

**Provincial phenotypic trends by birth year for Brown Swiss cows**  
**Lactanet Canada, August 2019**

**Prince Edward Island**

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1976	5	0	5697	226.2	.
1978	3	0	7620	299.7	.
1979	7	0	5567	238.0	.
1980	3	0	6600	285.0	.
1981	2	0	6525	294.0	.
1982	1	0	6435	262.0	.
1983	1	1	5220	218.0	181.0
1984	1	1	7290	276.0	237.0
1992	3	3	6764	287.3	229.7
1993	8	8	7264	279.3	248.4
1994	2	2	8594	317.5	268.0
1996	3	3	7921	286.0	273.7

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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**Nova Scotia**

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1976	1	0	7020	289.0	.
1978	3	0	5715	237.3	.
1982	1	1	5265	216.0	184.0
1986	1	1	6210	195.0	215.0
1989	2	2	7065	278.0	258.0
1990	2	2	7808	307.0	261.5
1991	2	2	7962	331.5	286.5
1992	1	1	6820	265.0	244.0
1995	2	2	10647	411.5	368.5
1996	2	2	9101	335.0	304.0
1997	1	1	9845	344.0	367.0
1998	4	4	9006	349.5	313.3
1999	4	4	9454	371.5	334.3
2000	6	6	11359	399.7	376.2
2001	3	3	8055	332.3	282.0
2002	7	7	7838	314.7	282.6
2003	8	8	8413	328.8	293.5
2004	6	6	9174	370.8	331.0
2005	4	4	10371	398.0	349.8
2006	11	11	8617	354.0	287.7
2007	6	6	10196	379.8	359.7
2008	6	6	8279	344.3	303.0
2009	9	9	8935	359.9	316.1
2010	10	10	9425	412.9	332.3
2011	6	6	8913	368.5	311.2
2012	9	9	9671	402.1	348.4
2013	8	8	9124	384.3	328.9
2014	5	5	10937	452.8	378.6
2015	5	5	10776	449.2	391.8
2016	7	7	9775	414.3	354.1
2017	2	2	10606	424.5	375.5

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
1978	3	0	5655	220.3	.
1979	1	0	4815	181.0	.
1981	2	1	5378	228.5	239.0
1985	1	1	5850	216.0	196.0
1999	1	1	9487	374.0	323.0
2006	1	1	9935	379.0	342.0
2007	2	2	8100	321.5	291.5
2008	1	1	8726	369.0	302.0
2010	1	1	8368	355.0	306.0
2011	1	1	9040	340.0	320.0
2012	4	4	9230	377.8	320.8
2013	8	8	9202	396.3	333.9
2014	5	5	9004	388.2	334.8
2015	10	10	10888	486.3	381.2
2016	7	7	10517	479.7	382.4
2017	6	6	10032	428.8	364.8

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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**Quebec**

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	11	3	5388	211.5	125.7
1976	36	1	5481	228.5	141.0
1977	42	4	5387	214.9	227.0
1978	39	7	5799	226.0	157.4
1979	26	7	6468	243.8	172.6
1980	41	2	5782	224.8	135.0
1981	40	9	6330	247.7	227.3
1982	57	54	6461	250.6	226.0
1983	66	66	6321	243.0	226.7
1984	73	73	5971	235.9	212.8
1985	85	85	6376	257.1	228.3
1986	92	92	6326	249.5	222.0
1987	105	105	6580	258.3	236.7
1988	130	130	6398	248.8	225.6
1989	155	155	6946	264.6	244.2
1990	163	163	7021	279.2	245.3
1991	238	238	6763	268.6	233.9
1992	287	287	6869	275.1	239.5
1993	297	297	7131	283.0	247.5
1994	299	299	7155	281.9	249.3
1995	241	241	7206	289.5	252.4
1996	237	237	7832	312.1	274.5
1997	227	227	8326	332.3	290.0
1998	257	257	8170	332.2	285.5
1999	232	232	8503	345.9	297.3
2000	231	231	8522	347.1	293.7
2001	243	243	8339	339.3	289.9
2002	245	245	8192	332.0	285.1
2003	295	295	8441	337.4	296.6
2004	284	284	8488	341.7	297.7
2005	317	317	8668	348.9	305.3
2006	334	334	8341	336.5	292.7
2007	342	342	8566	346.7	302.2
2008	318	318	8870	363.3	315.5
2009	329	329	8908	365.7	312.9
2010	325	325	9051	369.0	318.6
2011	347	347	9088	373.1	319.1
2012	341	341	8963	370.1	315.9

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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**Quebec**

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	326	326	9272	381.7	329.2
2014	287	287	9304	382.1	328.5
2015	309	309	9632	399.2	340.8
2016	311	311	9674	400.2	344.9
2017	96	96	10361	437.9	372.1

Notes:

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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
1975	14	0	6380	259.9	.
1976	94	0	5886	239.0	.
1977	125	2	5967	239.6	250.0
1978	103	1	5751	231.2	225.0
1979	137	12	5878	232.3	229.5
1980	163	27	5987	238.4	215.1
1981	153	57	6443	255.7	229.3
1982	185	155	6116	245.2	214.3
1983	222	213	6300	249.3	223.4
1984	238	238	6374	252.3	223.7
1985	239	239	6512	257.4	229.0
1986	344	344	6538	258.7	231.7
1987	357	357	6673	261.7	235.0
1988	291	291	6651	262.8	237.5
1989	328	328	6901	274.5	248.5
1990	274	274	7324	293.0	256.1
1991	329	329	7313	291.8	257.9
1992	431	431	7577	304.5	265.6
1993	346	346	7596	304.0	269.0
1994	323	323	7639	304.0	271.0
1995	312	312	7864	313.3	276.6
1996	279	279	8686	346.0	307.6
1997	230	230	8918	349.1	310.0
1998	213	213	8817	350.3	311.2
1999	216	216	8966	351.5	312.3
2000	271	271	9373	370.6	328.0
2001	225	225	8928	359.0	311.2
2002	305	305	9456	378.8	326.5
2003	294	294	9656	381.7	331.1
2004	317	317	10032	395.5	345.3
2005	324	324	9917	390.6	346.3
2006	383	383	9522	379.5	332.4
2007	330	330	9945	395.6	348.8
2008	366	366	9644	390.8	338.9
2009	324	324	9847	394.3	344.6
2010	310	310	9956	406.0	349.8
2011	324	324	10108	410.8	353.8
2012	352	352	10258	415.4	358.8

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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**Ontario**

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	282	282	10541	422.3	367.3
2014	323	323	10546	428.7	372.1
2015	244	244	10692	442.3	379.9
2016	249	249	10733	439.2	380.3
2017	91	91	11574	459.6	410.2

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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**Manitoba**

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1976	10	0	6287	247.8	.
1977	16	0	6230	260.5	.
1978	11	0	6901	275.5	.
1979	12	0	6019	244.1	.
1980	7	0	6056	243.1	.
1981	13	0	6033	239.9	.
1982	16	7	6325	243.6	251.9
1983	17	16	6006	240.9	216.2
1984	33	33	6653	254.5	229.5
1985	37	37	7035	278.2	249.4
1986	50	50	6811	264.7	242.3
1987	19	19	7098	268.2	242.1
1988	30	30	6807	267.8	243.3
1989	32	32	7334	285.6	261.2
1990	33	33	8011	320.2	283.9
1991	40	40	8548	340.8	304.0
1992	68	68	8102	313.5	288.6
1993	69	69	8071	318.3	290.4
1994	67	67	8284	321.6	298.1
1995	77	77	8705	333.1	312.2
1996	84	84	9021	350.8	320.8
1997	85	85	9191	362.6	332.4
1998	93	93	9902	383.9	357.7
1999	76	76	9966	395.3	363.8
2000	102	102	9515	374.9	344.2
2001	103	103	9273	367.4	334.6
2002	98	98	8890	351.4	314.4
2003	98	98	8772	343.9	310.0
2004	80	80	9197	361.8	316.6
2005	87	87	8629	324.1	299.3
2006	94	94	8895	340.6	311.4
2007	72	72	8949	344.3	307.7
2008	75	75	8871	352.3	306.9
2009	66	66	8772	345.8	307.1
2010	62	62	9093	359.0	311.6
2011	59	59	8830	361.4	305.7
2012	85	85	9105	356.9	311.5
2013	71	71	9872	402.3	339.0

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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**Manitoba**

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2014	54	54	10209	417.7	349.6
2015	45	45	10367	435.1	357.6
2016	52	52	10309	431.0	363.7
2017	29	29	9881	410.3	353.5

Notes:

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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
1979	1	0	6885	216.0	.
1981	1	0	6300	205.0	.
1983	2	1	6165	239.0	207.0
1984	3	3	5565	216.0	196.0
1985	1	1	5940	274.0	212.0
1987	2	2	6953	279.5	252.0
1988	1	1	5355	218.0	201.0
1990	2	2	8258	324.5	296.5
1991	2	2	6278	270.0	243.5
1993	3	3	6862	289.7	251.3
1995	2	2	9361	359.5	330.5
1996	1	1	6668	289.0	254.0
1997	3	3	8696	304.3	294.0
1998	5	5	9926	416.4	375.0
1999	3	3	10710	412.0	369.3
2000	1	1	11367	403.0	389.0
2005	1	1	9167	374.0	324.0
2006	1	1	9433	378.0	328.0
2007	3	3	10393	383.0	370.7
2008	4	4	8710	315.8	297.8
2009	3	3	9432	337.3	307.0
2010	5	5	9593	389.4	336.8
2011	12	12	9420	397.6	329.0
2012	3	3	9319	419.7	317.7
2013	3	3	10740	434.7	344.3

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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**Alberta**

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	2	0	4523	170.5	.
1976	3	0	5250	206.0	.
1977	4	0	5929	209.8	.
1978	2	0	6773	285.0	.
1979	4	0	7234	279.5	.
1980	5	0	6939	266.6	.
1981	3	1	7050	279.7	160.0
1982	11	0	7703	307.5	.
1983	5	0	7965	319.4	.
1984	23	16	7175	292.0	268.7
1985	15	14	7797	304.9	289.9
1986	20	20	7400	285.8	267.8
1987	25	25	7736	306.2	275.8
1988	31	31	7442	279.0	260.3
1989	17	17	7254	279.7	262.8
1990	23	23	8237	315.7	297.0
1991	30	30	6890	265.6	247.6
1992	43	43	6715	263.0	241.7
1993	11	11	9073	363.7	323.7
1994	23	23	8055	338.3	308.1
1995	14	14	8933	330.9	324.8
1996	32	32	8568	350.1	310.0
1997	13	13	9381	369.3	332.4
1998	10	10	8986	348.4	315.8
1999	11	11	9760	385.7	347.5
2000	30	30	9967	380.7	354.4
2001	22	22	10825	398.1	361.1
2002	28	28	10518	393.8	356.9
2003	42	42	10549	399.3	356.6
2004	61	61	10116	404.0	349.1
2005	48	48	10849	423.9	363.6
2006	52	52	10111	393.6	344.3
2007	29	29	10799	445.0	381.8
2008	32	32	10847	437.0	374.3
2009	38	38	9697	396.1	341.7
2010	20	20	10572	420.7	369.9
2011	7	7	10612	445.9	364.6
2012	7	7	10283	421.7	356.9

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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**Alberta**

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	12	12	11249	434.3	383.4
2014	8	8	11703	483.4	423.8
2015	6	6	11153	464.5	389.8
2016	4	4	11210	555.8	406.5
2017	3	3	7429	340.3	264.0

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	1	0	5355	209.0	.
1976	2	0	6998	251.5	.
1977	4	0	6424	227.8	.
1978	5	0	6372	256.4	.
1979	15	1	6135	227.3	262.0
1980	12	5	6589	268.7	177.8
1981	10	7	6858	275.3	235.7
1982	8	7	7268	279.5	244.9
1983	15	15	7479	287.9	262.3
1984	15	15	6777	260.5	242.6
1985	23	23	7428	275.8	258.7
1986	30	30	7436	277.8	260.3
1987	23	23	7499	288.7	258.2
1988	20	20	8003	298.1	281.4
1989	32	32	8008	297.1	278.1
1990	32	32	7635	297.4	264.4
1991	21	21	7913	307.4	272.3
1992	31	31	7588	295.2	259.6
1993	32	32	7473	305.6	257.8
1994	30	30	7607	305.4	263.4
1995	32	32	7648	311.7	268.9
1996	12	12	7762	303.2	282.8
1997	14	14	8471	314.3	294.1
1998	14	14	8205	327.1	279.4
1999	12	12	9066	363.1	336.0
2000	23	23	9625	379.2	346.4
2001	11	11	8881	335.8	318.0
2002	13	13	10568	414.3	375.1
2003	19	19	10045	402.4	361.8
2004	16	16	9616	395.1	344.1
2005	9	9	9020	363.3	313.9
2006	34	34	9011	366.0	323.1
2007	42	42	8531	337.5	306.8
2008	37	37	8674	347.2	315.8
2009	37	37	8708	347.4	311.0
2010	48	48	7823	310.9	280.6
2011	31	31	9236	353.0	324.0
2012	61	61	9732	368.8	344.2

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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**British Columbia**

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	32	32	8675	339.1	307.7
2014	40	40	7916	321.7	282.7
2015	88	88	7741	315.9	280.2
2016	26	26	8470	356.4	301.2
2017	6	6	8995	373.7	322.2

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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**Newfoundland**

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	1	0	5715	250.0	.
1976	1	0	9360	358.0	.
1978	1	0	4050	142.0	.
1982	1	1	6750	292.0	250.0

Notes:

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