

Provincial genetic trends by birth year for Milking Shorthorn cows
Canadian Dairy Network, August 2016

Prince Edward Island

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2003	13	951	-26	-11.5	-0.2	-0.18	0.01	97.7	3.08	-1.8	-3.3	-1.2	-1.1	-0.2	99.0	99.1	100.4
2004	12	913	67	-13.6	0.7	-0.29	-0.03	98.2	3.08	-0.4	-2.3	-2.0	0.2	1.0	97.1	97.9	100.4
2005	13	923	-15	-17.6	-1.8	-0.30	-0.03	99.3	3.00	-2.0	-3.0	-1.5	-1.0	-0.5	99.5	99.1	101.3
2006	16	1158	90	-0.6	1.5	-0.08	-0.03	100.7	2.93	-1.1	-1.3	-2.1	-0.6	0.4	101.1	100.6	100.7
2007	7	1103	173	-3.3	3.6	-0.19	-0.02	100.3	3.02	-1.0	-1.7	-1.0	-0.9	0.6	100.4	99.8	99.0
2008	15	1243	332	7.4	6.8	-0.12	-0.04	102.1	2.95	-0.6	-1.2	-1.1	-0.4	-0.3	99.7	99.1	100.3
2009	15	1306	137	13.9	0.8	0.15	-0.07	100.7	3.04	2.4	0.7	3.3	1.6	1.7	100.1	100.6	97.6
2010	14	1223	35	5.1	-0.6	0.07	-0.03	99.4	2.97	1.3	-0.5	0.3	1.6	1.1	101.0	100.2	99.4
2011	21	1461	27	17.6	1.6	0.29	0.03	101.5	3.04	5.0	2.5	4.0	4.9	3.1	100.8	99.7	96.0
2012	10	1230	72	-1.5	-0.1	-0.08	-0.05	99.0	2.94	1.9	-0.3	1.4	2.2	0.9	102.3	100.7	98.0
2013	16	1622	339	23.7	9.5	0.17	0.02	103.0	2.97	4.7	3.1	2.8	4.6	3.4	101.8	101.7	.

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
2003	1	1026	-130	-25.0	-5.0	-0.35	-0.03	102.0	2.92	3.0	1.0	-1.0	3.0	3.0	99.0	100.0	.
2006	1	1472	24	16.0	4.0	0.26	0.08	105.0	2.99	2.0	1.0	4.0	1.0	0.0	102.0	.	.
2007	1	1298	377	-2.0	7.0	-0.31	-0.07	102.0	3.01	5.0	3.0	3.0	4.0	1.0	99.0	.	.
2008	1	1209	177	-3.0	1.0	-0.19	-0.08	102.0	2.92	3.0	1.0	0.0	3.0	4.0	100.0	101.0	102.0
2010	1	1266	-266	-11.0	-8.0	0.01	-0.03	100.0	2.83	4.0	1.0	0.0	4.0	3.0	104.0	106.0	.
2011	1	1908	604	35.0	17.0	0.15	0.03	103.0	2.91	8.0	7.0	5.0	6.0	3.0	104.0	.	.

Notes:

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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	1314	52	2.0	4.0	-0.01	0.06	103.0	2.86	-0.5	-3.5	-2.5	1.5	0.0	102.0	.	.
2007	2	777	-379	-25.0	-10.5	-0.16	-0.02	98.5	3.07	-1.5	-2.5	-0.5	-1.5	0.5	99.5	100.0	.
2008	3	1103	-59	-3.7	-1.3	-0.02	0.01	100.0	2.89	0.7	-0.7	0.7	-0.7	0.7	99.7	99.0	100.0
2010	1	1366	-140	13.0	-3.0	0.34	0.02	100.0	2.94	1.0	1.0	0.0	2.0	-1.0	102.0	104.0	.
2011	2	1334	362	10.0	7.0	-0.10	-0.06	104.5	2.79	-1.5	-2.5	-0.5	-2.5	2.5	102.5	102.0	99.0
2013	1	1303	298	18.0	4.0	0.09	-0.10	102.0	3.00	2.0	0.0	0.0	2.0	3.0	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.
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Quebec

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2003	1	1117	-398	-15.0	-8.0	0.03	0.06	102.0	2.89	1.0	0.0	-1.0	3.0	-1.0	104.0	102.0	.
2004	3	725	-136	-22.7	-5.7	-0.30	-0.06	97.3	3.19	-1.0	-5.0	-3.0	1.3	0.3	97.3	97.3	98.0
2005	1	975	-182	-16.0	-4.0	-0.15	0.01	95.0	3.02	4.0	5.0	-5.0	5.0	3.0	98.0	101.0	103.0
2006	3	931	-261	-11.3	-5.0	-0.01	0.05	100.0	3.03	-3.0	-4.7	-2.7	-0.7	-0.7	98.7	103.0	96.0
2007	2	977	182	-2.0	-0.5	-0.18	-0.14	101.0	3.03	-1.5	-0.5	-2.0	-2.0	5.5	97.0	94.0	.
2008	5	967	-60	-5.2	-1.4	-0.05	0.01	102.0	3.00	-4.2	-5.2	-3.8	-3.0	-2.0	99.0	98.5	98.0
2009	2	1032	185	1.0	1.0	-0.13	-0.10	100.0	2.98	-3.0	-0.5	-4.5	-2.5	2.0	97.0	.	.
2010	4	1260	-20	15.0	1.5	0.28	0.05	102.5	3.08	1.5	-2.0	1.0	2.5	-2.0	99.3	98.3	99.0
2011	8	1238	23	1.6	-0.6	0.02	-0.03	99.9	2.97	2.3	-0.1	1.5	2.0	1.1	101.9	102.0	99.4
2012	5	1305	35	1.6	-2.4	0.01	-0.08	99.2	2.99	4.8	1.8	1.8	5.2	-0.6	105.2	103.0	102.0
2013	5	1263	-83	6.0	-2.4	0.18	-0.01	99.8	3.05	4.0	1.2	2.4	4.4	0.2	101.4	101.3	98.5

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
2003	81	914	-141	-13.3	-3.4	-0.13	0.01	99.7	3.04	-1.2	-1.3	-1.7	-0.6	-0.1	98.1	98.3	99.2
2004	81	1002	-135	-12.3	-2.9	-0.12	0.02	99.3	2.99	-0.8	-1.8	-1.0	-0.4	-0.9	100.0	99.1	99.9
2005	94	993	-117	-11.4	-1.9	-0.11	0.03	99.8	3.02	-1.0	-1.8	-0.9	-0.9	-0.9	99.2	98.9	98.8
2006	98	998	-144	-13.2	-4.0	-0.13	-0.00	99.3	3.02	0.1	-0.7	-0.2	0.3	0.1	100.2	99.0	98.8
2007	118	1089	-30	-5.6	-0.7	-0.08	0.00	100.0	3.02	0.3	-0.4	0.0	0.3	-0.4	99.7	99.4	100.1
2008	102	1094	14	-4.3	0.1	-0.09	-0.01	100.2	3.02	0.3	-0.3	-0.6	0.5	-0.1	99.6	99.4	100.2
2009	93	1167	-37	-1.0	-0.9	0.02	0.00	100.4	2.99	1.1	-0.0	0.2	1.2	0.7	100.7	100.2	99.1
2010	118	1166	8	1.5	0.7	0.02	0.01	101.4	3.02	0.4	-0.4	0.4	0.4	0.7	100.0	100.3	100.2
2011	98	1281	91	3.9	2.2	0.00	-0.00	101.2	3.00	2.2	1.4	1.1	2.3	1.5	100.7	100.2	101.0
2012	82	1294	6	4.0	0.6	0.07	0.02	101.2	3.00	3.0	1.4	2.1	2.7	2.6	101.6	100.7	101.2
2013	67	1299	6	2.7	0.6	0.05	0.01	101.2	3.01	3.3	2.3	2.3	3.0	2.4	101.6	101.1	100.0

Notes:

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Manitoba

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2003	15	789	-376	-26.8	-10.3	-0.19	-0.01	98.1	3.01	-0.4	-1.1	-1.7	0.3	-0.1	99.0	97.7	99.4
2004	7	831	-254	-17.6	-7.3	-0.11	-0.01	96.1	2.97	-2.3	-2.9	-2.0	-1.9	-1.9	99.1	99.3	98.5
2005	17	989	-187	-11.5	-3.6	-0.07	0.03	100.3	2.99	-0.5	-1.1	-2.4	0.1	-2.1	98.9	98.3	101.8
2006	20	1125	-163	-4.6	-2.9	0.04	0.04	100.1	2.99	0.5	-0.2	0.1	0.8	-1.0	100.4	100.3	97.8
2007	26	1051	-57	-9.0	-3.4	-0.12	-0.05	99.5	2.98	1.3	0.3	-1.0	1.8	0.0	99.3	98.8	100.5
2008	16	1165	-13	-1.8	-0.3	-0.02	0.00	100.3	2.95	0.5	0.1	-0.5	0.4	-0.1	100.9	101.0	99.0
2009	24	1296	41	6.6	1.2	0.09	0.00	99.7	2.99	3.1	2.3	0.0	3.4	2.1	100.4	99.4	98.2
2010	22	1171	-103	-2.9	-4.1	0.03	-0.03	98.4	2.98	3.1	1.1	-0.6	4.0	2.6	101.1	99.3	102.0
2011	27	1313	142	8.9	2.7	0.05	-0.02	99.6	2.99	3.4	3.0	-0.6	3.8	3.1	99.6	99.5	.
2012	36	1441	98	13.2	3.7	0.16	0.03	100.6	2.97	4.1	2.9	0.3	4.6	2.7	101.3	101.5	.
2013	16	1279	133	3.3	1.5	-0.04	-0.04	100.1	2.96	2.2	0.8	-0.8	3.3	3.0	101.4	.	.

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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Alberta

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2003	4	1034	289	-6.3	3.8	-0.32	-0.10	100.3	2.97	-0.5	0.0	-2.3	0.3	0.8	97.0	97.0	97.0
2004	8	1095	142	-2.3	2.5	-0.15	-0.03	101.0	2.98	-1.0	-1.9	-3.1	0.3	-0.8	98.5	98.4	101.0
2005	2	1021	-332	-9.0	-6.0	0.10	0.06	95.0	3.05	2.0	0.5	-1.0	3.0	1.0	99.0	98.5	.
2006	5	1014	191	-6.0	4.0	-0.24	-0.02	97.8	2.94	-3.2	-1.8	-4.6	-2.0	0.4	97.6	101.0	.
2007	2	1148	278	-4.0	4.0	-0.28	-0.09	100.0	3.00	-2.0	-5.0	-0.5	-1.0	-1.5	104.5	.	.
2008	7	1056	84	-7.4	0.3	-0.19	-0.05	98.4	3.04	0.7	-0.1	-0.4	0.6	0.0	100.1	101.3	.
2009	7	1230	-83	-2.4	1.0	0.03	0.08	99.7	3.01	1.6	1.1	0.6	1.7	2.1	101.3	103.5	.
2010	5	1164	46	-0.6	1.2	-0.04	0.01	98.4	3.04	1.4	0.8	-0.4	2.0	2.0	99.6	99.3	.
2011	1	1448	305	24.0	4.0	0.20	-0.11	104.0	2.76	0.0	2.0	0.0	-2.0	4.0	104.0	105.0	.
2012	1	1524	658	17.0	12.0	-0.19	-0.11	102.0	2.78	4.0	6.0	1.0	2.0	5.0	106.0	.	.

Notes:

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