC (%)	CW (lbs)	REA (in ²)	YG (%)	Fat* (in)	MARB (units)
Average	-1.2	7.2	1.7	65.0	91.9	26.9	25.5	5.6	0.1	19.4	22.8	26.4	0.51	-0.15	-0.032	-0.06
Minimum	-5.9	-3.9	-6.3	29.8	33.2	1.3	9.4	-12.7	-1.0	7.0	-13.3	-15.6	-0.23	-0.54	-0.130	-0.69
Maximum	1.1	19.8	10.6	107.2	173.4	66.2	42.3	13.5	1.4	32.5	43.0	82.0	1.37	0.24	0.070	0.59
Std Dev	1.5	3.5	1.9	9.1	15.6	7.4	4.4	2.7	0.3	4.0	9.0	10.0	0.19	0.09	0.020	0.12
Upper %																
1	-4.4	16	-3.0	86	128	44	37	11	0.8	28	39	51	0.99	-0.35	-0.080	0.25
2	-4.1	16	-2.6	83	123	43	35	11	0.8	27	38	47	0.92	-0.33	-0.070	0.21
3	-3.9	15	-2.2	82	120	41	35	10	0.7	27	37	46	0.88	-0.32	-0.070	0.18
4	-3.8	14	-2.0	81	118	40	34	10	0.7	26	36	44	0.85	-0.31	-0.070	0.16
5	-3.7	14	-1.7	80	117	39	33	10	0.6	26	36	43	0.84	-0.30	-0.070	0.14
10	-3.3	12	-1.0	77	112	36	31	9	0.5	25	34	39	0.77	-0.27	-0.060	0.10
20	-2.8	10	0.0	73	105	33	29	8	0.4	23	31	35	0.68	-0.24	-0.050	0.04
30	-2.4	9	0.8	70	101	31	28	7	0.3	22	28	31	0.62	-0.21	-0.040	-0.01
40	-1.7	8	1.4	67	96	29	26	6	0.2	20	26	29	0.56	-0.18	-0.040	-0.04
50	0.0	7	1.9	65	92	27	25	6	0.2	19	24	26	0.51	-0.16	-0.030	-0.07
60	0.0	6	2.4	63	88	25	24	5	0.1	18	21	24	0.46	-0.14	-0.030	-0.10
70	0.0	5	2.8	60	84	23	23	4	0.0	17	19	21	0.40	-0.11	-0.020	-0.14
80	0.0	4	3.3	57	79	21	22	4	-0.1	16	15	18	0.35	-0.07	-0.020	-0.17
90	0.0	3	3.9	53	71	17	20	2	-0.2	14	10	14	0.27	-0.03	-0.010	-0.21
Count	16,059	16,057	16,057	16,057	16,057	16,059	16,057	16,057	10,843	706	11,544	16,057	16,057	16,057	16,059	16,057

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Standardized Limousin International Genetic Trends



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Possible Change Values (plus or minus)

Accuracy	GL (days)	CE (%)	BW (lbs)	WW (lbs)	YW (lbs)	CEM (%)	MA (lbs)	SC (cm)	ST (%)	DOC (%)	CW (lbs)	REA (in ²)	FAT (in)	MARB (units)
.00	1.8	7.8	3.0	16.3	25.7	7.9	11.9	0.70	7.1	15.8	19.3	0.43	0.04	0.26
.10	1.6	7.0	2.7	14.7	23.1	7.1	10.7	0.62	6.4	14.3	17.4	0.39	0.04	0.23
.20	1.4	6.2	2.4	13.0	20.6	6.3	9.5	0.56	5.7	12.7	15.4	0.34	0.03	0.21
.30	1.2	5.4	2.1	11.4	18.0	5.5	8.3	0.49	4.9	11.1	13.5	0.30	0.03	0.18
.40	1.1	4.7	1.8	9.8	15.4	4.7	7.1	0.42	4.2	9.5	11.6	0.26	0.02	0.16
.50	0.9	3.9	1.5	8.2	12.9	3.9	6.0	0.35	3.5	7.9	9.7	0.22	0.02	0.13
.60	0.7	3.1	1.2	6.5	10.3	3.1	4.8	0.28	2.8	6.3	7.7	0.17	0.02	0.10
.70	0.6	2.3	0.9	4.9	7.7	2.4	3.6	0.21	2.1	4.8	5.8	0.13	0.01	0.08
.80	0.4	1.6	0.6	3.3	5.1	1.6	2.4	0.15	1.4	3.2	3.9	0.09	0.01	0.05
.90	0.3	0.8	0.3	1.6	2.6	0.8	1.2	0.08	0.7	1.6	1.9	0.04	0.00	0.03
1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.00	0.0

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.

