

**Provincial genetic trends by birth year for Milking Shorthorn cows**  
**Canadian Dairy Network, August 2012**

**Prince Edward Island**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1999	21	246	183	6.2	3.7	-0.02	-0.03	99.0	3.08	0.5	-0.1	-0.1	0.7	1.7	98.5	99.8	101.2
2000	22	-80	98	-2.0	-0.1	-0.10	-0.06	99.4	3.13	0.8	-1.5	-1.9	2.8	0.0	98.2	99.2	96.3
2001	11	-364	40	-3.8	-2.0	-0.10	-0.07	96.5	3.21	-0.5	-2.5	-1.6	1.3	0.3	97.3	98.9	97.5
2002	16	83	117	1.4	1.6	-0.06	-0.04	98.0	3.05	-0.7	-1.8	0.2	-0.4	-0.5	100.1	100.7	101.7
2003	13	121	85	-0.1	2.4	-0.06	0.00	97.5	3.12	0.0	-2.2	-0.2	0.8	0.4	100.2	101.2	99.0
2004	12	172	154	0.4	4.5	-0.10	0.01	97.7	3.11	1.2	-1.3	-0.9	1.8	2.4	99.7	99.5	98.3
2005	13	136	89	-2.4	1.9	-0.10	-0.01	98.5	3.02	-1.0	-2.7	-0.5	0.4	0.0	101.0	101.6	.
2006	15	467	99	8.5	2.6	0.08	-0.00	99.3	3.00	0.3	-0.1	-1.1	0.7	1.1	102.0	103.1	98.0
2007	7	405	227	6.9	6.1	-0.04	-0.00	99.1	3.05	0.3	-0.9	-0.1	0.4	1.1	101.1	102.0	.
2008	16	644	324	13.8	8.3	0.02	-0.02	100.2	2.98	0.9	-0.4	-0.2	1.3	1.3	100.9	99.8	100.0
2009	15	728	186	13.8	4.5	0.11	-0.01	99.3	2.97	2.9	1.1	2.1	2.4	1.5	101.8	102.3	.

Notes:

1. Based on all cows with both production and type indexes.
2. Production in kg EBV units and conformation in EBV points.
3. Conformation indexes based on first lactation classifications of each cow.

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**Nova Scotia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2001	2	167	31	2.0	-2.0	0.03	-0.06	99.5	3.05	3.0	-2.0	0.5	1.5	3.0	102.5	104.0	.
2002	2	-252	161	3.0	3.5	-0.07	-0.03	102.5	3.06	-4.0	-1.0	-1.5	-4.5	1.5	94.0	97.5	.
2003	1	56	72	-5.0	-1.0	-0.13	-0.06	100.0	3.03	4.0	1.0	0.0	2.0	5.0	99.0	102.0	.
2006	1	670	150	15.0	5.0	0.17	0.02	106.0	2.87	-1.0	-2.0	2.0	-3.0	3.0	101.0	.	.
2007	1	1066	611	17.0	14.0	-0.12	-0.07	101.0	2.98	8.0	4.0	5.0	5.0	0.0	100.0	.	.

Notes:

1. Based on all cows with both production and type indexes.
2. Production in kg EBV units and conformation in EBV points.
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**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2004	2	756	113	10.5	4.5	0.11	0.03	102.5	2.91	2.0	-1.5	-1.0	4.0	-1.0	102.0	.	.
2007	2	-242	-187	-7.0	-5.5	0.01	-0.01	98.0	3.11	0.0	-2.0	0.0	-1.0	1.5	99.0	103.0	.
2008	3	554	43	5.7	2.0	0.07	0.01	99.3	2.86	3.3	1.0	2.7	1.3	1.3	101.7	101.0	.

Notes:

1. Based on all cows with both production and type indexes.
2. Production in kg EBV units and conformation in EBV points.
3. Conformation indexes based on first lactation classifications of each cow.

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**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1999	1	-5	-39	-1.0	-5.0	0.01	-0.09	99.0	2.96	2.0	1.0	-6.0	4.0	2.0	99.0	101.0	.
2000	2	-32	130	0.0	0.0	-0.09	-0.08	98.0	3.09	-1.0	-1.5	-1.5	-1.0	2.5	101.0	103.0	101.0
2002	1	128	414	17.0	9.0	0.00	-0.07	102.0	3.06	-1.0	-2.0	-3.0	-1.0	-8.0	94.0	100.0	.
2003	1	272	-264	-1.0	-6.0	0.17	0.03	102.0	2.97	3.0	0.0	1.0	3.0	0.0	101.0	105.0	.
2004	3	-209	-30	-7.3	-2.3	-0.11	-0.03	98.3	3.21	1.0	-4.3	-1.3	3.7	0.7	100.0	100.0	.
2005	1	98	99	2.0	2.0	-0.04	-0.01	98.0	3.00	4.0	6.0	-4.0	3.0	4.0	97.0	.	.
2006	3	14	-65	1.0	-1.0	0.07	0.02	101.0	3.04	-1.7	-3.7	-3.0	0.3	0.7	99.0	100.0	.
2007	2	-63	118	4.5	0.0	-0.01	-0.08	101.0	3.07	-2.0	0.5	-1.5	-2.5	7.0	97.5	.	.
2008	4	38	116	8.0	3.5	0.06	0.00	103.0	2.93	-6.8	-6.8	-2.8	-5.3	-2.5	97.3	99.0	.

Notes:

1. Based on all cows with both production and type indexes.
2. Production in kg EBV units and conformation in EBV points.
3. Conformation indexes based on first lactation classifications of each cow.

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**Ontario**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1999	88	36	-73	-0.5	-1.8	0.04	0.01	98.6	3.06	-0.1	0.3	0.2	-0.0	0.6	99.8	102.0	100.0
2000	83	62	-80	-1.6	-2.1	0.03	0.01	99.1	3.04	-0.2	-0.8	-0.3	0.3	0.1	100.8	102.6	102.0
2001	78	85	37	1.3	0.8	-0.00	-0.00	99.4	3.04	-0.7	-1.1	-0.9	-0.1	-0.1	99.3	101.0	97.1
2002	66	-30	-74	-2.7	-2.3	0.01	-0.00	99.3	3.06	-0.1	-0.3	-0.1	0.1	0.1	99.6	101.1	98.6
2003	81	-41	-32	-1.8	-1.0	-0.01	-0.00	99.9	3.06	-0.3	-0.7	-0.6	-0.0	0.0	98.7	100.5	99.0
2004	80	152	-11	-0.4	-0.4	0.00	-0.00	99.9	2.98	0.2	-1.3	0.2	0.2	-0.4	100.4	100.7	98.5
2005	94	126	-5	-0.5	0.5	-0.01	0.01	100.7	3.01	-0.3	-1.5	0.1	-0.1	-0.4	99.6	100.5	99.5
2006	96	179	-21	-1.3	-1.0	-0.01	-0.01	100.1	2.99	1.3	-0.1	0.6	1.4	0.8	100.9	100.5	98.0
2007	115	366	72	4.1	2.0	0.02	0.00	100.7	2.99	1.7	0.3	0.8	1.5	0.6	100.4	100.6	100.0
2008	94	347	118	4.9	2.7	0.00	-0.01	100.4	3.01	1.4	0.1	0.3	1.4	0.7	100.4	100.8	.
2009	47	462	64	5.1	1.3	0.05	-0.01	101.0	2.97	3.3	1.3	1.2	2.9	1.7	101.2	98.1	.

Notes:

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2. Production in kg EBV units and conformation in EBV points.
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**Manitoba**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1999	3	523	295	15.7	3.7	0.06	-0.10	100.3	2.87	2.7	2.0	-3.3	3.3	0.7	98.3	99.3	98.0
2000	6	-227	-50	0.2	-2.2	0.05	-0.01	99.7	3.15	-0.8	-1.7	-1.7	0.2	0.0	95.8	98.7	93.5
2001	8	-41	-216	-5.9	-5.5	0.05	0.02	100.3	3.04	1.4	0.6	-0.4	1.8	0.9	99.3	101.3	99.0
2002	13	-200	-176	-9.1	-6.0	-0.03	-0.02	98.8	3.05	0.5	-0.4	0.7	0.4	0.1	100.4	100.7	.
2003	15	-215	-178	-9.8	-5.9	-0.05	-0.02	98.6	3.02	0.7	-0.3	-0.5	1.0	0.2	99.2	99.7	98.5
2004	7	-78	-44	-3.0	-2.6	-0.02	-0.03	97.0	2.96	-1.3	-2.7	-1.1	-1.0	-2.0	100.6	102.0	97.0
2005	17	122	-29	0.7	-0.8	0.03	-0.00	100.6	2.97	0.5	-0.6	-1.4	0.8	-1.0	99.2	99.0	98.0
2006	19	355	27	5.1	0.4	0.07	-0.01	99.4	2.99	1.1	0.4	0.5	0.9	-0.2	101.0	102.1	.
2007	22	330	101	2.9	1.0	-0.02	-0.04	99.7	2.97	3.0	1.1	0.0	2.8	1.0	100.9	100.3	.
2008	11	533	147	8.4	3.6	0.04	-0.01	101.3	2.92	2.1	1.3	1.1	0.8	1.6	100.9	104.0	.
2009	11	643	109	8.1	2.1	0.07	-0.02	101.7	3.01	5.6	3.8	2.4	4.6	3.1	101.4	.	.

Notes:

1. Based on all cows with both production and type indexes.
2. Production in kg EBV units and conformation in EBV points.
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**Saskatchewan**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2001	1	-521	373	-11.0	5.0	-0.43	-0.12	103.0	3.27	-2.0	-7.0	-3.0	2.0	-2.0	96.0	99.0	98.0

Notes:

1. Based on all cows with both production and type indexes.
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3. Conformation indexes based on first lactation classifications of each cow.

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**Alberta**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1999	4	-259	-217	-5.3	-6.0	0.06	0.00	97.8	3.04	-0.5	-1.5	-2.3	-0.8	-0.8	100.3	102.0	99.0
2000	5	-240	-86	-5.4	-4.4	-0.04	-0.04	98.0	3.08	-0.8	-0.6	-4.0	1.4	-0.6	99.6	102.8	100.0
2001	7	118	-38	3.4	-0.3	0.09	0.02	98.3	3.01	-1.1	-2.4	-1.4	-0.4	-0.1	100.0	102.8	.
2002	3	370	289	8.0	6.0	-0.07	-0.04	99.0	3.11	1.0	-3.0	-2.0	4.3	0.3	97.7	97.3	95.0
2003	4	347	310	5.5	6.3	-0.11	-0.05	100.0	2.98	0.8	1.0	-1.8	2.3	0.3	99.8	99.0	97.0
2004	8	391	214	9.1	4.5	0.02	-0.04	101.0	2.97	0.0	-1.0	-2.5	1.4	-0.9	99.6	101.0	.
2005	2	2	-228	-4.0	-6.0	0.08	0.02	96.0	3.07	3.0	1.5	-0.5	4.0	0.5	99.0	102.0	.
2006	5	122	208	6.8	5.0	-0.02	-0.02	98.0	2.96	-3.8	-1.4	-4.4	-2.8	0.6	99.4	104.0	.
2007	3	574	125	8.3	2.3	0.05	-0.02	101.0	2.99	2.7	-0.3	0.3	4.0	2.0	102.7	.	.
2008	8	399	143	7.4	3.4	0.03	-0.01	99.0	3.02	1.8	1.0	0.0	1.9	0.9	100.4	101.5	.
2009	8	727	123	10.6	4.0	0.10	0.01	100.6	2.97	3.5	2.5	1.0	3.4	3.8	102.3	104.0	.

Notes:

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2. Production in kg EBV units and conformation in EBV points.
3. Conformation indexes based on first lactation classifications of each cow.