

Provincial phenotypic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

Prince Edward Island

Year	Number of Cows		ME yields		
	Milk Fat	Protein	Milk	Fat	Protein
1975	431	0	6453	240.5	.
1976	462	6	6828	251.9	182.2
1977	549	75	6704	251.1	206.2
1978	774	106	6550	245.8	185.8
1979	840	203	6728	250.4	201.2
1980	838	329	6840	256.4	205.4
1981	992	617	6815	255.4	213.1
1982	1102	857	6873	252.3	217.6
1983	1195	1184	6953	255.1	223.5
1984	1189	1186	7201	266.3	231.7
1985	1248	1247	7625	276.8	248.9
1986	1313	1313	7469	277.4	245.5
1987	1289	1289	7619	282.2	250.0
1988	1292	1292	7927	295.0	261.7
1989	1479	1479	8244	305.5	271.2
1990	1433	1433	8483	313.3	271.8
1991	1581	1581	8799	327.0	279.2
1992	1496	1496	9180	338.9	289.8
1993	1582	1582	9339	344.0	296.0
1994	1607	1607	9321	345.9	298.6
1995	1721	1721	9570	348.9	304.2
1996	1446	1446	10029	366.8	317.9
1997	1495	1495	10471	387.1	331.7
1998	1805	1805	10612	393.7	335.2
1999	1733	1733	10680	399.5	339.9
2000	1757	1757	10699	399.9	336.7
2001	1968	1968	10428	388.3	324.8
2002	2094	2094	10438	391.7	324.4
2003	1971	1971	10592	392.0	327.8
2004	2229	2229	10504	388.4	327.3
2005	2078	2078	10550	394.1	329.5
2006	2068	2068	10426	388.0	323.9
2007	2119	2119	10701	401.1	333.9
2008	2137	2137	10992	411.5	340.3
2009	2164	2164	10968	415.5	337.6
2010	2259	2259	11056	425.8	340.9
2011	2120	2120	11191	436.6	346.7

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Canadian Dairy Network, August 2014

Prince Edward Island

Year	Number of Cows		ME yields		
	Fat	Protein	Milk	Fat	Protein
2012	659	659	11406	445.4	352.8

Notes:

1. Based on lactation records qualifying for genetic evaluation.
 2. Only using first lactation records for 2-yr-old animals.
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Provincial phenotypic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

Nova Scotia

Year	Number of Cows		ME yields		
	Milk Fat	Protein	Milk	Fat	Protein
1975	804	0	6988	244.1	.
1976	940	0	7122	253.6	.
1977	1042	0	7176	261.2	.
1978	1171	5	7049	256.7	207.0
1979	1366	270	7194	264.6	228.4
1980	1358	596	7277	270.2	233.7
1981	1621	1044	7282	265.8	227.4
1982	1858	1610	7232	262.1	227.5
1983	2054	2044	7459	270.0	233.5
1984	2072	2072	7707	278.1	245.1
1985	2073	2073	7809	280.0	249.1
1986	1959	1959	7852	281.1	248.7
1987	2386	2386	7933	286.1	250.4
1988	2517	2517	8377	302.0	269.8
1989	2393	2393	8821	326.8	291.3
1990	2338	2338	8949	330.3	288.2
1991	2356	2356	9264	340.2	295.5
1992	2494	2494	9465	341.4	299.4
1993	2475	2475	9495	341.5	298.3
1994	2397	2397	9693	344.2	306.1
1995	2488	2488	9905	355.0	313.6
1996	2121	2121	10451	374.3	330.8
1997	2320	2320	10945	398.1	348.4
1998	2586	2586	10746	394.6	343.6
1999	2598	2598	10750	388.5	341.2
2000	2422	2422	10677	390.0	337.3
2001	2927	2927	10737	392.4	336.2
2002	3046	3046	10736	391.4	334.9
2003	2988	2988	10639	381.6	330.7
2004	3125	3125	10446	375.0	327.4
2005	2933	2933	10470	380.8	330.8
2006	2442	2442	10707	393.6	337.2
2007	2678	2678	10939	398.9	339.9
2008	2889	2889	10996	409.2	341.8
2009	2874	2874	10889	410.7	340.0
2010	2870	2870	11198	426.6	348.6
2011	2652	2652	11228	433.8	350.8

Provincial phenotypic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

Nova Scotia

Year	Number of Cows		ME yields		
	Fat	Protein	Milk	Fat	Protein
2012	856	856	11386	444.8	359.9

Notes:

1. Based on lactation records qualifying for genetic evaluation.
 2. Only using first lactation records for 2-yr-old animals.
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Provincial phenotypic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

New Brunswick

Year	Number of Cows		ME yields		
	Milk Fat	Protein	Milk	Fat	Protein
1975	746	35	6977	247.5	185.5
1976	899	179	7022	248.0	195.4
1977	1121	276	6995	245.8	206.9
1978	1325	250	7066	251.4	214.2
1979	1546	636	7037	253.9	226.8
1980	1751	1144	7146	261.0	226.9
1981	1962	1546	7247	264.2	231.9
1982	1995	1765	7148	259.9	228.7
1983	2254	2231	7376	267.6	236.4
1984	2143	2138	7578	278.4	245.1
1985	2267	2267	7847	282.7	255.4
1986	2286	2286	7958	288.9	259.5
1987	2562	2562	8044	292.2	263.3
1988	2536	2536	8359	306.6	274.7
1989	2518	2518	8705	321.0	286.6
1990	2531	2531	8797	327.2	283.7
1991	2614	2614	8998	333.3	287.1
1992	2700	2700	9227	340.0	292.2
1993	2720	2720	9351	348.4	298.0
1994	2504	2504	9490	345.1	301.6
1995	2657	2657	9713	353.1	306.8
1996	2307	2307	10251	373.8	322.9
1997	2443	2443	10826	392.4	342.3
1998	2480	2480	11031	403.5	350.5
1999	2459	2459	11133	404.6	353.4
2000	2413	2413	10998	396.7	345.2
2001	2718	2718	10753	385.9	333.7
2002	2689	2689	10690	384.9	331.9
2003	2490	2490	10633	382.6	329.1
2004	2516	2516	10695	382.7	333.4
2005	2433	2433	10920	394.1	341.6
2006	2330	2330	10838	395.6	339.0
2007	2362	2362	10961	400.5	342.1
2008	2625	2625	11150	411.5	345.8
2009	2564	2564	11086	414.5	343.5
2010	2516	2516	11200	425.3	347.9
2011	2462	2462	11125	431.8	344.1

Provincial phenotypic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

New Brunswick

Year	Number of Cows		ME yields		
	Milk Fat	Protein	Milk	Fat	Protein
2012	789	789	10931	441.6	339.3

Notes:

1. Based on lactation records qualifying for genetic evaluation.
 2. Only using first lactation records for 2-yr-old animals.
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Provincial phenotypic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

Quebec

Year	Number of Cows		ME yields		
	Milk Fat	Protein	Milk	Fat	Protein
1975	10834	5171	6591	238.6	195.3
1976	12507	6493	6802	246.3	202.4
1977	15599	8357	6799	249.0	209.0
1978	19174	8321	6729	246.2	204.5
1979	23285	13152	6826	247.5	209.2
1980	26293	19319	7055	255.1	216.4
1981	29802	24766	7247	262.4	224.9
1982	33063	29078	7368	265.4	229.5
1983	35779	34806	7606	274.6	241.8
1984	38819	38733	7821	286.2	250.5
1985	41046	40980	8015	295.4	259.4
1986	42650	42633	8156	302.9	264.2
1987	43696	43696	8124	300.8	263.1
1988	45988	45988	8146	301.8	263.4
1989	43402	43402	8415	315.0	272.3
1990	44144	44144	8426	318.0	270.4
1991	46864	46864	8515	320.4	271.2
1992	47137	47137	8672	325.0	274.6
1993	47311	47311	8904	337.4	284.4
1994	49849	49849	8975	339.3	288.2
1995	50638	50638	9360	349.6	297.6
1996	46511	46511	9882	367.4	314.0
1997	50855	50855	10288	382.4	329.5
1998	53659	53659	10410	392.3	335.1
1999	54435	54435	10546	394.2	336.7
2000	55426	55426	10640	396.3	337.5
2001	61048	61048	10544	394.4	335.3
2002	62427	62427	10477	394.7	333.6
2003	62674	62674	10631	396.0	336.4
2004	62983	62983	10698	402.3	339.2
2005	60663	60663	10815	410.1	343.5
2006	57751	57751	10732	413.2	339.4
2007	59789	59789	10962	418.1	346.2
2008	61783	61783	11123	426.0	351.3
2009	64445	64445	11123	427.9	350.8
2010	62979	62979	11310	438.4	357.4
2011	61754	61754	11380	446.9	361.0

Provincial phenotypic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

Quebec

Year	Number of Cows		ME yields		
	Fat	Protein	Milk	Fat	Protein
2012	20732	20732	11375	457.7	360.8

Notes:

1. Based on lactation records qualifying for genetic evaluation.
 2. Only using first lactation records for 2-yr-old animals.
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Canadian Dairy Network, August 2014

Ontario

Year	Number of Cows		ME yields		
	Milk Fat	Protein	Milk	Fat	Protein
1975	20242	2	6899	259.8	276.5
1976	22535	218	7024	265.5	219.9
1977	27691	3336	6982	264.6	223.8
1978	33147	5190	6950	263.1	218.8
1979	39647	16612	6932	263.0	219.8
1980	43186	26336	7055	267.7	221.9
1981	46602	31265	7218	275.0	227.9
1982	47882	36786	7358	279.5	233.6
1983	52658	51219	7579	285.4	244.0
1984	55140	55139	7630	289.1	245.9
1985	55658	55658	7818	297.5	254.2
1986	55355	55355	8057	306.4	261.9
1987	56049	56049	8104	307.1	263.2
1988	56639	56639	8309	315.4	272.6
1989	53825	53825	8709	333.0	284.6
1990	51498	51498	8950	342.5	290.5
1991	55923	55923	9233	344.9	297.2
1992	57253	57253	9517	354.3	303.6
1993	54957	54957	9755	364.5	312.3
1994	55224	55224	9770	357.1	311.9
1995	56331	56331	10073	365.1	319.9
1996	49737	49737	10495	378.5	331.6
1997	48550	48550	10808	389.2	339.5
1998	48524	48524	10800	393.6	340.0
1999	48392	48392	10965	396.0	345.1
2000	47500	47500	11004	400.5	345.1
2001	51567	51567	10868	396.9	338.6
2002	50990	50990	10850	397.1	338.4
2003	48069	48069	11066	403.4	344.0
2004	50571	50571	11094	407.0	345.8
2005	50380	50380	11138	410.6	347.6
2006	48445	48445	11083	414.7	346.3
2007	50819	50819	11263	416.5	349.9
2008	53004	53004	11336	423.3	353.1
2009	54970	54970	11469	427.5	356.4
2010	55187	55187	11648	440.3	362.1
2011	53527	53527	11620	447.8	361.0

Provincial phenotypic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

Ontario

Year	Number of Cows		ME yields		
	Fat	Protein	Milk	Fat	Protein
2012	19990	19990	11752	458.6	367.8

Notes:

1. Based on lactation records qualifying for genetic evaluation.
 2. Only using first lactation records for 2-yr-old animals.
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Canadian Dairy Network, August 2014

Manitoba

Year	Number of Cows		ME yields		
	Milk Fat	Protein	Milk	Fat	Protein
1975	1021	0	6886	250.2	.
1976	1049	0	7082	258.3	.
1977	1150	1	7069	260.0	148.0
1978	1255	11	7021	260.2	238.5
1979	1490	79	7110	262.3	234.9
1980	1583	130	7212	264.8	231.2
1981	1625	312	7373	272.6	239.8
1982	1703	913	7596	272.5	243.4
1983	1698	1674	7778	275.6	249.8
1984	1921	1920	8042	288.9	260.0
1985	1862	1861	8134	292.5	265.6
1986	2576	2575	8265	300.2	274.1
1987	3901	3901	8331	303.9	273.6
1988	4390	4390	8544	312.0	280.8
1989	4389	4389	8814	325.6	292.6
1990	4563	4563	9046	334.1	297.9
1991	4980	4980	9431	344.8	307.2
1992	4815	4815	9606	347.0	310.8
1993	4491	4491	9844	361.1	318.7
1994	4455	4455	9900	357.5	320.4
1995	4925	4925	10072	361.7	325.9
1996	4793	4793	10400	371.6	336.4
1997	4855	4855	10819	386.0	349.0
1998	4709	4709	10981	386.9	351.3
1999	4812	4812	10942	391.0	348.1
2000	4793	4793	10942	388.9	347.5
2001	4868	4868	10921	388.3	346.4
2002	5076	5076	10768	389.7	339.8
2003	5273	5273	10519	376.3	333.2
2004	4870	4870	10752	392.2	337.9
2005	4944	4944	10854	399.0	340.6
2006	5071	5071	11134	410.7	348.1
2007	5033	5033	11164	408.8	346.5
2008	5644	5644	11116	407.3	346.0
2009	5428	5428	11228	415.7	351.0
2010	5410	5410	11482	427.2	357.2
2011	5531	5531	11682	442.0	360.7

Provincial phenotypic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

Manitoba

Year	Number of Cows		ME yields		
	Fat	Protein	Milk	Fat	Protein
2012	2277	2277	11512	438.2	357.9

Notes:

1. Based on lactation records qualifying for genetic evaluation.
 2. Only using first lactation records for 2-yr-old animals.
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Canadian Dairy Network, August 2014

Saskatchewan

Year	Number of Cows		ME yields		
	Milk Fat	Protein	Milk	Fat	Protein
1975	542	0	7164	257.0	.
1976	603	0	7262	260.1	.
1977	637	0	7113	255.9	.
1978	711	7	7419	265.2	232.1
1979	1032	177	7391	262.7	218.3
1980	1562	714	7236	255.4	226.9
1981	1864	1336	7337	260.7	235.7
1982	1905	1767	7557	269.9	244.9
1983	2277	2228	7700	276.9	250.9
1984	2537	2513	7903	283.9	257.5
1985	2556	2555	8272	297.5	271.4
1986	2964	2964	8417	303.1	278.6
1987	3207	3207	8597	310.0	282.7
1988	3319	3319	8676	315.3	287.8
1989	3473	3473	8680	314.2	286.8
1990	3542	3542	8891	322.3	293.9
1991	3715	3715	9135	329.3	297.9
1992	3635	3635	9467	333.9	303.1
1993	3152	3152	9839	347.7	318.6
1994	3347	3347	9989	351.9	324.3
1995	3669	3669	10265	360.2	332.7
1996	3352	3352	10446	370.3	337.0
1997	3326	3326	10795	384.9	344.9
1998	3468	3468	10978	386.0	351.3
1999	3534	3534	11296	392.1	360.9
2000	3734	3734	11415	401.6	364.0
2001	3979	3979	11326	403.8	360.4
2002	3940	3940	11285	406.7	357.4
2003	3889	3889	11136	398.1	350.1
2004	3986	3986	11332	405.2	356.3
2005	4095	4095	11206	400.1	352.0
2006	4020	4020	11391	405.3	356.1
2007	3540	3540	11710	418.8	364.4
2008	4043	4043	11594	423.6	362.7
2009	3909	3909	11489	430.8	361.3
2010	3818	3818	11532	434.4	363.6
2011	3731	3731	11824	450.9	374.9

Provincial phenotypic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

Saskatchewan

Year	Number of Cows		ME yields		
	Fat	Protein	Milk	Fat	Protein
2012	1404	1404	12082	468.0	381.3

Notes:

1. Based on lactation records qualifying for genetic evaluation.
 2. Only using first lactation records for 2-yr-old animals.
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Canadian Dairy Network, August 2014

Alberta

Year	Number of Cows		ME yields		
	Milk Fat	Protein	Milk	Fat	Protein
1975	1378	0	7424	272.0	.
1976	1461	0	7338	272.7	.
1977	1648	0	7315	275.1	.
1978	1904	1	7419	274.2	235.0
1979	2459	253	7487	272.4	239.7
1980	3003	686	7636	277.0	249.2
1981	3934	1528	7733	278.7	248.6
1982	5111	1976	7931	285.5	256.9
1983	7863	2677	8219	295.4	265.5
1984	9259	7734	8320	300.4	274.4
1985	9934	9647	8536	306.0	279.1
1986	11529	11529	8664	309.5	283.1
1987	12312	12312	8737	313.5	284.6
1988	12258	12258	9008	321.4	293.9
1989	11724	11724	9363	333.6	304.0
1990	11682	11682	9649	343.2	311.7
1991	12072	12072	9842	349.3	314.3
1992	12050	12050	10253	359.9	323.2
1993	11623	11623	10465	369.8	334.1
1994	11531	11531	10596	370.1	337.3
1995	11822	11822	10794	372.5	339.7
1996	11307	11307	10929	378.4	345.0
1997	11271	11271	11359	394.7	355.3
1998	11039	11039	11667	401.5	363.7
1999	11492	11492	11803	405.2	370.2
2000	10854	10854	11850	407.4	371.2
2001	12133	12133	11729	408.1	365.5
2002	12831	12831	11578	409.0	360.4
2003	12195	12195	11543	410.2	357.3
2004	12693	12693	11676	416.4	362.1
2005	13450	13450	11667	418.1	363.0
2006	13495	13495	11782	425.0	367.3
2007	13190	13190	11983	435.7	373.0
2008	14253	14253	11937	443.7	371.6
2009	14996	14996	11831	443.1	369.8
2010	14618	14618	11806	444.8	369.5
2011	13885	13885	12006	460.0	375.2

Provincial phenotypic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

Alberta

Year	Number of Cows		ME yields		
	Fat	Protein	Milk	Fat	Protein
2012	5637	5637	12209	472.0	378.6

Notes:

1. Based on lactation records qualifying for genetic evaluation.
 2. Only using first lactation records for 2-yr-old animals.
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Canadian Dairy Network, August 2014

British Columbia

Year	Number of Cows		ME yields		
	Milk Fat	Protein	Milk	Fat	Protein
1975	5852	3237	7410	272.8	226.2
1976	5951	3374	7619	279.7	236.5
1977	6816	4092	7677	280.3	241.8
1978	7560	2874	7626	277.0	234.8
1979	9238	3096	7771	276.5	246.6
1980	10034	7659	7967	284.0	250.4
1981	10493	8416	8119	293.1	254.3
1982	11307	10711	8260	298.6	262.1
1983	11617	11610	8595	309.2	273.8
1984	11560	11556	8771	314.6	281.1
1985	11737	11718	8990	321.1	286.8
1986	12240	12210	9139	333.1	292.4
1987	11474	11471	9298	334.3	298.1
1988	12045	12045	9300	336.3	299.6
1989	12129	12129	9564	344.2	307.3
1990	12237	12237	9769	353.5	313.3
1991	12265	12265	10089	362.3	319.8
1992	12157	12157	10367	369.6	325.0
1993	11765	11765	10483	379.4	329.8
1994	11776	11776	10348	372.7	329.0
1995	11810	11810	10649	374.1	337.1
1996	10946	10946	11057	387.1	349.5
1997	9976	9976	11435	402.0	357.6
1998	10382	10382	11502	399.4	362.1
1999	10183	10183	11653	405.0	369.4
2000	10021	10021	11795	407.6	371.2
2001	11102	11102	11863	402.6	368.8
2002	10831	10831	11872	408.8	369.1
2003	10623	10623	11692	409.3	363.8
2004	10148	10148	11835	417.7	370.6
2005	10386	10386	11802	426.0	371.3
2006	10417	10417	11746	431.5	369.7
2007	9812	9812	12019	437.6	377.1
2008	10260	10260	12089	439.1	378.0
2009	10855	10855	11852	436.6	370.7
2010	10355	10355	11859	437.0	371.7
2011	10416	10416	12035	447.4	377.2

Provincial phenotypic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

British Columbia

Year	Number of Cows		ME yields		
	Fat	Protein	Milk	Fat	Protein
2012	4309	4309	12258	462.7	380.5

Notes:

1. Based on lactation records qualifying for genetic evaluation.
 2. Only using first lactation records for 2-yr-old animals.
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Provincial phenotypic trends by birth year for Holstein cows
Canadian Dairy Network, August 2014

Newfoundland

Year	Number of Cows		ME yields		
	Milk Fat	Protein	Milk	Fat	Protein
1975	71	0	6107	226.0	.
1976	97	0	6442	242.7	.
1977	77	0	5850	225.3	.
1978	72	0	6141	231.3	.
1979	73	4	5672	212.0	178.8
1980	63	6	6240	227.4	207.2
1981	72	10	6100	225.6	200.0
1982	24	8	5960	218.2	196.4
1983	9	9	6613	240.2	216.2
1984	4	4	6850	260.8	218.0
1986	13	13	8260	285.6	269.2
1987	16	16	8798	301.5	300.4
1988	17	17	9219	318.6	314.3
1989	28	28	8917	302.1	316.3
1990	27	27	9023	330.5	308.7
1991	18	18	9666	340.9	329.2
1992	22	22	11182	371.5	364.0
1993	20	20	9908	332.5	324.7
1994	14	14	10400	335.1	343.0
1995	24	24	11044	337.8	360.8
1996	8	8	10714	347.9	328.8
2002	2	2	10586	417.0	364.0
2003	28	28	12433	423.8	389.3
2004	18	18	12191	415.0	388.1
2005	70	70	13540	443.3	430.1
2006	75	75	12225	386.1	381.7
2007	97	97	11493	397.3	359.2
2008	133	133	10933	402.1	344.9
2009	154	154	11019	408.1	346.9
2010	182	182	11244	427.2	344.5
2011	171	171	10881	432.4	341.5
2012	43	43	10982	446.3	340.9

Notes:

1. Based on lactation records qualifying for genetic evaluation.
2. Only using first lactation records for 2-yr-old animals.