

**Provincial genetic trends by birth year for Ayrshire cows  
Lactanet Canada, August 2021**

**Prince Edward Island**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	43	1834	-611	-25.4	-18.7	-0.00	0.03	99.3	97.0	-0.7	0.1	-2.2	-0.5	1.8	98.0	100.5	98.8
2009	46	1873	-508	-21.8	-16.0	-0.01	0.02	99.3	97.9	-0.6	0.1	-2.0	-0.5	1.0	98.5	100.2	99.2
2010	54	1908	-511	-21.7	-18.2	-0.01	-0.01	99.6	97.3	0.1	0.6	-1.1	0.1	1.8	99.1	101.3	100.2
2011	58	2047	-289	-10.7	-9.9	0.02	0.00	99.9	98.1	1.1	1.2	-0.3	1.0	2.3	99.7	100.9	99.6
2012	60	1985	-369	-15.3	-13.7	-0.00	-0.01	99.1	97.2	1.1	1.4	-0.3	0.8	2.4	98.9	100.9	99.9
2013	52	2115	-153	-8.2	-5.8	-0.02	-0.01	98.9	97.8	2.3	2.1	0.2	2.4	2.8	99.7	100.4	100.1
2014	29	2138	-155	-2.4	-6.0	0.05	-0.01	99.7	98.9	2.0	2.4	0.6	1.8	3.6	99.7	100.1	98.7
2015	37	2166	-110	-2.6	-3.7	0.03	0.00	99.9	99.5	2.7	2.4	1.5	2.6	3.1	100.6	98.4	100.0
2016	54	2245	-56	-3.0	-2.1	-0.01	-0.00	99.2	99.3	4.7	3.7	2.9	4.5	3.5	101.5	99.5	100.2
2017	35	2337	10	6.2	2.9	0.08	0.03	99.5	99.6	5.0	3.9	3.3	4.7	4.2	101.9	99.6	100.2
2018	28	2372	162	8.3	6.0	0.02	0.01	100.7	100.6	4.9	4.4	3.4	4.4	3.6	102.3	98.9	100.4

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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**Nova Scotia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	49	1814	-685	-28.2	-24.0	-0.00	-0.01	101.4	97.5	-1.4	-1.3	-1.0	-1.8	1.2	99.3	101.5	100.1
2009	56	1811	-556	-26.9	-20.4	-0.06	-0.02	101.4	98.1	-1.6	-0.1	-2.0	-1.8	0.3	98.7	101.1	99.7
2010	58	1894	-491	-20.6	-17.8	-0.00	-0.01	102.4	98.7	-0.8	-0.9	-0.6	-1.1	1.0	99.3	100.1	99.4
2011	64	1899	-544	-20.0	-19.2	0.03	-0.01	102.1	99.1	-1.4	-0.8	-1.6	-1.2	0.6	99.6	102.3	100.6
2012	46	1976	-416	-18.3	-16.4	-0.02	-0.03	102.4	98.5	-0.0	0.1	-0.3	0.1	-0.3	100.3	102.0	101.3
2013	45	1951	-407	-21.0	-14.0	-0.06	-0.00	99.5	98.0	0.4	0.9	0.0	-0.2	1.6	99.8	101.4	100.3
2014	32	2081	-312	-10.8	-8.3	0.03	0.03	102.0	99.9	1.6	1.2	1.0	1.5	1.4	100.7	100.7	100.6
2015	43	2113	-249	-7.3	-6.3	0.04	0.03	99.9	100.1	1.4	0.5	0.6	1.7	2.0	101.0	99.7	100.2
2016	30	2182	-226	-4.5	-7.9	0.07	-0.00	101.3	100.8	2.4	1.1	1.8	2.7	1.5	102.0	100.6	101.5
2017	40	2201	-75	-3.7	-2.6	-0.01	0.00	101.6	101.4	2.6	1.4	1.8	2.4	3.2	101.6	99.6	100.2
2018	33	2165	-146	-6.6	-5.7	-0.01	-0.01	101.5	100.2	2.5	0.8	2.0	2.4	1.6	101.7	100.0	100.6

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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**Lactanet Canada, August 2021**

**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	132	1810	-578	-20.7	-18.7	0.04	0.02	101.7	99.3	-3.7	-2.5	-3.5	-3.5	-1.0	98.4	102.0	99.5
2009	151	1878	-358	-15.8	-12.4	-0.01	0.00	102.0	99.5	-3.3	-2.3	-2.6	-3.0	-1.5	98.9	101.0	99.4
2010	127	1941	-390	-14.0	-11.8	0.03	0.02	101.6	99.5	-2.3	-1.7	-2.0	-2.3	-1.0	99.4	101.3	100.1
2011	145	1954	-385	-16.1	-12.9	-0.00	0.01	101.7	99.8	-1.0	-0.8	-0.3	-1.5	-0.2	100.1	100.4	99.6
2012	139	2027	-267	-9.8	-8.8	0.02	0.01	102.2	99.8	-0.2	0.4	-0.4	-0.5	1.0	99.7	100.7	99.2
2013	141	2077	-192	-5.8	-7.1	0.03	-0.00	101.4	99.3	0.4	0.9	0.1	0.0	1.1	99.7	100.7	99.8
2014	134	2104	-185	-5.7	-5.6	0.03	0.01	101.0	99.8	1.2	1.2	0.8	0.7	1.2	100.2	100.0	99.7
2015	131	2182	-102	-3.4	-3.8	0.01	-0.00	100.8	101.1	1.8	1.2	1.5	1.6	1.7	101.6	100.4	100.5
2016	123	2249	20	-0.2	-0.0	-0.01	-0.01	101.9	101.7	2.1	0.8	1.8	2.2	1.2	102.3	100.1	101.0
2017	115	2313	149	5.8	5.3	-0.00	0.00	101.0	100.8	3.3	2.7	2.4	2.9	1.3	101.7	100.1	100.9
2018	50	2378	286	13.9	11.5	0.03	0.02	101.4	101.3	2.7	2.0	2.6	2.5	1.2	101.6	100.0	101.1

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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**Lactanet Canada, August 2021**

**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	3156	1926	-293	-14.3	-11.0	-0.03	-0.01	99.9	99.5	-2.3	-1.4	-1.9	-2.4	-1.3	99.1	100.9	100.2
2009	3247	1976	-235	-12.5	-8.8	-0.04	-0.01	99.6	99.6	-2.0	-1.4	-1.3	-2.2	-1.1	99.8	100.9	100.2
2010	3235	2060	-156	-7.5	-6.3	-0.01	-0.01	99.9	100.1	-1.1	-0.9	-0.7	-1.3	-0.7	100.5	101.0	100.7
2011	3110	2089	-149	-6.4	-6.0	-0.00	-0.01	99.4	99.8	-0.3	-0.3	0.1	-0.6	-0.0	100.8	100.7	100.8
2012	3009	2133	-43	-1.1	-2.2	0.01	-0.01	99.8	100.1	-0.0	0.5	-0.2	-0.3	0.5	100.2	100.8	100.4
2013	2763	2183	-13	1.3	-0.4	0.03	0.00	99.9	100.0	0.7	0.8	0.5	0.3	1.2	100.6	100.7	100.4
2014	2652	2225	57	1.8	1.6	-0.01	-0.00	99.9	100.9	1.6	1.0	1.4	1.4	1.1	101.3	100.0	100.6
2015	2473	2299	138	5.7	5.2	0.00	0.01	99.9	101.2	2.2	1.2	1.8	2.1	1.5	102.1	99.7	101.3
2016	2288	2339	165	8.8	7.2	0.03	0.02	100.0	101.4	2.8	1.5	2.7	2.3	1.4	102.4	99.6	101.8
2017	1969	2410	330	15.3	12.6	0.02	0.02	100.3	101.2	3.4	2.9	2.7	2.9	1.8	101.9	99.7	101.6
2018	1703	2479	436	20.9	17.6	0.04	0.03	100.7	100.8	3.4	2.3	3.0	3.2	0.8	102.0	99.4	102.2

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
2008	561	1867	-344	-18.6	-13.3	-0.06	-0.02	100.0	98.7	-2.9	-1.9	-2.1	-3.0	-1.1	98.8	100.8	100.5
2009	579	1893	-351	-18.0	-13.2	-0.05	-0.02	100.3	99.2	-2.8	-2.0	-2.2	-2.7	-1.2	99.4	101.1	100.3
2010	493	1962	-259	-14.0	-9.1	-0.04	-0.00	100.0	99.3	-2.1	-1.7	-1.5	-2.2	-0.8	99.8	100.8	100.9
2011	448	2003	-231	-11.9	-8.8	-0.03	-0.01	100.1	99.7	-1.3	-0.9	-0.8	-1.5	-0.5	100.2	101.0	101.0
2012	474	2067	-119	-8.0	-5.2	-0.04	-0.01	99.9	99.5	-0.6	-0.2	-0.3	-0.9	-0.0	100.2	101.1	101.0
2013	430	2097	-112	-7.6	-4.3	-0.04	-0.01	100.0	99.3	0.0	0.1	0.1	-0.4	0.6	100.5	100.9	101.1
2014	416	2126	-52	-5.3	-2.7	-0.04	-0.01	99.9	99.9	0.6	0.7	0.4	0.4	0.9	100.4	100.5	100.9
2015	436	2205	16	-1.9	0.5	-0.03	0.00	99.6	100.4	1.5	0.9	1.2	1.4	1.2	101.4	100.2	101.3
2016	387	2267	59	1.4	3.3	-0.01	0.02	100.6	100.8	2.3	1.3	2.2	2.1	1.0	101.9	99.9	101.6
2017	336	2312	92	5.5	4.8	0.02	0.02	100.9	100.9	2.5	1.6	2.2	2.4	1.0	102.1	99.9	101.4
2018	278	2388	300	13.3	12.9	0.01	0.03	101.3	100.3	2.8	2.7	2.3	2.4	1.0	101.5	99.6	102.7

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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**Manitoba**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	27	1874	-391	-18.5	-14.9	-0.03	-0.02	101.0	98.9	-2.4	-2.1	-2.3	-2.4	-0.3	98.9	100.8	100.2
2009	27	1936	-237	-12.1	-8.1	-0.03	0.00	99.9	100.3	-3.0	-2.4	-2.1	-3.1	-2.8	99.6	100.6	100.8
2010	23	2009	-200	-10.0	-7.7	-0.02	-0.01	100.6	100.3	-1.6	-2.2	-0.8	-1.3	-1.0	100.2	100.3	100.5
2011	24	2135	56	0.3	-0.6	-0.02	-0.03	101.4	100.5	-2.0	-2.3	-1.9	-1.4	-1.4	100.7	101.3	101.7
2012	26	2083	-203	-11.6	-10.6	-0.04	-0.05	100.0	100.3	1.3	0.8	0.9	1.2	0.9	101.3	100.9	101.6
2013	19	2068	-255	-11.2	-8.0	-0.01	0.01	99.9	100.1	-0.6	-1.2	-0.7	-0.1	-0.2	101.0	102.0	102.6
2014	29	2125	-76	-5.3	-3.6	-0.03	-0.01	99.9	100.0	1.1	0.2	0.9	1.3	1.0	100.7	100.0	100.7
2015	26	2263	35	3.8	1.0	0.03	-0.00	101.0	101.3	1.2	-0.3	1.2	1.2	1.5	102.3	100.7	101.3
2016	26	2245	105	-4.1	1.3	-0.11	-0.03	98.5	100.8	3.2	1.9	2.2	3.1	1.9	102.4	100.0	101.4
2017	21	2278	0	4.0	1.8	0.06	0.02	100.9	103.2	2.6	1.0	2.5	2.2	1.4	102.8	100.0	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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**Saskatchewan**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	7	1627	-832	-39.9	-30.7	-0.08	-0.03	102.4	97.3	-5.9	-6.0	-2.7	-6.3	-3.1	98.0	104.2	97.5
2009	6	1665	-995	-41.5	-35.7	-0.01	-0.02	100.0	96.7	-3.7	-4.5	-2.2	-3.3	-0.8	99.5	103.5	98.7
2010	1	2087	-410	2.0	-1.0	0.25	0.17	101.0	97.0	-4.0	-2.0	-2.0	-4.0	-4.0	100.0	102.0	104.0
2011	1	2309	-505	-4.0	-5.0	0.22	0.16	105.0	107.0	3.0	-1.0	3.0	3.0	0.0	106.0	100.0	98.0
2012	3	1696	-853	-34.7	-29.0	0.01	0.00	102.0	97.7	-3.0	-2.3	-2.0	-3.0	0.3	98.7	103.0	95.0
2015	3	1842	-541	-14.0	-19.3	0.11	-0.01	101.0	98.0	-1.7	0.3	-1.3	-2.3	1.7	98.0	99.0	98.3
2017	1	1798	-83	-9.0	-10.0	-0.07	-0.09	100.0	101.0	-4.0	-2.0	0.0	-5.0	-2.0	98.0	101.0	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.

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**Alberta**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	36	1571	-809	-42.3	-31.3	-0.12	-0.05	102.4	98.4	-4.5	-3.5	-3.6	-4.4	-2.3	97.9	100.6	98.8
2009	32	1838	-441	-19.0	-15.8	-0.01	-0.01	101.8	98.8	-3.0	-2.0	-2.6	-3.3	-1.0	98.8	101.3	100.7
2010	36	1902	-408	-19.7	-13.7	-0.04	0.01	100.5	98.9	-2.5	-2.3	-1.5	-2.8	-1.0	99.6	101.8	100.1
2011	39	1729	-621	-32.9	-25.5	-0.10	-0.05	102.1	98.4	-2.3	-2.5	-1.9	-2.5	-0.7	99.4	100.2	99.3
2012	25	1909	-467	-19.2	-15.9	-0.00	0.00	101.2	100.2	-2.0	-1.8	-1.7	-1.9	-0.8	100.0	101.5	100.6
2013	28	2017	-268	-10.3	-8.5	0.01	0.01	101.7	99.0	-1.3	-1.0	-0.3	-1.7	-1.1	99.8	102.1	100.6
2014	19	2116	-163	-2.3	-4.1	0.06	0.02	101.9	100.8	-0.3	-1.1	-1.0	-0.4	0.4	100.3	101.6	99.9
2015	19	2296	135	9.1	5.4	0.05	0.01	100.1	101.8	0.8	0.2	0.0	1.4	1.4	101.9	100.5	102.3
2016	21	2334	297	7.9	8.2	-0.05	-0.02	100.8	101.1	2.5	1.0	3.1	1.8	-0.1	102.2	100.2	101.7
2017	17	2378	307	15.4	15.4	0.04	0.07	100.9	100.5	1.4	1.0	0.9	1.4	-1.1	101.2	100.3	102.3
2018	18	2399	649	24.1	22.1	-0.03	-0.00	103.3	100.8	1.6	1.6	1.7	1.4	-0.1	99.8	97.6	102.1

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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**British Columbia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	70	1900	-255	-14.5	-11.2	-0.05	-0.03	102.6	99.3	-4.1	-2.3	-3.0	-4.3	-1.4	98.6	102.1	101.5
2009	93	1841	-407	-20.4	-15.3	-0.05	-0.02	102.0	98.5	-3.3	-2.5	-2.1	-3.4	-1.8	98.5	101.3	100.3
2010	73	1930	-283	-15.0	-12.8	-0.04	-0.04	101.8	98.7	-2.3	-1.5	-1.8	-2.7	-1.0	99.1	101.9	101.7
2011	83	1955	-263	-14.3	-11.3	-0.04	-0.03	101.5	98.6	-1.6	-0.8	-1.4	-2.0	0.3	99.2	101.5	100.8
2012	106	1925	-335	-17.7	-15.2	-0.05	-0.05	101.5	98.8	-1.6	-1.5	-1.9	-1.4	-0.1	99.6	101.0	100.5
2013	84	2050	-150	-7.0	-6.9	-0.01	-0.02	102.3	99.0	-1.6	-1.4	-1.1	-1.8	0.3	99.8	101.7	100.6
2014	113	2056	-163	-9.3	-6.7	-0.03	-0.01	101.8	100.1	-1.0	-1.2	-0.8	-1.3	0.4	100.5	101.0	100.3
2015	116	2028	-180	-11.6	-7.8	-0.05	-0.02	101.5	99.2	-0.3	-1.0	-0.7	-0.3	0.8	100.3	99.4	101.1
2016	97	2171	41	-1.9	0.2	-0.04	-0.01	101.2	100.5	0.7	0.4	1.0	0.4	0.8	100.9	99.7	101.2
2017	77	2185	107	2.5	4.6	-0.02	0.01	101.0	100.8	0.1	0.4	0.2	-0.3	0.6	100.6	99.2	101.3
2018	78	2315	253	12.1	10.3	0.02	0.02	100.9	99.6	2.2	1.9	1.1	2.2	1.0	100.7	98.2	102.4

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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**Newfoundland**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	1	1804	-271	-10.0	-10.0	0.01	0.00	103.0	100.0	-3.0	-1.0	-3.0	-4.0	-2.0	95.0	96.0	96.0

**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.