

Provincial genetic trends by birth year for Holstein cows
Canadian Dairy Network, August 2017

Prince Edward Island

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2004	2422	1567	-472	-22.6	-17.8	-0.04	-0.02	99.1	3.06	-3.5	-1.2	-2.2	-4.2	-0.4	98.3	101.3	99.1
2005	2262	1609	-481	-20.4	-16.8	-0.02	-0.01	99.1	3.06	-2.7	-0.8	-1.7	-3.3	-0.1	98.6	101.0	98.8
2006	2232	1676	-406	-17.0	-14.5	-0.01	-0.01	99.0	3.05	-1.9	-0.5	-1.1	-2.6	0.4	99.4	101.0	99.6
2007	2236	1727	-310	-11.9	-10.8	0.00	-0.00	98.9	3.02	-1.3	-0.1	-1.0	-2.0	0.5	99.5	100.7	99.5
2008	2276	1794	-203	-9.7	-7.4	-0.01	-0.00	98.9	3.02	-0.5	0.4	-0.3	-1.3	1.0	100.0	100.6	99.8
2009	2345	1841	-128	-5.2	-4.9	0.00	-0.00	99.1	3.01	-0.2	0.3	-0.2	-0.8	1.1	100.4	100.5	99.7
2010	2390	1902	-66	-0.6	-1.9	0.02	0.00	99.7	2.99	0.6	0.9	0.5	-0.1	1.2	100.6	100.2	99.5
2011	2123	1998	35	4.8	1.1	0.04	0.00	99.3	2.98	2.1	1.9	1.7	1.1	1.9	101.5	99.8	100.4
2012	2240	2065	70	8.7	4.1	0.06	0.02	99.4	2.98	2.8	2.2	2.2	2.0	2.0	101.9	99.7	100.8
2013	2199	2165	236	12.7	9.6	0.04	0.02	99.5	2.96	3.8	2.6	2.9	2.9	2.2	102.6	100.0	101.1
2014	1988	2289	389	21.4	15.7	0.07	0.03	100.1	2.92	4.6	2.8	4.0	3.7	2.5	103.7	100.5	101.3

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.

Provincial genetic trends by birth year for Holstein cows
Canadian Dairy Network, August 2017

Nova Scotia

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2004	3326	1569	-455	-20.4	-15.9	-0.03	-0.01	98.8	3.06	-4.2	-1.9	-2.6	-4.6	-1.2	98.5	101.4	99.5
2005	3170	1627	-403	-17.5	-13.5	-0.02	0.00	98.6	3.05	-3.4	-1.5	-2.1	-3.8	-0.7	99.0	101.3	99.7
2006	2769	1700	-357	-12.6	-11.0	0.01	0.01	98.8	3.03	-2.6	-1.3	-1.6	-3.1	-0.2	99.9	101.4	100.3
2007	2876	1736	-218	-10.3	-7.8	-0.01	-0.00	98.6	3.04	-2.1	-1.0	-1.3	-2.5	-0.3	99.4	101.1	99.6
2008	3191	1810	-136	-6.0	-4.4	-0.00	0.00	98.8	3.01	-1.2	-0.3	-0.7	-1.9	0.4	100.2	101.1	100.0
2009	3023	1849	-88	-3.4	-3.2	0.00	-0.00	98.4	3.01	-0.7	-0.1	-0.5	-1.2	0.7	100.4	100.9	99.9
2010	3144	1922	37	1.7	0.9	0.01	-0.00	99.1	2.99	0.0	0.5	0.1	-0.6	1.1	100.8	100.9	100.2
2011	2921	2008	82	6.4	3.4	0.04	0.01	99.1	2.97	1.2	1.0	1.1	0.5	1.4	102.0	100.5	101.1
2012	2767	2127	149	12.6	8.1	0.07	0.03	99.1	2.96	2.6	1.9	2.3	1.9	1.8	102.6	100.7	101.5
2013	2721	2228	341	18.8	13.8	0.06	0.02	99.2	2.94	3.6	2.2	3.2	2.8	2.1	103.3	100.7	101.7
2014	2625	2317	477	24.0	18.7	0.06	0.03	100.2	2.90	4.2	2.4	3.7	3.4	2.0	104.2	101.1	101.9

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 2017

New Brunswick

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2004	2591	1585	-320	-19.8	-14.3	-0.07	-0.03	99.0	3.06	-4.1	-2.0	-2.4	-4.5	-1.2	98.4	101.3	100.0
2005	2479	1627	-317	-17.9	-13.3	-0.05	-0.02	99.0	3.05	-3.3	-1.5	-2.0	-3.7	-0.8	98.9	101.0	99.9
2006	2380	1683	-284	-13.8	-11.5	-0.03	-0.02	98.9	3.03	-2.5	-1.1	-1.6	-3.1	-0.1	99.7	100.9	100.4
2007	2369	1731	-214	-9.6	-8.1	-0.01	-0.01	98.9	3.02	-2.2	-0.9	-1.5	-2.6	-0.4	99.5	100.9	100.0
2008	2461	1788	-122	-7.0	-5.6	-0.02	-0.01	99.1	3.00	-1.5	-0.4	-0.8	-2.1	0.3	100.1	100.9	100.2
2009	2415	1823	-40	-4.9	-3.2	-0.03	-0.01	99.0	3.00	-1.2	-0.6	-0.8	-1.7	0.4	100.4	100.9	100.0
2010	2356	1889	24	0.5	1.0	0.00	0.00	99.2	2.99	-0.4	0.3	-0.1	-1.0	0.7	100.3	100.4	99.9
2011	2168	1989	96	6.1	3.3	0.03	0.00	99.1	2.98	1.1	1.2	1.2	0.2	1.6	101.4	100.2	100.7
2012	2075	2075	121	12.0	6.4	0.07	0.02	99.3	2.97	2.3	1.8	2.1	1.5	1.6	101.8	99.8	101.0
2013	1978	2190	301	16.5	12.4	0.05	0.02	99.3	2.95	3.4	2.3	3.0	2.6	1.9	102.7	100.2	101.4
2014	1692	2300	401	23.7	16.8	0.08	0.03	100.0	2.92	4.2	2.5	3.9	3.4	2.2	103.9	100.7	101.9

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 2017

Quebec

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2004	70227	1586	-413	-18.0	-14.4	-0.02	-0.00	99.0	3.07	-4.4	-2.4	-2.6	-4.7	-1.1	98.6	101.6	99.5
2005	67355	1634	-371	-16.5	-13.0	-0.02	-0.00	99.0	3.05	-3.5	-1.8	-2.0	-3.9	-0.7	99.1	101.3	99.7
2006	63065	1704	-294	-10.7	-9.9	0.01	0.00	99.2	3.03	-2.8	-1.5	-1.6	-3.1	-0.4	99.7	101.2	100.1
2007	64556	1748	-181	-8.5	-6.1	-0.01	0.00	99.1	3.02	-2.3	-1.2	-1.3	-2.6	-0.5	99.4	101.0	99.7
2008	67617	1808	-112	-5.6	-3.5	-0.01	0.00	99.1	3.00	-1.6	-0.8	-0.8	-2.0	0.1	100.1	101.0	100.0
2009	68841	1846	-18	-2.6	-1.2	-0.01	-0.00	98.8	3.00	-1.1	-0.6	-0.7	-1.5	0.3	100.3	100.8	99.8
2010	67185	1927	91	3.0	3.4	0.00	0.01	99.3	3.00	-0.3	0.0	0.1	-0.8	0.7	100.5	100.7	99.9
2011	65900	2019	139	7.2	5.8	0.02	0.01	99.3	2.98	0.9	0.6	1.0	0.4	1.1	101.9	100.6	100.9
2012	65672	2121	194	13.4	9.5	0.06	0.03	99.6	2.96	2.2	1.3	2.0	1.6	1.4	102.6	100.7	101.3
2013	59633	2232	360	18.7	15.2	0.05	0.03	99.4	2.93	3.2	1.7	2.9	2.6	1.8	103.5	100.8	101.4
2014	51816	2338	457	24.7	19.7	0.07	0.04	100.2	2.89	4.2	2.1	3.8	3.4	2.1	104.6	101.3	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.

Provincial genetic trends by birth year for Holstein cows
Canadian Dairy Network, August 2017

Ontario

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2004	54289	1579	-459	-18.2	-15.8	-0.00	-0.00	99.0	3.05	-4.2	-2.0	-2.4	-4.7	-1.0	98.6	101.4	99.6
2005	53649	1624	-409	-16.3	-14.2	-0.00	-0.00	98.9	3.05	-3.4	-1.6	-2.0	-3.8	-0.9	98.8	101.1	99.6
2006	51901	1685	-345	-11.6	-11.4	0.02	0.00	99.0	3.03	-2.7	-1.2	-1.6	-3.2	-0.3	99.4	101.0	99.9
2007	53497	1719	-273	-9.7	-9.3	0.01	-0.00	98.9	3.02	-2.4	-1.1	-1.4	-2.8	-0.4	99.5	100.9	99.7
2008	54898	1778	-207	-7.3	-6.7	0.01	0.00	98.9	3.01	-1.5	-0.5	-0.8	-2.0	0.2	100.0	100.8	100.0
2009	55168	1818	-110	-4.5	-4.4	0.00	-0.00	98.8	3.01	-1.1	-0.4	-0.7	-1.6	0.3	100.3	100.8	99.8
2010	55178	1885	-17	0.5	-0.2	0.02	0.01	99.3	3.00	-0.3	0.2	-0.0	-1.0	0.8	100.3	100.5	99.9
2011	53731	1975	45	6.0	2.5	0.05	0.01	99.1	2.98	0.9	0.9	0.9	0.1	1.4	101.4	100.2	100.8
2012	52202	2075	119	11.5	6.3	0.07	0.02	99.3	2.98	2.2	1.6	1.9	1.5	1.6	101.9	100.1	101.2
2013	48808	2171	280	16.8	11.7	0.06	0.02	99.2	2.95	3.1	2.0	2.6	2.4	1.7	102.6	100.2	101.4
2014	44057	2280	397	23.1	16.6	0.08	0.03	99.8	2.92	4.0	2.3	3.6	3.2	2.1	103.7	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.

Provincial genetic trends by birth year for Holstein cows
Canadian Dairy Network, August 2017

Manitoba

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2004	5462	1554	-421	-21.3	-15.4	-0.05	-0.01	99.0	3.05	-5.0	-3.3	-2.9	-5.0	-1.8	98.8	101.7	99.7
2005	5544	1586	-393	-20.0	-14.4	-0.05	-0.01	99.1	3.05	-4.4	-2.9	-2.4	-4.4	-1.7	99.0	101.5	99.6
2006	5664	1642	-312	-16.2	-11.8	-0.04	-0.01	99.0	3.04	-3.7	-2.5	-1.9	-3.8	-1.2	99.3	101.2	99.8
2007	5489	1687	-234	-12.6	-9.3	-0.03	-0.01	99.0	3.04	-3.2	-2.1	-1.7	-3.3	-1.1	99.4	101.1	99.5
2008	6102	1743	-174	-10.2	-7.1	-0.03	-0.01	98.9	3.02	-2.3	-1.4	-1.1	-2.6	-0.5	99.8	101.0	100.0
2009	5975	1787	-106	-6.8	-5.5	-0.02	-0.02	98.8	3.02	-1.9	-1.4	-1.0	-2.1	-0.4	100.3	101.2	100.0
2010	5881	1871	3	-2.3	-1.3	-0.02	-0.01	99.2	3.01	-1.0	-1.0	-0.4	-1.2	0.1	100.8	101.3	100.2
2011	5793	1952	92	3.0	2.4	0.00	-0.00	99.1	2.99	-0.1	-0.4	0.3	-0.4	0.6	101.6	101.2	101.0
2012	5930	2050	169	8.1	6.4	0.02	0.01	99.3	2.98	1.0	0.2	1.2	0.7	1.0	102.4	101.2	101.5
2013	5063	2161	368	13.8	13.1	0.01	0.01	99.5	2.95	2.0	0.5	2.0	1.7	1.1	103.2	101.3	101.7
2014	4000	2257	480	19.0	17.4	0.02	0.02	100.0	2.93	2.9	0.9	2.7	2.6	1.3	104.0	101.7	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.

Provincial genetic trends by birth year for Holstein cows
Canadian Dairy Network, August 2017

Saskatchewan

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2004	4200	1553	-474	-22.5	-17.9	-0.04	-0.02	98.7	3.05	-4.7	-3.0	-2.7	-4.9	-1.5	99.1	102.1	99.8
2005	4135	1594	-448	-21.1	-16.6	-0.04	-0.01	98.8	3.06	-3.9	-2.4	-2.2	-4.0	-1.3	99.2	101.8	99.7
2006	3901	1639	-378	-19.0	-14.8	-0.04	-0.02	98.6	3.06	-3.2	-2.0	-1.6	-3.4	-0.8	99.4	101.6	100.1
2007	3513	1692	-311	-15.6	-11.7	-0.03	-0.01	98.6	3.04	-2.6	-1.7	-1.5	-2.8	-0.7	99.7	101.6	99.9
2008	4016	1732	-267	-14.2	-10.1	-0.03	-0.01	98.5	3.03	-1.8	-0.9	-1.1	-2.1	-0.2	99.8	101.3	100.0
2009	3853	1776	-195	-10.9	-8.1	-0.03	-0.01	98.6	3.02	-1.5	-0.8	-0.8	-1.8	-0.1	100.3	101.5	100.0
2010	3822	1844	-77	-6.4	-4.0	-0.03	-0.01	98.8	3.03	-0.7	-0.6	-0.3	-1.0	0.3	100.4	101.3	100.1
2011	3513	1930	7	-1.8	-0.3	-0.01	-0.00	98.8	3.01	0.4	0.2	0.7	-0.1	0.8	101.2	101.0	100.7
2012	3636	2020	90	4.3	3.5	0.01	0.01	99.0	3.00	1.5	0.8	1.4	1.0	1.3	101.9	100.8	101.2
2013	3140	2109	184	8.6	7.3	0.02	0.01	99.1	2.97	2.5	1.3	2.2	1.9	1.4	102.7	100.9	101.5
2014	2569	2226	349	15.4	12.9	0.03	0.02	99.4	2.94	3.5	1.7	3.2	2.9	1.7	103.7	101.5	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.

Provincial genetic trends by birth year for Holstein cows
Canadian Dairy Network, August 2017

Alberta

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2004	12871	1568	-387	-21.9	-15.5	-0.06	-0.02	98.9	3.04	-5.1	-3.5	-3.0	-4.9	-2.1	99.4	102.2	100.1
2005	13100	1599	-364	-20.1	-14.3	-0.05	-0.02	98.9	3.04	-4.5	-3.2	-2.6	-4.3	-1.8	99.4	101.9	100.0
2006	13178	1646	-300	-17.4	-11.8	-0.05	-0.01	98.9	3.04	-3.7	-2.7	-2.1	-3.6	-1.3	99.6	101.5	100.1
2007	12588	1703	-209	-13.5	-8.7	-0.05	-0.01	98.9	3.03	-3.1	-2.3	-1.7	-3.0	-1.3	99.8	101.4	99.8
2008	13231	1760	-146	-10.6	-6.6	-0.04	-0.01	98.7	3.02	-2.2	-1.6	-1.1	-2.3	-0.7	100.1	101.3	100.0
2009	13437	1803	-84	-8.1	-4.5	-0.04	-0.01	98.6	3.02	-1.7	-1.4	-0.9	-1.8	-0.5	100.5	101.3	100.1
2010	13183	1870	-10	-3.7	-1.3	-0.02	-0.01	98.8	3.01	-0.8	-1.0	-0.3	-0.9	-0.0	100.8	101.2	100.2
2011	12508	1959	98	2.6	3.0	-0.00	0.00	98.9	3.00	0.1	-0.3	0.4	-0.1	0.5	101.5	101.0	100.9
2012	12537	2048	161	7.7	6.2	0.02	0.01	99.0	2.98	1.2	0.3	1.2	0.9	0.8	102.3	100.9	101.4
2013	11034	2137	293	11.9	10.7	0.02	0.01	99.3	2.96	2.1	0.6	2.0	1.8	1.1	103.1	101.1	101.5
2014	9066	2237	419	18.1	15.6	0.03	0.02	99.7	2.93	3.0	1.1	2.8	2.6	1.4	103.9	101.3	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.

Provincial genetic trends by birth year for Holstein cows
Canadian Dairy Network, August 2017

British Columbia

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2004	11147	1576	-338	-20.8	-14.0	-0.07	-0.02	99.3	3.06	-4.7	-2.9	-2.8	-4.7	-1.6	98.8	101.7	100.0
2005	11401	1611	-335	-20.6	-13.9	-0.07	-0.02	99.2	3.05	-3.8	-2.4	-2.3	-3.8	-1.3	99.2	101.4	100.2
2006	11503	1666	-290	-15.5	-11.6	-0.04	-0.02	99.2	3.05	-3.0	-1.9	-1.9	-3.2	-0.7	99.4	101.2	100.2
2007	10922	1715	-210	-12.5	-8.7	-0.04	-0.01	99.1	3.03	-2.6	-1.7	-1.6	-2.7	-0.7	99.7	101.2	100.1
2008	11099	1764	-128	-10.8	-6.2	-0.05	-0.02	99.0	3.02	-1.7	-1.0	-1.0	-1.9	-0.2	99.8	100.9	100.0
2009	11611	1808	-55	-7.8	-4.2	-0.05	-0.02	98.7	3.03	-1.3	-1.0	-0.8	-1.5	-0.1	100.2	101.0	100.0
2010	11068	1874	29	-3.0	-0.5	-0.03	-0.01	99.1	3.02	-0.6	-0.6	-0.3	-0.8	0.4	100.4	100.8	99.9
2011	11145	1972	117	2.4	3.1	-0.01	-0.00	99.1	3.00	0.7	0.4	0.7	0.3	1.0	101.4	100.6	100.9
2012	11385	2062	153	7.9	6.0	0.03	0.01	99.2	2.98	1.8	0.9	1.7	1.4	1.2	102.2	100.5	101.3
2013	11147	2164	313	13.4	11.2	0.02	0.01	99.4	2.95	2.7	1.3	2.5	2.3	1.4	103.1	100.7	101.4
2014	10111	2276	458	19.5	16.9	0.03	0.02	100.0	2.91	3.7	1.6	3.4	3.1	1.7	104.1	101.1	101.9

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 2017

Newfoundland

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2004	80	1466	-708	-27.5	-23.0	-0.01	0.00	98.0	3.04	-5.6	-3.7	-3.6	-5.7	-1.6	99.4	102.1	99.9
2005	161	1536	-498	-27.1	-17.9	-0.08	-0.01	99.2	3.05	-4.4	-3.0	-2.7	-4.2	-1.7	99.0	101.1	99.6
2006	147	1571	-481	-21.8	-17.8	-0.03	-0.01	97.9	3.04	-4.1	-2.8	-2.6	-4.2	-1.4	99.5	101.5	99.8
2007	158	1607	-390	-18.0	-15.2	-0.03	-0.02	98.7	3.04	-3.9	-2.8	-2.1	-3.9	-1.2	99.7	101.0	99.6
2008	176	1684	-316	-15.4	-11.3	-0.03	-0.01	98.5	3.02	-3.1	-2.3	-1.6	-3.3	-0.3	100.2	101.6	99.7
2009	195	1774	-58	-8.9	-5.0	-0.06	-0.02	98.6	3.02	-2.3	-1.9	-0.9	-2.5	-0.1	100.3	101.2	99.6
2010	245	1817	-58	-5.6	-6.0	-0.03	-0.03	99.6	3.01	-1.0	-0.9	-0.7	-1.1	0.1	100.5	100.8	99.8
2011	222	1915	5	-1.3	-0.8	-0.01	-0.01	99.3	2.98	-0.4	-0.8	0.2	-0.6	0.3	102.0	101.2	101.1
2012	288	2051	206	7.5	6.6	0.01	0.00	99.2	2.98	1.5	0.8	1.8	1.0	1.1	102.1	100.4	101.3
2013	276	2151	276	14.6	11.4	0.04	0.02	99.7	2.95	2.0	0.5	2.1	1.9	0.7	103.0	101.1	101.6
2014	287	2291	448	21.2	18.3	0.05	0.03	100.6	2.90	3.5	1.4	3.0	3.1	1.2	104.3	101.8	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.