

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

Prince Edward Island

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	13	0	4246	202.9	.
1976	14	0	4141	197.8	.
1977	10	0	4810	226.3	.
1978	17	0	4514	218.4	.
1979	14	1	4918	232.1	215.0
1980	9	0	5279	241.3	.
1981	12	1	4792	229.6	123.0
1982	12	1	4804	234.3	197.0
1983	14	14	5455	238.9	188.1
1984	7	7	5672	259.9	197.7
1985	3	3	6105	280.3	219.7
1986	9	9	5349	245.3	192.2
1987	18	18	5190	235.1	189.8
1988	9	9	5188	245.7	194.8
1989	10	10	4710	217.5	172.3
1990	14	14	5309	241.6	183.4
1991	9	9	5442	231.8	180.3
1992	12	12	4716	208.5	161.4
1993	6	6	5654	238.3	192.0
1994	9	9	6110	259.3	201.3
1995	5	5	6350	267.2	222.0
1996	1	1	4878	238.0	170.0
1997	6	6	6541	302.0	223.2
1998	2	2	5026	191.0	147.5
1999	2	2	7188	340.5	253.5
2000	1	1	6208	256.0	207.0
2001	2	2	4878	201.0	149.5
2009	1	1	6615	280.0	257.0
2011	1	1	6282	307.0	229.0
2012	1	1	6762	311.0	230.0
2013	1	1	7317	340.0	265.0

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
1975	23	0	4916	225.8	.
1976	24	0	5565	250.4	.
1977	25	0	5107	236.2	.
1978	27	0	5344	248.9	.
1979	24	0	4997	239.1	.
1980	19	0	5472	254.1	.
1981	26	0	4942	230.5	.
1982	28	7	5044	225.8	178.9
1983	29	29	5619	240.3	189.4
1984	20	20	5913	255.6	202.2
1985	23	23	5949	250.0	206.9
1986	21	21	5414	239.9	194.7
1987	31	31	5599	232.3	194.8
1988	24	24	5450	237.3	195.4
1989	16	16	6416	267.7	229.5
1990	18	18	5626	258.4	202.0
1991	10	10	5224	256.1	188.8
1992	15	15	6318	269.5	215.8
1993	11	11	5655	259.7	209.8
1994	11	11	5402	234.6	191.1
1995	11	11	5269	227.8	177.5
1996	8	8	5355	234.6	188.5
1997	8	8	6074	246.8	206.5
1998	10	10	4956	229.3	180.4
1999	7	7	4772	205.4	177.7
2000	4	4	5746	225.3	195.3
2013	1	1	5839	285.0	204.0
2015	2	2	8629	384.0	293.5
2017	1	1	6097	270.0	212.0

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
1975	74	2	4995	234.1	249.5
1976	52	0	5272	248.7	.
1977	50	2	5201	245.5	175.0
1978	56	1	5049	229.0	153.0
1979	64	10	5225	245.3	216.8
1980	41	20	5944	268.0	257.8
1981	63	51	5639	245.8	234.2
1982	51	44	5543	244.8	202.5
1983	74	74	5267	227.4	189.8
1984	62	62	5586	240.0	198.8
1985	74	74	5435	233.5	195.0
1986	70	70	5255	221.0	187.9
1987	57	57	5427	227.5	195.7
1988	58	58	5645	244.7	202.3
1989	65	65	5658	245.6	200.3
1990	75	75	5632	246.3	199.6
1991	55	55	5665	254.9	200.2
1992	63	63	5970	261.3	209.8
1993	67	67	5910	270.3	213.9
1994	66	66	6160	277.9	217.7
1995	62	62	6211	272.8	220.1
1996	35	35	6382	282.8	226.8
1997	46	46	6769	298.0	241.4
1998	33	33	7088	310.2	251.9
1999	49	49	6884	297.1	239.7
2000	36	36	6847	304.7	238.3
2001	50	50	6972	293.0	237.2
2002	41	41	6935	303.3	236.4
2003	38	38	7360	306.8	245.0
2004	40	40	7042	311.9	244.1
2005	59	59	7439	328.4	253.4
2006	46	46	7699	335.3	259.0
2007	33	33	7592	340.1	264.7
2008	46	46	7955	349.6	272.1
2009	59	59	7673	339.9	261.5
2010	48	48	7172	328.1	248.2
2011	52	52	6778	313.7	236.0
2012	33	33	7462	331.3	253.6

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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New Brunswick

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	41	41	7770	359.1	274.7
2014	39	39	7902	358.9	277.3
2015	27	27	7466	348.6	265.0
2016	19	19	7799	375.3	276.2
2017	4	4	7003	348.0	246.0

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
1975	13	0	4836	221.0	.
1976	18	0	5100	240.2	.
1977	20	0	5295	247.5	.
1978	14	0	5347	247.9	.
1979	12	0	5849	255.2	.
1980	11	0	4571	211.5	.
1981	8	6	4676	206.3	168.3
1982	8	8	5092	232.1	179.8
1983	4	4	4218	187.5	150.3
1984	1	1	6364	275.0	218.0
1985	1	1	5550	228.0	207.0
1988	4	4	5134	222.0	187.8
1989	5	5	6908	304.4	241.6
1990	1	1	7099	302.0	237.0
1991	1	1	4960	253.0	181.0
1992	9	9	5895	265.7	202.3
1993	3	3	6896	277.7	227.3
1994	7	7	5746	269.9	212.1
1995	6	6	5469	229.5	192.7
1996	2	2	4515	225.0	172.5
1997	2	2	7705	347.5	271.0
1998	3	3	7760	349.7	268.0
2000	2	2	7298	361.0	252.0
2001	1	1	7686	331.0	276.0
2002	3	3	6787	304.0	233.0
2004	3	3	7600	306.3	248.3
2005	1	1	6652	258.0	216.0
2006	3	3	7132	317.3	235.7
2007	2	2	11604	411.0	356.5
2008	6	6	9306	387.8	308.5
2009	3	3	9768	373.0	322.0
2010	4	4	7409	325.0	253.5
2011	2	2	8000	394.5	274.0
2012	1	1	6467	285.0	234.0
2013	3	3	7711	355.0	258.0
2014	3	3	6405	263.7	215.3
2015	5	5	7258	297.8	238.4

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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Quebec

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2016	5	5	7361	348.0	256.8
2017	6	6	8370	369.8	285.7

Notes:

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Ontario

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	569	0	5126	240.3	.
1976	635	4	5199	248.7	284.3
1977	628	22	5363	253.2	225.8
1978	740	69	5254	249.3	229.2
1979	750	228	5307	249.5	228.4
1980	839	394	5358	248.5	229.2
1981	870	435	5467	260.0	211.5
1982	925	622	5552	259.2	199.9
1983	880	849	5677	264.3	205.9
1984	891	891	5914	268.9	212.5
1985	794	794	5986	270.1	215.6
1986	823	823	6096	276.0	221.2
1987	826	826	6089	272.3	217.6
1988	697	697	6169	275.5	221.9
1989	663	663	6490	291.0	231.4
1990	620	620	6655	302.5	236.4
1991	573	573	6544	295.9	231.9
1992	540	540	6816	309.2	240.2
1993	466	466	6722	303.3	239.3
1994	439	439	6884	300.2	242.4
1995	386	386	7089	312.9	250.1
1996	339	339	6922	309.5	243.5
1997	254	254	7238	315.1	250.5
1998	200	200	7281	315.4	250.0
1999	180	180	7626	327.3	263.2
2000	149	149	7680	338.3	265.0
2001	141	141	7434	325.8	252.4
2002	137	137	7249	320.0	247.7
2003	122	122	7391	327.4	251.3
2004	118	118	7721	340.9	262.6
2005	91	91	7725	336.6	259.5
2006	92	92	7726	340.0	260.8
2007	96	96	7639	335.7	258.6
2008	101	101	7530	338.1	254.5
2009	82	82	7504	337.7	252.5
2010	93	93	7425	342.7	249.3
2011	79	79	7408	333.8	244.1
2012	89	89	7279	328.3	239.5

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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Ontario

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	68	68	7984	376.5	266.7
2014	55	55	7895	367.8	264.1
2015	77	77	8077	372.0	275.3
2016	65	65	8076	373.6	277.9
2017	27	27	7861	359.1	263.7

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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Manitoba

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	39	0	5477	256.7	.
1976	32	0	5407	259.5	.
1977	23	0	4898	232.6	.
1978	17	0	5093	244.4	.
1979	21	0	4954	235.7	.
1980	21	1	5215	251.9	206.0
1981	18	5	5396	246.6	201.2
1982	22	6	5915	273.5	203.7
1983	22	20	5306	252.5	190.1
1984	25	25	5762	258.1	209.3
1985	15	15	6112	277.7	226.0
1986	23	23	5806	268.7	218.4
1987	22	22	5612	249.9	208.0
1988	23	23	5844	265.2	213.3
1989	9	9	6253	288.9	236.6
1990	19	19	6424	310.8	231.8
1991	20	20	6380	302.9	226.5
1992	12	12	6518	308.1	231.7
1993	12	12	5955	289.3	214.8
1994	12	12	6463	283.1	230.8
1995	12	12	7292	308.4	260.7
1996	8	8	6139	264.1	229.4
1997	9	9	6479	285.1	241.1
1999	5	5	6903	287.8	253.2

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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Saskatchewan

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	4	0	4662	229.8	.
1976	12	0	4708	222.3	.
1977	5	0	4965	214.0	.
1978	7	0	4799	216.0	.
1979	3	0	4773	235.7	.
1980	1	0	5328	255.0	.
1981	8	1	5744	264.9	246.0
1982	10	9	5724	242.6	201.8
1983	6	6	4946	224.7	189.7
1984	6	6	5038	235.0	183.7
1985	7	7	5465	241.7	202.1
1986	8	8	5573	262.8	214.9
1987	12	12	6318	253.3	219.3
1988	7	7	5645	251.4	194.4
1989	11	11	5886	246.9	214.4
1990	9	9	6841	283.7	227.6
1991	2	2	6876	311.0	232.5
1992	8	8	6268	275.5	216.4
1993	3	3	6875	305.7	239.0

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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Alberta

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	31	0	5552	263.2	.
1976	25	0	4794	230.8	.
1977	19	0	4520	210.3	.
1978	14	0	5167	239.3	.
1979	18	6	5336	248.9	244.8
1980	13	10	5735	265.5	237.2
1981	4	1	5957	241.8	215.0
1982	3	0	6685	300.0	.
1983	10	2	5668	250.8	237.0
1984	10	9	6390	278.7	229.4
1985	12	12	6228	290.8	231.9
1986	21	21	5888	271.0	220.7
1987	21	21	6200	269.6	229.1
1988	16	16	5730	258.7	213.0
1989	15	15	6805	289.6	247.5
1990	11	11	6558	281.4	236.6
1991	14	14	7113	296.6	249.0
1992	18	18	6840	272.9	241.4
1993	25	25	6753	289.0	241.3
1994	25	25	6998	282.9	253.1
1995	14	14	7009	262.5	231.1
1996	13	13	6236	237.4	207.5
1997	31	31	6126	248.2	208.8
1998	16	16	6876	272.1	239.6
1999	15	15	6716	287.5	235.4
2000	3	3	6233	249.0	211.3
2001	1	1	8610	360.0	283.0
2004	1	1	7428	342.0	254.0
2006	1	1	8351	393.0	278.0
2007	1	1	10273	453.0	384.0
2008	1	1	9830	453.0	336.0
2009	1	1	7760	356.0	278.0
2010	1	1	7502	314.0	247.0

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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British Columbia

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	90	1	5259	251.9	197.0
1976	105	0	5508	265.4	.
1977	97	2	5826	279.5	172.5
1978	96	2	5445	257.8	247.0
1979	97	23	5904	274.1	237.8
1980	102	41	5932	280.7	229.1
1981	86	49	6046	288.3	227.2
1982	102	89	6101	287.0	219.4
1983	77	77	6363	302.1	234.0
1984	85	85	6511	296.6	233.9
1985	89	89	6924	310.3	248.7
1986	82	82	6747	313.7	243.5
1987	77	77	6693	300.8	240.6
1988	73	73	7243	323.4	258.7
1989	63	63	7592	342.3	268.8
1990	61	61	7512	342.5	264.8
1991	57	57	7703	357.4	273.9
1992	55	55	7421	333.2	258.6
1993	45	45	7385	342.1	265.5
1994	46	46	7798	348.3	277.0
1995	30	30	7302	327.7	265.8
1996	22	22	7218	319.2	255.8
1997	18	18	8054	332.1	282.4
1998	14	14	7911	348.9	273.3
1999	10	10	7237	326.4	263.7
2000	8	8	9034	375.4	307.4
2001	7	7	9101	378.6	318.0
2002	11	11	8650	389.3	304.8
2003	4	4	8342	397.3	298.0
2004	5	5	7967	362.2	278.4
2005	4	4	9349	445.0	329.3
2006	3	3	6775	341.7	260.7
2007	5	5	9940	445.8	343.8
2008	6	6	9460	461.7	337.8
2009	3	3	10199	552.7	358.7
2010	3	3	9226	443.3	333.7
2011	6	6	8746	384.0	307.5
2012	7	7	11228	498.3	371.1

Notes:

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British Columbia

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	6	6	8622	405.3	305.7
2014	5	5	9889	423.6	321.6
2015	4	4	8490	400.3	297.0
2016	7	7	9323	413.6	323.1
2017	4	4	8832	370.3	296.5

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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Newfoundland

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	25	0	4514	217.0	.
1976	25	0	5050	235.2	.
1977	47	0	4989	229.2	.
1978	24	0	5141	235.9	.
1979	15	1	5126	229.3	210.0
1980	19	3	5410	251.4	231.0
1981	16	0	4983	236.9	.
1982	17	4	5093	214.6	143.8
1983	8	8	4990	215.9	175.3
1984	17	17	5480	231.8	188.6
1985	3	3	5217	226.7	189.7
1986	6	6	6056	250.3	214.3
1987	4	4	5402	218.3	180.3
1988	1	1	5365	226.0	197.0

Notes:

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