

**Provincial genetic trends by birth year for Holstein cows**  
**Canadian Dairy Network, August 2010**

**Prince Edward Island**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1997	1614	-672	-501	-13.4	-15.6	0.05	0.01	100.2	2.95	-2.2	-1.8	-0.4	-2.9	0.3	101.9	102.0	100.7
1998	1791	-604	-384	-12.2	-13.1	0.02	-0.00	100.6	2.97	-1.7	-1.3	-0.7	-2.3	0.3	101.7	101.9	100.9
1999	1801	-479	-331	-8.8	-9.8	0.04	0.01	100.0	2.99	-1.1	-0.8	-0.5	-1.7	0.5	101.8	101.7	101.1
2000	1926	-361	-255	-4.5	-8.3	0.05	0.00	100.2	2.97	-0.2	-0.2	0.2	-0.9	1.0	101.7	101.2	100.7
2001	2151	-323	-207	-4.5	-7.1	0.03	-0.00	100.2	2.98	0.0	-0.2	0.5	-0.6	0.9	101.8	101.2	100.9
2002	2246	-232	-146	-3.1	-4.7	0.03	0.00	100.1	2.98	1.0	0.8	1.0	0.0	1.7	101.6	100.6	100.6
2003	2161	-141	-35	-3.2	-2.9	-0.01	-0.01	99.3	3.01	1.9	1.5	1.5	1.0	2.1	101.8	100.8	101.5
2004	2334	-20	71	-0.1	0.8	-0.02	-0.01	99.5	3.01	2.5	2.0	1.8	1.7	2.0	101.5	100.4	100.7
2005	2168	97	75	2.3	2.0	0.00	-0.00	99.4	3.00	3.5	2.5	2.4	2.6	2.4	102.0	100.2	100.5
2006	2113	273	150	6.4	4.4	0.01	-0.00	99.3	2.98	4.4	3.0	3.2	3.5	2.9	102.9	100.3	101.4
2007	1869	469	267	11.6	9.0	0.02	0.00	99.1	2.95	5.3	3.8	3.5	4.4	3.2	103.2	100.1	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.

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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
1997	2636	-623	-399	-12.5	-12.8	0.02	0.00	99.0	2.97	-2.3	-2.0	-0.9	-2.7	0.2	102.0	102.2	100.6
1998	2807	-552	-367	-10.0	-10.7	0.04	0.01	99.4	2.99	-2.1	-1.7	-0.6	-2.6	-0.3	101.7	101.9	100.9
1999	2851	-473	-252	-7.8	-8.4	0.02	0.00	99.8	2.98	-1.7	-1.3	-0.5	-2.2	-0.1	101.8	101.7	101.4
2000	2750	-392	-234	-5.9	-6.8	0.03	0.01	99.3	2.98	-1.2	-1.1	-0.3	-1.7	0.3	101.9	101.7	101.0
2001	3302	-272	-145	-2.3	-4.0	0.03	0.01	99.2	2.99	-0.5	-0.7	0.3	-1.0	0.5	102.0	101.2	101.4
2002	3316	-209	-76	-1.8	-2.2	0.01	0.00	99.0	3.00	0.4	0.2	0.8	-0.4	1.1	101.7	100.7	101.3
2003	3334	-77	21	-1.6	0.3	-0.02	-0.00	98.7	3.02	1.6	1.1	1.6	0.7	1.4	102.0	100.8	101.9
2004	3271	5	83	2.1	2.7	-0.00	0.00	99.2	3.00	1.8	1.3	1.4	1.2	1.2	101.6	100.4	101.0
2005	3089	153	153	5.0	5.5	0.00	0.01	98.9	2.99	2.7	1.8	2.0	2.1	1.7	102.3	100.2	101.1
2006	2643	372	234	11.6	9.1	0.04	0.01	99.0	2.96	3.6	2.3	2.7	2.9	2.3	103.1	100.4	101.8
2007	2317	521	401	15.0	13.3	0.01	0.00	99.1	2.97	4.4	2.8	3.3	3.7	2.4	102.9	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.

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**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1997	2352	-648	-426	-13.4	-14.0	0.02	0.00	99.7	2.96	-2.5	-2.1	-1.0	-2.9	0.1	102.2	102.5	101.1
1998	2363	-545	-301	-9.4	-10.1	0.02	0.00	99.8	2.98	-2.2	-1.7	-0.9	-2.7	-0.2	101.7	102.2	101.1
1999	2380	-475	-240	-7.5	-8.3	0.01	-0.00	100.0	2.98	-1.7	-1.3	-0.8	-2.2	0.2	101.9	101.8	101.2
2000	2314	-366	-184	-4.8	-6.5	0.02	-0.00	99.9	2.98	-0.9	-0.9	-0.4	-1.4	0.6	101.9	101.7	101.1
2001	2668	-292	-127	-2.3	-5.1	0.03	-0.01	100.1	2.99	-0.5	-0.7	0.1	-1.0	0.6	101.8	101.5	101.3
2002	2620	-216	-59	-1.9	-2.2	0.01	-0.00	99.6	2.99	0.3	0.2	0.6	-0.6	1.2	101.6	100.9	101.3
2003	2532	-97	48	-1.5	0.2	-0.03	-0.01	99.0	3.01	1.3	0.9	1.2	0.6	1.6	102.0	100.9	102.1
2004	2515	35	211	2.5	4.2	-0.04	-0.02	99.2	3.01	1.9	1.3	1.6	1.4	1.2	101.6	100.3	101.6
2005	2394	158	228	4.7	5.3	-0.03	-0.02	99.0	2.99	2.9	1.9	2.2	2.3	1.6	102.3	100.3	101.5
2006	2268	330	272	9.7	8.0	0.00	-0.01	99.1	2.96	3.8	2.6	2.8	3.0	2.3	103.0	100.0	102.0
2007	1908	533	416	15.7	13.1	0.01	-0.00	99.0	2.95	4.4	3.0	3.2	3.7	2.2	103.1	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.

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**Canadian Dairy Network, August 2010**

**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1997	55858	-692	-514	-14.2	-15.3	0.05	0.02	99.6	2.97	-3.0	-2.5	-0.8	-3.6	-0.3	102.2	102.9	101.0
1998	58056	-581	-419	-10.2	-11.9	0.05	0.02	99.8	2.99	-2.5	-2.0	-0.5	-3.1	-0.4	101.8	102.4	101.0
1999	58854	-499	-327	-8.6	-9.3	0.04	0.02	99.9	2.99	-1.9	-1.4	-0.5	-2.5	0.0	101.8	102.1	101.4
2000	60250	-409	-249	-6.4	-7.2	0.03	0.01	99.7	3.00	-1.3	-1.0	-0.2	-1.9	0.4	101.7	102.1	101.0
2001	66571	-304	-204	-3.5	-5.3	0.04	0.01	99.7	3.00	-0.6	-0.5	0.3	-1.3	0.8	101.8	101.7	101.4
2002	68381	-205	-117	-2.4	-2.6	0.02	0.01	99.7	3.00	0.3	0.1	0.9	-0.6	1.2	101.8	101.3	101.6
2003	68117	-66	46	-0.7	1.1	-0.02	-0.00	99.0	3.03	1.2	0.7	1.3	0.4	1.4	102.0	101.3	102.2
2004	68273	48	117	3.9	3.8	0.00	0.00	99.5	3.00	1.7	0.9	1.5	1.1	1.3	101.8	100.7	101.1
2005	64747	179	177	6.1	5.8	0.00	0.00	99.4	2.99	2.7	1.6	2.2	2.1	1.8	102.3	100.4	101.3
2006	59175	389	283	13.0	9.8	0.03	0.01	99.5	2.96	3.5	2.2	2.7	2.9	2.1	102.9	100.2	101.7
2007	51675	559	437	15.7	14.6	0.00	0.00	99.5	2.95	4.2	2.7	3.3	3.6	2.1	103.1	100.3	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.

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**Ontario**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1997	48673	-638	-540	-11.8	-15.2	0.08	0.03	99.6	2.97	-2.1	-1.6	-0.7	-2.8	0.2	101.9	102.3	100.7
1998	49347	-548	-427	-8.3	-11.7	0.08	0.02	100.0	2.97	-2.1	-1.5	-0.7	-2.6	-0.1	101.6	102.0	100.8
1999	48742	-451	-334	-5.7	-9.0	0.07	0.02	99.9	2.98	-1.4	-1.0	-0.4	-2.1	0.2	101.6	101.7	100.9
2000	48211	-335	-256	-2.7	-6.8	0.07	0.02	99.9	2.97	-0.7	-0.6	0.1	-1.4	0.6	101.8	101.5	100.6
2001	52363	-258	-183	-0.6	-4.6	0.06	0.01	99.9	2.98	-0.3	-0.3	0.5	-1.0	0.8	101.6	101.3	100.8
2002	51864	-182	-116	0.3	-2.4	0.05	0.02	99.6	2.99	0.4	0.3	0.9	-0.5	1.2	101.7	100.8	101.3
2003	50097	-71	-8	1.4	-0.1	0.02	0.00	99.0	3.00	1.3	1.0	1.3	0.5	1.6	101.9	100.8	101.6
2004	52231	30	79	4.0	2.6	0.02	0.00	99.4	2.99	1.8	1.3	1.6	1.2	1.4	101.8	100.5	101.1
2005	50662	161	147	6.5	4.8	0.02	0.00	99.1	2.99	2.8	1.8	2.2	2.2	1.6	102.1	100.2	101.1
2006	47893	348	231	12.0	8.3	0.04	0.01	99.2	2.96	3.6	2.4	2.7	2.9	2.3	102.8	100.0	101.5
2007	42742	477	344	15.0	11.5	0.03	0.00	99.2	2.95	4.1	2.7	3.2	3.4	2.2	103.0	100.1	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.
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**Manitoba**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1997	4901	-739	-518	-13.4	-15.9	0.06	0.01	100.0	2.96	-3.1	-2.4	-1.2	-3.5	-0.9	101.4	102.2	101.0
1998	4986	-671	-403	-12.0	-13.1	0.03	0.00	100.2	2.97	-3.0	-2.5	-1.1	-3.1	-1.0	101.3	101.9	100.8
1999	4894	-541	-313	-8.7	-9.9	0.03	0.01	100.4	2.98	-2.3	-2.1	-0.9	-2.4	-0.7	101.5	101.8	100.9
2000	4915	-428	-227	-7.0	-6.7	0.02	0.01	100.3	2.97	-1.8	-2.0	-0.6	-1.9	-0.4	101.7	101.8	100.6
2001	5192	-339	-142	-4.5	-3.9	0.01	0.01	100.5	2.98	-1.4	-1.6	-0.1	-1.6	-0.5	101.5	101.4	100.8
2002	5385	-312	-126	-4.3	-3.7	0.01	0.01	100.1	2.99	-0.6	-1.0	0.2	-1.0	0.0	101.3	100.9	100.9
2003	5541	-197	-62	-3.0	-1.7	-0.00	0.01	99.7	2.99	0.2	-0.5	0.8	-0.1	0.3	101.7	100.9	101.4
2004	5257	-69	62	0.0	1.6	-0.02	-0.00	99.7	2.99	0.9	-0.0	1.1	0.7	0.5	101.8	100.6	101.3
2005	5241	24	103	1.9	3.1	-0.01	-0.00	99.7	2.99	1.7	0.5	1.6	1.4	0.7	101.9	100.4	101.1
2006	5158	204	223	7.1	6.9	-0.00	-0.00	99.5	2.98	2.6	1.2	2.3	2.2	1.2	102.3	100.1	101.4
2007	4368	357	330	11.6	10.3	0.00	-0.00	99.7	2.96	3.2	1.7	2.7	2.8	1.4	102.6	100.0	100.9

Notes:

1. Based on all cows with both production and type indexes.
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**Saskatchewan**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1997	3508	-819	-580	-16.6	-19.4	0.05	-0.00	100.7	2.96	-2.9	-2.4	-1.2	-3.3	-0.8	101.6	102.4	101.4
1998	3659	-729	-415	-14.8	-15.1	0.01	-0.01	100.7	2.97	-2.9	-2.5	-1.2	-3.1	-0.9	101.3	102.2	100.8
1999	3701	-615	-337	-12.1	-12.5	0.01	-0.01	100.8	2.98	-2.3	-2.1	-1.0	-2.5	-0.7	101.5	102.3	101.0
2000	3769	-471	-263	-8.5	-9.4	0.02	-0.00	100.8	2.97	-1.6	-1.8	-0.4	-1.9	-0.2	101.8	102.1	100.7
2001	3980	-336	-138	-4.5	-5.4	0.01	-0.01	100.6	2.98	-1.1	-1.4	0.0	-1.4	-0.1	101.7	102.0	100.8
2002	3835	-261	-102	-2.9	-3.8	0.01	-0.00	100.2	2.99	-0.3	-0.7	0.4	-0.7	0.2	101.6	101.4	101.0
2003	3938	-148	26	-1.9	-0.8	-0.02	-0.01	99.9	2.99	0.4	-0.2	0.8	-0.0	0.6	101.9	101.4	101.5
2004	4009	-62	46	-0.3	0.0	-0.01	-0.01	99.7	2.99	1.3	0.4	1.2	0.9	0.9	102.1	101.2	101.3
2005	3829	39	79	1.0	1.4	-0.01	-0.01	99.5	2.99	2.2	1.0	1.8	1.9	1.1	102.3	100.9	101.3
2006	3497	185	191	4.4	4.7	-0.02	-0.01	99.1	2.99	3.1	1.6	2.4	2.6	1.7	102.6	100.7	101.7
2007	2600	377	324	9.5	9.2	-0.02	-0.01	99.1	2.97	3.8	2.1	2.9	3.4	1.8	103.1	100.7	101.5

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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**Alberta**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1997	9806	-738	-354	-15.3	-14.2	-0.02	-0.02	100.0	2.97	-3.5	-3.0	-1.4	-3.6	-1.4	101.8	102.8	101.5
1998	9844	-629	-178	-12.8	-9.9	-0.06	-0.04	100.1	2.97	-3.3	-3.0	-1.4	-3.3	-1.4	101.6	102.6	101.0
1999	10377	-516	-128	-9.7	-7.4	-0.04	-0.03	100.2	2.98	-2.7	-2.6	-1.2	-2.7	-1.1	101.8	102.5	101.1
2000	10338	-426	-79	-8.3	-5.4	-0.05	-0.02	100.1	2.98	-2.1	-2.4	-0.7	-2.1	-0.8	101.9	102.3	100.9
2001	11284	-297	0	-4.3	-2.1	-0.04	-0.02	100.1	2.98	-1.6	-2.0	-0.3	-1.6	-0.6	101.9	102.1	101.1
2002	11770	-202	62	-2.0	0.2	-0.03	-0.01	99.5	2.99	-0.8	-1.3	0.0	-0.9	-0.3	101.8	101.5	101.2
2003	11419	-82	145	-0.9	2.5	-0.05	-0.02	99.3	3.00	0.1	-0.7	0.7	-0.1	0.1	102.3	101.6	101.9
2004	12206	14	193	1.2	4.1	-0.05	-0.02	99.4	2.99	0.9	-0.2	1.0	0.8	0.2	102.4	101.4	101.7
2005	12267	104	219	3.3	5.6	-0.04	-0.01	99.3	2.99	1.6	0.3	1.4	1.5	0.5	102.4	101.1	101.6
2006	11847	243	302	6.8	8.6	-0.03	-0.01	99.2	2.99	2.5	0.9	2.0	2.3	1.1	102.6	100.6	101.6
2007	10278	429	435	11.8	13.0	-0.03	-0.01	99.3	2.97	3.3	1.5	2.6	3.1	1.1	102.9	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.
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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
1997	10154	-679	-319	-12.9	-12.2	-0.01	-0.01	100.4	2.97	-3.5	-3.1	-1.2	-3.5	-1.3	101.7	102.5	101.5
1998	10654	-587	-252	-9.2	-9.4	0.00	-0.01	100.5	2.98	-3.0	-2.6	-1.2	-3.0	-1.2	101.2	102.1	100.9
1999	10672	-488	-181	-7.4	-6.9	-0.00	-0.01	100.6	2.99	-2.5	-2.1	-1.0	-2.6	-0.7	101.5	102.0	101.5
2000	10357	-385	-105	-5.5	-4.8	-0.01	-0.01	100.5	2.98	-1.8	-1.7	-0.7	-1.9	-0.3	101.7	101.9	101.2
2001	11546	-293	-45	-2.5	-2.2	-0.00	-0.00	100.5	2.99	-1.3	-1.2	-0.2	-1.5	-0.2	101.5	101.5	101.5
2002	11279	-204	28	-0.7	-0.0	-0.01	-0.01	100.0	2.99	-0.5	-0.6	0.3	-0.9	0.4	101.4	100.9	101.6
2003	11197	-82	134	-0.0	2.2	-0.04	-0.02	99.7	3.00	0.6	-0.0	0.9	0.2	0.7	101.9	101.0	102.1
2004	10769	10	200	1.3	4.5	-0.05	-0.02	99.8	3.00	1.2	0.3	1.1	1.0	0.7	101.8	100.7	101.7
2005	10840	104	219	2.2	5.1	-0.05	-0.02	99.5	3.00	2.3	1.0	1.8	2.1	1.1	102.3	100.5	101.8
2006	10592	279	287	8.0	8.1	-0.02	-0.01	99.4	2.98	3.2	1.7	2.3	2.8	1.8	102.7	100.3	101.8
2007	7845	454	416	12.1	12.2	-0.02	-0.01	99.2	2.96	3.9	2.2	2.9	3.5	1.9	103.1	100.3	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 2010**

**Newfoundland**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1997	2	-743	117	-28.5	-1.0	-0.29	-0.03	97.5	3.12	-4.0	-3.0	-3.5	-3.5	-4.0	100.0	103.5	100.0
1998	5	-600	-426	-6.2	-17.0	0.09	-0.03	97.2	3.00	-0.2	0.4	0.2	-1.2	-1.0	100.6	100.3	99.0
1999	6	-857	-929	-18.5	-30.0	0.15	0.01	99.0	2.86	-2.3	-2.7	-0.7	-3.0	1.2	104.5	103.5	101.5
2000	4	-430	-285	-10.5	-13.8	0.01	-0.04	101.5	2.95	1.5	0.0	0.5	0.5	1.5	102.0	101.8	100.0
2001	16	-417	-106	-8.9	-3.8	-0.04	0.00	97.9	2.97	-1.6	-1.6	0.0	-1.9	-0.6	101.7	100.3	99.9
2002	16	-502	-336	-9.6	-12.8	0.03	-0.01	98.5	3.02	-0.1	-0.7	0.6	-0.9	0.9	101.4	101.4	100.4
2003	44	-259	-99	-4.5	-3.5	-0.01	-0.00	96.1	3.04	0.4	0.2	0.8	-0.0	1.0	101.9	100.5	101.8
2004	24	-358	-153	-6.4	-2.9	-0.00	0.02	98.0	3.05	-0.6	-0.0	-0.5	-1.3	0.7	101.1	101.1	101.3
2005	73	-48	225	-5.2	5.2	-0.12	-0.02	98.0	3.03	1.2	-0.2	1.3	1.2	-0.2	102.1	100.3	101.2
2006	73	-3	236	-0.3	4.1	-0.08	-0.03	98.4	2.94	0.5	-0.9	1.1	0.6	-0.6	103.3	100.9	101.6
2007	52	195	204	5.9	6.4	-0.01	-0.00	99.8	2.95	1.7	0.8	2.3	1.4	0.3	103.0	101.2	100.5

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.