

**Provincial genetic trends by birth year for Ayrshire cows**  
**Lactanet Canada, August 2024**

**Prince Edward Island**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	58	2053	-488	-20.0	-18.5	0.00	-0.02	99.8	97.8	-0.2	0.1	-1.6	-0.2	1.7	99.0	101.2	99.3
2012	60	1986	-577	-25.1	-22.7	-0.02	-0.04	98.9	96.8	-0.3	0.3	-1.5	-0.4	2.0	98.2	101.3	99.6
2013	52	2113	-356	-18.0	-14.6	-0.04	-0.03	98.6	97.3	0.9	1.2	-0.8	1.0	2.4	99.0	100.5	99.6
2014	31	2114	-391	-14.2	-16.0	0.02	-0.03	99.2	98.1	0.5	1.2	-1.0	0.4	3.1	98.8	100.6	98.6
2015	38	2161	-334	-12.7	-13.1	0.01	-0.02	99.7	99.5	1.4	1.3	0.3	1.2	2.7	99.9	98.9	99.0
2016	54	2249	-270	-12.3	-10.8	-0.01	-0.02	99.0	98.9	3.3	2.6	1.7	3.1	3.2	100.7	99.9	99.7
2017	32	2271	-337	-9.1	-9.4	0.06	0.03	98.7	98.4	3.6	2.5	1.8	3.5	3.7	100.8	99.5	99.4
2018	44	2366	-74	-6.6	-4.0	-0.04	-0.02	99.4	100.4	3.6	3.0	2.8	3.0	3.3	102.0	100.1	100.8
2019	33	2425	6	-0.5	0.7	-0.01	0.01	99.2	100.0	4.4	4.1	3.5	3.3	2.9	101.8	99.1	101.0
2020	41	2330	-48	0.3	-1.0	0.03	0.01	100.1	98.8	3.4	2.9	2.3	3.0	2.3	99.8	97.6	99.7
2021	22	2493	289	9.2	9.8	-0.03	0.00	99.9	99.9	4.0	3.5	1.8	4.0	3.4	100.9	98.7	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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**Nova Scotia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	64	1905	-752	-29.3	-28.2	0.02	-0.03	101.9	98.6	-2.6	-1.8	-2.5	-2.3	0.3	98.8	102.7	100.0
2012	46	1989	-625	-28.1	-25.4	-0.03	-0.05	102.3	98.1	-1.3	-0.8	-1.3	-1.1	-0.5	99.9	102.5	101.2
2013	46	1952	-617	-30.4	-23.1	-0.07	-0.02	99.4	97.7	-0.9	-0.0	-1.1	-1.5	1.2	99.3	101.6	99.8
2014	34	2069	-533	-22.4	-18.2	-0.00	0.00	101.5	99.4	-0.1	-0.1	-0.3	-0.1	1.0	100.3	101.1	100.5
2015	44	2097	-493	-18.3	-16.3	0.02	0.01	99.8	99.6	-0.2	-0.5	-0.7	0.3	1.5	100.4	99.9	100.0
2016	33	2225	-376	-10.5	-15.3	0.07	-0.03	101.4	101.0	1.2	0.0	0.7	1.6	0.9	101.7	100.8	101.3
2017	42	2209	-285	-13.5	-10.9	-0.02	-0.01	101.2	101.2	1.0	-0.0	0.1	0.9	2.5	101.1	100.5	99.7
2018	48	2177	-355	-16.0	-13.6	-0.02	-0.02	101.3	100.1	1.4	0.3	1.0	1.2	1.6	101.0	100.0	100.3
2019	19	2293	-330	-6.5	-7.4	0.09	0.05	101.1	100.3	2.5	1.2	1.7	2.5	2.1	101.3	98.5	100.5
2020	40	2304	-233	-4.7	-5.7	0.06	0.03	100.1	100.6	0.6	-0.1	0.3	0.9	0.2	101.5	102.0	101.4
2021	16	2420	-2	0.1	1.6	0.00	0.02	101.4	100.5	3.5	1.6	2.1	3.4	0.9	102.1	98.6	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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**Lactanet Canada, August 2024**

**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	146	1967	-587	-25.6	-21.8	-0.02	-0.02	101.5	99.7	-2.1	-1.7	-1.2	-2.7	-0.5	99.6	100.7	99.1
2012	139	2030	-478	-19.7	-17.8	0.00	-0.02	102.1	99.6	-1.4	-0.6	-1.3	-1.7	0.7	99.1	100.8	98.7
2013	143	2081	-403	-15.9	-16.1	0.01	-0.03	101.3	99.0	-0.7	-0.1	-1.0	-1.2	0.9	99.1	101.0	99.3
2014	134	2097	-419	-16.4	-15.3	0.01	-0.01	100.8	99.2	-0.1	0.4	-0.3	-0.5	0.8	99.4	100.3	99.1
2015	127	2190	-298	-12.8	-12.3	-0.00	-0.02	100.9	100.8	0.6	0.3	0.3	0.5	1.4	100.8	100.7	99.9
2016	126	2260	-215	-9.7	-9.1	-0.01	-0.02	101.9	101.4	0.9	-0.2	0.7	1.0	0.8	101.7	100.5	100.1
2017	122	2283	-89	-6.4	-4.8	-0.03	-0.02	101.0	100.5	2.0	1.5	1.1	1.6	1.0	100.8	100.1	99.7
2018	116	2378	14	2.0	0.7	0.02	0.00	100.9	100.5	1.8	1.1	1.9	1.5	0.8	101.2	100.0	100.8
2019	98	2397	34	0.0	2.5	-0.01	0.02	101.7	100.7	2.2	1.0	2.0	2.1	0.8	101.4	100.1	101.1
2020	121	2433	123	1.6	4.9	-0.04	0.01	100.7	100.2	3.2	2.4	2.7	2.8	1.9	101.5	99.3	100.8
2021	86	2478	254	8.1	8.9	-0.03	0.00	101.1	100.7	2.8	2.1	2.5	2.4	1.0	101.5	99.1	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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**Lactanet Canada, August 2024**

**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	3110	2100	-349	-15.9	-14.7	-0.02	-0.03	99.3	99.5	-1.5	-1.2	-1.0	-1.8	-0.3	100.3	101.0	100.4
2012	3013	2139	-248	-10.8	-11.0	-0.01	-0.03	99.5	99.8	-1.3	-0.5	-1.3	-1.6	0.2	99.6	101.1	100.0
2013	2765	2186	-223	-8.8	-9.3	0.01	-0.02	99.7	99.7	-0.6	-0.2	-0.6	-1.0	0.8	100.0	100.9	99.9
2014	2657	2224	-164	-8.6	-7.7	-0.02	-0.02	99.6	100.5	0.3	-0.0	0.2	0.1	0.7	100.6	100.4	100.1
2015	2495	2301	-80	-4.6	-4.0	-0.01	-0.01	99.7	100.9	0.9	0.1	0.6	0.9	1.2	101.5	100.0	100.8
2016	2324	2339	-65	-1.9	-2.2	0.01	0.00	99.7	101.0	1.4	0.4	1.5	1.0	1.0	101.8	100.1	101.2
2017	2050	2400	101	3.9	3.0	-0.00	-0.01	100.1	100.7	2.0	1.6	1.5	1.6	1.4	101.3	99.8	101.1
2018	2019	2474	224	9.7	8.5	0.01	0.01	100.1	100.6	2.0	1.2	1.9	1.7	0.7	101.5	99.7	101.2
2019	1649	2516	238	12.9	10.1	0.04	0.02	100.6	100.7	2.2	1.5	2.2	1.9	0.9	101.7	99.6	101.2
2020	1595	2569	343	15.2	13.5	0.02	0.02	100.6	100.6	3.3	2.7	2.5	3.2	1.4	101.8	99.2	101.6
2021	1253	2597	320	17.9	14.0	0.06	0.04	100.3	100.5	3.7	3.0	3.0	3.4	1.5	101.8	99.2	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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**Lactanet Canada, August 2024**

**Ontario**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	448	2014	-429	-21.3	-17.4	-0.05	-0.03	99.9	99.4	-2.5	-1.8	-1.9	-2.7	-0.8	99.7	101.3	100.7
2012	477	2077	-321	-17.6	-13.8	-0.06	-0.03	99.7	99.2	-1.9	-1.2	-1.4	-2.1	-0.3	99.7	101.4	100.7
2013	437	2100	-321	-17.6	-13.1	-0.06	-0.03	99.8	99.0	-1.3	-0.8	-1.1	-1.6	0.2	99.9	101.1	100.7
2014	424	2133	-262	-15.3	-11.5	-0.06	-0.03	99.8	99.6	-0.6	-0.4	-0.6	-0.8	0.6	99.9	100.9	100.5
2015	446	2203	-202	-12.0	-8.7	-0.05	-0.02	99.5	100.1	0.1	-0.1	-0.1	0.1	0.8	100.7	100.4	100.9
2016	406	2274	-152	-8.4	-5.5	-0.03	-0.00	100.5	100.5	1.0	0.2	1.1	0.8	0.7	101.3	100.1	101.1
2017	374	2310	-116	-5.0	-4.6	-0.00	-0.01	100.5	100.4	1.2	0.4	0.9	1.1	0.6	101.4	100.3	101.1
2018	362	2383	70	2.0	3.2	-0.01	0.01	100.8	100.1	1.5	1.4	1.3	1.1	0.8	101.0	99.8	101.8
2019	310	2440	114	7.1	5.6	0.03	0.02	101.3	100.7	1.9	0.9	1.7	1.7	0.5	101.5	99.7	101.5
2020	317	2480	180	11.5	8.2	0.06	0.03	101.5	100.7	1.9	1.4	1.6	1.9	0.5	101.6	99.4	101.2
2021	197	2489	156	12.7	8.1	0.08	0.04	101.3	101.0	2.2	1.7	1.9	2.1	0.4	101.6	99.3	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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**Manitoba**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	24	2145	-132	-9.0	-9.0	-0.04	-0.05	101.0	100.3	-3.3	-3.2	-2.9	-2.6	-1.8	100.1	101.5	101.4
2012	26	2103	-404	-20.9	-19.5	-0.05	-0.07	100.0	99.9	0.2	0.2	-0.2	-0.2	0.6	101.2	101.4	101.7
2013	19	2075	-445	-20.7	-16.5	-0.03	-0.02	99.9	99.9	-1.8	-2.0	-1.7	-1.3	-0.7	100.3	102.2	102.3
2014	29	2136	-278	-15.6	-12.7	-0.05	-0.04	99.9	99.7	-0.3	-0.9	-0.3	-0.0	0.6	100.5	100.4	100.8
2015	26	2259	-193	-7.6	-9.0	0.01	-0.03	100.6	101.2	-0.2	-1.4	-0.1	-0.2	1.1	101.9	101.3	101.2
2016	30	2243	-138	-14.0	-8.3	-0.11	-0.04	97.9	100.7	1.6	0.6	1.0	1.8	1.2	101.8	100.3	100.6
2017	24	2292	-155	-4.3	-5.4	0.03	0.00	101.4	102.5	0.7	-0.7	0.5	0.5	0.4	102.0	100.8	101.5
2018	22	2399	86	-0.5	2.4	-0.05	-0.01	100.1	101.5	2.5	1.1	2.0	2.1	1.0	101.9	100.1	100.5
2019	27	2392	161	0.3	1.3	-0.08	-0.05	100.7	100.1	2.2	0.8	1.9	2.3	0.4	101.3	99.3	100.2
2020	24	2451	182	5.8	6.6	-0.02	0.01	99.8	100.7	3.0	2.4	2.6	3.0	0.3	101.2	99.2	101.4
2021	12	2570	531	25.0	18.8	0.05	0.01	102.5	101.6	1.4	0.9	1.0	1.1	1.4	101.3	100.2	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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**Saskatchewan**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	4	1934	-599	-27.0	-23.8	-0.04	-0.04	103.0	98.0	-1.8	-0.3	-2.0	-2.0	0.5	98.0	101.5	99.3
2012	3	1677	-1095	-44.7	-39.3	-0.00	-0.03	101.3	97.3	-4.0	-3.3	-3.0	-4.0	0.3	97.7	103.0	94.0
2015	4	1993	-446	-15.0	-20.0	0.05	-0.06	100.8	97.8	-0.3	0.3	-0.5	-1.0	2.3	97.3	98.3	98.3
2017	3	2216	-263	-7.3	-6.7	0.04	0.03	98.7	98.3	-0.3	1.3	1.7	-1.3	0.0	100.0	102.7	101.0
2018	2	2457	-125	-11.0	-6.0	-0.08	-0.03	100.5	101.0	5.5	5.0	4.5	4.5	4.0	105.0	102.0	104.5
2019	8	2495	378	9.0	11.8	-0.08	-0.02	102.1	99.3	1.9	0.3	1.5	2.0	0.1	101.3	100.9	103.7
2020	8	2492	561	24.1	17.4	0.02	-0.02	100.4	98.9	3.0	3.6	1.5	2.8	0.8	97.6	95.2	101.8
2021	1	2737	448	36.0	30.0	0.22	0.17	104.0	102.0	2.0	0.0	3.0	2.0	-3.0	101.0	99.0	104.0

**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
2011	39	1746	-823	-42.4	-34.0	-0.12	-0.07	102.0	98.1	-3.6	-3.4	-2.9	-3.6	-0.7	99.1	100.6	98.9
2012	25	1918	-667	-28.8	-24.6	-0.02	-0.02	101.1	100.0	-3.2	-2.8	-2.8	-3.1	-1.1	99.6	101.8	99.9
2013	28	2030	-471	-20.3	-17.2	-0.01	-0.01	101.5	98.8	-2.6	-2.1	-1.3	-2.9	-1.4	99.5	102.5	100.2
2014	19	2126	-370	-12.3	-12.9	0.04	-0.00	101.8	100.4	-1.9	-2.2	-2.1	-1.8	0.1	99.7	102.5	99.2
2015	18	2282	-99	-1.4	-4.0	0.04	-0.00	99.7	102.0	-0.8	-1.0	-1.5	-0.6	0.7	101.3	100.8	101.7
2016	20	2348	90	-1.1	-0.6	-0.06	-0.05	101.1	100.6	1.3	0.3	2.2	0.5	-0.5	101.3	101.0	101.0
2017	14	2369	160	4.9	5.9	-0.01	0.01	101.7	100.7	-0.2	-1.2	-0.5	0.3	-1.9	100.4	100.1	100.7
2018	18	2377	349	11.2	11.6	-0.04	-0.00	102.2	99.9	0.3	0.2	0.5	0.2	-0.2	99.2	98.2	100.7
2019	13	2436	266	7.5	8.2	-0.04	-0.01	102.2	100.2	0.9	0.6	-0.1	1.2	0.2	100.7	101.2	101.9
2020	8	2481	407	19.0	16.8	0.03	0.03	100.8	99.1	0.5	-0.6	0.9	1.1	-1.4	99.5	98.1	102.1
2021	3	2598	391	31.3	20.3	0.19	0.09	102.0	100.3	1.0	1.3	1.7	0.7	-1.7	101.0	98.0	103.7

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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**British Columbia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	84	1975	-454	-23.1	-19.5	-0.06	-0.05	101.5	98.3	-2.8	-1.6	-2.5	-3.1	0.1	98.9	101.8	100.6
2012	106	1934	-526	-26.6	-23.4	-0.07	-0.07	101.4	98.6	-2.8	-2.4	-3.0	-2.6	-0.3	98.9	101.2	100.3
2013	84	2056	-358	-16.6	-15.7	-0.03	-0.04	102.2	98.6	-2.7	-2.3	-2.3	-2.9	0.1	99.2	102.1	100.3
2014	115	2062	-366	-18.8	-15.2	-0.05	-0.03	101.8	99.7	-2.3	-2.2	-2.0	-2.6	0.1	99.9	101.3	99.8
2015	117	2032	-391	-21.1	-16.8	-0.07	-0.04	101.5	98.9	-1.6	-1.9	-1.9	-1.5	0.6	99.6	99.8	100.5
2016	99	2181	-181	-11.4	-8.7	-0.05	-0.03	101.2	100.2	-0.6	-0.8	-0.3	-0.8	0.3	100.3	100.4	100.8
2017	89	2167	-151	-8.7	-6.1	-0.03	-0.01	101.0	100.1	-1.2	-0.8	-1.1	-1.6	0.4	99.9	99.6	100.9
2018	96	2248	-66	-4.2	-2.9	-0.02	-0.01	100.9	99.2	0.4	0.2	-0.2	0.4	0.9	100.0	98.9	101.7
2019	88	2393	111	3.9	5.6	-0.01	0.02	102.2	100.1	0.1	-0.2	0.1	0.0	-0.2	101.3	100.3	101.6
2020	85	2478	226	10.8	9.0	0.02	0.02	101.1	100.7	1.3	1.1	0.8	1.3	1.0	101.5	100.0	101.7
2021	55	2461	181	8.8	7.2	0.02	0.01	101.5	100.7	1.4	1.2	1.4	1.1	1.3	101.9	100.4	101.8

**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.