

**Provincial genetic trends by birth year for Holstein cows**  
**Canadian Dairy Network, August 2018**

**Prince Edward Island**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2005	2266	1617	-544	-25.2	-20.0	-0.04	-0.02	98.8	3.07	-3.5	-1.0	-2.4	-4.3	-0.2	98.4	100.7	98.6
2006	2234	1681	-471	-21.9	-17.8	-0.03	-0.02	98.7	3.06	-2.7	-0.6	-1.8	-3.6	0.2	98.9	100.8	99.3
2007	2243	1732	-376	-16.7	-14.1	-0.02	-0.01	98.6	3.03	-2.2	-0.3	-1.7	-3.0	0.4	98.9	100.4	99.2
2008	2280	1797	-270	-14.5	-10.7	-0.04	-0.01	98.5	3.03	-1.4	0.2	-1.0	-2.3	0.8	99.3	100.4	99.5
2009	2357	1840	-196	-10.2	-8.3	-0.02	-0.01	98.8	3.02	-1.1	0.1	-0.9	-1.8	0.9	99.6	100.3	99.4
2010	2401	1900	-139	-5.7	-5.5	0.00	-0.01	99.4	3.00	-0.3	0.7	-0.3	-1.2	1.0	99.7	100.0	99.2
2011	2151	1994	-36	-0.3	-2.3	0.01	-0.01	99.0	2.99	1.0	1.6	0.9	0.0	1.7	100.4	99.7	100.1
2012	2285	2055	-9	3.3	0.5	0.04	0.01	99.1	2.99	1.8	1.9	1.3	0.9	1.7	100.6	99.5	100.5
2013	2260	2151	164	7.6	6.2	0.02	0.01	99.3	2.97	2.6	2.1	1.9	1.8	1.9	101.2	99.8	100.7
2014	2213	2254	271	14.4	10.7	0.04	0.02	99.7	2.93	3.4	2.3	2.9	2.5	2.2	101.9	100.2	101.0
2015	2000	2357	359	20.5	16.0	0.07	0.04	100.0	2.90	4.5	3.2	3.5	3.6	2.3	102.5	100.3	101.5

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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**Canadian Dairy Network, August 2018**

**Nova Scotia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2005	3173	1633	-466	-22.4	-16.8	-0.04	-0.01	98.3	3.06	-4.3	-1.7	-2.8	-4.8	-0.9	98.7	101.0	99.4
2006	2770	1703	-422	-17.5	-14.4	-0.01	-0.00	98.5	3.04	-3.5	-1.4	-2.2	-4.1	-0.4	99.3	101.2	100.0
2007	2880	1740	-286	-15.3	-11.3	-0.04	-0.01	98.3	3.05	-3.0	-1.2	-2.0	-3.5	-0.5	98.9	100.8	99.3
2008	3194	1811	-205	-10.9	-7.8	-0.02	-0.01	98.5	3.02	-2.2	-0.5	-1.4	-2.9	0.2	99.5	100.8	99.7
2009	3032	1848	-157	-8.4	-6.6	-0.02	-0.01	98.1	3.02	-1.6	-0.2	-1.2	-2.2	0.5	99.6	100.7	99.6
2010	3153	1919	-37	-3.3	-2.7	-0.01	-0.01	98.8	3.00	-0.9	0.2	-0.7	-1.7	0.9	99.9	100.8	99.8
2011	2934	2000	9	1.2	-0.1	0.01	-0.00	98.9	2.99	0.2	0.8	0.3	-0.5	1.2	100.7	100.3	100.8
2012	2807	2113	70	7.3	4.4	0.05	0.02	98.8	2.98	1.6	1.6	1.4	0.8	1.6	101.1	100.5	101.1
2013	2806	2209	247	13.0	9.7	0.04	0.02	99.0	2.95	2.5	1.7	2.2	1.6	1.9	101.7	100.5	101.4
2014	2849	2286	357	16.9	13.9	0.04	0.02	99.8	2.92	3.0	1.9	2.7	2.3	1.7	102.3	100.9	101.5
2015	2699	2387	425	23.6	18.3	0.07	0.04	99.8	2.89	4.1	2.8	3.5	3.3	2.0	102.9	100.9	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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**Canadian Dairy Network, August 2018**

**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2005	2479	1633	-380	-22.8	-16.6	-0.07	-0.03	98.6	3.06	-4.2	-1.7	-2.7	-4.7	-0.9	98.6	100.8	99.6
2006	2381	1687	-349	-18.7	-14.9	-0.05	-0.03	98.6	3.04	-3.4	-1.2	-2.2	-4.1	-0.2	99.1	100.7	100.1
2007	2371	1734	-281	-14.6	-11.5	-0.03	-0.02	98.6	3.03	-3.1	-1.1	-2.2	-3.6	-0.5	99.0	100.7	99.7
2008	2465	1789	-193	-11.9	-9.0	-0.04	-0.02	98.7	3.01	-2.4	-0.5	-1.5	-3.1	0.1	99.4	100.7	99.9
2009	2424	1823	-113	-9.9	-6.7	-0.05	-0.02	98.7	3.01	-2.1	-0.8	-1.5	-2.7	0.2	99.6	100.7	99.7
2010	2370	1889	-51	-4.5	-2.6	-0.02	-0.01	98.9	3.00	-1.4	0.1	-0.8	-2.1	0.5	99.5	100.2	99.6
2011	2177	1982	25	1.0	-0.2	0.01	-0.01	98.7	3.00	0.0	0.9	0.4	-0.9	1.3	100.3	100.0	100.4
2012	2104	2062	40	6.4	2.7	0.05	0.01	99.0	2.99	1.2	1.5	1.2	0.3	1.4	100.5	99.7	100.7
2013	2019	2172	215	10.9	8.5	0.03	0.01	99.0	2.96	2.2	1.8	2.0	1.4	1.6	101.2	100.1	101.1
2014	1863	2268	282	17.2	12.3	0.06	0.03	99.5	2.93	3.0	1.9	2.8	2.2	1.9	102.1	100.4	101.6
2015	1675	2371	400	22.9	17.4	0.08	0.04	99.9	2.90	4.2	3.0	3.6	3.3	2.1	102.6	100.4	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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**Canadian Dairy Network, August 2018**

**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2005	67387	1640	-434	-21.4	-16.3	-0.04	-0.01	98.7	3.06	-4.3	-1.9	-2.7	-4.8	-0.8	98.7	101.1	99.5
2006	63116	1708	-360	-15.5	-13.2	-0.01	-0.01	98.9	3.04	-3.6	-1.7	-2.3	-4.1	-0.6	99.1	100.9	99.8
2007	64605	1752	-248	-13.4	-9.5	-0.03	-0.01	98.8	3.03	-3.2	-1.4	-2.0	-3.6	-0.6	98.9	100.8	99.4
2008	67720	1810	-180	-10.5	-6.8	-0.03	-0.01	98.8	3.01	-2.5	-1.0	-1.5	-3.0	-0.0	99.4	100.8	99.7
2009	69072	1846	-88	-7.5	-4.6	-0.03	-0.01	98.5	3.01	-2.1	-0.8	-1.4	-2.5	0.1	99.6	100.6	99.5
2010	67489	1925	19	-2.0	-0.1	-0.02	-0.00	99.0	3.01	-1.3	-0.2	-0.6	-1.9	0.6	99.7	100.5	99.6
2011	66355	2010	61	2.0	2.3	0.00	0.00	99.0	2.99	-0.1	0.3	0.2	-0.7	0.9	100.6	100.4	100.5
2012	66497	2107	116	8.0	5.9	0.04	0.02	99.3	2.97	1.1	0.9	1.1	0.4	1.2	101.1	100.5	101.0
2013	61293	2210	261	12.9	11.1	0.03	0.02	99.1	2.94	2.1	1.3	2.0	1.5	1.5	101.8	100.7	101.0
2014	57963	2309	342	18.3	15.2	0.05	0.03	99.8	2.90	3.0	1.6	2.8	2.3	1.8	102.7	101.0	101.4
2015	49853	2396	442	23.2	18.6	0.06	0.04	99.8	2.88	4.1	2.6	3.6	3.3	2.1	103.2	101.0	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.

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**Ontario**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2005	53718	1631	-471	-21.1	-17.4	-0.03	-0.01	98.6	3.06	-4.2	-1.7	-2.6	-4.8	-1.0	98.5	100.9	99.3
2006	51988	1690	-410	-16.4	-14.8	-0.00	-0.01	98.6	3.04	-3.6	-1.4	-2.3	-4.2	-0.4	98.9	100.8	99.6
2007	53609	1723	-340	-14.6	-12.6	-0.01	-0.01	98.6	3.03	-3.3	-1.3	-2.0	-3.8	-0.6	99.0	100.7	99.5
2008	55073	1780	-275	-12.2	-10.1	-0.01	-0.01	98.6	3.02	-2.4	-0.7	-1.5	-3.1	0.1	99.4	100.6	99.8
2009	55457	1818	-181	-9.5	-7.9	-0.02	-0.01	98.5	3.02	-2.0	-0.6	-1.4	-2.6	0.1	99.5	100.6	99.5
2010	55644	1883	-91	-4.5	-3.8	-0.00	-0.00	98.9	3.01	-1.3	0.0	-0.8	-2.0	0.6	99.5	100.3	99.6
2011	54445	1968	-29	0.8	-1.0	0.02	0.00	98.8	3.00	-0.2	0.6	0.1	-1.0	1.1	100.3	100.1	100.5
2012	53207	2064	43	6.1	2.8	0.05	0.01	99.0	2.99	1.1	1.3	1.0	0.3	1.4	100.7	100.0	100.8
2013	51000	2151	188	10.9	7.8	0.04	0.02	98.9	2.97	1.9	1.5	1.6	1.2	1.4	101.1	100.0	101.1
2014	48604	2251	281	16.5	11.9	0.06	0.02	99.4	2.93	2.8	1.9	2.6	2.1	1.8	101.9	100.3	101.3
2015	45520	2341	367	21.4	15.8	0.07	0.03	99.5	2.90	3.8	2.5	3.2	3.0	2.0	102.6	100.5	101.7

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
2005	5540	1594	-454	-24.8	-17.6	-0.07	-0.02	98.8	3.06	-5.3	-3.1	-3.1	-5.4	-1.8	98.6	101.2	99.4
2006	5671	1648	-375	-21.0	-15.1	-0.06	-0.02	98.7	3.05	-4.5	-2.7	-2.6	-4.7	-1.4	98.9	101.0	99.6
2007	5495	1691	-301	-17.6	-12.7	-0.05	-0.02	98.6	3.05	-4.1	-2.3	-2.4	-4.3	-1.2	98.9	100.9	99.2
2008	6120	1745	-242	-15.1	-10.5	-0.05	-0.02	98.5	3.03	-3.2	-1.6	-1.8	-3.6	-0.6	99.2	100.8	99.8
2009	6004	1786	-178	-11.8	-9.1	-0.04	-0.03	98.5	3.03	-2.8	-1.6	-1.7	-3.1	-0.6	99.5	101.0	99.7
2010	5922	1869	-68	-7.4	-4.8	-0.04	-0.02	98.9	3.02	-2.0	-1.2	-1.2	-2.2	-0.1	99.9	101.2	99.9
2011	5857	1944	16	-2.3	-1.2	-0.02	-0.01	98.7	3.01	-1.1	-0.6	-0.5	-1.5	0.4	100.5	101.0	100.7
2012	6048	2037	90	2.7	2.8	-0.00	0.00	99.0	2.99	-0.0	-0.2	0.4	-0.4	0.8	101.0	101.1	101.1
2013	5283	2142	273	7.9	8.9	-0.02	0.00	99.1	2.96	0.9	0.1	1.1	0.5	0.9	101.7	101.2	101.4
2014	5073	2224	349	12.5	12.5	0.00	0.01	99.5	2.94	1.7	0.4	1.8	1.4	1.0	102.2	101.3	101.7
2015	4747	2319	428	18.5	16.7	0.03	0.02	99.6	2.91	2.6	1.0	2.4	2.3	1.1	102.9	101.7	102.3

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
2005	4137	1600	-512	-26.0	-19.9	-0.06	-0.02	98.5	3.06	-4.8	-2.6	-2.8	-5.0	-1.5	98.8	101.6	99.5
2006	3909	1643	-443	-23.9	-18.1	-0.06	-0.03	98.3	3.06	-4.0	-2.2	-2.3	-4.4	-1.0	99.0	101.4	99.8
2007	3530	1695	-379	-20.6	-15.2	-0.05	-0.02	98.3	3.05	-3.5	-1.8	-2.2	-3.8	-0.9	99.2	101.4	99.7
2008	4038	1734	-334	-19.2	-13.4	-0.06	-0.02	98.2	3.04	-2.7	-1.1	-1.8	-3.1	-0.4	99.2	101.1	99.7
2009	3900	1777	-263	-15.9	-11.5	-0.05	-0.02	98.3	3.03	-2.4	-1.0	-1.5	-2.8	-0.3	99.6	101.3	99.7
2010	3903	1842	-154	-11.6	-7.6	-0.05	-0.02	98.4	3.04	-1.7	-0.8	-1.1	-2.1	0.2	99.7	101.1	99.8
2011	3607	1925	-66	-6.9	-3.8	-0.03	-0.01	98.5	3.02	-0.6	-0.1	-0.1	-1.2	0.6	100.2	100.8	100.4
2012	3785	2010	11	-1.0	-0.2	-0.01	-0.00	98.7	3.01	0.4	0.4	0.5	-0.1	1.1	100.7	100.7	100.9
2013	3416	2095	91	2.8	3.3	0.00	0.01	98.7	2.98	1.4	0.8	1.3	0.8	1.1	101.3	100.8	101.2
2014	2860	2211	257	9.5	8.9	0.01	0.01	98.9	2.95	2.4	1.3	2.3	1.8	1.5	102.1	101.2	101.7
2015	2941	2297	316	15.9	13.3	0.04	0.03	99.5	2.92	3.3	1.8	2.8	2.7	1.5	102.6	101.3	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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**Alberta**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2005	13161	1604	-428	-24.9	-17.5	-0.08	-0.03	98.6	3.05	-5.3	-3.4	-3.2	-5.3	-2.0	99.0	101.7	99.8
2006	13236	1650	-365	-22.3	-15.2	-0.07	-0.02	98.6	3.05	-4.6	-2.9	-2.8	-4.6	-1.4	99.1	101.3	99.9
2007	12678	1706	-276	-18.5	-12.1	-0.07	-0.02	98.5	3.04	-4.0	-2.5	-2.4	-4.0	-1.5	99.2	101.2	99.5
2008	13356	1761	-218	-15.7	-10.0	-0.06	-0.02	98.3	3.03	-3.1	-1.8	-1.8	-3.3	-0.8	99.4	101.1	99.8
2009	13609	1803	-154	-13.1	-8.0	-0.06	-0.02	98.2	3.03	-2.6	-1.6	-1.6	-2.8	-0.6	99.7	101.1	99.8
2010	13384	1868	-83	-8.9	-4.8	-0.05	-0.02	98.5	3.02	-1.8	-1.2	-1.1	-2.0	-0.2	99.9	101.0	99.9
2011	12791	1951	20	-2.8	-0.7	-0.03	-0.01	98.5	3.01	-0.9	-0.5	-0.4	-1.2	0.3	100.4	100.8	100.5
2012	12938	2035	82	2.1	2.5	-0.00	-0.00	98.6	3.00	0.2	-0.0	0.4	-0.2	0.6	101.0	100.8	101.1
2013	11752	2116	197	5.9	6.5	-0.01	0.00	98.9	2.97	1.0	0.2	1.0	0.6	0.8	101.5	100.9	101.2
2014	11005	2215	299	11.8	11.0	0.01	0.01	99.2	2.94	2.0	0.8	1.9	1.6	1.1	102.1	101.0	101.5
2015	10585	2290	364	15.6	14.3	0.02	0.02	99.4	2.92	2.8	1.0	2.5	2.4	1.2	102.7	101.3	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.



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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
2005	11404	1617	-398	-25.4	-17.2	-0.09	-0.03	98.9	3.06	-4.7	-2.6	-2.9	-4.8	-1.4	98.8	101.2	99.9
2006	11515	1671	-355	-20.4	-14.9	-0.06	-0.03	98.8	3.06	-3.9	-2.1	-2.6	-4.2	-0.8	99.0	101.0	99.9
2007	10939	1718	-277	-17.5	-12.1	-0.06	-0.02	98.7	3.04	-3.5	-1.9	-2.2	-3.7	-0.9	99.1	101.0	99.8
2008	11138	1766	-197	-15.8	-9.6	-0.07	-0.02	98.7	3.03	-2.6	-1.2	-1.7	-2.9	-0.4	99.2	100.7	99.7
2009	11660	1808	-126	-12.8	-7.7	-0.07	-0.03	98.4	3.04	-2.3	-1.2	-1.5	-2.5	-0.3	99.5	100.8	99.7
2010	11169	1871	-47	-8.2	-4.1	-0.05	-0.02	98.8	3.03	-1.6	-0.8	-1.0	-1.8	0.2	99.6	100.6	99.6
2011	11316	1965	40	-2.8	-0.5	-0.03	-0.01	98.8	3.01	-0.3	0.1	-0.1	-0.8	0.7	100.4	100.5	100.6
2012	11646	2047	69	2.2	2.1	0.00	0.00	98.9	3.00	0.7	0.5	0.8	0.2	1.0	100.9	100.4	101.0
2013	11638	2141	217	7.5	7.0	-0.00	0.00	99.1	2.96	1.6	0.8	1.5	1.1	1.2	101.5	100.5	101.1
2014	11092	2251	355	13.3	12.8	0.01	0.01	99.5	2.92	2.5	1.1	2.4	2.0	1.5	102.3	100.9	101.5
2015	10820	2338	418	18.7	16.2	0.03	0.02	99.7	2.91	3.5	1.8	3.0	2.9	1.7	102.9	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 2018**

**Newfoundland**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2005	162	1545	-558	-32.1	-21.2	-0.10	-0.02	98.8	3.06	-5.2	-3.2	-3.3	-5.2	-1.9	98.7	100.9	99.3
2006	149	1580	-542	-26.6	-20.9	-0.05	-0.02	97.6	3.05	-5.0	-3.0	-3.1	-5.2	-1.6	99.0	101.4	99.6
2007	159	1608	-466	-23.3	-19.0	-0.05	-0.03	98.4	3.04	-4.7	-3.0	-2.7	-4.9	-1.4	99.1	100.8	99.4
2008	177	1689	-378	-20.2	-14.6	-0.05	-0.02	98.0	3.02	-3.9	-2.4	-2.2	-4.2	-0.5	99.5	101.3	99.4
2009	197	1773	-132	-14.4	-8.7	-0.08	-0.03	98.3	3.03	-3.2	-2.1	-1.6	-3.5	-0.3	99.6	101.0	99.4
2010	254	1810	-123	-11.1	-9.6	-0.06	-0.05	99.2	3.02	-2.0	-1.3	-1.4	-2.1	-0.1	99.7	100.6	99.5
2011	228	1912	-45	-6.1	-3.7	-0.04	-0.02	98.9	2.98	-1.4	-1.1	-0.6	-1.7	0.1	100.8	101.0	100.8
2012	301	2036	125	2.0	2.8	-0.02	-0.01	98.9	3.00	0.3	0.4	0.8	-0.2	0.9	100.8	100.3	101.1
2013	293	2124	187	7.7	6.6	0.01	0.00	99.2	2.96	0.8	-0.0	1.1	0.7	0.5	101.5	101.0	101.1
2014	345	2261	337	14.2	13.5	0.02	0.02	99.8	2.91	2.2	0.8	1.9	1.8	1.1	102.6	101.8	101.8
2015	334	2381	576	24.0	20.8	0.03	0.02	100.1	2.87	2.8	1.5	2.7	2.6	0.4	103.1	101.6	102.3

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.