

Provincial genetic trends by birth year for Holstein cows
Canadian Dairy Network, August 2011

Prince Edward Island

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1998	1794	-709	-455	-14.0	-15.0	0.03	0.00	100.8	2.97	-2.5	-1.8	-1.2	-3.2	-0.1	101.2	102.1	100.7
1999	1805	-591	-405	-10.6	-11.9	0.04	0.01	100.1	2.99	-2.0	-1.3	-1.1	-2.6	-0.0	101.3	101.9	100.9
2000	1933	-477	-332	-6.5	-10.4	0.06	0.01	100.4	2.97	-1.1	-0.7	-0.3	-1.8	0.5	101.3	101.4	100.5
2001	2159	-442	-285	-6.6	-9.3	0.04	0.00	100.4	2.98	-0.9	-0.8	-0.1	-1.6	0.5	101.3	101.5	100.7
2002	2265	-355	-228	-5.3	-7.0	0.03	0.01	100.3	2.98	0.1	0.2	0.4	-0.9	1.2	101.2	101.0	100.5
2003	2169	-259	-110	-5.1	-5.0	-0.01	-0.01	99.5	3.01	1.0	0.9	1.0	0.0	1.7	101.3	101.1	101.3
2004	2359	-151	-17	-2.5	-1.7	-0.01	-0.01	99.7	3.01	1.5	1.3	1.2	0.7	1.6	101.0	100.7	100.5
2005	2185	-39	-4	-0.3	-0.4	0.00	-0.00	99.6	3.00	2.4	1.8	1.8	1.6	2.0	101.5	100.4	100.2
2006	2136	121	69	3.8	1.9	0.02	-0.00	99.3	2.99	3.3	2.2	2.6	2.4	2.4	102.2	100.5	101.1
2007	2142	305	173	9.2	6.3	0.03	0.01	99.1	2.95	4.1	2.9	2.8	3.2	2.7	102.6	100.2	100.9
2008	1848	481	302	12.7	10.2	0.02	0.00	99.0	2.94	5.0	3.4	3.7	4.0	3.2	103.1	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.

Provincial genetic trends by birth year for Holstein cows
Canadian Dairy Network, August 2011

Nova Scotia

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1998	2808	-661	-439	-11.8	-12.7	0.04	0.02	99.5	2.99	-2.9	-2.1	-1.2	-3.4	-0.8	101.3	102.2	100.7
1999	2854	-582	-322	-9.6	-10.3	0.02	0.00	99.9	2.98	-2.6	-1.8	-1.2	-3.1	-0.5	101.4	102.0	101.2
2000	2758	-503	-308	-7.8	-8.8	0.04	0.01	99.4	2.98	-2.0	-1.6	-0.9	-2.6	-0.1	101.5	102.0	100.8
2001	3312	-389	-222	-4.3	-6.1	0.04	0.01	99.4	2.99	-1.4	-1.1	-0.4	-1.9	-0.0	101.5	101.5	101.2
2002	3338	-328	-156	-3.9	-4.4	0.02	0.01	99.2	3.00	-0.5	-0.3	0.2	-1.3	0.6	101.2	101.0	101.1
2003	3367	-205	-63	-3.8	-2.1	-0.01	0.00	98.9	3.02	0.6	0.5	1.0	-0.2	0.9	101.5	101.1	101.6
2004	3312	-135	-14	-0.5	-0.1	0.01	0.01	99.3	3.00	0.8	0.7	0.8	0.2	0.7	101.2	100.7	100.8
2005	3142	15	68	2.7	3.0	0.01	0.01	99.1	2.99	1.6	1.0	1.3	1.1	1.2	101.7	100.5	100.9
2006	2729	215	132	8.7	6.1	0.04	0.02	99.1	2.96	2.5	1.5	2.0	1.9	1.8	102.6	100.6	101.6
2007	2786	341	274	11.4	9.6	0.02	0.01	98.9	2.97	3.3	2.0	2.6	2.7	1.8	102.4	100.3	100.8
2008	2685	531	379	16.0	13.4	0.03	0.01	99.0	2.93	4.2	2.7	3.3	3.3	2.6	103.1	100.3	101.1

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.

Provincial genetic trends by birth year for Holstein cows
Canadian Dairy Network, August 2011

New Brunswick

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1998	2364	-654	-376	-11.4	-12.1	0.03	0.00	99.9	2.98	-3.1	-2.1	-1.4	-3.6	-0.6	101.3	102.4	101.0
1999	2386	-585	-312	-9.4	-10.4	0.02	0.00	100.1	2.98	-2.6	-1.8	-1.4	-3.0	-0.2	101.4	102.0	101.0
2000	2316	-478	-258	-6.8	-8.6	0.03	0.00	100.0	2.98	-1.7	-1.3	-0.9	-2.3	0.2	101.5	102.0	101.0
2001	2681	-409	-205	-4.4	-7.3	0.03	-0.00	100.2	2.99	-1.4	-1.2	-0.5	-1.9	0.1	101.4	101.8	101.1
2002	2638	-335	-142	-4.1	-4.5	0.01	0.00	99.7	2.99	-0.6	-0.3	0.0	-1.4	0.7	101.2	101.2	101.1
2003	2548	-222	-33	-3.6	-2.2	-0.02	-0.01	99.2	3.01	0.3	0.3	0.6	-0.4	1.1	101.5	101.2	101.8
2004	2546	-108	116	-0.3	1.4	-0.04	-0.02	99.3	3.01	0.9	0.7	1.0	0.4	0.7	101.1	100.6	101.4
2005	2416	13	140	2.0	2.8	-0.03	-0.01	99.2	2.99	1.8	1.2	1.5	1.3	1.2	101.8	100.5	101.3
2006	2291	176	188	7.0	5.5	0.01	-0.00	99.0	2.97	2.7	1.7	2.1	2.0	1.9	102.5	100.3	101.8
2007	2308	337	294	12.1	9.4	0.02	-0.00	98.9	2.95	3.1	2.1	2.4	2.5	1.7	102.5	100.3	101.2
2008	2012	504	418	15.6	13.0	0.01	-0.00	99.1	2.93	4.1	2.8	3.3	3.2	2.5	102.9	100.2	101.4

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 2011

Quebec

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1998	58146	-689	-491	-12.0	-13.9	0.06	0.02	100.0	2.99	-3.4	-2.4	-1.1	-4.0	-0.8	101.3	102.7	100.9
1999	58957	-608	-400	-10.4	-11.3	0.04	0.02	100.0	2.99	-2.8	-1.9	-1.1	-3.4	-0.4	101.4	102.4	101.2
2000	60430	-520	-325	-8.4	-9.3	0.04	0.01	99.8	3.00	-2.2	-1.5	-0.8	-2.8	-0.1	101.3	102.4	100.8
2001	66827	-420	-282	-5.5	-7.5	0.05	0.02	99.9	2.99	-1.4	-1.0	-0.3	-2.2	0.4	101.4	102.0	101.2
2002	68847	-326	-199	-4.6	-4.9	0.03	0.02	99.8	3.00	-0.6	-0.4	0.3	-1.5	0.8	101.3	101.6	101.4
2003	68738	-194	-38	-2.9	-1.3	-0.01	0.00	99.2	3.03	0.2	0.2	0.7	-0.5	1.0	101.5	101.6	102.0
2004	69020	-89	26	1.5	1.3	0.01	0.01	99.6	3.01	0.7	0.3	0.9	0.1	0.8	101.3	101.0	100.9
2005	65846	39	87	3.6	3.2	0.01	0.01	99.5	2.99	1.7	0.9	1.6	1.1	1.3	101.8	100.7	101.1
2006	60800	238	184	10.2	7.0	0.04	0.01	99.5	2.96	2.5	1.4	2.1	1.9	1.6	102.5	100.5	101.5
2007	60998	384	314	12.8	11.3	0.02	0.01	99.4	2.95	3.1	1.9	2.6	2.5	1.7	102.5	100.4	101.0
2008	54374	558	421	16.9	14.8	0.02	0.01	99.1	2.93	4.0	2.5	3.3	3.2	2.4	103.1	100.4	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.

Provincial genetic trends by birth year for Holstein cows
Canadian Dairy Network, August 2011

Ontario

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1998	49456	-656	-500	-10.1	-13.7	0.08	0.03	100.1	2.97	-2.9	-2.0	-1.3	-3.5	-0.6	101.2	102.3	100.6
1999	48874	-563	-408	-7.6	-11.1	0.08	0.02	100.0	2.98	-2.3	-1.5	-1.0	-3.0	-0.3	101.2	102.0	100.7
2000	48415	-448	-331	-4.7	-8.9	0.08	0.02	100.1	2.97	-1.6	-1.2	-0.5	-2.3	0.1	101.4	101.8	100.4
2001	52664	-375	-261	-2.6	-6.8	0.07	0.02	100.1	2.98	-1.2	-0.8	-0.1	-2.0	0.3	101.2	101.6	100.6
2002	52318	-302	-195	-1.8	-4.6	0.06	0.02	99.7	2.99	-0.5	-0.2	0.3	-1.4	0.7	101.2	101.1	101.0
2003	50681	-198	-91	-0.7	-2.5	0.03	0.01	99.2	3.00	0.4	0.4	0.7	-0.5	1.1	101.4	101.1	101.4
2004	53127	-102	-6	1.7	0.2	0.02	0.01	99.6	2.99	0.8	0.6	1.0	0.2	0.9	101.3	100.8	100.9
2005	51949	21	60	4.1	2.3	0.02	0.01	99.3	2.99	1.7	1.1	1.6	1.1	1.1	101.6	100.5	100.9
2006	49477	192	134	9.3	5.4	0.05	0.01	99.2	2.97	2.5	1.6	2.1	1.8	1.8	102.3	100.3	101.3
2007	49803	308	228	11.8	8.2	0.04	0.01	99.1	2.96	3.1	2.0	2.5	2.4	1.7	102.4	100.3	101.0
2008	45916	470	322	15.2	11.5	0.04	0.01	99.1	2.93	4.0	2.6	3.2	3.1	2.5	103.0	100.2	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 2011

Manitoba

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1998	4992	-767	-473	-13.7	-15.1	0.04	0.01	100.3	2.97	-3.7	-3.0	-1.6	-3.9	-1.4	101.0	102.2	100.7
1999	4910	-646	-386	-10.6	-12.0	0.04	0.01	100.5	2.98	-3.1	-2.5	-1.4	-3.2	-1.1	101.1	102.1	100.7
2000	4932	-533	-301	-8.9	-8.8	0.02	0.01	100.4	2.97	-2.6	-2.5	-1.1	-2.7	-0.8	101.3	102.1	100.5
2001	5216	-450	-220	-6.5	-6.1	0.02	0.01	100.6	2.98	-2.2	-2.1	-0.6	-2.4	-0.9	101.1	101.7	100.6
2002	5429	-426	-206	-6.4	-5.9	0.02	0.01	100.3	2.99	-1.5	-1.5	-0.3	-1.9	-0.4	100.9	101.2	100.8
2003	5643	-319	-151	-5.2	-4.2	0.01	0.01	99.9	2.99	-0.7	-1.0	0.2	-1.0	-0.1	101.3	101.3	101.2
2004	5323	-201	-31	-2.5	-1.0	-0.01	0.00	99.8	2.99	-0.0	-0.6	0.5	-0.3	0.1	101.4	101.0	101.1
2005	5358	-115	10	-0.8	0.3	-0.01	0.00	99.8	2.99	0.7	-0.1	1.0	0.5	0.2	101.5	100.7	101.0
2006	5335	62	129	4.3	4.1	0.00	0.00	99.6	2.98	1.6	0.4	1.7	1.2	0.7	101.9	100.5	101.2
2007	5011	206	221	8.7	7.2	0.01	0.00	99.6	2.96	2.2	1.0	2.1	1.8	1.0	102.1	100.3	100.7
2008	4171	350	287	11.5	9.4	0.02	0.00	99.1	2.95	3.3	1.9	2.9	2.6	1.8	102.6	100.2	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 2011

Saskatchewan

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1998	3664	-827	-485	-16.7	-17.1	0.01	-0.01	100.8	2.97	-3.7	-3.0	-1.6	-3.9	-1.4	101.0	102.4	100.6
1999	3708	-717	-407	-14.0	-14.4	0.01	-0.01	100.9	2.98	-3.1	-2.6	-1.5	-3.3	-1.1	101.1	102.6	100.8
2000	3786	-578	-337	-10.5	-11.4	0.02	-0.00	100.9	2.97	-2.4	-2.3	-1.0	-2.7	-0.7	101.4	102.4	100.6
2001	4008	-446	-212	-6.6	-7.5	0.02	-0.00	100.7	2.98	-1.9	-1.9	-0.5	-2.2	-0.5	101.3	102.2	100.6
2002	3869	-377	-179	-5.1	-6.0	0.02	0.00	100.4	2.99	-1.2	-1.3	-0.1	-1.6	-0.2	101.1	101.7	100.9
2003	3966	-265	-55	-3.9	-3.1	-0.01	-0.01	100.0	2.99	-0.5	-0.8	0.3	-0.9	0.1	101.5	101.8	101.4
2004	4065	-185	-36	-2.6	-2.3	-0.01	-0.01	99.7	2.99	0.3	-0.3	0.7	-0.1	0.4	101.7	101.6	101.2
2005	3936	-86	7	-1.2	-0.7	-0.01	-0.01	99.7	2.99	1.2	0.3	1.3	0.9	0.6	101.8	101.2	101.1
2006	3659	48	106	1.8	2.1	-0.01	-0.01	99.2	2.99	2.1	0.8	1.9	1.6	1.2	102.2	101.1	101.5
2007	3124	209	201	5.9	5.7	-0.01	-0.01	99.0	2.97	2.8	1.4	2.3	2.4	1.4	102.6	100.9	101.2
2008	3296	341	268	9.2	8.4	-0.00	-0.00	99.0	2.96	3.7	2.1	2.9	3.1	2.0	102.7	100.7	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 2011

Alberta

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1998	9875	-723	-248	-14.5	-11.8	-0.05	-0.03	100.2	2.97	-4.0	-3.4	-1.9	-4.0	-1.8	101.3	102.9	100.9
1999	10415	-614	-198	-11.4	-9.3	-0.04	-0.02	100.3	2.98	-3.5	-3.0	-1.7	-3.4	-1.4	101.4	102.8	100.9
2000	10374	-528	-151	-10.1	-7.4	-0.04	-0.02	100.2	2.98	-2.9	-2.8	-1.2	-2.9	-1.1	101.5	102.6	100.7
2001	11339	-405	-76	-6.2	-4.2	-0.03	-0.01	100.2	2.98	-2.4	-2.5	-0.8	-2.4	-1.0	101.5	102.4	100.9
2002	11846	-314	-16	-3.9	-1.9	-0.03	-0.01	99.6	2.99	-1.6	-1.8	-0.5	-1.8	-0.7	101.5	101.8	101.1
2003	11529	-201	61	-3.0	0.2	-0.04	-0.01	99.4	3.00	-0.8	-1.2	0.1	-0.9	-0.3	101.9	101.9	101.7
2004	12390	-111	106	-1.1	1.6	-0.04	-0.01	99.4	2.99	-0.1	-0.8	0.4	-0.1	-0.2	101.9	101.7	101.5
2005	12507	-25	138	1.0	3.1	-0.03	-0.01	99.4	2.99	0.6	-0.4	0.9	0.5	0.1	102.0	101.4	101.4
2006	12254	105	217	4.2	6.0	-0.03	-0.01	99.2	2.99	1.5	0.1	1.4	1.3	0.7	102.2	100.9	101.5
2007	11256	285	335	9.2	10.1	-0.02	-0.01	99.2	2.97	2.3	0.8	2.0	2.1	0.7	102.5	100.7	101.0
2008	9457	423	408	12.6	12.2	-0.02	-0.01	98.9	2.96	3.3	1.6	2.8	2.9	1.5	102.8	100.5	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.

Provincial genetic trends by birth year for Holstein cows
Canadian Dairy Network, August 2011

British Columbia

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1998	10663	-689	-321	-10.9	-11.3	0.01	-0.00	100.6	2.98	-3.8	-2.9	-1.8	-3.9	-1.6	100.8	102.3	100.7
1999	10683	-595	-253	-9.2	-8.9	0.00	-0.00	100.7	2.99	-3.3	-2.5	-1.6	-3.4	-1.1	101.1	102.3	101.3
2000	10394	-493	-179	-7.3	-6.8	-0.00	-0.01	100.7	2.98	-2.6	-2.1	-1.2	-2.8	-0.7	101.3	102.2	101.0
2001	11592	-407	-122	-4.5	-4.4	0.01	-0.00	100.6	2.99	-2.2	-1.7	-0.8	-2.4	-0.6	101.0	101.8	101.3
2002	11343	-321	-51	-2.7	-2.3	-0.00	-0.00	100.1	2.99	-1.3	-1.1	-0.3	-1.8	-0.0	101.0	101.2	101.4
2003	11330	-207	47	-2.2	-0.2	-0.03	-0.01	99.9	3.00	-0.4	-0.5	0.3	-0.7	0.2	101.5	101.3	101.9
2004	10950	-120	112	-1.0	2.0	-0.04	-0.01	99.9	3.01	0.3	-0.3	0.5	0.1	0.3	101.4	101.1	101.5
2005	11076	-37	126	-0.5	2.3	-0.04	-0.01	99.6	3.00	1.3	0.3	1.2	1.1	0.7	101.9	100.8	101.6
2006	10963	137	197	5.4	5.5	-0.01	-0.01	99.4	2.99	2.2	0.9	1.7	1.8	1.4	102.3	100.6	101.6
2007	10180	290	308	9.3	9.2	-0.01	-0.01	99.2	2.96	2.8	1.4	2.2	2.4	1.4	102.6	100.4	101.3
2008	9451	422	392	11.4	11.8	-0.02	-0.01	99.0	2.96	3.8	2.1	2.9	3.3	2.0	102.8	100.3	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 2011

Newfoundland

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1998	5	-683	-491	-5.4	-18.4	0.12	-0.02	97.4	3.02	-1.0	-0.6	0.2	-2.4	-1.6	100.0	100.5	99.0
1999	6	-896	-981	-19.3	-31.0	0.16	0.01	99.2	2.86	-2.8	-3.2	-0.8	-3.2	0.7	104.2	103.7	101.3
2000	6	-761	-596	-19.0	-22.5	0.03	-0.03	102.7	2.91	-1.0	-1.3	0.3	-1.7	-0.7	101.5	102.4	99.5
2001	17	-542	-175	-10.2	-6.0	-0.03	-0.00	97.9	2.96	-2.5	-2.1	-0.6	-2.9	-1.1	101.1	100.4	99.3
2002	21	-607	-412	-13.1	-15.1	0.02	-0.01	98.9	3.02	-0.5	-1.0	0.4	-1.3	0.9	100.9	101.5	100.3
2003	48	-339	-129	-4.9	-4.9	0.00	-0.00	96.6	3.03	-0.3	-0.3	0.3	-0.8	0.5	101.4	100.6	101.4
2004	41	-505	-358	-9.8	-8.6	0.04	0.03	98.9	2.97	-1.6	-1.0	-1.2	-1.9	0.2	101.2	101.8	100.5
2005	102	-203	-2	-7.1	0.0	-0.06	0.00	98.6	3.02	0.6	-0.6	0.6	0.6	-0.3	101.5	100.5	100.7
2006	98	-30	90	1.5	1.6	-0.01	-0.01	98.2	2.97	0.7	-0.4	0.9	0.6	-0.2	102.6	101.3	101.3
2007	90	118	192	6.7	5.6	0.01	-0.00	99.1	2.98	1.2	0.2	1.6	1.1	0.1	102.3	100.9	100.5
2008	81	145	152	5.2	3.5	0.00	-0.01	98.6	2.94	1.9	0.4	2.0	1.4	1.3	103.2	101.8	101.0

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.