

Provincial genetic trends by birth year for Holstein 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	2186	1364	-490	-16.4	-16.7	0.02	-0.00	100.6	3.02	-3.4	-2.4	-2.0	-3.8	-0.8	100.3	102.0	100.4
2002	2288	1403	-437	-15.2	-14.6	0.01	-0.00	100.5	3.01	-2.5	-1.4	-1.5	-3.2	-0.0	100.1	101.4	100.1
2003	2212	1444	-333	-15.3	-13.0	-0.02	-0.02	99.8	3.05	-1.6	-0.6	-1.0	-2.3	0.4	100.2	101.7	100.9
2004	2410	1491	-237	-12.8	-9.7	-0.04	-0.02	100.0	3.04	-1.1	-0.2	-0.8	-1.7	0.3	99.9	101.3	100.1
2005	2243	1540	-237	-10.8	-8.6	-0.01	-0.00	99.9	3.04	-0.3	0.2	-0.2	-0.9	0.6	100.3	101.0	99.8
2006	2207	1613	-168	-6.7	-6.4	-0.00	-0.01	99.7	3.03	0.5	0.6	0.4	-0.1	1.1	100.9	101.0	100.6
2007	2218	1692	-45	-1.2	-1.9	0.01	-0.00	99.4	3.00	1.1	1.0	0.6	0.6	1.2	101.2	100.7	100.4
2008	2234	1772	77	1.5	2.0	-0.01	-0.00	99.3	2.99	2.0	1.5	1.4	1.4	1.7	101.6	100.6	100.7
2009	2269	1824	145	5.6	4.2	0.01	-0.00	99.4	2.98	2.4	1.5	1.6	1.9	1.9	101.9	100.5	100.6
2010	2271	1903	191	10.7	7.1	0.04	0.01	99.6	2.96	3.4	2.4	2.5	2.6	2.1	102.1	100.1	100.4
2011	1606	2022	319	16.5	10.3	0.05	0.00	99.3	2.94	5.0	3.5	3.9	4.0	2.9	103.0	100.1	101.2

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	3320	1389	-432	-14.0	-13.6	0.02	0.01	99.5	3.02	-4.0	-2.8	-2.2	-4.2	-1.2	100.5	102.0	100.8
2002	3349	1415	-374	-13.8	-12.2	0.00	0.00	99.4	3.03	-3.1	-1.9	-1.7	-3.6	-0.6	100.2	101.6	100.8
2003	3387	1470	-289	-14.0	-10.2	-0.03	-0.00	99.2	3.05	-2.0	-1.1	-0.9	-2.6	-0.3	100.4	101.7	101.3
2004	3338	1500	-245	-10.8	-8.3	-0.01	0.00	99.6	3.04	-1.8	-0.9	-1.2	-2.1	-0.5	100.2	101.4	100.5
2005	3191	1570	-172	-7.6	-5.3	-0.01	0.00	99.3	3.03	-1.0	-0.5	-0.7	-1.3	-0.0	100.7	101.3	100.6
2006	2778	1657	-119	-2.1	-2.6	0.03	0.01	99.3	3.00	-0.2	-0.2	-0.1	-0.6	0.5	101.4	101.5	101.2
2007	2865	1707	20	0.5	0.6	0.00	0.00	99.1	3.01	0.4	0.1	0.3	0.2	0.4	101.2	101.1	100.4
2008	3166	1789	96	4.5	3.9	0.02	0.01	99.2	2.98	1.3	0.8	1.0	0.8	1.2	101.8	101.1	100.8
2009	2976	1833	155	7.2	5.3	0.02	0.00	98.6	2.98	1.9	1.2	1.3	1.5	1.5	102.1	100.9	100.7
2010	3049	1921	275	12.4	9.2	0.03	0.00	99.1	2.96	2.8	1.9	1.9	2.2	2.0	102.4	100.9	100.9
2011	2263	2035	361	19.3	13.0	0.06	0.01	99.0	2.95	4.0	2.7	3.1	3.3	2.4	103.2	100.8	101.8

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
2001	2697	1378	-413	-14.3	-14.9	0.01	-0.01	100.4	3.02	-3.9	-2.8	-2.3	-4.2	-1.0	100.4	102.3	100.7
2002	2653	1409	-360	-14.4	-12.4	-0.01	-0.00	99.9	3.02	-3.2	-1.9	-1.8	-3.7	-0.5	100.2	101.7	100.8
2003	2576	1458	-260	-14.1	-10.3	-0.04	-0.01	99.3	3.04	-2.3	-1.3	-1.3	-2.7	-0.1	100.4	101.8	101.4
2004	2575	1509	-117	-10.9	-7.0	-0.06	-0.03	99.5	3.05	-1.7	-0.9	-1.0	-2.0	-0.5	100.1	101.3	101.0
2005	2457	1562	-100	-8.6	-5.7	-0.04	-0.02	99.4	3.03	-0.9	-0.5	-0.5	-1.2	-0.1	100.6	101.1	100.8
2006	2357	1632	-49	-4.0	-3.3	-0.02	-0.01	99.2	3.01	-0.1	-0.0	-0.1	-0.5	0.6	101.2	101.0	101.3
2007	2339	1700	42	0.7	0.6	-0.00	-0.00	99.0	3.00	0.2	0.2	0.1	-0.0	0.3	101.2	100.9	100.8
2008	2401	1769	146	3.4	3.5	-0.01	-0.01	99.1	2.98	1.1	0.8	0.9	0.5	1.0	101.7	100.9	101.1
2009	2322	1814	219	5.9	5.8	-0.01	-0.01	98.8	2.98	1.5	0.7	1.0	1.1	1.2	102.0	100.9	100.8
2010	2232	1894	274	11.6	9.6	0.02	0.01	98.9	2.97	2.3	1.8	1.8	1.6	1.6	101.9	100.4	100.6
2011	1542	2019	375	18.2	12.8	0.04	0.01	98.5	2.96	4.0	2.9	3.4	2.9	2.6	103.0	100.5	101.6

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
2001	67166	1374	-490	-15.2	-15.0	0.03	0.01	100.0	3.03	-4.0	-2.7	-2.2	-4.4	-0.8	100.4	102.5	100.8
2002	69347	1415	-414	-14.6	-12.7	0.01	0.01	100.0	3.03	-3.3	-2.1	-1.6	-3.8	-0.4	100.3	102.2	101.0
2003	69495	1474	-262	-13.2	-9.3	-0.03	-0.00	99.4	3.06	-2.4	-1.5	-1.2	-2.9	-0.3	100.4	102.2	101.5
2004	70020	1519	-203	-8.9	-6.9	-0.01	-0.00	99.8	3.04	-2.0	-1.3	-1.1	-2.3	-0.4	100.2	101.6	100.5
2005	67098	1574	-153	-7.0	-5.3	-0.01	-0.00	99.7	3.03	-1.1	-0.8	-0.5	-1.4	0.0	100.6	101.4	100.6
2006	62675	1662	-63	-0.7	-1.8	0.02	0.00	99.8	3.01	-0.3	-0.5	-0.0	-0.6	0.3	101.2	101.2	101.0
2007	63969	1725	63	1.8	2.4	0.00	0.00	99.6	3.00	0.1	-0.1	0.3	-0.0	0.2	101.2	101.1	100.5
2008	66559	1795	137	5.0	5.2	0.00	0.01	99.4	2.98	1.0	0.4	0.9	0.6	0.9	101.8	101.1	100.8
2009	66938	1841	229	8.1	7.4	0.00	0.00	99.0	2.98	1.5	0.6	1.1	1.2	1.1	102.0	100.8	100.6
2010	64040	1935	331	13.8	11.8	0.02	0.01	99.3	2.97	2.4	1.5	2.0	1.8	1.6	102.1	100.7	100.6
2011	55475	2046	404	19.2	14.8	0.04	0.01	99.1	2.95	3.8	2.3	3.1	3.2	2.0	103.2	100.8	101.6

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	52989	1393	-470	-12.4	-14.3	0.05	0.01	100.3	3.02	-3.8	-2.5	-2.0	-4.2	-0.9	100.2	102.1	100.3
2002	52797	1425	-411	-11.8	-12.3	0.04	0.01	99.9	3.02	-3.1	-1.9	-1.6	-3.7	-0.6	100.2	101.7	100.7
2003	51348	1472	-312	-10.9	-10.4	0.01	0.00	99.4	3.03	-2.3	-1.2	-1.2	-2.8	-0.2	100.4	101.7	100.9
2004	54082	1513	-236	-8.7	-8.0	0.00	-0.00	99.8	3.03	-1.8	-1.0	-1.0	-2.2	-0.4	100.2	101.4	100.5
2005	53367	1567	-177	-6.6	-6.1	0.00	-0.00	99.6	3.03	-1.0	-0.5	-0.5	-1.3	-0.2	100.4	101.2	100.5
2006	51465	1643	-104	-1.5	-3.1	0.03	0.01	99.5	3.01	-0.3	-0.2	-0.1	-0.7	0.4	101.0	101.1	100.8
2007	52825	1691	-18	0.8	-0.5	0.02	0.00	99.3	3.00	0.1	0.0	0.2	-0.2	0.3	101.2	101.0	100.6
2008	53878	1761	57	3.6	2.4	0.02	0.01	99.3	2.98	1.1	0.6	0.9	0.6	1.0	101.7	100.9	100.9
2009	53317	1807	148	6.4	4.4	0.01	-0.00	99.0	2.98	1.5	0.9	1.1	1.1	1.1	101.9	100.8	100.6
2010	51821	1891	240	11.8	8.7	0.03	0.01	99.2	2.97	2.4	1.7	1.9	1.8	1.7	101.9	100.4	100.6
2011	44864	1999	319	17.9	11.7	0.06	0.01	99.1	2.95	3.7	2.4	2.9	2.9	2.3	102.8	100.5	101.5

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
2001	5259	1359	-430	-16.3	-13.6	-0.00	0.01	100.8	3.01	-4.8	-3.9	-2.5	-4.6	-2.1	100.2	102.2	100.3
2002	5491	1370	-420	-16.3	-13.6	-0.00	0.00	100.5	3.02	-4.1	-3.2	-2.2	-4.1	-1.6	100.0	101.8	100.4
2003	5763	1415	-377	-15.5	-12.2	-0.01	0.00	100.1	3.03	-3.4	-2.8	-1.7	-3.3	-1.3	100.3	101.9	100.8
2004	5431	1468	-265	-12.9	-9.3	-0.03	-0.00	100.0	3.02	-2.7	-2.3	-1.5	-2.6	-1.1	100.4	101.6	100.7
2005	5498	1504	-232	-11.4	-8.2	-0.02	-0.00	100.1	3.02	-2.0	-1.9	-1.0	-2.0	-1.0	100.5	101.4	100.6
2006	5606	1573	-137	-7.1	-5.2	-0.01	-0.00	99.9	3.02	-1.3	-1.5	-0.4	-1.3	-0.6	100.8	101.1	100.8
2007	5426	1635	-46	-3.0	-2.2	-0.01	-0.00	99.8	3.01	-0.7	-1.0	-0.1	-0.7	-0.4	101.0	101.0	100.4
2008	5915	1709	38	0.2	0.8	-0.01	-0.00	99.4	2.99	0.3	-0.3	0.6	0.1	0.3	101.4	100.9	100.9
2009	5749	1760	112	3.7	2.6	0.00	-0.01	99.2	2.99	0.7	-0.2	0.8	0.6	0.4	101.8	101.1	100.8
2010	5446	1859	237	8.5	7.1	0.00	-0.00	99.4	2.98	1.7	0.5	1.4	1.5	0.9	102.3	101.2	101.0
2011	4580	1961	345	14.9	11.3	0.03	0.00	99.2	2.96	2.6	1.1	2.3	2.2	1.3	102.9	101.3	101.8

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	4036	1362	-421	-16.4	-15.0	-0.00	-0.01	100.9	3.01	-4.5	-3.6	-2.4	-4.5	-1.7	100.3	102.7	100.3
2002	3899	1392	-392	-15.0	-13.6	0.00	-0.00	100.5	3.02	-3.8	-3.0	-2.0	-3.8	-1.5	100.2	102.2	100.5
2003	4020	1442	-277	-14.0	-10.9	-0.03	-0.01	100.2	3.03	-3.1	-2.5	-1.6	-3.2	-1.1	100.5	102.3	101.0
2004	4168	1474	-270	-13.1	-10.5	-0.02	-0.01	100.0	3.02	-2.4	-1.9	-1.3	-2.4	-0.8	100.6	102.2	100.8
2005	4064	1522	-226	-11.6	-8.9	-0.03	-0.01	99.9	3.03	-1.5	-1.4	-0.7	-1.5	-0.7	100.8	101.9	100.7
2006	3849	1573	-150	-9.2	-6.7	-0.03	-0.01	99.4	3.03	-0.8	-1.0	-0.2	-0.9	-0.2	101.1	101.7	101.1
2007	3419	1643	-64	-5.5	-3.3	-0.02	-0.01	99.2	3.01	-0.1	-0.6	0.0	-0.2	-0.0	101.4	101.6	100.8
2008	3872	1695	-10	-3.6	-1.3	-0.02	-0.01	99.0	3.01	0.8	0.3	0.6	0.6	0.6	101.6	101.4	100.8
2009	3609	1745	62	-0.2	0.5	-0.02	-0.01	98.9	3.00	1.2	0.4	0.9	0.9	0.7	102.0	101.6	100.9
2010	3451	1827	195	4.8	5.1	-0.02	-0.01	99.0	3.01	2.0	0.8	1.5	1.7	1.1	101.9	101.3	100.8
2011	2739	1947	304	11.3	9.7	0.01	0.00	99.2	2.98	3.2	1.7	2.7	2.6	1.6	102.7	101.4	101.4

Notes:

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2. Production in kg EBV units and conformation in EBV points.
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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	11484	1382	-284	-15.9	-11.7	-0.05	-0.02	100.3	3.02	-5.0	-4.3	-2.7	-4.7	-2.2	100.6	102.9	100.6
2002	12020	1423	-229	-13.8	-9.6	-0.05	-0.02	99.8	3.02	-4.2	-3.6	-2.3	-4.0	-1.8	100.5	102.4	100.7
2003	11786	1473	-159	-13.1	-7.8	-0.06	-0.02	99.6	3.03	-3.4	-3.0	-1.7	-3.3	-1.5	100.9	102.5	101.3
2004	12755	1511	-125	-11.5	-6.7	-0.06	-0.02	99.6	3.03	-2.7	-2.5	-1.5	-2.5	-1.4	100.9	102.4	101.1
2005	12963	1548	-96	-9.5	-5.3	-0.05	-0.02	99.6	3.03	-2.1	-2.1	-1.1	-1.9	-1.2	101.0	102.1	101.1
2006	13010	1604	-28	-6.5	-2.7	-0.05	-0.01	99.4	3.03	-1.3	-1.7	-0.7	-1.1	-0.6	101.2	101.7	101.1
2007	12314	1680	79	-2.0	0.9	-0.04	-0.01	99.2	3.02	-0.6	-1.2	-0.2	-0.4	-0.7	101.4	101.5	100.7
2008	12842	1744	151	1.1	3.2	-0.04	-0.01	98.8	3.00	0.4	-0.4	0.5	0.4	0.0	101.7	101.3	100.9
2009	12831	1791	209	3.6	5.1	-0.03	-0.01	98.5	3.00	0.9	-0.2	0.8	0.9	0.3	102.0	101.3	100.9
2010	12221	1868	272	8.1	8.1	-0.01	-0.01	98.7	2.99	1.8	0.4	1.5	1.8	0.8	102.3	101.1	100.9
2011	10300	1984	404	15.5	13.1	0.01	0.00	98.7	2.98	2.9	1.2	2.3	2.6	1.3	102.9	101.2	101.6

Notes:

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

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2001	11629	1380	-331	-14.2	-11.8	-0.01	-0.01	100.8	3.02	-4.7	-3.4	-2.6	-4.6	-1.8	100.1	102.3	100.9
2002	11415	1419	-265	-12.6	-9.9	-0.02	-0.01	100.3	3.03	-3.9	-2.8	-2.2	-4.1	-1.2	100.1	101.8	101.0
2003	11430	1469	-176	-12.3	-8.2	-0.05	-0.02	100.1	3.04	-3.0	-2.2	-1.6	-3.1	-1.0	100.4	101.9	101.5
2004	11130	1506	-122	-11.5	-6.4	-0.06	-0.02	100.0	3.04	-2.4	-1.9	-1.4	-2.3	-1.0	100.4	101.7	101.0
2005	11354	1543	-114	-10.9	-6.2	-0.06	-0.02	99.9	3.03	-1.4	-1.4	-0.8	-1.3	-0.6	100.8	101.5	101.2
2006	11431	1613	-59	-5.7	-3.5	-0.03	-0.01	99.7	3.03	-0.7	-0.9	-0.4	-0.7	0.0	101.1	101.3	101.2
2007	10825	1680	37	-2.1	-0.2	-0.03	-0.01	99.4	3.01	-0.1	-0.6	0.0	-0.1	0.0	101.4	101.3	101.0
2008	10948	1735	128	-0.4	2.4	-0.04	-0.01	99.2	3.00	0.8	0.1	0.6	0.7	0.6	101.6	100.9	100.9
2009	11324	1791	202	3.3	4.7	-0.03	-0.01	98.8	3.00	1.3	0.2	0.9	1.2	0.7	102.0	101.0	100.8
2010	10385	1871	283	8.2	8.4	-0.02	-0.01	99.1	2.99	2.1	0.9	1.6	2.0	1.2	102.1	100.7	100.7
2011	9957	1989	389	14.6	12.3	0.01	-0.00	99.1	2.96	3.5	2.0	2.7	3.0	1.8	102.9	100.8	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.

Provincial genetic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

Newfoundland

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2001	19	1347	-327	-17.7	-11.9	-0.05	-0.01	98.2	3.00	-4.6	-3.3	-2.4	-4.8	-1.9	100.2	100.8	99.2
2002	29	1327	-417	-19.8	-17.6	-0.04	-0.03	99.0	3.08	-3.4	-2.9	-1.7	-3.7	-0.5	99.8	101.8	99.6
2003	64	1423	-285	-14.6	-10.5	-0.04	-0.01	97.7	3.06	-3.2	-2.6	-1.8	-3.2	-1.1	100.4	101.4	100.8
2004	55	1414	-363	-17.0	-10.4	-0.03	0.01	97.9	3.04	-3.6	-2.6	-2.7	-3.6	-1.0	100.9	102.3	100.9
2005	117	1507	-90	-15.3	-5.1	-0.11	-0.02	99.0	3.05	-2.0	-2.1	-1.3	-1.6	-1.3	100.5	101.1	100.5
2006	110	1595	-41	-6.4	-3.0	-0.04	-0.01	98.0	3.03	-1.5	-1.6	-1.0	-1.3	-1.0	101.3	101.6	100.6
2007	105	1616	29	-2.8	-1.1	-0.03	-0.02	99.0	3.03	-1.5	-1.8	-0.7	-1.3	-0.9	101.0	100.9	100.4
2008	114	1716	123	1.1	2.3	-0.03	-0.01	98.4	3.01	-0.6	-1.2	0.0	-0.7	0.5	102.0	102.0	100.8
2009	155	1780	292	5.6	5.9	-0.04	-0.03	99.1	3.01	0.1	-0.8	0.7	0.0	0.5	101.9	101.3	100.4
2010	195	1813	268	7.0	4.8	-0.02	-0.03	99.9	2.99	1.5	0.4	1.1	1.3	0.9	101.9	100.9	100.8
2011	121	1935	347	10.7	9.7	-0.01	-0.01	100.1	2.95	2.5	1.0	2.4	2.4	0.9	103.1	101.2	102.2

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.