

Provincial phenotypic trends by birth year for Holstein cows
Lactanet Canada, August 2019

Prince Edward Island

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	430	0	6450	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	839	202	6733	250.6	201.9
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	1804	1804	10610	393.6	335.2
1999	1733	1733	10679	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	2135	2135	10987	411.3	340.2
2009	2167	2167	10970	415.6	337.7
2010	2261	2261	11072	426.3	341.4
2011	2131	2131	11176	433.4	344.9
2012	2163	2163	11406	444.1	354.6

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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Prince Edward Island

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	2219	2219	11550	450.2	360.9
2014	2162	2162	11726	461.7	367.4
2015	2321	2321	12055	483.4	383.5
2016	2205	2205	12017	481.2	388.6
2017	837	837	12140	491.5	398.1

Notes:

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Nova Scotia

Year	Number of Cows		ME yields (kg)		
	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	2355	2355	9264	340.2	295.5
1992	2495	2495	9464	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	2418	2418	10676	390.1	337.3
2001	2923	2923	10735	392.4	336.1
2002	3041	3041	10737	391.4	334.9
2003	2974	2974	10637	381.7	330.6
2004	3111	3111	10444	374.9	327.3
2005	2896	2896	10466	380.8	330.3
2006	2414	2414	10707	393.8	337.1
2007	2650	2650	10944	399.0	339.8
2008	2864	2864	10998	409.2	341.7
2009	2856	2856	10893	411.0	340.0
2010	2844	2844	11208	426.8	348.7
2011	2685	2685	11207	430.5	349.6
2012	2586	2586	11491	445.0	363.2

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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Nova Scotia

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	2625	2625	11831	457.3	372.0
2014	2804	2804	11979	462.8	375.0
2015	2870	2870	11960	474.6	378.8
2016	2642	2642	12166	487.0	392.9
2017	1041	1041	12344	508.3	399.8

Notes:

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New Brunswick

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	746	35	6977	247.5	185.5
1976	899	179	7022	248.0	195.4
1977	1120	275	6993	245.8	206.6
1978	1324	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	2561	2561	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	2503	2503	9489	345.1	301.5
1995	2657	2657	9713	353.1	306.8
1996	2307	2307	10251	373.8	322.9
1997	2442	2442	10825	392.3	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	2489	2489	10633	382.6	329.1
2004	2516	2516	10695	382.7	333.4
2005	2430	2430	10923	394.2	341.6
2006	2329	2329	10838	395.6	339.0
2007	2362	2362	10961	400.6	342.1
2008	2626	2626	11149	411.4	345.8
2009	2574	2574	11086	414.6	343.6
2010	2523	2523	11193	425.2	347.8
2011	2563	2563	11127	430.0	343.4
2012	2560	2560	11085	431.5	344.5

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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New Brunswick

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	2571	2571	11320	443.1	353.5
2014	2523	2523	11381	450.9	356.8
2015	2494	2494	11639	461.1	366.3
2016	2428	2428	11872	472.1	379.9
2017	983	983	11836	484.3	382.2

Notes:

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Quebec

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	10824	5171	6590	238.6	195.3
1976	12491	6490	6801	246.3	202.4
1977	15590	8356	6798	249.0	209.0
1978	19162	8318	6729	246.2	204.5
1979	23279	13152	6826	247.5	209.2
1980	26294	19319	7055	255.1	216.4
1981	29803	24767	7247	262.4	224.9
1982	33066	29079	7368	265.4	229.5
1983	35780	34807	7606	274.6	241.8
1984	38818	38732	7821	286.2	250.5
1985	41043	40977	8015	295.4	259.4
1986	42647	42630	8156	302.9	264.2
1987	43695	43695	8124	300.8	263.1
1988	45986	45986	8146	301.8	263.4
1989	43401	43401	8415	315.0	272.3
1990	44140	44140	8426	318.0	270.4
1991	46857	46857	8516	320.4	271.2
1992	47133	47133	8672	325.0	274.6
1993	47302	47302	8904	337.4	284.4
1994	49843	49843	8975	339.3	288.2
1995	50630	50630	9360	349.6	297.6
1996	46500	46500	9882	367.4	314.0
1997	50843	50843	10288	382.4	329.5
1998	53656	53656	10410	392.3	335.1
1999	54433	54433	10546	394.2	336.7
2000	55431	55431	10640	396.3	337.5
2001	61063	61063	10544	394.4	335.3
2002	62429	62429	10477	394.7	333.6
2003	62672	62672	10631	396.0	336.4
2004	62979	62979	10697	402.3	339.2
2005	60659	60659	10814	410.1	343.5
2006	57741	57741	10731	413.2	339.4
2007	59793	59793	10962	418.1	346.2
2008	61823	61823	11123	426.0	351.3
2009	64571	64571	11123	427.8	350.8
2010	63217	63217	11309	438.3	357.4
2011	62831	62831	11359	444.6	359.7
2012	62857	62857	11355	450.0	362.1

Notes:

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2. Only using first lactation records for 2-yr-old animals.

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Quebec

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	59798	59798	11618	458.2	371.4
2014	58369	58369	11841	468.3	380.1
2015	58063	58063	11926	474.2	383.6
2016	53837	53837	12064	482.5	392.4
2017	22180	22180	12105	494.1	395.6

Notes:

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Ontario

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	20232	2	6899	259.8	276.5
1976	22516	218	7024	265.5	219.9
1977	27683	3336	6982	264.6	223.8
1978	33130	5186	6950	263.1	218.8
1979	39640	16608	6932	263.0	219.8
1980	43182	26331	7055	267.7	221.9
1981	46604	31266	7218	275.0	227.9
1982	47884	36787	7358	279.5	233.6
1983	52661	51222	7579	285.4	244.0
1984	55139	55138	7630	289.1	245.9
1985	55658	55658	7818	297.5	254.2
1986	55355	55355	8057	306.4	261.9
1987	56045	56045	8104	307.1	263.2
1988	56638	56638	8309	315.4	272.6
1989	53824	53824	8709	333.0	284.6
1990	51498	51498	8950	342.5	290.5
1991	55921	55921	9233	344.9	297.2
1992	57249	57249	9517	354.3	303.6
1993	54949	54949	9755	364.5	312.3
1994	55222	55222	9770	357.1	311.9
1995	56329	56329	10073	365.1	319.9
1996	49735	49735	10495	378.5	331.6
1997	48545	48545	10808	389.2	339.5
1998	48520	48520	10799	393.6	340.0
1999	48389	48389	10965	396.0	345.1
2000	47497	47497	11004	400.5	345.1
2001	51561	51561	10868	396.9	338.6
2002	50985	50985	10850	397.1	338.4
2003	48057	48057	11066	403.4	344.0
2004	50553	50553	11094	407.1	345.8
2005	50367	50367	11138	410.6	347.6
2006	48442	48442	11083	414.7	346.3
2007	50808	50808	11263	416.5	349.9
2008	53015	53015	11337	423.4	353.1
2009	55015	55015	11469	427.5	356.4
2010	55327	55327	11647	440.3	362.0
2011	54340	54340	11588	446.2	359.6
2012	54614	54614	11668	451.9	364.9

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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Ontario

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	54151	54151	12060	463.7	378.0
2014	53477	53477	12423	480.9	390.9
2015	55511	55511	12401	483.1	392.2
2016	53968	53968	12498	485.8	397.7
2017	23563	23563	12700	505.9	408.5

Notes:

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Manitoba

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	1020	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	4791	4791	10399	371.5	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	4792	4792	10942	388.9	347.5
2001	4866	4866	10921	388.3	346.4
2002	5070	5070	10768	389.7	339.8
2003	5272	5272	10520	376.3	333.2
2004	4865	4865	10753	392.2	337.9
2005	4940	4940	10853	399.0	340.6
2006	5069	5069	11134	410.7	348.1
2007	5027	5027	11166	408.9	346.6
2008	5630	5630	11118	407.3	346.0
2009	5424	5424	11229	415.7	351.0
2010	5406	5406	11483	427.1	357.2
2011	5602	5602	11628	439.2	358.8
2012	5998	5998	11650	443.3	362.2

Notes:

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2. Only using first lactation records for 2-yr-old animals.

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Manitoba

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	5330	5330	12046	458.4	376.3
2014	5387	5387	12288	464.6	384.7
2015	5607	5607	12586	477.6	395.8
2016	5168	5168	12793	495.4	404.8
2017	2419	2419	12840	503.1	408.6

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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Saskatchewan

Year	Number of Cows		ME yields (kg)		
	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	3668	3668	10265	360.2	332.7
1996	3352	3352	10446	370.3	337.0
1997	3326	3326	10795	384.9	344.9
1998	3467	3467	10979	386.0	351.3
1999	3533	3533	11297	392.1	360.9
2000	3734	3734	11415	401.6	364.0
2001	3979	3979	11326	403.8	360.4
2002	3937	3937	11284	406.7	357.4
2003	3889	3889	11136	398.1	350.1
2004	3985	3985	11333	405.3	356.3
2005	4094	4094	11206	400.2	352.0
2006	4018	4018	11393	405.4	356.2
2007	3537	3537	11710	418.8	364.4
2008	4041	4041	11594	423.6	362.7
2009	3908	3908	11485	430.7	361.2
2010	3819	3819	11531	434.3	363.6
2011	3799	3799	11773	448.6	372.5
2012	3820	3820	11920	461.2	376.7

Notes:

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Saskatchewan

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	3495	3495	12234	473.3	386.8
2014	3067	3067	12715	493.4	402.6
2015	3556	3556	12744	501.8	407.2
2016	3769	3769	12967	520.1	418.8
2017	1763	1763	12755	513.6	414.4

Notes:

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2. Only using first lactation records for 2-yr-old animals.

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Alberta

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	1376	0	7424	272.0	.
1976	1460	0	7338	272.8	.
1977	1648	0	7315	275.1	.
1978	1904	1	7419	274.2	235.0
1979	2460	253	7487	272.4	239.7
1980	3003	686	7636	277.0	249.2
1981	3934	1528	7733	278.7	248.6
1982	5109	1976	7931	285.5	256.9
1983	7855	2673	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	12256	12256	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	12045	12045	10253	359.9	323.2
1993	11623	11623	10465	369.8	334.1
1994	11531	11531	10596	370.1	337.3
1995	11821	11821	10794	372.5	339.7
1996	11307	11307	10929	378.4	345.0
1997	11270	11270	11359	394.7	355.3
1998	11037	11037	11667	401.5	363.7
1999	11491	11491	11803	405.2	370.2
2000	10852	10852	11850	407.4	371.2
2001	12132	12132	11729	408.1	365.5
2002	12829	12829	11578	409.0	360.4
2003	12195	12195	11543	410.2	357.3
2004	12687	12687	11676	416.4	362.1
2005	13447	13447	11668	418.1	363.0
2006	13493	13493	11782	425.0	367.3
2007	13184	13184	11983	435.7	373.0
2008	14258	14258	11936	443.7	371.6
2009	14993	14993	11832	443.2	369.8
2010	14616	14616	11802	444.7	369.4
2011	13991	13991	11959	458.1	373.3
2012	14445	14445	12304	474.6	384.3

Notes:

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2. Only using first lactation records for 2-yr-old animals.

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Alberta

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	13199	13199	12628	485.9	396.0
2014	13068	13068	12855	498.8	403.1
2015	13729	13729	12830	505.0	404.0
2016	12842	12842	13009	518.8	412.2
2017	6126	6126	12928	521.9	414.3

Notes:

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

Provincial phenotypic trends by birth year for Holstein cows
Lactanet Canada, August 2019

British Columbia

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	5842	3234	7408	272.8	226.1
1976	5947	3373	7619	279.7	236.5
1977	6809	4088	7676	280.2	241.7
1978	7549	2871	7625	277.1	234.8
1979	9231	3093	7771	276.5	246.6
1980	10030	7660	7967	284.0	250.4
1981	10490	8415	8119	293.1	254.3
1982	11307	10711	8260	298.6	262.1
1983	11617	11610	8595	309.2	273.8
1984	11559	11555	8770	314.6	281.1
1985	11737	11718	8990	321.2	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	12236	12236	9769	353.5	313.3
1991	12264	12264	10089	362.3	319.8
1992	12157	12157	10367	369.6	325.0
1993	11765	11765	10483	379.3	329.8
1994	11775	11775	10348	372.7	329.0
1995	11810	11810	10649	374.1	337.1
1996	10945	10945	11057	387.1	349.5
1997	9974	9974	11435	402.0	357.6
1998	10381	10381	11502	399.4	362.1
1999	10177	10177	11653	405.1	369.4
2000	10019	10019	11795	407.6	371.2
2001	11100	11100	11863	402.6	368.8
2002	10827	10827	11872	408.8	369.1
2003	10616	10616	11691	409.2	363.8
2004	10142	10142	11835	417.7	370.6
2005	10379	10379	11802	426.0	371.4
2006	10414	10414	11747	431.5	369.7
2007	9797	9797	12019	437.6	377.1
2008	10256	10256	12089	439.2	378.0
2009	10861	10861	11851	436.5	370.7
2010	10387	10387	11856	436.8	371.6
2011	10493	10493	12007	446.2	376.0
2012	11103	11103	12172	459.8	382.3

Notes:

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

Provincial phenotypic trends by birth year for Holstein cows
Lactanet Canada, August 2019

British Columbia

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	11049	11049	12396	473.4	392.2
2014	11088	11088	12336	480.3	391.3
2015	11520	11520	12365	490.6	393.7
2016	10341	10341	12648	506.9	406.0
2017	4743	4743	12657	507.0	406.9

Notes:

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

Provincial phenotypic trends by birth year for Holstein cows
Lactanet Canada, August 2019

Newfoundland

Year	Number of Cows		ME yields (kg)		
	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
2000	4	4	10758	336.3	335.8
2001	4	4	12201	400.8	361.0
2002	7	7	10457	396.3	344.4
2003	42	42	11972	400.5	376.1
2004	32	32	11682	408.6	375.1
2005	107	107	12577	422.5	407.8
2006	102	102	11836	383.7	373.4
2007	125	125	11262	395.8	357.0
2008	159	159	10983	406.6	348.6
2009	174	174	11165	412.1	352.6
2010	213	213	11311	431.9	348.6
2011	208	208	11242	449.8	351.8
2012	220	220	11753	472.8	372.5
2013	220	220	11947	491.4	378.8
2014	272	272	12031	509.0	383.6
2015	351	351	12728	532.9	401.5

Notes:

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

Provincial phenotypic trends by birth year for Holstein cows
Lactanet Canada, August 2019

Newfoundland

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2016	315	315	12875	537.1	411.8
2017	146	146	12583	533.7	403.4

Notes:

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