

**Provincial phenotypic trends by birth year for Ayrshire cows
Lactanet Canada, August 2020**

Prince Edward Island

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	61	0	6588	259.7	.
1976	69	1	6645	263.1	183.0
1977	91	11	6443	262.7	187.6
1978	133	7	6258	251.0	220.4
1979	120	13	6648	268.2	264.4
1980	146	24	6535	265.8	240.3
1981	95	24	6806	282.9	251.6
1982	139	65	6484	264.4	235.2
1983	145	142	6737	266.3	229.7
1984	125	125	7129	281.9	239.7
1985	118	118	7102	283.8	246.7
1986	122	122	7058	279.0	242.2
1987	121	121	7173	282.7	240.5
1988	122	122	7249	290.5	245.3
1989	111	111	7578	307.7	251.2
1990	113	113	7442	298.8	241.5
1991	117	117	7334	297.7	243.3
1992	125	125	7415	296.2	243.2
1993	115	115	7563	300.2	254.0
1994	109	109	7400	298.5	247.4
1995	144	144	7167	283.3	242.7
1996	133	133	7837	315.9	262.2
1997	121	121	8343	345.4	282.8
1998	116	116	8329	336.8	278.5
1999	109	109	8353	338.8	281.2
2000	103	103	8226	327.7	270.9
2001	94	94	8251	332.8	272.3
2002	89	89	8378	340.5	271.5
2003	74	74	8326	333.8	274.2
2004	50	50	8010	332.7	267.6
2005	48	48	8225	347.0	277.4
2006	57	57	8466	354.5	283.8
2007	63	63	8625	360.5	290.6
2008	35	35	8891	371.1	304.6
2009	39	39	8902	375.7	306.9
2010	44	44	9133	391.3	312.2
2011	51	51	9083	385.6	310.8
2012	58	58	9156	390.7	308.2

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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Prince Edward Island

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	49	49	9268	386.8	316.6
2014	22	22	9208	398.7	306.4
2015	38	38	9011	386.8	309.1
2016	54	54	9215	387.9	311.1
2017	37	37	9266	410.3	321.8
2018	6	6	8230	349.5	276.3

Notes:

1. Based on lactation records qualifying for genetic evaluation.
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Nova Scotia

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	110	0	6348	250.1	.
1976	83	0	6473	251.5	.
1977	94	0	6190	253.7	.
1978	108	0	6526	259.4	.
1979	118	21	6211	246.4	226.9
1980	115	43	6310	257.3	218.6
1981	151	83	6495	258.9	215.9
1982	130	80	6539	261.1	222.5
1983	115	114	6796	270.2	233.4
1984	124	124	6856	266.5	237.0
1985	99	99	6944	269.6	242.0
1986	98	98	6749	256.1	229.9
1987	124	124	7119	268.3	239.6
1988	132	132	7280	275.3	250.7
1989	122	122	7332	279.5	252.2
1990	130	130	7107	280.5	241.7
1991	110	110	7238	280.0	245.6
1992	96	96	6870	266.8	231.2
1993	90	90	7187	274.3	241.3
1994	85	85	7568	290.5	258.9
1995	63	63	7602	286.9	254.1
1996	74	74	7815	299.3	255.4
1997	79	79	8106	311.5	266.6
1998	55	55	8456	328.3	285.2
1999	58	58	7922	303.7	265.8
2000	40	40	7775	296.7	256.1
2001	59	59	7931	304.0	260.7
2002	51	51	7839	303.1	255.9
2003	48	48	8094	312.0	271.5
2004	61	61	7427	280.3	248.8
2005	61	61	8047	308.3	266.6
2006	68	68	8263	319.7	276.2
2007	55	55	7812	312.9	261.9
2008	39	39	8433	349.3	284.4
2009	56	56	8918	365.1	301.3
2010	50	50	8091	336.3	272.2
2011	54	54	7807	329.2	259.2
2012	43	43	8576	353.3	286.5

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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Nova Scotia

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	30	30	8985	364.1	305.3
2014	29	29	8624	376.6	303.4
2015	37	37	9466	399.2	332.9
2016	31	31	9264	399.2	325.2
2017	33	33	8607	357.5	297.5
2018	12	12	7486	320.3	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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New Brunswick

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	58	6	5717	231.9	187.0
1976	74	16	5946	234.4	181.0
1977	75	12	6035	244.4	225.9
1978	100	17	5981	237.3	192.9
1979	115	36	6331	254.0	217.8
1980	105	53	6369	251.6	216.6
1981	138	92	6601	257.9	233.3
1982	155	117	6484	251.7	227.6
1983	139	139	6721	258.5	228.6
1984	129	129	7044	274.0	240.3
1985	152	152	6848	263.5	233.5
1986	145	145	6909	266.8	237.9
1987	147	147	7011	269.0	241.0
1988	154	154	7047	272.8	239.4
1989	159	159	7506	294.7	252.7
1990	146	146	7350	286.6	243.4
1991	145	145	7425	288.8	248.5
1992	121	121	7534	297.2	252.0
1993	126	126	7268	286.8	244.2
1994	127	127	7570	298.2	255.0
1995	118	118	7464	288.7	248.5
1996	113	113	8068	310.0	266.3
1997	93	93	8050	314.2	267.1
1998	101	101	8400	323.4	280.7
1999	116	116	8522	329.2	285.8
2000	105	105	8541	334.9	287.8
2001	101	101	8366	323.1	274.9
2002	105	105	8316	314.0	271.0
2003	76	76	8247	312.9	270.7
2004	86	86	7845	307.1	259.1
2005	76	76	7366	293.9	244.5
2006	109	109	7521	296.1	245.6
2007	114	114	7525	300.1	249.2
2008	108	108	7610	305.5	251.4
2009	116	116	7632	306.0	252.2
2010	117	117	7284	301.2	242.9
2011	114	114	7422	304.4	243.4
2012	129	129	7674	317.7	252.8

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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New Brunswick

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	123	123	7778	324.9	256.8
2014	106	106	8046	324.5	267.1
2015	126	126	7877	330.7	264.5
2016	124	124	8009	335.7	269.4
2017	124	124	7649	315.9	255.7
2018	33	33	9242	392.2	304.8

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	1741	478	5957	233.4	198.1
1976	1992	697	6112	240.7	203.3
1977	2338	857	6186	245.6	214.2
1978	2976	836	6161	245.9	209.2
1979	3466	1335	6219	245.4	216.7
1980	3775	1950	6350	249.9	217.2
1981	4062	2846	6354	249.4	215.7
1982	4369	3489	6478	251.6	216.6
1983	4448	4305	6673	258.7	226.4
1984	4349	4345	6813	266.7	232.2
1985	4400	4399	6956	272.2	239.2
1986	4343	4343	6990	276.1	239.6
1987	4406	4406	6910	273.9	236.5
1988	4475	4474	6945	271.9	234.9
1989	4095	4095	7185	281.3	241.2
1990	3910	3910	7094	280.8	237.8
1991	3787	3787	7043	280.4	237.3
1992	3628	3628	7182	284.5	240.3
1993	3394	3394	7426	295.5	250.2
1994	3468	3468	7462	297.8	252.2
1995	3469	3469	7724	304.9	257.6
1996	3004	3004	8075	318.3	270.3
1997	2834	2834	8313	330.3	280.4
1998	2950	2950	8443	336.9	286.3
1999	2856	2856	8599	339.1	288.5
2000	2914	2914	8577	337.7	287.3
2001	3170	3170	8586	337.4	287.6
2002	3276	3276	8615	340.1	289.8
2003	3024	3024	8693	343.1	291.7
2004	2967	2967	8674	343.2	292.1
2005	2937	2937	8828	354.4	299.7
2006	2859	2859	8734	352.8	294.3
2007	2713	2713	8876	360.7	299.8
2008	2766	2766	9098	367.5	306.9
2009	2922	2922	9057	366.8	305.4
2010	2850	2850	9166	372.9	308.7
2011	2718	2718	9118	375.6	307.9
2012	2683	2683	9167	379.8	309.2

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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Quebec

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	2519	2519	9178	381.5	310.6
2014	2510	2510	9392	388.6	318.6
2015	2450	2450	9414	389.7	321.3
2016	2179	2179	9404	390.7	324.5
2017	1957	1957	9651	398.8	332.8
2018	787	787	9716	399.8	334.7

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	845	0	6156	246.3	.
1976	835	2	6272	252.3	220.5
1977	1049	20	6116	248.8	211.1
1978	1177	61	6000	241.5	204.6
1979	1279	426	6056	243.6	215.7
1980	1357	644	6208	246.5	212.9
1981	1372	700	6317	253.4	212.0
1982	1281	890	6448	256.3	219.1
1983	1421	1386	6496	255.2	222.5
1984	1497	1497	6591	258.1	224.6
1985	1394	1394	6813	268.5	233.2
1986	1343	1343	7044	275.2	240.3
1987	1313	1313	7068	273.3	240.1
1988	1340	1340	7158	276.3	242.6
1989	1209	1209	7554	295.0	253.6
1990	1217	1217	7593	296.9	254.1
1991	1276	1276	7665	298.5	256.4
1992	1124	1124	7736	297.8	258.4
1993	1035	1035	7867	307.1	264.0
1994	1010	1010	7971	312.6	265.8
1995	948	948	8129	313.0	269.2
1996	839	839	8484	327.2	279.6
1997	795	795	8760	336.6	287.6
1998	811	811	8751	341.3	290.4
1999	764	764	8880	339.3	293.3
2000	700	700	8648	333.5	287.4
2001	752	752	8684	336.6	287.1
2002	666	666	8981	346.9	296.2
2003	576	576	8877	342.8	291.7
2004	622	622	8515	330.1	284.3
2005	567	567	8725	340.6	292.0
2006	544	544	8619	339.6	290.4
2007	490	490	8949	347.1	299.1
2008	521	521	8979	350.2	300.9
2009	555	555	8715	341.4	291.3
2010	495	495	8576	338.4	287.2
2011	409	409	8789	350.6	296.7
2012	426	426	8982	357.5	302.9

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	385	385	9044	358.0	307.0
2014	372	372	9209	365.2	311.3
2015	414	414	8966	357.8	308.3
2016	378	378	9278	369.8	320.8
2017	334	334	9308	375.1	322.3
2018	104	104	9195	366.0	312.8

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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Manitoba

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	137	0	5886	231.1	.
1976	110	0	6053	236.7	.
1977	103	0	6011	234.9	.
1978	115	0	6242	246.3	.
1979	98	0	5885	235.8	.
1980	81	1	6030	243.5	230.0
1981	76	11	5635	224.6	216.5
1982	35	15	6083	232.7	186.5
1983	22	22	6651	258.0	222.9
1984	21	21	7110	267.7	240.9
1985	26	26	7140	266.7	241.4
1986	36	36	7241	282.3	250.4
1987	37	37	7716	289.6	263.6
1988	46	46	7803	287.7	259.6
1989	41	41	7748	295.0	265.4
1990	43	43	8064	304.5	269.4
1991	32	32	7941	310.1	279.3
1992	43	43	8111	307.1	276.3
1993	48	48	8190	310.9	273.6
1994	53	53	7746	294.6	259.5
1995	43	43	7973	303.2	267.2
1996	48	48	7962	298.5	271.5
1997	54	54	8594	326.8	288.4
1998	30	30	8776	339.6	301.5
1999	30	30	9397	362.4	323.5
2000	19	19	9774	368.1	332.6
2001	35	35	10312	397.3	341.4
2002	37	37	9253	360.7	308.6
2003	33	33	9388	366.3	308.5
2004	36	36	9884	388.6	326.7
2005	25	25	9462	365.8	313.3
2006	34	34	9119	358.4	300.7
2007	18	18	8571	340.1	279.1
2008	22	22	8545	343.9	283.8
2009	24	24	8679	367.7	296.0
2010	14	14	9025	377.6	307.7
2011	24	24	10159	392.2	335.0
2012	24	24	9621	383.4	318.0

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
2013	14	14	10409	417.9	345.7
2014	19	19	10986	421.9	359.5
2015	21	21	11545	451.9	376.5
2016	21	21	10947	428.6	365.1
2017	26	26	11001	433.0	380.8
2018	3	3	11115	411.0	389.0

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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Saskatchewan

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	82	0	6255	232.3	.
1976	101	0	6108	229.1	.
1977	115	0	6048	234.6	.
1978	140	0	5739	219.0	.
1979	130	11	5831	221.7	211.5
1980	130	46	6006	228.9	203.2
1981	146	88	6010	231.5	209.2
1982	112	108	6380	247.5	218.5
1983	86	83	6600	255.8	229.5
1984	92	92	7013	268.3	241.6
1985	99	99	6768	257.5	233.4
1986	109	109	7124	270.2	247.4
1987	106	106	6911	262.0	241.8
1988	118	118	7075	264.3	245.9
1989	63	63	6941	262.2	239.5
1990	91	91	7179	284.5	253.7
1991	58	58	7291	290.9	255.2
1992	64	64	7557	287.6	257.1
1993	53	53	7494	291.3	256.9
1994	24	24	6993	272.9	247.8
1995	22	22	7707	287.0	267.1
1996	21	21	8481	292.8	290.3
1997	36	36	8566	333.2	300.9
1998	27	27	8449	320.1	300.6
1999	16	16	8666	335.1	319.7
2000	30	30	8953	359.6	314.6
2001	35	35	8465	344.0	295.8
2002	14	14	7531	276.4	259.7
2003	8	8	6970	282.3	248.1
2004	5	5	7229	276.0	253.8
2005	7	7	6677	288.4	225.7
2006	5	5	6517	278.4	224.4
2007	4	4	5758	238.3	199.3
2008	2	2	5997	219.0	211.5
2015	5	5	5613	270.8	192.4
2017	1	1	10875	492.0	345.0

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	169	0	6656	273.4	.
1976	197	0	6600	273.7	.
1977	173	0	6706	280.6	.
1978	226	0	6776	277.6	.
1979	217	52	6699	271.1	259.3
1980	247	94	6632	268.1	262.4
1981	236	177	6841	271.6	253.7
1982	247	208	7064	282.6	252.2
1983	266	232	7026	280.1	247.5
1984	218	215	7294	291.3	258.1
1985	220	217	7292	283.4	253.2
1986	229	229	7621	301.1	270.3
1987	206	206	7703	301.0	269.4
1988	182	182	7427	289.4	254.0
1989	174	174	7969	307.3	274.7
1990	163	163	7989	311.5	275.6
1991	125	125	8135	314.5	280.0
1992	117	117	8520	322.6	287.0
1993	112	112	8446	327.5	292.2
1994	88	88	8737	333.9	295.0
1995	94	94	8623	328.0	294.4
1996	69	69	9178	351.6	313.9
1997	77	77	8849	335.5	299.5
1998	77	77	9318	353.6	312.8
1999	50	50	9240	346.2	319.7
2000	62	62	8629	322.9	297.7
2001	40	40	8235	302.6	276.6
2002	45	45	8577	329.7	293.2
2003	51	51	8264	304.3	281.8
2004	41	41	8704	323.5	297.6
2005	36	36	8407	304.2	278.5
2006	40	40	8370	316.9	287.7
2007	40	40	8729	318.7	295.3
2008	31	31	8976	327.1	301.0
2009	33	33	8887	338.2	306.9
2010	35	35	9552	381.1	328.6
2011	42	42	8754	334.4	294.2
2012	28	28	9006	348.8	305.3

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
2013	38	38	8981	359.1	302.4
2014	34	34	8914	339.6	305.9
2015	25	25	9420	364.5	320.5
2016	20	20	10405	414.0	351.2
2017	10	10	10527	411.6	358.2
2018	12	12	9669	403.6	345.1

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	207	22	6375	257.2	197.8
1976	234	17	6261	251.3	205.5
1977	248	18	6625	267.1	221.6
1978	236	8	6377	259.2	205.9
1979	235	12	6508	264.0	238.1
1980	222	49	6726	273.7	227.7
1981	194	41	6624	270.1	219.6
1982	220	152	7135	285.1	239.2
1983	203	200	7143	280.2	243.0
1984	211	211	7238	282.5	245.4
1985	182	182	7472	292.6	250.9
1986	175	175	7388	292.6	250.1
1987	171	171	7568	302.7	254.5
1988	157	157	7390	296.9	251.5
1989	136	136	7536	298.2	253.9
1990	145	145	7817	309.7	264.5
1991	121	121	7730	306.5	258.0
1992	131	131	8064	321.5	268.2
1993	108	108	8158	324.6	277.1
1994	102	102	8412	328.4	285.7
1995	94	94	8308	319.1	282.1
1996	80	80	8898	347.3	297.9
1997	63	63	9146	359.2	305.0
1998	86	86	9053	354.9	302.7
1999	72	72	8717	343.7	296.2
2000	64	64	9023	356.9	307.9
2001	83	83	9253	359.0	307.1
2002	97	97	9124	345.4	298.2
2003	67	67	8839	348.6	290.0
2004	50	50	9979	385.5	329.6
2005	51	51	9559	380.7	318.2
2006	60	60	9164	369.6	304.3
2007	72	72	9172	356.2	307.3
2008	69	69	9153	362.4	307.8
2009	80	80	8779	341.4	297.0
2010	72	72	8836	345.8	297.8
2011	65	65	9164	361.0	307.0
2012	72	72	9138	362.1	307.2

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 Ayrshire cows
Lactanet Canada, August 2020

British Columbia

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
2013	65	65	9128	369.9	308.0
2014	96	96	8818	366.7	294.5
2015	92	92	9424	389.3	318.2
2016	93	93	9816	408.5	328.4
2017	82	82	9466	401.5	315.7
2018	33	33	9689	416.8	323.3

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 Ayrshire cows
Lactanet Canada, August 2020

Newfoundland

Year	Number of Cows		ME yields (kg)		
	Milk Fat	Protein	Milk	Fat	Protein
1975	47	0	6615	263.9	.
1976	39	0	6666	270.3	.
1977	38	0	6579	260.9	.
1978	35	0	6383	259.9	.
1979	24	0	6447	257.8	.
1980	15	0	5907	232.5	.
1981	15	0	6627	270.5	.
1982	31	26	7146	278.9	237.2
1983	31	31	7094	281.5	243.2
1984	26	26	7582	297.0	256.5
1985	34	34	6931	278.4	242.2
1986	34	34	7536	295.3	258.1
1987	32	32	7586	295.9	258.7
1988	22	22	7464	293.2	256.5
1989	22	22	7400	295.2	256.3
1990	18	18	7182	296.7	248.3
1991	25	25	7809	322.8	269.5
1992	24	24	8440	338.0	288.6
1993	22	22	8179	331.2	280.0
1994	25	25	7901	306.8	263.2
1995	28	28	7443	287.5	246.2
1996	14	14	8472	316.9	283.6
1997	15	15	9721	372.7	316.1
1998	26	26	9620	355.7	316.7
1999	18	18	8680	304.9	290.2
2000	16	16	9161	326.9	302.1
2001	22	22	8223	300.9	268.2
2002	18	18	8672	313.1	286.6
2003	8	8	9706	361.0	325.3

Notes:

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