

**Provincial genetic trends by birth year for Holstein cows**  
**Canadian Dairy Network, August 2015**

**Prince Edward Island**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2002	2290	1471	-498	-16.8	-16.6	0.02	0.00	99.7	3.02	-3.2	-1.7	-1.9	-3.9	-0.3	100.2	101.6	100.0
2003	2215	1516	-405	-17.1	-15.2	-0.02	-0.01	99.1	3.05	-2.3	-0.9	-1.4	-3.0	0.1	100.2	101.8	100.8
2004	2419	1552	-322	-15.2	-12.3	-0.03	-0.01	99.5	3.05	-1.9	-0.5	-1.2	-2.4	0.0	99.9	101.4	100.0
2005	2252	1596	-324	-12.9	-11.1	-0.00	-0.00	99.4	3.04	-1.0	-0.1	-0.8	-1.6	0.3	100.1	101.1	99.7
2006	2217	1661	-254	-9.5	-9.0	0.00	-0.00	99.3	3.03	-0.2	0.3	-0.1	-0.8	0.8	100.7	101.1	100.5
2007	2226	1720	-153	-4.2	-5.0	0.02	0.00	99.3	3.01	0.3	0.6	0.1	-0.2	0.9	100.8	100.9	100.3
2008	2252	1788	-45	-1.9	-1.6	0.00	0.00	99.2	3.00	1.2	1.1	0.8	0.5	1.4	101.3	100.7	100.6
2009	2306	1835	25	2.5	0.8	0.02	0.00	99.4	2.99	1.6	1.1	0.9	1.0	1.5	101.6	100.7	100.4
2010	2331	1899	81	7.3	3.7	0.04	0.01	100.0	2.97	2.4	1.8	1.7	1.7	1.7	101.8	100.3	100.3
2011	2011	1997	181	11.8	6.5	0.05	0.01	99.6	2.96	4.0	3.0	3.1	3.0	2.5	102.5	100.0	101.1
2012	1846	2077	221	15.8	9.5	0.08	0.02	99.8	2.95	5.0	3.5	3.8	4.0	2.6	102.9	100.0	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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**Nova Scotia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2002	3342	1478	-425	-15.7	-14.0	0.00	0.00	98.8	3.04	-3.8	-2.2	-2.1	-4.3	-0.9	100.1	101.7	100.7
2003	3372	1535	-349	-16.2	-12.2	-0.03	-0.00	98.6	3.06	-2.7	-1.4	-1.4	-3.3	-0.6	100.3	101.9	101.1
2004	3318	1556	-300	-13.0	-10.3	-0.01	-0.00	99.1	3.05	-2.5	-1.2	-1.6	-2.9	-0.8	100.0	101.6	100.4
2005	3165	1615	-245	-10.1	-7.8	-0.01	0.00	98.9	3.04	-1.7	-0.8	-1.1	-2.0	-0.3	100.4	101.4	100.5
2006	2757	1690	-199	-5.0	-5.3	0.03	0.01	99.1	3.01	-0.9	-0.5	-0.6	-1.3	0.2	101.1	101.6	101.1
2007	2850	1732	-57	-2.7	-2.1	-0.00	0.00	98.9	3.02	-0.4	-0.3	-0.3	-0.6	0.1	100.8	101.3	100.3
2008	3150	1808	24	1.7	1.4	0.01	0.01	99.2	2.99	0.5	0.5	0.5	-0.0	0.9	101.4	101.3	100.7
2009	2985	1847	72	4.3	2.8	0.02	0.01	98.7	2.99	1.1	0.7	0.7	0.7	1.2	101.6	101.1	100.6
2010	3077	1925	196	9.7	6.7	0.03	0.01	99.4	2.97	1.9	1.4	1.3	1.3	1.6	101.9	101.1	100.8
2011	2789	2010	238	14.0	9.2	0.05	0.01	99.4	2.95	3.1	2.1	2.5	2.4	1.9	102.7	100.8	101.6
2012	2267	2142	315	20.1	13.8	0.08	0.03	99.4	2.94	4.8	3.3	3.9	3.9	2.4	103.4	101.1	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 2015**

**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2002	2655	1479	-398	-15.4	-13.7	-0.00	-0.00	99.3	3.03	-3.9	-2.2	-2.3	-4.4	-0.7	100.2	101.9	100.7
2003	2579	1529	-308	-15.3	-11.9	-0.03	-0.01	98.9	3.05	-3.0	-1.6	-1.8	-3.5	-0.3	100.4	101.9	101.3
2004	2585	1572	-166	-12.5	-8.7	-0.06	-0.03	99.3	3.05	-2.4	-1.2	-1.4	-2.7	-0.8	99.9	101.4	100.8
2005	2469	1616	-163	-10.6	-7.7	-0.04	-0.02	99.2	3.03	-1.6	-0.8	-1.0	-1.9	-0.4	100.4	101.3	100.7
2006	2367	1673	-127	-6.2	-5.8	-0.01	-0.01	99.2	3.02	-0.9	-0.4	-0.6	-1.3	0.3	100.9	101.1	101.2
2007	2355	1724	-53	-2.0	-2.2	0.00	-0.00	99.2	3.00	-0.6	-0.1	-0.4	-0.8	0.0	100.8	101.1	100.7
2008	2439	1784	39	0.6	0.4	-0.00	-0.01	99.4	2.98	0.3	0.4	0.3	-0.3	0.7	101.3	101.1	100.9
2009	2380	1821	119	2.8	2.8	-0.01	-0.01	99.3	2.98	0.6	0.2	0.4	0.2	0.8	101.6	101.1	100.6
2010	2301	1891	177	8.6	6.6	0.02	0.01	99.5	2.97	1.4	1.2	1.2	0.8	1.2	101.5	100.6	100.5
2011	2082	1996	254	14.0	9.1	0.05	0.01	99.3	2.96	3.0	2.3	2.6	2.1	2.1	102.4	100.4	101.3
2012	1739	2087	272	19.2	11.9	0.09	0.03	99.5	2.95	4.4	3.1	3.7	3.4	2.2	102.8	100.1	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 2015**

**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2002	69400	1487	-452	-15.9	-14.0	0.01	0.01	99.3	3.04	-4.0	-2.4	-2.0	-4.5	-0.7	100.4	102.3	100.9
2003	69568	1544	-310	-14.8	-10.9	-0.03	-0.00	98.9	3.07	-3.1	-1.8	-1.7	-3.6	-0.5	100.3	102.3	101.4
2004	70126	1574	-258	-10.6	-8.7	-0.01	-0.00	99.3	3.05	-2.7	-1.6	-1.6	-3.0	-0.7	100.1	101.8	100.3
2005	67235	1624	-216	-9.1	-7.4	-0.01	-0.00	99.3	3.04	-1.8	-1.1	-1.0	-2.1	-0.3	100.5	101.6	100.5
2006	62878	1697	-135	-3.1	-4.1	0.02	0.01	99.5	3.01	-1.1	-0.8	-0.6	-1.4	-0.0	101.0	101.4	100.9
2007	64296	1746	-18	-0.9	-0.2	0.00	0.01	99.4	3.01	-0.6	-0.4	-0.3	-0.8	-0.1	100.8	101.3	100.4
2008	67114	1808	52	2.1	2.5	0.01	0.01	99.4	2.99	0.2	-0.0	0.3	-0.2	0.6	101.3	101.3	100.7
2009	67977	1849	148	5.3	4.9	0.00	0.00	99.1	2.99	0.6	0.2	0.5	0.4	0.7	101.5	101.0	100.5
2010	65874	1933	249	10.8	9.2	0.02	0.01	99.6	2.98	1.5	0.9	1.4	1.0	1.2	101.7	101.0	100.5
2011	63628	2025	292	15.0	11.5	0.04	0.02	99.6	2.96	2.9	1.7	2.4	2.3	1.6	102.8	100.8	101.5
2012	56761	2132	343	20.9	14.8	0.08	0.03	99.9	2.94	4.3	2.6	3.7	3.5	2.1	103.4	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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**Ontario**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2002	52853	1485	-464	-13.5	-14.2	0.04	0.01	99.3	3.03	-3.8	-2.2	-2.1	-4.4	-0.8	100.2	101.8	100.6
2003	51412	1530	-374	-12.8	-12.4	0.01	0.00	98.9	3.04	-3.0	-1.5	-1.7	-3.6	-0.4	100.2	101.8	100.8
2004	54180	1565	-304	-10.8	-10.2	0.01	0.00	99.3	3.04	-2.5	-1.3	-1.4	-2.9	-0.6	100.1	101.5	100.4
2005	53508	1613	-251	-8.8	-8.5	0.01	0.00	99.2	3.03	-1.7	-0.8	-1.0	-2.1	-0.5	100.3	101.3	100.4
2006	51673	1676	-185	-4.0	-5.6	0.03	0.01	99.3	3.02	-1.0	-0.5	-0.6	-1.4	0.1	100.8	101.2	100.7
2007	53146	1714	-111	-2.1	-3.4	0.02	0.00	99.2	3.01	-0.7	-0.3	-0.3	-1.0	0.0	100.8	101.2	100.5
2008	54376	1775	-42	0.4	-0.7	0.02	0.01	99.3	2.99	0.2	0.3	0.3	-0.2	0.7	101.3	101.0	100.8
2009	54271	1817	52	3.3	1.5	0.02	0.00	99.2	2.99	0.7	0.4	0.5	0.3	0.7	101.5	101.0	100.5
2010	53774	1888	145	8.4	5.7	0.03	0.01	99.5	2.98	1.5	1.1	1.2	0.9	1.3	101.5	100.6	100.5
2011	50851	1982	202	13.8	8.3	0.07	0.02	99.4	2.96	2.8	2.0	2.3	2.0	1.9	102.4	100.5	101.4
2012	44923	2086	270	19.0	11.8	0.09	0.03	99.6	2.96	4.3	2.9	3.5	3.4	2.3	102.9	100.5	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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**Manitoba**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2002	5495	1447	-413	-17.0	-13.8	-0.01	-0.00	99.5	3.03	-4.8	-3.5	-2.6	-4.8	-1.8	100.0	101.9	100.3
2003	5776	1493	-372	-16.4	-12.5	-0.02	-0.00	99.2	3.04	-4.0	-3.1	-2.1	-4.0	-1.6	100.3	102.0	100.7
2004	5443	1537	-270	-14.0	-9.9	-0.03	-0.01	99.3	3.03	-3.4	-2.6	-1.9	-3.3	-1.4	100.3	101.7	100.6
2005	5524	1572	-239	-12.7	-8.8	-0.03	-0.01	99.4	3.03	-2.8	-2.2	-1.4	-2.7	-1.3	100.4	101.6	100.5
2006	5638	1628	-159	-8.9	-6.3	-0.02	-0.01	99.3	3.03	-2.0	-1.8	-0.9	-2.0	-0.8	100.7	101.3	100.7
2007	5459	1677	-80	-5.2	-3.7	-0.02	-0.01	99.3	3.02	-1.5	-1.3	-0.7	-1.5	-0.6	100.7	101.3	100.3
2008	6000	1737	-11	-2.5	-1.1	-0.01	-0.00	99.2	3.01	-0.6	-0.6	-0.0	-0.8	-0.0	101.0	101.1	100.8
2009	5861	1783	51	1.0	0.4	-0.00	-0.01	99.1	3.00	-0.1	-0.6	0.2	-0.2	0.0	101.5	101.3	100.7
2010	5662	1870	165	5.6	4.6	0.00	-0.01	99.6	2.99	0.8	-0.0	0.8	0.7	0.6	101.8	101.4	100.9
2011	5409	1954	252	11.0	8.3	0.02	0.00	99.4	2.97	1.8	0.7	1.6	1.4	1.1	102.4	101.3	101.7
2012	4220	2054	314	15.4	11.7	0.04	0.01	99.4	2.95	3.1	1.4	2.7	2.6	1.7	103.2	101.4	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.
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**Saskatchewan**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2002	3905	1462	-416	-16.7	-14.7	-0.01	-0.01	99.4	3.03	-4.5	-3.3	-2.4	-4.5	-1.7	100.2	102.3	100.5
2003	4028	1508	-318	-16.0	-12.5	-0.03	-0.02	99.2	3.04	-3.8	-2.8	-2.0	-3.9	-1.4	100.4	102.4	100.9
2004	4186	1538	-315	-15.1	-12.2	-0.03	-0.01	99.1	3.03	-3.1	-2.2	-1.8	-3.2	-1.1	100.5	102.3	100.7
2005	4091	1583	-283	-13.6	-10.8	-0.02	-0.01	99.2	3.04	-2.2	-1.7	-1.2	-2.3	-1.0	100.5	102.1	100.6
2006	3870	1626	-217	-11.6	-9.0	-0.03	-0.01	98.9	3.04	-1.5	-1.3	-0.7	-1.7	-0.4	100.7	101.8	100.9
2007	3471	1684	-147	-8.0	-5.9	-0.02	-0.01	98.9	3.02	-0.9	-0.9	-0.5	-1.0	-0.3	101.0	101.8	100.7
2008	3940	1726	-97	-6.6	-4.1	-0.02	-0.01	98.9	3.02	-0.0	-0.1	-0.0	-0.3	0.2	101.0	101.6	100.7
2009	3739	1774	-31	-3.3	-2.3	-0.01	-0.01	98.9	3.01	0.3	0.0	0.3	0.1	0.4	101.5	101.8	100.8
2010	3672	1838	83	1.2	1.6	-0.01	-0.01	99.1	3.01	1.1	0.3	0.9	0.8	0.7	101.5	101.5	100.8
2011	3266	1932	165	6.0	5.5	0.01	0.00	99.1	2.99	2.3	1.3	2.0	1.7	1.3	102.1	101.3	101.2
2012	3153	2019	256	11.8	9.1	0.03	0.01	99.3	2.98	3.4	1.9	2.8	2.8	1.9	102.6	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.

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**Alberta**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2002	12057	1470	-325	-16.6	-12.5	-0.04	-0.01	99.2	3.03	-4.9	-3.9	-2.8	-4.7	-2.1	100.4	102.5	100.6
2003	11839	1521	-260	-15.9	-10.8	-0.05	-0.02	99.1	3.04	-4.1	-3.3	-2.2	-4.0	-1.7	100.6	102.6	101.2
2004	12796	1555	-230	-14.5	-9.9	-0.05	-0.02	99.2	3.03	-3.4	-2.8	-2.0	-3.2	-1.7	100.7	102.5	101.0
2005	13010	1588	-205	-12.5	-8.5	-0.04	-0.01	99.2	3.04	-2.8	-2.4	-1.6	-2.6	-1.4	100.7	102.2	101.0
2006	13080	1637	-139	-9.8	-6.0	-0.04	-0.01	99.2	3.04	-2.1	-2.0	-1.1	-1.9	-0.9	100.8	101.8	101.0
2007	12425	1698	-46	-5.7	-2.8	-0.03	-0.01	99.2	3.02	-1.4	-1.5	-0.7	-1.2	-0.9	101.0	101.7	100.6
2008	13038	1754	18	-3.0	-0.7	-0.03	-0.01	99.0	3.01	-0.5	-0.8	-0.1	-0.5	-0.2	101.2	101.5	100.8
2009	13111	1799	77	-0.4	1.4	-0.02	-0.01	98.9	3.01	0.0	-0.6	0.2	0.0	-0.1	101.6	101.5	100.8
2010	12764	1869	151	4.1	4.4	-0.01	-0.00	99.1	3.00	1.0	-0.1	0.9	0.9	0.4	101.9	101.4	100.8
2011	11741	1961	254	10.3	8.8	0.02	0.01	99.2	2.99	2.0	0.8	1.7	1.8	1.0	102.4	101.1	101.5
2012	10861	2053	325	15.4	12.2	0.04	0.02	99.3	2.97	3.2	1.4	2.7	2.8	1.4	103.0	101.2	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
2002	11416	1476	-314	-14.2	-11.6	-0.02	-0.01	99.6	3.03	-4.6	-3.1	-2.6	-4.7	-1.5	100.0	101.9	100.9
2003	11439	1531	-228	-14.0	-10.0	-0.05	-0.02	99.5	3.05	-3.7	-2.5	-2.0	-3.8	-1.2	100.3	102.1	101.4
2004	11136	1562	-182	-13.4	-8.3	-0.06	-0.02	99.6	3.05	-3.1	-2.2	-1.9	-3.0	-1.2	100.2	101.9	100.9
2005	11380	1598	-177	-13.1	-8.2	-0.06	-0.02	99.5	3.04	-2.1	-1.7	-1.3	-2.1	-0.9	100.6	101.6	101.0
2006	11465	1656	-131	-8.0	-5.8	-0.02	-0.01	99.5	3.03	-1.4	-1.2	-0.9	-1.4	-0.3	100.8	101.5	101.1
2007	10878	1710	-47	-4.8	-2.8	-0.02	-0.01	99.4	3.01	-0.9	-0.9	-0.5	-0.9	-0.3	101.0	101.4	100.8
2008	11023	1759	38	-3.2	-0.3	-0.04	-0.01	99.3	3.01	-0.0	-0.3	0.0	-0.1	0.2	101.1	101.1	100.7
2009	11467	1807	109	0.0	1.7	-0.03	-0.01	99.0	3.01	0.4	-0.2	0.3	0.4	0.3	101.5	101.2	100.7
2010	10764	1879	196	5.0	5.6	-0.01	-0.00	99.4	3.00	1.3	0.3	0.9	1.1	0.9	101.6	101.0	100.6
2011	10606	1979	281	10.7	9.0	0.01	0.00	99.5	2.98	2.6	1.5	2.1	2.2	1.5	102.4	100.8	101.5
2012	10063	2073	314	15.4	11.6	0.04	0.01	99.5	2.96	3.9	2.2	3.3	3.4	1.9	103.0	100.8	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 2015**

**Newfoundland**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2002	36	1396	-599	-22.2	-21.5	0.01	-0.01	98.5	3.05	-3.7	-2.9	-2.1	-4.2	-0.5	100.1	101.4	99.6
2003	80	1460	-437	-19.0	-15.3	-0.02	-0.01	98.4	3.06	-3.8	-2.8	-1.9	-4.0	-1.1	100.1	101.6	100.6
2004	78	1444	-554	-19.6	-17.0	0.01	0.01	98.2	3.02	-4.2	-2.9	-2.7	-4.2	-1.2	100.6	102.1	100.7
2005	156	1516	-325	-19.4	-11.6	-0.07	-0.01	99.6	3.04	-2.9	-2.3	-1.9	-2.7	-1.3	100.4	101.2	100.5
2006	144	1557	-305	-14.5	-11.8	-0.03	-0.01	98.1	3.03	-2.6	-2.2	-1.5	-2.6	-1.1	100.8	101.8	100.8
2007	150	1582	-231	-10.9	-9.8	-0.02	-0.02	98.9	3.03	-2.4	-2.3	-1.2	-2.3	-0.8	100.8	101.1	100.4
2008	166	1668	-157	-7.8	-5.3	-0.01	0.00	98.8	3.01	-1.5	-1.6	-0.7	-1.6	0.0	101.2	101.6	100.4
2009	193	1771	124	-1.3	1.1	-0.05	-0.02	98.9	3.01	-0.5	-1.2	0.2	-0.7	0.4	101.5	101.5	100.2
2010	237	1815	123	2.5	0.3	-0.01	-0.03	100.0	3.00	0.8	-0.0	0.6	0.7	0.7	101.6	100.9	100.6
2011	208	1908	147	5.5	4.6	0.01	0.00	99.9	2.97	1.5	0.3	1.5	1.3	0.8	102.7	101.3	101.8
2012	193	2060	307	15.3	10.5	0.04	0.01	99.7	2.96	3.8	2.2	3.5	3.2	1.9	102.9	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.