

**Provincial genetic trends by birth year for Holstein cows**  
**Canadian Dairy Network, August 2012**

**Prince Edward Island**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1999	1807	-726	-457	-13.6	-13.8	0.03	0.01	100.1	3.00	-3.0	-2.0	-1.8	-3.4	-0.5	100.8	102.1	100.6
2000	1940	-616	-386	-9.5	-12.5	0.05	0.00	100.4	2.98	-2.1	-1.4	-1.1	-2.7	0.1	100.8	101.6	100.2
2001	2166	-585	-342	-9.9	-11.4	0.03	0.00	100.4	2.99	-1.9	-1.4	-0.8	-2.5	-0.0	100.8	101.7	100.4
2002	2275	-500	-286	-8.5	-9.2	0.02	0.00	100.3	2.99	-1.0	-0.4	-0.3	-1.8	0.7	100.6	101.1	100.1
2003	2192	-409	-176	-8.5	-7.4	-0.02	-0.01	99.5	3.02	0.0	0.4	0.2	-0.9	1.2	100.7	101.4	101.0
2004	2371	-304	-78	-6.0	-4.0	-0.03	-0.01	99.8	3.02	0.5	0.8	0.5	-0.3	1.1	100.4	100.9	100.2
2005	2206	-194	-71	-3.6	-2.7	-0.01	-0.00	99.7	3.01	1.4	1.2	1.0	0.6	1.4	100.9	100.7	99.9
2006	2179	-36	1	0.6	-0.4	0.01	-0.00	99.5	3.00	2.2	1.6	1.8	1.5	1.9	101.6	100.7	100.7
2007	2184	146	117	6.3	4.1	0.02	0.00	99.1	2.97	2.9	2.1	2.0	2.2	2.1	101.9	100.4	100.6
2008	2151	307	231	8.7	7.7	0.01	0.00	99.1	2.96	3.9	2.7	2.9	3.0	2.7	102.4	100.2	100.7
2009	1734	430	286	12.6	9.3	0.02	0.00	99.0	2.95	4.5	3.0	3.4	3.6	3.0	102.9	100.3	100.7

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
1999	2855	-717	-374	-12.6	-12.3	0.01	0.00	99.9	2.99	-3.6	-2.4	-1.9	-4.0	-1.0	100.9	102.2	100.9
2000	2761	-642	-364	-10.9	-10.9	0.03	0.01	99.4	2.99	-3.0	-2.2	-1.6	-3.5	-0.6	101.0	102.2	100.5
2001	3315	-529	-280	-7.4	-8.3	0.03	0.01	99.4	3.00	-2.4	-1.8	-1.1	-2.8	-0.5	101.0	101.7	100.8
2002	3341	-473	-218	-7.1	-6.7	0.01	0.01	99.2	3.01	-1.5	-0.9	-0.5	-2.2	0.1	100.7	101.2	100.8
2003	3372	-355	-129	-7.1	-4.5	-0.02	-0.00	99.0	3.03	-0.4	-0.0	0.2	-1.2	0.5	100.9	101.4	101.3
2004	3327	-286	-81	-3.9	-2.5	-0.00	0.00	99.4	3.01	-0.2	0.1	0.0	-0.7	0.3	100.6	101.0	100.5
2005	3161	-134	1	-0.6	0.7	-0.00	0.01	99.1	3.00	0.6	0.5	0.6	0.1	0.7	101.2	100.9	100.6
2006	2744	68	64	5.5	3.8	0.04	0.02	99.1	2.98	1.5	0.9	1.2	0.9	1.3	102.1	101.0	101.2
2007	2812	186	205	8.4	7.2	0.01	0.01	98.9	2.98	2.1	1.3	1.7	1.7	1.3	101.9	100.6	100.5
2008	3064	342	264	11.8	9.8	0.03	0.01	99.0	2.94	3.1	2.1	2.5	2.3	2.1	102.5	100.5	100.8
2009	2455	468	345	15.3	11.9	0.03	0.01	98.5	2.94	3.9	2.6	2.9	3.2	2.4	102.9	100.4	100.7

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
1999	2387	-723	-368	-12.6	-12.5	0.01	-0.00	100.1	2.99	-3.5	-2.4	-2.1	-3.9	-0.7	100.9	102.3	100.7
2000	2320	-618	-314	-10.0	-10.7	0.02	-0.00	100.0	2.99	-2.7	-2.0	-1.6	-3.2	-0.3	101.0	102.2	100.6
2001	2692	-551	-263	-7.6	-9.5	0.02	-0.01	100.2	3.00	-2.3	-1.8	-1.2	-2.8	-0.3	100.8	102.0	100.7
2002	2644	-483	-206	-7.5	-6.9	0.00	0.00	99.7	3.00	-1.6	-0.9	-0.7	-2.4	0.3	100.7	101.4	100.8
2003	2559	-376	-102	-7.1	-4.7	-0.03	-0.01	99.2	3.02	-0.6	-0.2	-0.1	-1.3	0.7	100.9	101.5	101.5
2004	2558	-265	50	-3.8	-1.1	-0.05	-0.02	99.3	3.03	-0.1	0.1	0.3	-0.6	0.3	100.5	100.9	101.0
2005	2426	-143	72	-1.4	0.3	-0.03	-0.02	99.2	3.01	0.8	0.6	0.8	0.3	0.7	101.2	100.7	100.9
2006	2325	22	125	3.7	3.1	-0.00	-0.01	99.1	2.98	1.6	1.1	1.3	1.0	1.4	101.9	100.6	101.4
2007	2320	161	212	8.4	6.6	0.01	-0.00	98.9	2.97	2.0	1.4	1.5	1.5	1.2	101.9	100.5	100.8
2008	2325	306	307	11.0	9.4	0.00	-0.00	99.1	2.95	2.9	2.1	2.4	2.1	1.9	102.4	100.5	101.0
2009	1735	421	368	13.8	11.7	0.01	-0.00	98.7	2.95	3.4	2.2	2.6	2.7	2.3	102.8	100.6	100.9

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 2012**

**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1999	59034	-744	-454	-13.5	-13.3	0.03	0.02	100.0	3.01	-3.7	-2.5	-1.8	-4.3	-0.9	100.8	102.6	100.8
2000	60530	-658	-380	-11.5	-11.4	0.03	0.01	99.8	3.01	-3.1	-2.2	-1.5	-3.7	-0.5	100.7	102.6	100.5
2001	66987	-562	-340	-8.7	-9.7	0.04	0.02	99.9	3.01	-2.4	-1.6	-1.0	-3.1	-0.1	100.9	102.2	100.9
2002	69118	-471	-260	-7.8	-7.2	0.02	0.01	99.8	3.01	-1.6	-1.0	-0.4	-2.5	0.3	100.8	101.9	101.1
2003	69129	-342	-103	-6.3	-3.6	-0.02	-0.00	99.2	3.04	-0.8	-0.4	0.0	-1.5	0.5	100.9	101.9	101.6
2004	69506	-242	-40	-1.9	-1.1	0.00	0.00	99.6	3.02	-0.3	-0.2	0.1	-0.8	0.4	100.7	101.2	100.5
2005	66464	-120	15	0.0	0.7	-0.00	0.00	99.5	3.00	0.6	0.3	0.8	0.1	0.8	101.2	101.0	100.7
2006	61732	82	113	6.8	4.5	0.03	0.01	99.5	2.98	1.4	0.7	1.3	0.9	1.1	101.9	100.8	101.1
2007	62563	222	240	9.6	8.7	0.01	0.01	99.4	2.97	1.9	1.1	1.7	1.6	1.1	101.9	100.7	100.6
2008	63798	359	302	12.3	11.1	0.02	0.01	99.2	2.94	2.8	1.7	2.4	2.2	1.8	102.5	100.6	100.9
2009	55669	475	405	15.9	13.5	0.02	0.00	98.8	2.94	3.4	2.1	2.7	2.8	2.0	102.8	100.6	100.7

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
1999	48949	-700	-463	-10.6	-13.1	0.07	0.02	100.0	2.99	-3.3	-2.1	-1.8	-3.8	-0.8	100.6	102.2	100.3
2000	48525	-589	-388	-7.8	-11.0	0.07	0.02	100.1	2.98	-2.6	-1.8	-1.2	-3.2	-0.4	100.8	102.0	100.1
2001	52843	-518	-320	-5.8	-9.0	0.06	0.02	100.1	2.99	-2.2	-1.4	-0.8	-2.9	-0.2	100.6	101.8	100.3
2002	52547	-447	-258	-5.1	-6.9	0.05	0.02	99.8	3.00	-1.5	-0.8	-0.4	-2.3	0.2	100.7	101.3	100.7
2003	51046	-346	-155	-4.1	-4.8	0.02	0.00	99.2	3.01	-0.7	-0.1	-0.0	-1.4	0.6	100.9	101.4	101.0
2004	53610	-256	-77	-1.8	-2.3	0.02	0.00	99.6	3.01	-0.2	0.1	0.2	-0.8	0.4	100.7	101.0	100.6
2005	52671	-138	-13	0.4	-0.3	0.01	0.00	99.3	3.00	0.7	0.6	0.8	0.2	0.6	101.0	100.8	100.5
2006	50454	37	66	5.9	3.0	0.04	0.01	99.3	2.98	1.5	1.0	1.3	0.9	1.3	101.7	100.7	100.9
2007	51357	147	153	8.5	5.6	0.03	0.01	99.2	2.97	1.9	1.2	1.7	1.4	1.2	101.9	100.6	100.7
2008	51324	289	219	11.1	8.3	0.04	0.01	99.1	2.95	2.9	2.0	2.4	2.1	2.0	102.4	100.4	100.9
2009	45180	397	324	14.2	10.6	0.03	0.00	98.9	2.95	3.4	2.2	2.7	2.7	2.0	102.6	100.5	100.7

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
1999	4925	-782	-441	-13.7	-14.0	0.03	0.01	100.5	2.99	-4.0	-3.2	-2.1	-4.1	-1.6	100.6	102.3	100.4
2000	4949	-671	-357	-12.0	-10.9	0.01	0.01	100.4	2.98	-3.6	-3.1	-1.8	-3.6	-1.3	100.8	102.3	100.2
2001	5241	-593	-282	-9.8	-8.4	0.01	0.01	100.6	2.99	-3.2	-2.8	-1.4	-3.3	-1.4	100.5	101.9	100.3
2002	5468	-569	-268	-9.6	-8.2	0.01	0.01	100.3	3.00	-2.5	-2.1	-1.0	-2.8	-0.9	100.4	101.4	100.4
2003	5712	-470	-220	-8.7	-6.7	-0.00	0.01	99.9	3.00	-1.7	-1.6	-0.5	-1.9	-0.6	100.8	101.5	100.9
2004	5376	-356	-108	-6.1	-3.7	-0.02	0.00	99.8	3.00	-1.1	-1.2	-0.3	-1.2	-0.4	100.9	101.2	100.8
2005	5415	-268	-63	-4.3	-2.2	-0.01	0.00	99.9	3.00	-0.4	-0.7	0.3	-0.5	-0.2	101.0	101.1	100.7
2006	5473	-109	41	0.4	1.0	-0.00	-0.00	99.7	2.99	0.5	-0.3	0.9	0.2	0.2	101.4	100.8	100.9
2007	5248	21	127	4.5	3.9	0.00	-0.00	99.6	2.98	1.1	0.2	1.2	0.8	0.5	101.6	100.6	100.4
2008	5584	176	199	7.7	6.6	0.01	0.00	99.2	2.97	2.1	1.1	2.0	1.6	1.2	102.1	100.4	101.0
2009	4433	285	270	11.1	8.4	0.02	-0.00	99.2	2.96	2.5	1.1	2.3	2.1	1.2	102.5	100.8	101.0

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
1999	3715	-849	-461	-17.0	-16.4	0.00	-0.01	100.9	2.99	-4.0	-3.2	-2.2	-4.1	-1.6	100.6	102.8	100.5
2000	3794	-715	-393	-13.6	-13.5	0.01	-0.00	100.9	2.98	-3.4	-2.9	-1.7	-3.6	-1.1	100.9	102.6	100.2
2001	4025	-588	-273	-9.8	-9.7	0.01	-0.00	100.7	2.99	-2.9	-2.5	-1.2	-3.2	-1.0	100.7	102.5	100.3
2002	3886	-521	-241	-8.3	-8.2	0.01	-0.00	100.3	3.00	-2.2	-1.9	-0.8	-2.5	-0.7	100.6	101.9	100.6
2003	3990	-412	-121	-7.3	-5.4	-0.02	-0.01	100.0	3.00	-1.5	-1.4	-0.4	-1.8	-0.4	101.0	102.0	101.1
2004	4114	-343	-112	-6.2	-4.9	-0.01	-0.01	99.8	3.00	-0.7	-0.8	-0.1	-1.0	-0.1	101.2	101.9	100.9
2005	3982	-237	-62	-4.6	-3.1	-0.02	-0.01	99.7	3.01	0.2	-0.3	0.5	-0.1	0.1	101.3	101.6	100.8
2006	3735	-117	27	-2.0	-0.6	-0.02	-0.01	99.2	3.01	1.0	0.2	1.1	0.6	0.7	101.7	101.3	101.2
2007	3221	38	112	2.0	2.8	-0.02	-0.01	98.9	2.98	1.7	0.7	1.4	1.4	0.8	102.1	101.2	100.9
2008	3627	150	162	4.1	4.9	-0.01	-0.00	98.8	2.98	2.6	1.5	2.0	2.1	1.5	102.2	101.0	100.9
2009	3052	245	209	7.4	6.1	0.00	-0.00	98.8	2.97	3.0	1.7	2.4	2.5	1.7	102.6	101.3	100.9

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
1999	10461	-745	-249	-14.4	-11.2	-0.05	-0.03	100.3	2.99	-4.4	-3.7	-2.4	-4.3	-1.9	100.9	103.0	100.6
2000	10417	-663	-205	-13.2	-9.4	-0.05	-0.02	100.2	2.99	-3.8	-3.5	-1.9	-3.7	-1.6	101.0	102.8	100.4
2001	11407	-544	-135	-9.4	-6.3	-0.04	-0.02	100.2	3.00	-3.4	-3.1	-1.5	-3.3	-1.5	101.0	102.6	100.6
2002	11945	-454	-76	-7.2	-4.1	-0.04	-0.01	99.6	3.00	-2.6	-2.4	-1.2	-2.7	-1.1	101.0	102.1	100.8
2003	11680	-347	-2	-6.3	-2.2	-0.05	-0.02	99.4	3.01	-1.8	-1.9	-0.6	-1.9	-0.8	101.4	102.2	101.4
2004	12604	-262	35	-4.6	-0.9	-0.05	-0.02	99.4	3.00	-1.1	-1.4	-0.3	-1.0	-0.7	101.5	102.0	101.2
2005	12769	-176	73	-2.4	0.7	-0.04	-0.01	99.4	3.01	-0.4	-1.0	0.1	-0.4	-0.4	101.5	101.7	101.1
2006	12703	-50	149	0.9	3.5	-0.04	-0.01	99.3	3.00	0.4	-0.5	0.6	0.3	0.2	101.7	101.3	101.2
2007	11874	123	262	5.7	7.4	-0.03	-0.01	99.1	2.98	1.2	0.0	1.2	1.1	0.2	102.0	101.0	100.7
2008	12141	255	320	8.8	9.4	-0.02	-0.01	98.8	2.97	2.2	0.9	2.0	1.9	0.9	102.4	100.8	101.0
2009	11278	352	374	11.5	11.1	-0.01	-0.01	98.6	2.97	2.7	1.2	2.3	2.4	1.1	102.6	100.9	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.



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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
1999	10692	-730	-306	-12.3	-10.8	-0.01	-0.00	100.7	3.00	-4.2	-3.1	-2.4	-4.3	-1.5	100.6	102.5	101.0
2000	10406	-631	-234	-10.4	-8.9	-0.01	-0.01	100.6	2.99	-3.5	-2.8	-1.9	-3.7	-1.2	100.7	102.4	100.6
2001	11617	-546	-181	-7.6	-6.5	-0.00	-0.00	100.6	3.00	-3.1	-2.3	-1.5	-3.3	-1.1	100.5	102.0	100.9
2002	11394	-461	-111	-5.9	-4.5	-0.01	-0.00	100.1	3.00	-2.3	-1.7	-1.0	-2.7	-0.5	100.5	101.5	101.0
2003	11392	-353	-18	-5.5	-2.5	-0.04	-0.02	99.9	3.02	-1.4	-1.1	-0.4	-1.7	-0.2	100.9	101.6	101.6
2004	11061	-272	41	-4.6	-0.6	-0.05	-0.02	99.9	3.02	-0.7	-0.8	-0.2	-0.8	-0.2	100.9	101.4	101.2
2005	11229	-189	59	-3.8	-0.1	-0.05	-0.02	99.7	3.01	0.2	-0.3	0.4	0.1	0.2	101.4	101.1	101.3
2006	11250	-27	120	1.8	2.7	-0.02	-0.01	99.5	3.00	1.1	0.2	0.9	0.8	0.8	101.7	100.9	101.3
2007	10564	125	221	5.8	6.4	-0.02	-0.01	99.3	2.97	1.7	0.6	1.4	1.4	0.9	102.1	100.8	101.1
2008	10516	245	306	7.6	8.9	-0.03	-0.01	99.0	2.97	2.6	1.4	2.1	2.3	1.5	102.3	100.5	100.9
2009	10477	350	364	11.1	10.5	-0.02	-0.01	98.9	2.97	3.1	1.6	2.5	2.7	1.6	102.5	100.6	100.9

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 2012**

**Newfoundland**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
1999	6	-1048	-1025	-22.7	-33.2	0.15	0.01	98.8	2.88	-3.8	-3.7	-1.8	-4.2	0.2	103.8	103.8	100.8
2000	6	-737	-423	-16.2	-19.2	-0.00	-0.05	101.8	2.97	-1.5	-1.8	-0.2	-2.3	-0.8	101.0	102.5	99.2
2001	18	-680	-272	-12.6	-8.9	-0.02	0.00	97.8	2.99	-3.4	-2.6	-1.3	-3.7	-1.6	100.7	100.7	99.4
2002	24	-727	-394	-16.5	-16.5	-0.02	-0.03	98.6	3.03	-1.3	-1.3	-0.6	-1.9	0.5	100.5	101.8	99.7
2003	58	-464	-166	-8.6	-5.9	-0.02	-0.00	96.9	3.04	-1.5	-1.3	-0.7	-1.7	-0.3	101.0	101.2	101.0
2004	49	-489	-219	-10.1	-5.1	-0.01	0.02	97.7	3.02	-2.1	-1.3	-1.8	-2.2	-0.1	101.0	101.9	100.7
2005	105	-310	8	-9.7	-0.6	-0.09	-0.01	98.5	3.04	-0.3	-1.0	0.0	-0.2	-0.6	100.9	100.6	100.4
2006	100	-119	107	-0.1	1.8	-0.03	-0.01	97.7	2.99	-0.2	-0.7	0.2	-0.1	-0.6	101.9	101.2	100.6
2007	90	21	204	5.1	5.8	-0.01	-0.01	98.6	3.02	0.4	-0.5	0.8	0.3	-0.2	101.8	100.7	100.2
2008	99	143	245	5.7	6.4	-0.03	-0.01	98.3	2.97	1.2	0.1	1.3	0.9	1.2	102.8	101.8	100.7
2009	78	261	305	8.4	8.3	-0.02	-0.01	99.3	2.96	2.4	1.1	2.5	1.7	1.8	102.8	101.1	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.