

**Provincial genetic trends by birth year for Milking Shorthorn cows**  
**Canadian Dairy Network, August 2014**

**Prince Edward Island**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2001	11	736	-21	-8.1	-3.1	-0.12	-0.06	96.6	3.21	-1.5	-2.9	-2.7	0.4	0.4	96.2	97.0	98.4
2002	16	934	50	-2.0	-0.3	-0.07	-0.04	97.8	3.07	-1.6	-2.3	-0.8	-1.2	-0.3	98.8	98.3	101.0
2003	13	922	9	-5.1	0.4	-0.09	0.00	97.1	3.14	-1.3	-3.1	-1.1	-0.5	0.1	98.8	99.2	99.7
2004	12	953	78	-4.3	2.3	-0.12	0.01	97.6	3.11	0.2	-2.1	-1.2	0.5	1.5	97.8	97.2	100.8
2005	13	940	8	-8.4	-0.3	-0.14	-0.01	98.2	3.02	-1.8	-3.0	-1.2	-0.8	-0.2	99.5	99.4	101.3
2006	16	1163	83	6.3	2.3	0.05	0.00	99.6	2.97	-1.0	-1.2	-1.9	-0.3	0.5	101.0	101.3	101.1
2007	7	1150	205	5.4	5.6	-0.04	0.00	99.4	3.05	-0.7	-1.6	-0.4	-0.6	1.1	100.7	100.3	100.0
2008	15	1283	332	14.3	8.5	0.02	-0.00	100.5	2.98	-0.3	-1.5	-0.6	0.1	-0.1	99.9	99.4	100.1
2009	14	1283	100	15.4	1.8	0.19	-0.02	97.9	3.09	3.1	1.0	3.0	2.8	1.6	99.9	100.5	98.8
2010	14	1200	12	7.4	0.3	0.11	0.00	97.0	2.99	1.7	-0.2	-0.1	2.1	0.9	100.7	100.3	98.0
2011	15	1418	114	18.2	2.9	0.22	-0.00	99.1	3.08	5.0	2.4	3.4	5.2	3.4	101.3	101.3	97.4

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	1042	-19	-0.5	-2.5	0.01	-0.05	100.0	3.05	2.5	-2.0	-1.0	1.5	3.5	102.0	102.0	.
2002	2	848	121	1.0	2.0	-0.07	-0.02	103.0	3.05	-4.0	-1.0	-1.5	-4.0	2.0	93.5	95.5	.
2003	1	866	-137	-14.0	-5.0	-0.14	-0.04	100.0	3.06	3.0	1.0	-1.0	2.0	4.0	96.0	99.0	.
2006	1	1322	65	12.0	3.0	0.15	0.03	107.0	2.90	1.0	0.0	3.0	-1.0	1.0	101.0	.	.
2007	1	1378	494	11.0	10.0	-0.14	-0.05	101.0	3.05	6.0	4.0	4.0	5.0	1.0	99.0	.	.
2008	1	1263	87	-1.0	1.0	-0.08	-0.02	100.0	2.82	4.0	2.0	1.0	3.0	6.0	104.0	99.0	103.0
2010	1	1210	-185	3.0	-5.0	0.17	-0.01	100.0	2.97	5.0	2.0	0.0	5.0	3.0	100.0	101.0	.
2011	1	1352	36	7.0	2.0	0.09	0.02	103.0	2.95	6.0	4.0	3.0	4.0	3.0	102.0	.	.

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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**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2004	2	1279	72	8.0	3.5	0.08	0.03	103.0	2.90	0.5	-2.5	-1.5	2.5	-0.5	100.5	.	.
2007	2	769	-309	-13.5	-8.0	-0.02	0.01	98.5	3.13	-0.5	-2.5	-0.5	-1.5	1.0	98.0	100.0	.
2008	3	1157	-15	3.0	0.3	0.06	0.02	99.7	2.87	1.7	0.3	1.7	0.3	1.0	99.7	99.3	.
2010	1	1262	-138	10.0	-3.0	0.26	0.02	99.0	2.91	3.0	2.0	-1.0	3.0	-1.0	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.
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
2002	1	918	301	10.0	5.0	-0.03	-0.06	103.0	3.03	-2.0	-2.0	-4.0	-2.0	-8.0	93.0	98.0	100.0
2003	1	962	-379	-8.0	-9.0	0.12	0.03	102.0	2.98	1.0	0.0	0.0	2.0	-1.0	99.0	102.0	.
2004	3	788	-71	-11.7	-3.0	-0.14	-0.03	98.0	3.22	-0.3	-4.7	-2.3	2.3	0.7	98.3	97.7	.
2005	1	915	-149	-6.0	-3.0	0.00	0.02	97.0	3.07	4.0	5.0	-5.0	3.0	3.0	97.0	101.0	.
2006	3	901	-207	-6.0	-4.0	0.04	0.04	101.0	3.04	-2.3	-4.0	-3.0	-0.7	0.0	98.3	101.0	96.0
2007	2	989	112	3.5	0.0	-0.02	-0.07	100.5	3.05	-1.5	0.0	-2.0	-2.0	6.5	98.0	.	.
2008	5	975	46	2.4	1.0	0.01	0.00	102.8	2.99	-4.2	-4.6	-3.4	-2.8	-1.2	97.2	98.0	99.0
2009	2	986	128	3.0	0.5	-0.03	-0.06	98.5	2.98	-3.5	-0.5	-4.5	-2.5	2.5	98.0	.	.
2010	4	1295	44	14.8	3.0	0.21	0.05	102.8	3.09	3.3	-1.5	1.8	4.0	-1.0	100.3	99.0	.
2011	8	1231	82	7.5	1.5	0.07	-0.02	100.3	2.99	2.6	0.0	1.8	2.1	1.3	101.0	102.0	98.0

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
2001	79	972	-10	-1.6	-0.2	-0.02	0.00	99.6	3.03	-1.6	-1.8	-1.8	-1.0	0.1	98.5	98.9	97.6
2002	66	909	-141	-6.5	-3.4	-0.01	0.00	99.7	3.06	-1.0	-0.9	-1.1	-0.6	0.1	98.7	99.4	98.6
2003	81	898	-93	-5.6	-2.2	-0.03	0.00	100.1	3.07	-1.2	-1.3	-1.6	-0.7	-0.1	97.8	98.4	99.0
2004	80	987	-88	-4.8	-2.1	-0.02	0.01	100.0	2.99	-0.9	-1.9	-0.8	-0.4	-0.8	99.5	98.9	99.6
2005	94	977	-69	-4.6	-0.9	-0.03	0.02	100.8	3.02	-1.1	-1.9	-0.7	-0.8	-0.8	98.6	98.8	96.4
2006	98	1000	-102	-5.6	-2.8	-0.03	-0.00	100.2	3.00	0.4	-0.7	0.0	0.5	0.4	100.0	99.0	99.6
2007	118	1084	3	0.3	0.4	0.01	0.01	100.7	3.01	0.5	-0.3	0.2	0.4	0.1	99.5	99.2	99.0
2008	100	1101	62	1.9	1.5	-0.01	-0.00	100.8	3.02	0.5	-0.3	-0.3	0.6	0.4	99.7	99.5	101.0
2009	87	1177	6	3.8	0.2	0.06	0.00	101.1	2.96	1.6	0.3	0.5	1.6	1.4	100.9	99.8	100.2
2010	107	1189	62	6.6	2.3	0.07	0.02	101.4	3.02	1.0	0.1	0.5	1.1	0.8	100.1	100.4	98.8
2011	73	1210	46	4.7	1.0	0.05	-0.00	100.4	3.01	2.5	1.8	1.4	2.4	2.2	100.6	100.0	.

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.

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**Manitoba**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2001	8	921	-253	-8.0	-5.6	0.04	0.02	100.1	3.05	0.4	-0.5	-1.3	1.1	1.1	98.5	99.2	99.5
2002	13	808	-255	-13.3	-7.5	-0.05	-0.02	98.7	3.07	-0.8	-1.2	-0.7	-0.5	0.3	99.4	98.8	96.0
2003	15	799	-264	-14.7	-7.4	-0.07	-0.01	98.6	3.03	-0.3	-1.1	-1.6	0.2	-0.1	98.1	97.8	99.6
2004	7	859	-134	-7.7	-4.6	-0.04	-0.02	96.4	2.98	-2.1	-2.9	-2.0	-1.7	-1.7	99.3	99.8	98.0
2005	17	978	-93	-3.2	-2.1	0.01	0.01	100.5	2.98	-0.6	-1.2	-2.1	-0.1	-1.8	98.1	98.1	101.0
2006	20	1119	-49	2.2	-1.0	0.07	0.01	99.7	3.00	0.7	-0.2	0.1	0.8	-0.4	100.4	100.8	101.0
2007	25	1074	5	-0.4	-1.3	-0.01	-0.03	99.6	2.97	1.4	0.4	-0.8	1.5	0.6	99.9	98.7	102.0
2008	15	1169	72	5.7	1.6	0.05	-0.00	100.8	2.95	0.6	0.3	0.0	0.2	0.9	100.1	101.8	101.0
2009	20	1359	144	12.8	3.6	0.11	-0.00	100.2	2.99	4.5	2.9	0.8	4.3	2.8	101.6	100.2	97.0
2010	22	1160	-48	1.9	-2.2	0.06	-0.02	98.2	2.97	3.2	1.1	-0.7	3.4	2.5	101.7	.	103.0
2011	19	1245	65	9.1	1.3	0.11	-0.01	99.2	3.01	3.8	3.0	-0.9	4.0	3.7	100.8	.	.

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	653	284	-16.0	3.0	-0.44	-0.10	103.0	3.27	-3.0	-7.0	-4.0	0.0	-1.0	95.0	97.0	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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**Alberta**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2001	7	988	-66	1.1	-1.0	0.06	0.02	98.0	3.00	-1.6	-2.9	-2.4	-1.0	0.4	99.0	100.5	.
2002	3	1079	250	5.3	5.0	-0.08	-0.03	99.0	3.11	-0.7	-3.3	-3.0	2.7	1.0	96.3	95.3	96.0
2003	4	1055	256	2.8	4.8	-0.12	-0.05	99.8	2.99	-0.8	0.0	-2.0	0.5	0.8	97.5	96.7	98.0
2004	8	1113	185	6.8	3.5	-0.01	-0.03	101.5	2.96	-1.1	-1.8	-3.3	0.4	-0.5	98.6	98.6	.
2005	2	951	-223	-7.0	-5.0	0.04	0.01	96.0	3.05	2.5	1.0	-1.0	3.5	1.0	98.0	98.5	.
2006	5	1016	180	3.6	3.8	-0.06	-0.02	97.6	2.94	-3.6	-1.8	-4.8	-2.8	0.4	99.0	101.0	.
2007	2	1116	219	5.0	3.0	-0.06	-0.06	100.0	2.98	-1.5	-5.0	-0.5	-0.5	-1.0	101.5	.	.
2008	7	1092	82	1.6	1.6	-0.03	-0.02	97.6	3.04	0.9	-0.1	-1.0	0.7	0.4	100.9	102.0	.
2009	7	1177	-13	2.0	1.0	0.05	0.02	100.4	2.99	1.6	1.4	-0.1	1.7	2.7	101.0	105.0	.
2010	5	1156	114	4.2	2.2	-0.00	-0.02	98.8	3.02	1.6	1.4	-0.4	2.4	2.4	100.4	98.0	.
2011	1	1482	284	24.0	7.0	0.20	0.00	100.0	2.75	1.0	3.0	-1.0	0.0	4.0	103.0	.	.

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.