

Provincial genetic trends by birth year for Milking Shorthorn cows
Canadian Dairy Network, August 2013

Prince Edward Island

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2000	22	876	83	-2.9	-0.5	-0.10	-0.06	99.4	3.13	-0.4	-2.4	-2.9	1.7	0.5	97.2	97.6	97.7
2001	11	743	29	-4.6	-2.3	-0.10	-0.07	96.5	3.21	-1.5	-2.9	-2.5	0.5	0.6	96.3	97.8	98.3
2002	16	940	99	0.7	0.8	-0.06	-0.04	97.9	3.06	-1.8	-2.4	-0.8	-1.4	0.0	98.7	99.5	101.0
2003	13	955	62	-1.8	1.9	-0.07	0.00	97.0	3.13	-1.5	-2.9	-1.0	-0.5	0.5	99.1	99.7	99.7
2004	12	987	124	-0.8	3.7	-0.10	0.01	97.5	3.11	-0.1	-2.0	-0.9	0.7	1.9	98.3	97.9	98.6
2005	13	957	48	-5.0	0.8	-0.12	-0.01	98.1	3.02	-1.8	-2.9	-1.2	-0.5	-0.2	99.8	99.8	101.0
2006	15	1153	103	8.2	2.9	0.07	0.00	99.7	2.99	-0.7	-0.9	-1.6	-0.5	0.9	100.5	101.4	100.5
2007	7	1147	231	7.1	6.4	-0.04	-0.00	99.4	3.04	-0.9	-1.4	-0.6	-0.7	1.7	100.3	100.8	.
2008	15	1294	338	14.7	9.2	0.02	-0.01	100.7	2.97	-0.1	-1.7	-0.5	0.1	0.3	100.5	99.9	99.8
2009	15	1314	142	14.1	3.3	0.15	-0.02	98.2	3.00	2.6	0.2	2.1	2.6	0.8	101.0	101.4	98.5
2010	13	1217	69	9.8	1.6	0.12	-0.01	97.9	2.99	2.0	-0.5	0.1	2.5	0.9	100.6	99.5	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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Nova Scotia

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2001	2	1036	35	2.0	-2.0	0.02	-0.06	99.5	3.04	2.5	-2.0	-0.5	1.5	3.5	102.0	102.0	.
2002	2	845	156	2.5	3.5	-0.07	-0.03	102.5	3.05	-4.0	-1.0	-1.5	-4.5	2.0	93.5	96.5	.
2003	1	995	30	-7.0	-2.0	-0.14	-0.06	100.0	3.03	4.0	2.0	0.0	3.0	4.0	98.0	101.0	.
2006	1	1263	91	12.0	3.0	0.14	0.02	106.0	2.90	0.0	-1.0	3.0	-2.0	0.0	100.0	.	.
2007	1	1458	604	15.0	14.0	-0.16	-0.08	101.0	3.02	6.0	4.0	4.0	5.0	1.0	99.0	.	.
2008	1	1197	82	-1.0	1.0	-0.09	-0.03	99.0	2.88	3.0	2.0	1.0	3.0	6.0	103.0	100.0	101.0
2010	1	1242	-17	8.0	-2.0	0.15	-0.03	101.0	2.93	5.0	1.0	-1.0	6.0	2.0	99.0	.	.

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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	1250	90	9.0	3.5	0.10	0.03	103.0	2.91	0.5	-2.5	-2.0	3.0	-0.5	100.0	.	.
2007	2	761	-270	-11.0	-7.5	0.01	0.01	98.5	3.11	-1.0	-2.5	-0.5	-1.5	1.5	98.0	101.0	.
2008	3	1176	31	5.7	1.3	0.08	0.02	100.0	2.86	1.7	0.0	2.0	0.0	1.3	99.7	100.3	.

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Quebec

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2000	2	892	102	-1.5	-0.5	-0.09	-0.08	97.5	3.10	-2.5	-3.0	-2.5	-2.0	2.5	100.0	102.0	101.0
2002	1	1029	416	16.0	9.0	-0.01	-0.07	102.0	3.08	-2.0	-2.0	-3.0	-1.0	-7.0	94.0	98.0	.
2003	1	1007	-316	-4.0	-8.0	0.15	0.03	102.0	2.97	2.0	0.0	0.0	3.0	0.0	100.0	103.0	.
2004	3	785	-45	-8.3	-2.7	-0.12	-0.03	98.0	3.21	-0.3	-5.0	-2.3	2.0	0.7	98.3	98.3	.
2005	1	950	15	-1.0	0.0	-0.04	0.00	98.0	3.06	4.0	5.0	-5.0	3.0	4.0	97.0	.	.
2006	3	933	-125	-2.0	-2.3	0.06	0.04	101.3	3.03	-2.3	-4.0	-3.3	0.3	0.7	98.0	100.0	96.0
2007	2	932	103	4.0	-0.5	-0.02	-0.08	100.5	3.05	-2.0	0.0	-2.0	-2.5	6.0	97.5	.	.
2008	5	1012	120	6.4	3.2	0.03	-0.00	103.4	2.95	-4.6	-4.8	-3.2	-3.4	-0.6	97.4	98.0	99.0
2009	2	968	150	4.0	1.0	-0.04	-0.07	98.5	2.98	-4.0	-0.5	-4.5	-2.5	3.0	98.0	.	.
2010	3	1491	315	24.7	11.3	0.19	0.04	101.7	3.09	3.0	-2.0	1.7	3.7	0.0	101.3	.	.

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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Ontario

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2000	83	941	-100	-2.8	-2.5	0.02	0.01	99.0	3.04	-1.2	-1.4	-1.2	-0.5	0.3	99.5	100.8	102.0
2001	78	970	29	0.7	0.7	-0.01	-0.00	99.5	3.03	-1.7	-1.8	-1.8	-0.9	0.2	98.4	99.3	97.6
2002	66	891	-101	-4.1	-3.0	0.00	0.00	99.3	3.06	-1.2	-1.0	-1.0	-0.7	0.3	98.5	99.6	98.1
2003	81	899	-49	-2.9	-1.5	-0.01	0.00	100.0	3.06	-1.3	-1.3	-1.4	-0.7	0.1	97.8	98.8	99.0
2004	80	985	-44	-2.0	-1.2	-0.00	0.00	100.0	2.98	-1.0	-2.0	-0.4	-0.6	-0.5	99.3	99.2	99.4
2005	94	975	-32	-2.0	-0.2	-0.01	0.02	100.7	3.01	-1.2	-2.0	-0.6	-0.9	-0.6	98.6	99.0	94.0
2006	97	999	-52	-3.0	-1.9	-0.01	-0.01	100.0	2.99	0.2	-0.7	0.1	0.4	0.7	100.0	99.2	99.5
2007	117	1099	52	2.9	1.5	0.01	0.00	100.6	2.99	0.6	-0.2	0.3	0.5	0.3	99.6	99.3	100.7
2008	97	1106	112	3.9	2.7	-0.01	-0.01	100.4	3.01	0.4	-0.3	-0.2	0.7	0.7	99.7	99.3	.
2009	83	1165	61	5.8	1.3	0.06	-0.01	100.9	2.97	1.6	0.1	0.5	1.8	1.2	100.2	98.5	.
2010	84	1212	135	9.0	4.1	0.06	0.01	100.7	3.00	1.0	0.2	0.0	1.6	0.7	99.8	99.6	98.0

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
2000	6	800	-73	-1.0	-2.7	0.04	-0.01	99.3	3.16	-1.8	-2.0	-2.3	-1.0	0.5	95.3	97.0	95.0
2001	8	884	-235	-7.0	-5.9	0.04	0.02	100.3	3.04	0.5	-0.6	-1.3	1.1	1.0	98.1	99.2	99.0
2002	13	797	-210	-10.6	-7.1	-0.03	-0.02	98.5	3.06	-0.8	-1.0	-0.5	-0.5	0.5	99.3	99.2	96.0
2003	15	792	-203	-11.0	-6.7	-0.05	-0.01	98.5	3.02	-0.5	-0.9	-1.5	0.0	0.4	97.9	98.2	99.0
2004	7	859	-70	-4.4	-3.4	-0.02	-0.03	96.6	2.98	-2.3	-2.7	-1.9	-2.0	-1.4	99.3	100.3	97.0
2005	17	977	-58	-0.9	-1.5	0.02	0.00	100.5	2.97	-0.5	-1.1	-1.9	0.1	-1.1	98.2	98.2	98.0
2006	20	1105	-3	4.1	-0.1	0.07	0.00	99.5	2.99	0.5	-0.3	0.1	0.6	-0.3	99.9	100.8	100.0
2007	22	1100	79	2.0	0.5	-0.02	-0.04	99.2	2.97	1.8	0.3	-0.5	2.1	0.6	100.1	98.2	99.0
2008	11	1195	98	6.5	2.3	0.04	-0.01	101.0	2.92	1.5	0.8	0.8	0.5	1.3	100.8	103.0	.
2009	18	1364	164	11.4	4.1	0.08	-0.02	99.7	2.96	5.2	3.6	1.3	4.8	2.8	101.9	98.7	97.0
2010	10	1176	31	4.2	-0.8	0.06	-0.04	97.3	2.97	3.8	1.8	0.1	3.7	2.6	101.4	.	.

Notes:

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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	691	351	-12.0	5.0	-0.44	-0.12	103.0	3.27	-3.0	-7.0	-3.0	1.0	-1.0	95.0	97.0	99.0

Notes:

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Alberta

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2000	5	801	-81	-5.8	-4.0	-0.05	-0.04	98.0	3.07	-1.8	-1.6	-4.8	0.4	-0.2	98.4	100.4	99.5
2001	7	982	-31	3.3	-0.1	0.08	0.01	97.9	3.00	-1.7	-3.0	-2.1	-1.3	0.4	99.0	100.5	.
2002	3	1098	286	7.3	6.0	-0.08	-0.05	99.0	3.11	0.0	-3.3	-2.7	3.0	1.0	96.7	95.7	97.0
2003	4	1062	283	4.3	5.8	-0.12	-0.05	99.0	3.00	-0.5	-0.3	-2.3	0.8	0.5	98.0	97.0	98.0
2004	8	1129	225	9.1	4.8	-0.00	-0.04	100.9	2.97	-1.1	-1.8	-2.9	0.4	-0.4	98.6	99.5	.
2005	2	930	-177	-3.0	-4.5	0.07	0.00	96.0	3.06	2.5	1.0	-1.0	3.0	1.0	97.5	99.0	.
2006	5	1019	228	6.8	5.4	-0.04	-0.03	97.6	2.95	-3.8	-2.0	-5.2	-2.8	0.4	98.6	102.0	.
2007	3	1285	200	10.3	4.0	0.04	-0.03	100.3	2.99	2.7	-0.7	0.3	3.7	1.7	102.3	.	.
2008	8	1101	142	4.9	2.5	-0.02	-0.04	97.5	3.03	1.1	0.4	-0.8	1.4	0.6	100.0	100.7	.
2009	8	1280	69	8.0	2.9	0.10	0.02	99.9	2.95	2.5	1.4	-0.1	3.3	2.8	101.5	102.0	.
2010	5	1178	183	7.8	3.6	0.01	-0.03	98.4	3.01	2.0	1.6	-1.0	2.8	2.2	100.0	97.7	.

Notes:

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