

Provincial genetic trends by birth year for Ayrshire cows
Lactanet Canada, August 2023

Prince Edward Island

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2010	54	1918	-625	-27.2	-23.2	-0.02	-0.02	99.5	96.8	-0.8	-0.0	-1.7	-0.8	1.6	98.6	101.6	100.2
2011	58	2052	-404	-16.2	-14.9	0.01	-0.01	99.9	97.8	0.1	0.4	-1.2	0.0	2.0	99.2	101.2	99.5
2012	60	1985	-489	-21.0	-19.1	-0.02	-0.03	98.8	96.8	0.2	0.6	-1.1	-0.1	2.2	98.2	101.2	99.8
2013	52	2111	-276	-14.2	-11.2	-0.03	-0.02	98.6	97.3	1.4	1.4	-0.5	1.4	2.7	99.2	100.4	99.9
2014	31	2114	-301	-10.1	-12.2	0.03	-0.02	99.3	98.2	1.0	1.5	-0.5	0.8	3.2	98.8	100.3	98.7
2015	38	2164	-242	-8.4	-9.2	0.02	-0.01	99.8	99.4	1.8	1.8	0.6	1.7	2.9	100.1	98.7	99.2
2016	55	2261	-176	-7.5	-6.7	-0.00	-0.01	99.0	99.0	3.8	2.9	2.1	3.6	3.2	101.1	99.8	99.9
2017	36	2305	-163	-2.0	-3.7	0.06	0.03	99.3	98.9	3.8	2.4	2.1	3.8	3.6	101.2	99.9	99.9
2018	42	2362	28	-2.3	-0.1	-0.04	-0.01	99.6	100.3	3.9	3.3	3.1	3.3	3.3	102.2	100.0	100.8
2019	34	2427	114	4.3	4.5	-0.00	0.01	99.1	100.3	4.7	4.3	4.1	3.6	2.9	102.1	99.0	101.1
2020	29	2421	178	7.5	6.8	0.01	0.01	100.9	99.7	4.0	2.9	3.1	3.3	2.3	101.0	98.6	100.0

Notes:

1. Based on all cows with both production and type indexes.
2. Production in kg EBV units and conformation in EBV points.
3. Conformation indexes based on first lactation classifications of each cow.

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Nova Scotia

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2010	58	1899	-618	-26.1	-23.2	-0.01	-0.02	102.2	98.4	-1.6	-1.5	-1.5	-2.0	0.9	98.8	100.4	99.3
2011	64	1903	-667	-25.3	-24.4	0.03	-0.02	101.9	98.6	-2.3	-1.4	-2.4	-2.1	0.5	98.9	102.6	100.2
2012	46	1983	-544	-24.3	-21.8	-0.03	-0.04	102.2	98.1	-0.8	-0.4	-1.1	-0.7	-0.3	99.9	102.4	101.3
2013	46	1951	-534	-26.7	-19.5	-0.06	-0.02	99.4	97.7	-0.5	0.2	-0.8	-1.2	1.5	99.4	101.7	100.2
2014	34	2065	-443	-18.3	-14.6	0.00	0.01	101.5	99.5	0.5	0.4	0.1	0.3	1.1	100.3	101.1	100.8
2015	43	2103	-389	-13.6	-12.3	0.03	0.02	99.9	99.8	0.2	-0.3	-0.3	0.7	1.7	100.5	99.9	100.3
2016	31	2208	-303	-7.0	-11.5	0.07	-0.01	101.5	100.8	1.6	0.2	1.0	1.9	1.1	101.4	100.7	101.5
2017	41	2199	-201	-10.9	-7.4	-0.03	-0.01	101.2	101.2	1.4	0.3	0.5	1.5	2.6	101.2	100.2	99.9
2018	43	2163	-270	-12.9	-10.8	-0.02	-0.02	101.4	100.2	1.5	0.1	1.4	1.6	1.5	101.2	99.9	100.3
2019	18	2274	-257	-4.3	-3.7	0.10	0.07	100.9	99.9	2.5	0.9	1.7	2.7	1.9	101.3	98.4	100.0
2020	33	2309	-117	3.3	-0.3	0.10	0.05	100.5	100.6	0.8	0.1	0.6	1.0	-0.0	101.3	100.4	100.9

Notes:

1. Based on all cows with both production and type indexes.
2. Production in kg EBV units and conformation in EBV points.
3. Conformation indexes based on first lactation classifications of each cow.

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New Brunswick

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2010	127	1951	-508	-19.5	-17.0	0.02	0.01	101.5	99.2	-3.3	-2.4	-2.5	-3.2	-1.2	99.0	101.5	99.8
2011	146	1963	-507	-21.7	-18.3	-0.01	-0.01	101.6	99.6	-1.9	-1.4	-1.0	-2.4	-0.4	99.7	100.6	99.4
2012	139	2025	-395	-15.7	-14.3	0.01	-0.01	102.1	99.6	-1.1	-0.3	-1.1	-1.4	0.9	99.1	100.8	98.9
2013	142	2078	-318	-11.8	-12.4	0.02	-0.02	101.2	99.0	-0.5	0.2	-0.7	-0.8	1.0	99.1	100.9	99.6
2014	135	2102	-322	-11.9	-11.2	0.02	-0.00	100.8	99.2	0.3	0.6	0.1	-0.1	1.0	99.5	100.2	99.5
2015	131	2190	-210	-8.5	-8.5	0.00	-0.01	100.9	100.8	0.9	0.5	0.7	0.7	1.5	100.9	100.6	100.2
2016	128	2252	-134	-6.1	-5.8	-0.00	-0.01	101.9	101.3	1.3	0.1	1.0	1.3	0.9	101.9	100.4	100.6
2017	120	2291	4	-1.7	-0.7	-0.02	-0.01	100.7	100.3	2.3	1.8	1.4	2.1	1.1	101.1	100.1	100.2
2018	119	2376	93	6.0	4.1	0.03	0.01	101.1	100.5	2.3	1.4	2.2	1.9	0.9	101.4	100.0	100.8
2019	100	2407	140	5.4	7.1	-0.00	0.03	102.0	100.6	2.5	1.4	2.3	2.4	0.9	101.5	100.3	101.3
2020	78	2444	248	8.5	9.8	-0.02	0.02	100.8	100.1	3.6	2.9	2.8	3.1	2.3	101.6	99.6	101.3

Notes:

1. Based on all cows with both production and type indexes.
2. Production in kg EBV units and conformation in EBV points.
3. Conformation indexes based on first lactation classifications of each cow.

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Quebec

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2010	3236	2070	-273	-13.0	-11.4	-0.02	-0.02	99.7	99.8	-2.0	-1.6	-1.4	-2.2	-0.8	100.0	101.2	100.5
2011	3110	2096	-265	-12.0	-11.1	-0.01	-0.02	99.3	99.5	-1.2	-0.9	-0.6	-1.5	-0.1	100.4	101.0	100.6
2012	3013	2136	-164	-6.8	-7.4	0.00	-0.02	99.6	99.8	-1.0	-0.2	-0.9	-1.2	0.4	99.7	101.0	100.2
2013	2765	2184	-137	-4.7	-5.7	0.01	-0.01	99.7	99.6	-0.2	0.2	-0.3	-0.6	1.0	100.1	100.8	100.2
2014	2656	2223	-78	-4.5	-4.1	-0.01	-0.02	99.6	100.5	0.7	0.3	0.6	0.5	0.9	100.7	100.3	100.3
2015	2493	2297	11	-0.3	-0.2	-0.01	-0.01	99.7	100.9	1.3	0.4	1.0	1.2	1.3	101.5	99.9	100.9
2016	2320	2336	23	2.4	1.5	0.02	0.01	99.8	101.0	1.8	0.7	1.9	1.5	1.2	101.9	99.9	101.4
2017	2037	2399	191	8.3	6.8	0.01	0.00	100.1	100.7	2.5	1.9	1.9	2.1	1.6	101.3	99.7	101.0
2018	1994	2470	305	13.9	12.0	0.02	0.02	100.2	100.6	2.4	1.5	2.3	2.1	0.8	101.6	99.5	101.1
2019	1582	2508	322	17.3	13.8	0.05	0.04	100.7	100.8	2.7	1.9	2.5	2.2	1.0	101.7	99.3	100.9
2020	1451	2564	420	19.8	17.0	0.04	0.03	100.9	100.6	3.7	3.0	2.8	3.5	1.5	101.8	99.0	101.4

Notes:

1. Based on all cows with both production and type indexes.
2. Production in kg EBV units and conformation in EBV points.
3. Conformation indexes based on first lactation classifications of each cow.

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Ontario

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2010	494	1970	-379	-19.6	-14.3	-0.05	-0.02	99.8	99.0	-3.0	-2.4	-2.2	-3.1	-0.9	99.3	101.1	100.7
2011	448	2011	-346	-17.3	-13.8	-0.04	-0.02	99.9	99.4	-2.2	-1.5	-1.6	-2.4	-0.6	99.7	101.2	100.9
2012	477	2073	-238	-13.6	-10.2	-0.05	-0.03	99.7	99.2	-1.6	-0.9	-1.1	-1.8	-0.2	99.7	101.3	100.9
2013	433	2097	-239	-13.5	-9.6	-0.05	-0.02	99.8	99.0	-0.9	-0.5	-0.8	-1.2	0.4	100.0	101.0	101.0
2014	422	2127	-180	-11.4	-8.0	-0.05	-0.02	99.8	99.6	-0.3	-0.0	-0.3	-0.5	0.7	100.0	100.8	100.8
2015	441	2202	-107	-7.7	-4.8	-0.04	-0.01	99.4	100.1	0.5	0.2	0.3	0.4	1.0	100.8	100.3	101.1
2016	399	2269	-69	-4.3	-1.9	-0.02	0.01	100.5	100.5	1.5	0.6	1.5	1.2	0.8	101.4	100.0	101.2
2017	363	2304	-42	-1.0	-1.1	0.01	0.00	100.5	100.3	1.6	0.7	1.3	1.5	0.8	101.5	100.2	101.2
2018	350	2380	169	6.6	7.2	-0.00	0.02	100.9	100.1	1.9	1.8	1.5	1.5	1.0	101.0	99.6	101.5
2019	302	2437	208	11.2	9.6	0.04	0.03	101.3	100.7	2.3	1.3	2.0	2.1	0.6	101.5	99.5	101.3
2020	236	2474	283	17.0	12.7	0.07	0.04	101.8	100.7	2.3	1.8	2.1	2.2	0.7	101.3	98.8	101.2

Notes:

1. Based on all cows with both production and type indexes.
2. Production in kg EBV units and conformation in EBV points.
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Manitoba

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2010	23	2019	-295	-15.3	-12.2	-0.04	-0.02	100.5	100.0	-2.5	-3.0	-1.6	-2.3	-1.1	99.7	100.4	100.1
2011	24	2141	-48	-4.9	-5.2	-0.03	-0.04	101.0	100.3	-3.0	-2.8	-2.7	-2.4	-1.5	100.0	101.5	101.5
2012	26	2103	-316	-16.7	-15.7	-0.05	-0.06	100.0	100.0	0.6	0.3	0.2	0.2	0.9	101.2	101.4	101.8
2013	19	2072	-352	-16.4	-12.6	-0.03	-0.01	100.0	99.9	-1.4	-1.7	-1.5	-1.0	-0.3	100.4	101.9	102.5
2014	29	2137	-188	-11.3	-8.9	-0.04	-0.03	99.8	99.7	0.2	-0.6	0.1	0.4	0.8	100.5	100.3	100.8
2015	26	2258	-97	-3.3	-5.0	0.01	-0.02	100.6	101.0	0.1	-1.1	0.2	0.2	1.3	102.0	101.1	101.3
2016	30	2242	-50	-9.6	-4.6	-0.10	-0.03	98.1	100.7	2.2	0.9	1.5	2.2	1.4	101.9	100.2	100.8
2017	23	2297	-77	-0.3	-1.9	0.04	0.01	101.4	102.6	1.3	-0.3	1.4	1.3	0.9	102.1	100.5	101.4
2018	19	2426	256	6.2	8.3	-0.05	-0.01	99.9	101.4	2.8	1.8	2.4	2.7	1.2	101.9	99.9	100.4
2019	27	2390	260	5.7	5.5	-0.06	-0.04	100.8	100.1	2.6	1.2	2.2	2.6	0.5	101.2	99.0	100.0
2020	15	2514	378	14.7	14.1	-0.01	0.01	99.5	100.7	3.9	3.5	3.6	3.5	1.0	101.5	99.7	101.6

Notes:

1. Based on all cows with both production and type indexes.
2. Production in kg EBV units and conformation in EBV points.
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Saskatchewan

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2010	1	2071	-575	-5.0	-8.0	0.24	0.15	100.0	97.0	-5.0	-2.0	-2.0	-5.0	-4.0	99.0	102.0	102.0
2011	4	1924	-518	-23.5	-20.0	-0.03	-0.03	103.0	97.8	-1.3	-0.3	-1.5	-1.8	0.5	97.8	101.3	99.3
2012	3	1675	-1015	-41.0	-36.0	0.01	-0.02	101.3	97.3	-4.0	-3.3	-2.7	-4.0	0.3	98.0	103.0	94.0
2015	3	1815	-650	-19.0	-24.0	0.10	-0.02	100.7	98.0	-2.7	0.0	-2.3	-3.7	1.3	96.7	98.0	97.7
2017	1	1715	-207	-15.0	-15.0	-0.09	-0.11	100.0	101.0	-5.0	-3.0	-1.0	-6.0	-2.0	96.0	98.0	101.0
2018	1	2452	-197	-22.0	-11.0	-0.18	-0.05	102.0	101.0	7.0	6.0	4.0	8.0	5.0	107.0	104.0	104.0
2019	1	2429	248	-6.0	10.0	-0.20	0.02	110.0	100.0	6.0	3.0	4.0	5.0	5.0	102.0	.	.
2020	1	2399	563	5.0	6.0	-0.22	-0.16	98.0	100.0	3.0	2.0	0.0	4.0	5.0	101.0	.	.

Notes:

1. Based on all cows with both production and type indexes.
2. Production in kg EBV units and conformation in EBV points.
3. Conformation indexes based on first lactation classifications of each cow.

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Alberta

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2010	36	1911	-525	-25.1	-18.6	-0.05	-0.00	100.3	98.6	-3.4	-2.9	-2.3	-3.7	-1.0	99.2	102.0	99.9
2011	39	1741	-742	-38.5	-30.6	-0.11	-0.06	101.9	98.0	-3.3	-3.1	-2.8	-3.2	-0.6	99.1	100.5	99.1
2012	25	1910	-587	-25.0	-21.1	-0.01	-0.01	101.0	99.9	-2.9	-2.4	-2.5	-2.8	-0.8	99.6	101.6	100.3
2013	28	2028	-392	-16.2	-13.8	-0.00	-0.00	101.4	98.8	-2.3	-1.8	-1.0	-2.5	-1.3	99.6	102.4	100.5
2014	19	2125	-291	-8.2	-9.5	0.05	0.01	101.8	100.4	-1.4	-1.7	-1.9	-1.2	0.3	99.9	102.3	99.7
2015	19	2293	11	3.1	0.1	0.04	-0.00	99.6	101.7	-0.2	-0.4	-0.9	0.2	1.0	101.3	100.8	102.1
2016	20	2343	162	2.8	2.7	-0.05	-0.03	100.8	100.6	1.8	0.5	2.6	1.2	-0.3	101.4	100.7	101.4
2017	16	2375	170	8.2	8.3	0.02	0.03	100.9	100.2	0.5	-0.1	0.2	0.7	-1.5	100.7	100.5	100.9
2018	19	2356	370	14.1	13.7	-0.01	0.01	101.7	100.0	1.0	0.7	0.9	0.5	-0.1	99.3	98.0	100.8
2019	19	2449	371	14.6	13.4	-0.01	0.01	101.5	99.8	1.5	0.7	0.5	1.5	-0.1	100.7	100.5	102.8
2020	15	2486	553	25.6	21.7	0.04	0.03	99.8	99.1	1.9	1.4	1.8	2.1	-0.7	98.9	96.8	101.5

Notes:

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2. Production in kg EBV units and conformation in EBV points.
3. Conformation indexes based on first lactation classifications of each cow.

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British Columbia

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2010	73	1943	-396	-20.2	-17.6	-0.05	-0.05	101.6	98.4	-3.2	-2.2	-2.5	-3.5	-1.0	98.6	102.2	101.5
2011	84	1967	-372	-19.3	-15.9	-0.05	-0.04	101.5	98.2	-2.6	-1.3	-2.2	-2.9	0.2	98.8	101.8	100.7
2012	106	1932	-447	-23.0	-20.0	-0.06	-0.06	101.4	98.5	-2.5	-2.1	-2.7	-2.2	-0.2	99.0	101.2	100.4
2013	84	2053	-274	-12.8	-12.1	-0.02	-0.03	102.1	98.6	-2.4	-2.0	-1.9	-2.6	0.3	99.2	102.1	100.5
2014	115	2060	-278	-14.8	-11.5	-0.04	-0.02	101.8	99.7	-2.1	-1.9	-1.6	-2.3	0.2	100.0	101.2	100.1
2015	117	2031	-301	-17.0	-13.1	-0.06	-0.03	101.5	98.9	-1.2	-1.6	-1.6	-1.2	0.7	99.8	99.7	100.7
2016	99	2174	-99	-7.6	-5.3	-0.04	-0.02	101.2	100.2	-0.4	-0.5	0.0	-0.5	0.5	100.4	100.1	101.0
2017	89	2163	-71	-4.7	-2.7	-0.02	-0.00	100.9	100.1	-0.9	-0.6	-0.8	-1.3	0.6	100.0	99.5	101.2
2018	96	2244	12	-0.5	0.4	-0.01	0.00	100.8	99.3	0.8	0.4	0.1	0.8	0.9	100.2	98.8	101.4
2019	85	2392	199	7.7	9.4	-0.00	0.03	102.2	100.1	0.4	0.1	0.4	0.4	-0.1	101.4	100.2	101.5
2020	82	2463	301	14.4	12.1	0.03	0.02	101.4	100.5	1.8	1.6	1.1	1.6	1.3	101.5	99.7	102.0

Notes:

1. Based on all cows with both production and type indexes.
2. Production in kg EBV units and conformation in EBV points.
3. Conformation indexes based on first lactation classifications of each cow.