

**Provincial genetic trends by birth year for Holstein 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	2218	1533	-482	-20.5	-17.9	-0.02	-0.02	98.9	3.06	-3.1	-1.3	-1.8	-3.9	0.0	99.7	101.8	100.6
2004	2420	1568	-396	-18.5	-14.9	-0.03	-0.01	99.3	3.06	-2.6	-0.9	-1.7	-3.3	-0.1	99.4	101.3	99.9
2005	2254	1609	-402	-16.3	-13.9	-0.01	-0.00	99.2	3.05	-1.8	-0.4	-1.2	-2.4	0.2	99.6	101.1	99.5
2006	2224	1674	-328	-12.8	-11.6	-0.00	-0.00	99.1	3.04	-1.0	-0.1	-0.5	-1.7	0.7	100.2	101.1	100.3
2007	2228	1728	-229	-7.6	-7.8	0.01	0.00	99.1	3.02	-0.5	0.3	-0.4	-1.1	0.8	100.3	100.8	100.1
2008	2263	1794	-124	-5.4	-4.4	-0.00	-0.00	99.0	3.01	0.4	0.8	0.3	-0.3	1.2	100.7	100.7	100.4
2009	2324	1838	-52	-1.0	-2.0	0.01	0.00	99.3	3.00	0.7	0.7	0.4	0.2	1.4	101.0	100.6	100.3
2010	2370	1901	13	3.9	1.1	0.04	0.01	99.9	2.98	1.5	1.3	1.1	0.8	1.5	101.2	100.3	100.1
2011	2071	1998	113	8.9	4.1	0.05	0.01	99.4	2.97	3.1	2.4	2.4	2.1	2.3	101.9	100.0	101.0
2012	2170	2069	155	13.1	7.2	0.07	0.02	99.5	2.96	3.9	2.9	3.0	3.0	2.3	102.3	99.9	101.3
2013	1855	2174	324	17.2	12.6	0.05	0.02	99.8	2.94	5.1	3.4	4.0	4.2	2.6	102.8	100.1	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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**Nova Scotia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2003	3373	1551	-424	-19.4	-14.9	-0.03	-0.01	98.5	3.06	-3.5	-1.7	-1.8	-4.1	-0.7	99.8	101.8	101.0
2004	3324	1570	-377	-16.3	-13.0	-0.02	-0.00	99.0	3.05	-3.3	-1.5	-2.0	-3.7	-0.9	99.5	101.5	100.2
2005	3170	1627	-324	-13.4	-10.6	-0.01	0.00	98.7	3.04	-2.5	-1.1	-1.6	-2.9	-0.4	99.9	101.4	100.3
2006	2767	1700	-278	-8.4	-8.1	0.02	0.01	99.0	3.02	-1.7	-0.8	-1.0	-2.2	0.0	100.6	101.6	100.9
2007	2871	1738	-137	-6.1	-4.8	-0.00	-0.00	98.7	3.03	-1.2	-0.6	-0.7	-1.5	-0.0	100.3	101.2	100.1
2008	3176	1813	-54	-1.6	-1.4	0.01	0.01	99.0	3.00	-0.3	0.1	-0.0	-0.9	0.7	100.8	101.3	100.5
2009	2999	1850	-6	0.9	-0.1	0.02	0.00	98.5	3.00	0.2	0.4	0.2	-0.2	1.0	101.0	101.1	100.4
2010	3118	1923	118	6.0	3.9	0.02	0.00	99.2	2.98	1.0	0.9	0.8	0.4	1.4	101.3	101.1	100.6
2011	2878	2008	172	10.8	6.6	0.05	0.01	99.2	2.97	2.2	1.6	1.9	1.5	1.7	102.2	100.7	101.5
2012	2656	2131	244	17.3	11.4	0.08	0.03	99.2	2.95	3.7	2.6	3.1	2.9	2.1	102.8	100.9	101.9
2013	2197	2230	423	23.4	16.9	0.08	0.03	99.4	2.93	4.7	2.9	4.1	3.9	2.5	103.2	100.9	102.1

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 2016**

**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2003	2580	1544	-384	-18.6	-14.6	-0.04	-0.02	98.8	3.06	-3.8	-1.9	-2.2	-4.3	-0.5	99.8	101.8	101.1
2004	2588	1585	-243	-15.7	-11.4	-0.06	-0.03	99.1	3.06	-3.2	-1.6	-1.8	-3.6	-0.9	99.4	101.3	100.7
2005	2476	1628	-238	-13.8	-10.4	-0.04	-0.02	99.1	3.04	-2.4	-1.1	-1.4	-2.8	-0.5	99.8	101.2	100.5
2006	2375	1681	-204	-9.6	-8.6	-0.02	-0.01	99.1	3.02	-1.7	-0.7	-1.0	-2.2	0.2	100.4	101.0	101.0
2007	2364	1730	-133	-5.4	-5.1	-0.00	-0.00	99.0	3.01	-1.4	-0.5	-0.9	-1.7	-0.1	100.3	101.0	100.5
2008	2444	1789	-37	-2.6	-2.4	-0.01	-0.01	99.2	2.99	-0.6	0.1	-0.2	-1.2	0.5	100.8	101.1	100.7
2009	2406	1821	39	-0.7	-0.2	-0.02	-0.01	99.2	2.99	-0.3	-0.2	-0.2	-0.7	0.7	101.0	101.0	100.4
2010	2332	1891	108	5.1	4.1	0.01	0.01	99.4	2.98	0.5	0.8	0.6	-0.1	1.0	100.9	100.5	100.3
2011	2126	1989	181	10.5	6.5	0.04	0.01	99.1	2.98	2.1	1.8	2.0	1.2	1.9	101.8	100.3	101.1
2012	2033	2079	220	16.5	9.9	0.08	0.02	99.4	2.96	3.3	2.5	2.9	2.4	1.9	102.1	99.9	101.4
2013	1609	2180	376	20.5	14.9	0.07	0.02	99.5	2.94	4.3	3.0	3.8	3.5	2.2	102.7	100.4	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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**Canadian Dairy Network, August 2016**

**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2003	69625	1559	-386	-18.0	-13.6	-0.03	-0.01	98.7	3.08	-3.9	-2.1	-2.1	-4.4	-0.6	99.8	102.3	101.3
2004	70190	1587	-335	-13.9	-11.5	-0.01	-0.00	99.2	3.06	-3.5	-2.0	-2.0	-3.8	-0.8	99.6	101.7	100.2
2005	67311	1635	-292	-12.4	-10.1	-0.01	-0.00	99.1	3.04	-2.6	-1.4	-1.4	-3.0	-0.4	99.9	101.5	100.4
2006	62997	1705	-213	-6.5	-6.9	0.02	0.00	99.3	3.02	-1.9	-1.1	-1.0	-2.2	-0.1	100.4	101.3	100.7
2007	64471	1751	-98	-4.3	-3.0	-0.00	0.00	99.2	3.02	-1.4	-0.8	-0.7	-1.7	-0.2	100.3	101.2	100.2
2008	67427	1810	-29	-1.4	-0.4	0.00	0.01	99.2	3.00	-0.7	-0.4	-0.1	-1.1	0.4	100.8	101.2	100.5
2009	68543	1848	66	1.7	1.9	-0.00	-0.00	98.9	3.00	-0.2	-0.2	-0.0	-0.5	0.5	101.0	101.0	100.2
2010	66706	1930	174	7.3	6.4	0.01	0.01	99.5	2.99	0.6	0.5	0.8	0.1	1.0	101.1	100.9	100.3
2011	65133	2022	229	11.7	9.1	0.03	0.02	99.4	2.97	2.0	1.1	1.8	1.4	1.4	102.2	100.8	101.3
2012	64064	2123	280	17.9	12.8	0.07	0.03	99.7	2.95	3.2	2.0	2.9	2.6	1.8	102.7	100.8	101.7
2013	52959	2230	443	23.0	18.1	0.07	0.03	99.6	2.92	4.4	2.4	3.8	3.7	2.1	103.4	101.0	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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**Ontario**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2003	51461	1545	-453	-16.1	-15.2	0.01	-0.00	98.7	3.04	-3.8	-1.8	-2.1	-4.4	-0.6	99.7	101.8	100.7
2004	54234	1579	-381	-14.1	-13.0	0.01	-0.00	99.2	3.04	-3.3	-1.6	-1.9	-3.8	-0.7	99.6	101.5	100.3
2005	53594	1625	-330	-12.2	-11.3	0.01	-0.00	99.1	3.04	-2.5	-1.2	-1.4	-2.9	-0.6	99.7	101.3	100.2
2006	51802	1685	-264	-7.4	-8.4	0.03	0.00	99.1	3.02	-1.8	-0.8	-1.0	-2.3	-0.0	100.2	101.2	100.5
2007	53368	1720	-192	-5.5	-6.3	0.02	0.00	99.1	3.02	-1.5	-0.7	-0.8	-1.8	-0.1	100.3	101.1	100.3
2008	54683	1779	-124	-3.0	-3.6	0.02	0.01	99.1	3.00	-0.6	-0.1	-0.2	-1.1	0.5	100.7	101.0	100.5
2009	54799	1819	-28	-0.3	-1.4	0.01	-0.00	99.0	3.00	-0.2	0.0	-0.0	-0.6	0.6	100.9	101.0	100.3
2010	54609	1887	66	4.9	2.9	0.03	0.01	99.4	2.99	0.6	0.7	0.6	0.0	1.1	101.0	100.6	100.3
2011	52846	1977	131	10.4	5.7	0.06	0.01	99.2	2.97	1.9	1.4	1.7	1.1	1.7	101.8	100.4	101.2
2012	50236	2080	208	16.1	9.6	0.08	0.03	99.3	2.97	3.3	2.4	2.7	2.5	2.0	102.3	100.3	101.6
2013	43589	2176	378	21.4	15.2	0.07	0.03	99.3	2.94	4.1	2.6	3.5	3.4	2.0	102.7	100.4	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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**Manitoba**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2003	5783	1509	-450	-19.5	-15.2	-0.02	-0.00	99.0	3.05	-4.8	-3.4	-2.5	-4.9	-1.7	99.7	101.9	100.6
2004	5454	1551	-343	-17.2	-12.5	-0.04	-0.01	99.1	3.04	-4.2	-3.0	-2.3	-4.2	-1.5	99.7	101.6	100.4
2005	5538	1585	-315	-15.9	-11.5	-0.04	-0.01	99.2	3.04	-3.5	-2.5	-1.9	-3.5	-1.4	99.8	101.5	100.3
2006	5655	1639	-235	-12.1	-9.0	-0.03	-0.01	99.1	3.04	-2.8	-2.1	-1.3	-2.9	-1.0	100.1	101.2	100.5
2007	5479	1686	-156	-8.5	-6.4	-0.02	-0.01	99.1	3.03	-2.3	-1.7	-1.1	-2.4	-0.8	100.2	101.2	100.1
2008	6066	1742	-93	-6.0	-4.1	-0.02	-0.01	99.0	3.02	-1.4	-1.0	-0.5	-1.7	-0.2	100.5	101.1	100.6
2009	5930	1786	-25	-2.4	-2.4	-0.01	-0.01	98.9	3.01	-1.0	-1.0	-0.4	-1.1	-0.1	100.9	101.2	100.5
2010	5824	1869	86	2.2	1.7	-0.00	-0.01	99.4	3.00	-0.1	-0.5	0.2	-0.2	0.4	101.3	101.4	100.7
2011	5660	1950	174	7.3	5.5	0.01	0.00	99.2	2.99	0.9	0.2	1.0	0.5	0.9	101.9	101.3	101.5
2012	5702	2050	260	12.7	9.7	0.03	0.01	99.4	2.96	2.1	0.9	2.0	1.7	1.4	102.5	101.3	101.9
2013	4333	2156	442	18.2	16.0	0.02	0.01	99.6	2.94	3.0	1.0	2.8	2.6	1.4	103.2	101.5	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.
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**Saskatchewan**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2003	4030	1523	-400	-19.3	-15.4	-0.04	-0.02	99.0	3.05	-4.6	-3.1	-2.4	-4.8	-1.5	99.9	102.4	100.7
2004	4197	1552	-396	-18.4	-15.0	-0.03	-0.02	98.9	3.04	-3.8	-2.6	-2.2	-4.0	-1.2	100.0	102.2	100.6
2005	4114	1595	-368	-17.0	-13.7	-0.03	-0.01	99.0	3.05	-3.0	-2.0	-1.6	-3.1	-1.1	100.0	102.0	100.5
2006	3895	1638	-300	-14.9	-11.9	-0.03	-0.02	98.7	3.05	-2.3	-1.6	-1.1	-2.5	-0.6	100.2	101.8	100.8
2007	3496	1693	-231	-11.4	-8.8	-0.02	-0.01	98.7	3.03	-1.7	-1.2	-0.9	-1.9	-0.5	100.5	101.8	100.5
2008	3985	1734	-186	-10.0	-7.1	-0.02	-0.01	98.7	3.02	-0.8	-0.5	-0.5	-1.2	0.1	100.5	101.6	100.5
2009	3814	1778	-113	-6.8	-5.1	-0.02	-0.01	98.8	3.01	-0.5	-0.4	-0.2	-0.8	0.2	100.9	101.8	100.6
2010	3767	1842	3	-2.4	-1.2	-0.02	-0.01	99.0	3.02	0.2	-0.1	0.4	-0.1	0.6	101.0	101.5	100.6
2011	3431	1932	89	2.4	2.7	-0.00	0.00	99.0	3.00	1.5	0.8	1.4	0.9	1.1	101.6	101.2	101.1
2012	3484	2021	175	8.5	6.5	0.03	0.01	99.1	2.98	2.6	1.4	2.2	2.0	1.7	102.2	101.0	101.7
2013	2870	2106	263	13.2	10.4	0.04	0.02	99.2	2.96	3.5	1.9	3.0	2.9	1.8	102.7	101.1	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
2003	11853	1536	-340	-19.3	-13.6	-0.06	-0.02	98.9	3.04	-4.9	-3.6	-2.6	-4.8	-1.9	100.2	102.6	101.1
2004	12811	1570	-308	-17.8	-12.6	-0.05	-0.02	99.1	3.03	-4.2	-3.2	-2.4	-4.0	-1.8	100.2	102.5	100.9
2005	13029	1601	-285	-16.0	-11.3	-0.05	-0.01	99.1	3.04	-3.6	-2.8	-2.0	-3.4	-1.6	100.2	102.1	100.8
2006	13098	1647	-220	-13.2	-8.9	-0.04	-0.01	99.1	3.04	-2.9	-2.3	-1.6	-2.8	-1.0	100.3	101.8	100.8
2007	12482	1706	-127	-9.2	-5.7	-0.04	-0.01	99.0	3.02	-2.2	-1.9	-1.2	-2.1	-1.1	100.5	101.7	100.4
2008	13101	1761	-64	-6.5	-3.5	-0.03	-0.01	98.8	3.01	-1.3	-1.2	-0.5	-1.3	-0.4	100.7	101.5	100.6
2009	13219	1804	1	-3.9	-1.4	-0.03	-0.01	98.7	3.01	-0.8	-1.0	-0.3	-0.8	-0.2	101.1	101.5	100.7
2010	12974	1871	75	0.6	1.7	-0.02	-0.00	99.0	3.00	0.1	-0.6	0.3	0.0	0.3	101.4	101.4	100.7
2011	12193	1961	185	7.0	6.2	0.01	0.00	99.0	2.99	1.1	0.2	1.1	0.9	0.8	101.9	101.2	101.3
2012	11967	2052	256	12.2	9.6	0.03	0.01	99.1	2.97	2.3	0.9	2.0	1.9	1.2	102.6	101.1	101.9
2013	9864	2138	385	16.8	14.0	0.03	0.01	99.5	2.95	3.1	1.1	2.7	2.7	1.3	103.1	101.4	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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**British Columbia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2003	11452	1545	-308	-17.3	-12.7	-0.05	-0.02	99.3	3.05	-4.4	-2.8	-2.4	-4.6	-1.3	99.8	102.0	101.2
2004	11144	1576	-260	-16.7	-11.1	-0.06	-0.02	99.5	3.05	-3.8	-2.6	-2.3	-3.8	-1.4	99.7	101.8	100.8
2005	11398	1610	-257	-16.5	-11.0	-0.06	-0.02	99.3	3.05	-2.9	-2.0	-1.7	-2.9	-1.0	100.1	101.6	100.9
2006	11492	1666	-210	-11.4	-8.6	-0.03	-0.01	99.3	3.04	-2.2	-1.5	-1.3	-2.3	-0.4	100.2	101.4	100.9
2007	10904	1717	-128	-8.3	-5.7	-0.03	-0.01	99.2	3.02	-1.7	-1.3	-1.0	-1.8	-0.4	100.5	101.4	100.7
2008	11075	1765	-46	-6.6	-3.2	-0.04	-0.01	99.1	3.02	-0.8	-0.6	-0.4	-1.0	0.1	100.5	101.1	100.5
2009	11562	1809	30	-3.6	-1.2	-0.04	-0.02	98.9	3.02	-0.4	-0.6	-0.2	-0.5	0.2	100.9	101.2	100.5
2010	10986	1875	111	1.3	2.6	-0.02	-0.01	99.3	3.01	0.4	-0.1	0.4	0.2	0.7	101.0	101.0	100.4
2011	10985	1973	203	6.7	6.2	-0.00	-0.00	99.2	2.99	1.7	1.0	1.5	1.3	1.3	101.9	100.8	101.4
2012	11055	2067	252	12.5	9.5	0.04	0.01	99.3	2.97	2.9	1.6	2.5	2.4	1.6	102.5	100.7	101.8
2013	10598	2163	395	18.0	14.4	0.04	0.01	99.6	2.94	3.8	1.9	3.4	3.3	1.8	103.1	100.8	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 2016**

**Newfoundland**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2003	81	1481	-531	-22.3	-18.4	-0.02	-0.01	98.2	3.06	-4.5	-3.1	-2.3	-4.8	-1.2	99.8	101.7	100.6
2004	79	1461	-635	-23.3	-20.1	0.01	0.01	98.1	3.03	-4.9	-3.3	-3.0	-5.0	-1.3	100.2	102.2	100.6
2005	159	1531	-415	-23.1	-14.9	-0.07	-0.01	99.3	3.04	-3.7	-2.7	-2.2	-3.5	-1.5	100.0	101.3	100.4
2006	145	1572	-395	-17.5	-14.6	-0.02	-0.01	98.0	3.03	-3.4	-2.5	-1.9	-3.5	-1.2	100.4	101.7	100.7
2007	156	1601	-315	-14.0	-12.5	-0.02	-0.02	98.8	3.03	-3.2	-2.6	-1.5	-3.1	-0.9	100.5	101.1	100.4
2008	170	1679	-232	-11.4	-8.4	-0.02	-0.00	98.7	3.01	-2.2	-1.9	-1.0	-2.5	-0.1	100.8	101.7	100.3
2009	194	1777	28	-4.6	-1.9	-0.05	-0.02	98.7	3.01	-1.4	-1.5	-0.3	-1.5	0.2	101.0	101.4	100.1
2010	242	1816	22	-1.3	-2.9	-0.02	-0.03	99.7	3.00	-0.0	-0.6	-0.0	-0.1	0.5	101.1	100.9	100.3
2011	212	1916	90	3.6	2.6	0.01	-0.00	99.5	2.97	0.6	-0.2	0.9	0.3	0.5	102.2	101.4	101.7
2012	252	2069	306	12.0	9.9	0.01	0.00	99.4	2.97	2.8	1.6	2.7	2.3	1.6	102.6	100.6	101.8
2013	190	2168	336	19.7	13.0	0.07	0.02	100.0	2.93	3.7	1.7	3.3	3.4	1.4	103.1	101.3	102.1

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.