

Provincial genetic trends by birth year for Ayrshire cows
Lactanet Canada, August 2022

Prince Edward Island

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2009	46	1872	-556	-23.9	-18.1	-0.01	0.01	99.2	97.5	-1.2	-0.2	-2.5	-1.0	1.1	97.9	100.4	99.1
2010	54	1912	-558	-23.9	-20.4	-0.01	-0.01	99.5	97.0	-0.3	0.3	-1.5	-0.4	1.8	98.7	101.5	100.1
2011	58	2053	-338	-12.9	-12.0	0.01	-0.00	99.9	97.9	0.6	0.8	-0.9	0.7	2.2	99.3	101.1	99.5
2012	60	1989	-421	-17.6	-16.1	-0.01	-0.02	98.9	96.8	0.7	1.1	-0.9	0.6	2.4	98.5	101.1	100.0
2013	52	2111	-206	-10.6	-8.2	-0.03	-0.01	98.9	97.4	1.8	1.7	-0.4	1.8	2.9	99.3	100.5	99.9
2014	30	2117	-244	-6.4	-9.4	0.05	-0.01	99.3	98.4	1.5	2.1	-0.2	1.4	3.5	99.1	100.3	98.8
2015	38	2170	-158	-4.7	-5.6	0.03	0.00	99.9	99.5	2.3	2.2	0.9	2.1	3.2	100.3	98.7	99.6
2016	55	2261	-111	-4.2	-4.0	0.01	0.00	99.1	99.2	4.2	3.2	2.4	4.0	3.6	101.3	99.9	100.2
2017	35	2307	-98	1.8	-0.8	0.08	0.03	99.7	98.9	4.4	3.0	2.3	4.2	4.1	101.3	99.8	100.1
2018	41	2362	103	1.6	3.3	-0.03	-0.00	99.6	100.7	4.4	3.8	3.3	3.6	3.5	102.3	99.8	101.1
2019	31	2447	155	10.0	7.7	0.05	0.03	100.2	100.5	5.5	4.7	4.8	4.1	3.1	102.4	99.0	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.
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
2009	56	1810	-608	-29.1	-22.8	-0.06	-0.02	101.3	97.9	-1.9	-0.4	-2.5	-2.2	0.3	98.2	101.3	99.6
2010	58	1898	-546	-22.8	-20.2	-0.00	-0.02	102.3	98.4	-1.1	-1.2	-1.2	-1.5	1.0	99.0	100.4	99.2
2011	64	1902	-597	-22.1	-21.6	0.03	-0.01	102.0	98.7	-1.9	-1.2	-2.1	-1.5	0.6	99.1	102.5	100.3
2012	46	1977	-474	-21.0	-18.8	-0.02	-0.03	102.2	98.2	-0.5	-0.0	-0.9	-0.3	-0.2	100.0	102.3	101.4
2013	45	1949	-459	-23.3	-16.5	-0.06	-0.01	99.3	97.7	0.0	0.5	-0.5	-0.6	1.6	99.4	101.6	100.2
2014	34	2065	-377	-15.1	-11.7	0.01	0.02	101.5	99.4	0.9	0.6	0.5	0.7	1.3	100.3	101.3	100.6
2015	43	2116	-313	-10.1	-9.1	0.04	0.02	99.8	100.0	0.7	-0.1	0.2	1.4	2.0	100.9	100.0	100.1
2016	31	2208	-232	-4.0	-8.6	0.07	-0.01	101.6	100.7	1.9	0.6	1.2	2.5	1.5	101.7	100.4	101.2
2017	41	2194	-145	-7.2	-4.9	-0.01	0.00	101.0	101.2	2.0	1.1	1.1	1.7	3.1	101.2	100.2	100.0
2018	43	2154	-217	-10.0	-8.7	-0.01	-0.01	101.2	100.3	1.9	0.6	1.8	1.9	1.8	101.3	99.9	100.5
2019	15	2297	-193	2.5	0.3	0.13	0.09	102.1	100.5	2.5	1.1	1.5	2.9	1.5	101.3	99.1	99.3

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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New Brunswick

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2009	151	1885	-402	-18.0	-14.5	-0.02	-0.01	101.9	99.3	-3.7	-2.6	-3.0	-3.4	-1.5	98.5	101.2	99.2
2010	127	1947	-439	-16.1	-14.1	0.03	0.02	101.5	99.3	-2.9	-2.0	-2.4	-2.7	-1.0	99.0	101.5	99.8
2011	146	1959	-438	-18.5	-15.3	-0.00	-0.00	101.6	99.6	-1.4	-1.1	-0.7	-1.9	-0.2	99.8	100.5	99.4
2012	139	2025	-324	-12.2	-11.3	0.02	-0.00	102.1	99.6	-0.6	0.1	-0.9	-0.9	1.1	99.3	100.8	99.1
2013	142	2077	-247	-8.4	-9.4	0.02	-0.01	101.3	99.2	0.0	0.6	-0.4	-0.4	1.2	99.3	100.8	99.6
2014	135	2104	-250	-8.2	-8.1	0.03	0.01	100.9	99.3	0.8	1.0	0.5	0.4	1.2	99.7	100.1	99.5
2015	131	2187	-152	-5.5	-6.0	0.01	-0.01	100.8	100.9	1.4	0.9	0.9	1.3	1.8	101.1	100.6	100.3
2016	128	2257	-48	-2.4	-2.5	-0.00	-0.01	102.1	101.5	1.9	0.5	1.3	1.9	1.1	102.0	100.3	100.7
2017	117	2303	77	2.4	2.3	-0.01	-0.00	100.8	100.4	2.9	2.2	1.8	2.6	1.3	101.3	100.2	100.4
2018	115	2388	205	10.9	7.9	0.03	0.01	101.5	101.0	2.6	1.8	2.5	2.2	1.0	101.7	99.9	101.0
2019	78	2400	214	8.8	10.1	0.00	0.03	101.6	100.4	2.8	1.7	2.2	2.7	1.0	101.5	100.6	101.5

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
2009	3247	1981	-283	-14.7	-11.0	-0.04	-0.01	99.6	99.3	-2.4	-1.6	-1.7	-2.6	-1.0	99.4	101.0	100.0
2010	3235	2066	-205	-9.7	-8.5	-0.01	-0.02	99.8	99.9	-1.6	-1.3	-1.2	-1.7	-0.7	100.1	101.2	100.5
2011	3110	2093	-199	-8.7	-8.3	-0.01	-0.02	99.4	99.6	-0.7	-0.6	-0.4	-1.0	0.0	100.5	100.9	100.7
2012	3010	2136	-95	-3.4	-4.5	0.01	-0.01	99.7	99.9	-0.5	0.2	-0.7	-0.7	0.5	99.8	101.0	100.3
2013	2765	2184	-66	-1.2	-2.7	0.02	-0.00	99.8	99.8	0.3	0.5	-0.0	-0.1	1.2	100.2	100.8	100.2
2014	2654	2223	-7	-0.9	-1.0	-0.01	-0.01	99.8	100.6	1.2	0.6	0.9	1.0	1.0	100.9	100.2	100.4
2015	2488	2298	81	3.1	2.7	-0.00	0.00	99.8	101.0	1.8	0.8	1.2	1.7	1.5	101.7	99.8	101.1
2016	2310	2343	107	6.4	4.8	0.03	0.02	100.1	101.2	2.3	1.0	2.2	1.9	1.4	102.1	99.9	101.5
2017	2016	2406	270	12.2	10.1	0.02	0.01	100.4	100.9	2.9	2.4	2.2	2.5	1.7	101.5	99.7	101.2
2018	1963	2469	373	17.2	14.7	0.03	0.02	100.4	100.8	2.9	2.0	2.6	2.6	1.0	101.7	99.3	101.4
2019	1386	2521	394	21.2	16.9	0.07	0.04	101.1	101.0	3.2	2.5	3.0	2.7	1.2	102.0	99.3	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.
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
2009	579	1895	-402	-20.2	-15.5	-0.05	-0.02	100.2	99.0	-3.3	-2.3	-2.7	-3.2	-1.1	99.0	101.2	100.1
2010	494	1965	-313	-16.4	-11.5	-0.05	-0.01	99.9	99.1	-2.6	-2.0	-2.0	-2.6	-0.8	99.4	101.0	100.7
2011	448	2007	-280	-14.1	-11.0	-0.03	-0.02	100.0	99.4	-1.8	-1.2	-1.3	-1.9	-0.4	99.8	101.1	100.9
2012	476	2071	-171	-10.3	-7.4	-0.04	-0.02	99.8	99.3	-1.1	-0.5	-0.9	-1.3	0.0	99.8	101.3	100.9
2013	433	2092	-171	-10.2	-6.7	-0.04	-0.01	99.9	99.1	-0.5	-0.1	-0.5	-0.8	0.6	100.0	100.9	101.0
2014	421	2127	-111	-7.8	-5.1	-0.04	-0.01	99.8	99.7	0.2	0.4	-0.1	0.0	0.9	100.1	100.7	100.8
2015	439	2204	-43	-4.4	-2.0	-0.03	-0.01	99.5	100.2	1.0	0.6	0.6	1.0	1.2	101.0	100.4	101.1
2016	394	2271	8	-0.5	1.2	-0.01	0.01	100.7	100.7	1.9	0.9	1.8	1.7	1.0	101.5	100.0	101.3
2017	356	2310	40	3.0	2.3	0.02	0.01	100.8	100.6	2.0	1.2	1.6	2.0	1.1	101.6	100.1	101.3
2018	336	2378	226	10.0	9.8	0.01	0.03	100.9	100.3	2.4	2.3	1.9	2.1	1.1	101.2	99.3	101.7
2019	270	2453	290	16.3	13.1	0.06	0.04	101.5	101.0	2.6	1.6	2.2	2.4	0.6	101.8	99.5	101.7

Notes:

1. Based on all cows with both production and type indexes.
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Manitoba

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2009	27	1944	-277	-14.2	-10.1	-0.03	-0.01	99.9	100.1	-3.6	-2.7	-2.6	-3.4	-2.7	99.1	100.8	100.5
2010	23	2020	-240	-12.3	-9.7	-0.03	-0.02	100.6	100.1	-2.1	-2.5	-1.3	-1.6	-0.9	99.9	100.5	100.3
2011	24	2139	14	-1.6	-2.6	-0.02	-0.04	101.1	100.4	-2.4	-2.5	-2.4	-1.8	-1.5	100.2	101.4	101.6
2012	26	2099	-245	-13.4	-12.7	-0.04	-0.05	100.0	100.0	1.0	0.7	0.4	0.8	1.0	101.3	101.2	101.7
2013	19	2066	-287	-13.1	-9.8	-0.02	0.00	100.1	99.8	-1.0	-1.5	-1.4	-0.4	-0.1	100.4	102.0	102.4
2014	29	2133	-120	-8.0	-5.9	-0.04	-0.02	100.0	99.9	0.6	-0.3	0.3	0.9	0.9	100.6	100.2	100.8
2015	26	2259	-28	0.3	-2.0	0.02	-0.01	100.6	101.2	0.6	-0.8	0.5	0.7	1.5	102.3	101.0	101.5
2016	30	2247	25	-5.9	-1.5	-0.09	-0.03	98.4	100.9	2.5	1.1	1.7	2.6	1.7	102.1	100.2	101.0
2017	22	2298	-20	3.5	1.5	0.06	0.03	101.1	102.7	2.1	0.6	1.8	1.9	1.2	102.2	100.3	101.3
2018	17	2416	352	9.2	10.5	-0.06	-0.02	100.2	101.2	3.6	2.2	2.7	3.5	1.4	101.9	99.5	99.9
2019	25	2404	348	9.6	8.7	-0.06	-0.04	101.4	100.6	3.1	1.5	2.6	2.8	0.6	101.8	99.5	99.6

Notes:

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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
2009	6	1671	-1039	-43.0	-37.7	-0.01	-0.03	100.2	96.3	-4.7	-5.0	-2.7	-3.5	-0.8	99.0	103.5	98.5
2010	1	2057	-492	-1.0	-5.0	0.25	0.16	100.0	97.0	-4.0	-2.0	-2.0	-4.0	-4.0	99.0	101.0	102.0
2011	4	1951	-449	-20.3	-17.0	-0.02	-0.02	102.8	98.0	-0.8	0.3	-1.3	-1.3	1.3	98.5	102.0	99.8
2012	3	1662	-942	-37.7	-32.7	0.01	-0.01	101.3	97.3	-3.3	-3.0	-2.7	-3.7	0.3	97.7	103.0	94.0
2015	3	1831	-586	-16.0	-21.3	0.10	-0.02	100.7	98.0	-2.3	0.0	-2.0	-2.7	1.3	97.3	98.5	98.0
2017	1	1739	-120	-10.0	-12.0	-0.07	-0.10	101.0	101.0	-5.0	-3.0	-1.0	-5.0	-2.0	96.0	98.0	101.0

Notes:

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Alberta

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2009	32	1846	-492	-21.3	-17.9	-0.02	-0.01	101.6	98.6	-3.6	-2.2	-3.0	-3.5	-0.9	98.5	101.7	100.3
2010	36	1906	-460	-21.9	-15.9	-0.04	0.00	100.5	98.8	-2.9	-2.7	-2.1	-3.2	-0.8	99.3	101.9	99.9
2011	39	1728	-681	-35.4	-28.1	-0.10	-0.06	102.0	98.2	-2.9	-2.8	-2.4	-3.0	-0.5	99.1	100.5	99.2
2012	25	1909	-523	-21.6	-18.4	-0.01	-0.00	101.1	100.0	-2.6	-2.0	-2.3	-2.2	-0.6	99.8	101.4	100.3
2013	28	2018	-327	-12.8	-11.0	0.01	0.00	101.6	98.8	-1.9	-1.4	-0.7	-2.1	-1.1	99.6	102.1	100.5
2014	19	2122	-218	-4.3	-6.4	0.06	0.02	102.0	100.6	-0.9	-1.3	-1.5	-0.9	0.6	100.0	101.9	99.6
2015	19	2296	74	6.5	2.8	0.05	0.01	99.8	101.7	0.5	-0.1	-0.5	0.8	1.4	101.6	100.7	101.9
2016	21	2342	234	5.5	5.7	-0.05	-0.03	100.9	101.0	2.0	0.6	2.5	1.6	-0.3	101.7	100.7	101.2
2017	17	2388	258	13.1	12.8	0.04	0.05	101.1	100.4	0.8	0.3	0.6	1.1	-1.1	100.9	100.3	101.3
2018	19	2395	538	20.8	19.1	-0.02	0.01	102.5	100.3	1.4	1.4	1.4	1.1	0.1	99.3	97.6	100.9
2019	18	2422	286	12.4	12.1	0.01	0.03	100.6	99.8	2.2	1.4	1.2	2.3	0.1	101.3	100.9	103.4

Notes:

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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
2009	93	1844	-456	-22.4	-17.4	-0.05	-0.02	102.0	98.1	-3.8	-2.8	-2.6	-3.8	-1.8	98.0	101.5	100.1
2010	73	1938	-330	-16.9	-14.8	-0.05	-0.04	101.7	98.5	-2.7	-1.8	-2.3	-3.0	-0.9	98.7	102.2	101.5
2011	84	1961	-312	-16.3	-13.4	-0.04	-0.03	101.5	98.3	-2.0	-1.1	-2.0	-2.3	0.4	98.9	101.7	100.9
2012	106	1922	-387	-20.1	-17.5	-0.06	-0.05	101.3	98.6	-2.0	-1.8	-2.5	-1.8	-0.0	99.1	101.1	100.4
2013	84	2044	-216	-9.8	-9.5	-0.01	-0.03	102.1	98.8	-1.9	-1.8	-1.7	-2.2	0.3	99.4	101.9	100.5
2014	113	2056	-225	-11.8	-9.3	-0.03	-0.02	101.8	99.8	-1.6	-1.6	-1.3	-1.8	0.4	100.2	101.2	100.1
2015	117	2027	-235	-13.9	-10.4	-0.06	-0.03	101.6	99.0	-0.8	-1.3	-1.3	-0.7	0.8	99.9	99.6	100.7
2016	97	2175	-22	-4.0	-2.1	-0.04	-0.02	101.4	100.3	0.3	-0.0	0.4	0.0	0.7	100.5	100.1	101.0
2017	86	2157	-6	-1.6	-0.3	-0.02	0.00	101.2	100.1	-0.6	-0.2	-0.5	-0.9	0.7	100.0	99.5	101.0
2018	88	2256	81	3.9	3.5	0.01	0.01	100.7	99.5	1.5	1.3	0.6	1.5	1.3	100.4	98.3	101.7
2019	74	2444	303	13.8	14.1	0.02	0.05	101.8	100.6	1.3	0.7	1.2	1.3	0.1	102.1	100.1	101.7

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.