

**Provincial genetic trends by birth year for Ayrshire cows**  
**Lactanet Canada, August 2019**

**Prince Edward Island**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	63	1706	-444	-24.6	-18.5	-0.09	-0.04	100.1	96.9	-1.9	-1.7	-2.5	-1.9	0.6	98.1	100.9	100.1
2007	66	1821	-480	-19.1	-15.7	0.01	0.01	99.7	98.5	-0.5	-0.6	-1.9	-0.2	0.8	99.2	101.2	99.9
2008	43	1819	-492	-20.3	-14.0	-0.01	0.04	99.3	97.6	0.5	0.8	-1.3	0.6	2.1	98.5	100.2	99.0
2009	46	1871	-373	-16.3	-10.8	-0.01	0.03	99.5	98.3	0.5	0.6	-1.0	0.6	1.3	99.1	100.0	99.6
2010	54	1903	-388	-16.8	-13.4	-0.01	0.00	99.8	97.7	1.3	1.2	0.0	1.3	1.9	99.7	101.0	100.7
2011	58	2047	-173	-6.0	-5.2	0.02	0.01	100.1	98.7	2.3	1.8	0.7	2.3	2.5	100.4	100.7	100.3
2012	60	1987	-226	-9.4	-8.3	-0.00	-0.01	99.4	97.9	2.4	2.3	0.7	2.2	2.7	99.6	100.5	100.3
2013	52	2110	-15	-2.7	-0.8	-0.03	-0.00	99.2	98.4	3.4	2.6	1.2	3.4	3.0	100.4	100.4	100.3
2014	28	2130	-58	2.4	-1.9	0.07	0.00	100.3	99.7	3.1	3.2	1.3	2.8	3.8	100.5	100.1	99.4
2015	36	2165	15	1.1	0.6	0.01	0.01	100.1	99.9	3.7	3.3	2.4	3.6	3.3	101.4	98.5	100.4
2016	42	2235	8	1.0	1.3	0.01	0.01	99.4	100.2	6.1	4.5	4.3	5.6	4.2	102.5	98.5	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
2006	89	1720	-580	-29.4	-21.1	-0.08	-0.02	101.6	98.1	-2.3	-2.2	-1.6	-2.3	-0.4	99.2	101.6	100.1
2007	75	1728	-598	-29.2	-20.4	-0.06	-0.00	101.1	97.0	-2.0	-2.4	-1.8	-1.7	-0.1	99.5	101.4	100.9
2008	49	1813	-575	-23.4	-19.4	0.00	0.00	101.3	97.7	-0.3	-0.7	-0.1	-0.7	1.2	99.9	101.4	100.6
2009	57	1822	-425	-21.5	-15.5	-0.06	-0.01	101.2	98.4	-0.5	0.3	-1.0	-0.6	0.5	99.3	101.0	100.4
2010	58	1892	-389	-16.3	-13.6	-0.00	-0.01	102.4	98.9	0.4	-0.3	0.2	0.1	1.2	99.9	100.0	99.8
2011	64	1902	-426	-15.5	-14.7	0.03	-0.00	101.9	99.1	-0.2	-0.2	-0.7	0.0	1.0	100.1	102.0	101.1
2012	46	1980	-305	-13.8	-11.8	-0.02	-0.02	102.1	99.0	1.3	0.8	0.5	1.4	0.1	100.9	101.4	101.9
2013	46	1935	-300	-17.0	-9.8	-0.06	0.01	99.5	98.3	1.6	1.7	0.8	0.9	1.9	100.3	101.1	100.5
2014	31	2092	-202	-6.2	-3.6	0.03	0.04	102.0	100.6	2.6	1.9	1.9	2.6	1.8	101.5	100.0	100.8
2015	42	2105	-147	-3.6	-2.8	0.03	0.03	100.0	100.6	2.7	1.7	1.8	2.9	2.1	101.8	99.3	100.9
2016	28	2218	83	4.3	1.7	0.01	-0.01	101.4	100.9	3.6	2.3	2.6	3.9	1.6	102.1	99.2	101.9

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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**Lactanet Canada, August 2019**

**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	122	1736	-486	-24.9	-18.4	-0.07	-0.03	101.9	98.4	-2.9	-2.5	-2.7	-2.6	-1.3	98.7	101.6	99.8
2007	146	1773	-528	-21.4	-17.4	0.00	0.01	102.3	98.6	-3.0	-3.0	-3.0	-2.6	-1.1	99.2	101.8	100.2
2008	132	1827	-457	-16.0	-14.0	0.04	0.02	101.7	99.7	-2.6	-2.0	-2.7	-2.4	-0.8	99.0	101.8	100.1
2009	152	1896	-237	-11.1	-7.7	-0.02	0.01	101.8	99.8	-2.2	-1.8	-1.8	-1.9	-1.3	99.5	101.0	100.1
2010	127	1953	-264	-9.3	-7.1	0.02	0.03	101.7	99.8	-1.2	-1.2	-1.0	-1.2	-0.8	100.1	101.0	100.6
2011	146	1964	-260	-11.3	-8.2	-0.01	0.01	101.6	100.1	0.0	-0.2	0.5	-0.4	0.1	100.8	100.3	100.1
2012	141	2041	-139	-4.7	-4.0	0.02	0.01	102.1	100.2	1.0	0.9	0.4	0.7	1.3	100.4	100.5	99.9
2013	141	2092	-60	-0.7	-2.2	0.03	-0.00	101.3	99.9	1.7	1.5	1.0	1.3	1.5	100.5	100.5	100.4
2014	130	2111	-43	-0.3	-0.6	0.02	0.01	100.9	100.3	2.5	2.0	1.8	2.0	1.6	100.9	99.6	100.4
2015	131	2186	37	2.0	1.6	0.01	0.01	100.8	101.4	3.0	1.9	2.4	2.8	1.9	102.1	100.0	101.1
2016	111	2265	174	7.1	6.1	0.00	0.00	101.7	101.9	3.4	1.6	2.7	3.3	1.5	102.8	99.4	101.9

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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**Lactanet Canada, August 2019**

**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	3161	1805	-343	-17.9	-12.9	-0.05	-0.02	99.6	98.6	-2.3	-1.6	-2.1	-2.2	-1.1	98.9	101.0	99.9
2007	3101	1867	-295	-14.0	-10.0	-0.02	0.00	99.9	98.9	-2.0	-1.4	-2.2	-1.8	-1.0	99.3	101.3	100.4
2008	3154	1932	-175	-9.6	-6.4	-0.03	-0.01	99.9	99.8	-1.2	-0.8	-1.0	-1.2	-1.0	99.8	100.8	100.8
2009	3242	1978	-116	-7.8	-4.2	-0.04	-0.00	99.7	99.9	-0.8	-0.8	-0.4	-1.0	-0.9	100.5	100.7	100.8
2010	3227	2063	-35	-2.6	-1.6	-0.01	-0.00	100.0	100.5	0.1	-0.4	0.2	-0.1	-0.4	101.1	100.7	101.2
2011	3099	2095	-29	-1.6	-1.3	-0.00	-0.00	99.5	100.2	0.9	0.4	1.1	0.6	0.3	101.6	100.6	101.4
2012	2999	2141	81	3.9	2.6	0.01	-0.00	99.8	100.5	1.2	1.2	0.8	0.9	0.9	100.9	100.6	100.9
2013	2739	2192	112	6.3	4.5	0.02	0.01	100.0	100.5	2.0	1.6	1.5	1.5	1.6	101.4	100.4	101.0
2014	2625	2221	174	6.6	6.0	-0.00	0.00	99.8	101.3	2.9	1.8	2.5	2.6	1.5	102.0	99.5	101.2
2015	2419	2295	260	10.8	9.9	0.01	0.02	99.9	101.6	3.6	2.0	2.8	3.3	2.0	102.7	99.2	101.8
2016	2042	2352	306	14.6	12.5	0.03	0.03	100.5	101.9	4.0	2.3	3.9	3.6	1.9	103.1	99.1	102.3

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 2019**

**Ontario**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	562	1750	-390	-21.7	-15.4	-0.08	-0.03	99.4	98.1	-2.7	-2.4	-2.0	-2.7	-1.0	98.9	100.8	100.3
2007	534	1802	-312	-17.8	-12.0	-0.07	-0.02	99.8	98.3	-2.6	-1.9	-2.4	-2.5	-0.9	98.9	101.2	100.6
2008	561	1865	-225	-13.9	-8.6	-0.06	-0.01	100.0	99.0	-1.7	-1.4	-1.2	-1.9	-0.9	99.4	100.6	101.0
2009	578	1894	-233	-13.2	-8.6	-0.05	-0.01	100.4	99.6	-1.6	-1.5	-1.2	-1.5	-0.9	100.0	101.0	100.9
2010	491	1964	-142	-9.3	-4.5	-0.05	0.00	100.0	99.7	-0.9	-1.1	-0.6	-1.0	-0.5	100.5	100.6	101.5
2011	443	2010	-117	-7.3	-4.3	-0.03	-0.00	100.1	100.0	-0.1	-0.2	0.1	-0.2	-0.2	100.9	100.8	101.6
2012	466	2076	9	-2.7	-0.2	-0.04	-0.01	100.1	100.0	0.6	0.6	0.7	0.4	0.3	100.8	100.8	101.5
2013	420	2101	17	-2.4	0.8	-0.04	0.00	100.1	99.8	1.3	1.0	1.0	0.9	1.0	101.1	100.6	101.6
2014	400	2125	68	-0.3	2.1	-0.04	-0.00	99.9	100.4	1.9	1.5	1.4	1.6	1.4	101.1	100.0	101.5
2015	415	2205	144	3.5	5.5	-0.03	0.01	99.7	100.8	2.9	2.0	2.2	2.7	1.7	101.9	99.6	101.5
2016	301	2291	231	8.9	9.6	-0.01	0.02	100.8	101.3	3.7	2.1	3.3	3.3	1.5	102.5	99.3	102.3

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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**Manitoba**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	48	1758	-377	-20.4	-14.9	-0.07	-0.03	100.2	98.4	-3.3	-2.6	-2.4	-3.4	-1.6	98.4	101.5	100.6
2007	23	1850	-305	-14.3	-10.9	-0.03	-0.01	102.2	98.7	-2.3	-1.4	-3.1	-2.0	-0.2	98.5	101.4	101.1
2008	27	1876	-285	-13.7	-10.6	-0.03	-0.01	101.0	99.1	-1.2	-1.3	-1.3	-1.2	0.0	99.4	100.5	100.7
2009	27	1954	-112	-7.3	-3.5	-0.03	0.00	99.9	100.7	-1.8	-1.9	-1.0	-1.9	-2.6	100.3	100.5	101.3
2010	23	2023	-75	-5.0	-3.1	-0.02	-0.00	100.7	100.7	-0.4	-1.6	0.1	-0.1	-0.8	100.9	100.2	101.1
2011	24	2165	183	5.3	4.3	-0.03	-0.02	101.6	101.1	-0.5	-1.5	-0.7	-0.1	-1.1	101.6	101.5	102.4
2012	26	2089	-80	-6.1	-6.0	-0.03	-0.04	100.3	100.6	2.5	1.6	1.7	2.3	1.3	102.1	100.6	102.1
2013	19	2082	-121	-6.4	-3.2	-0.02	0.01	100.0	100.6	0.8	-0.3	0.3	1.2	0.1	101.8	101.6	103.3
2014	28	2131	32	0.2	0.3	-0.01	-0.01	99.6	100.4	2.2	0.6	2.0	2.5	1.1	101.6	99.4	101.6
2015	24	2230	124	6.6	3.8	0.02	-0.00	100.3	101.8	2.2	0.4	1.9	2.4	1.7	102.9	100.1	101.6
2016	21	2245	179	3.2	6.0	-0.05	0.00	99.0	101.0	4.3	2.7	3.4	4.1	2.5	102.8	99.5	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.
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
2006	2	1760	-930	-36.0	-27.0	0.03	0.06	101.5	99.0	-1.0	-4.5	0.0	-0.5	-1.0	100.5	101.5	99.5
2007	3	1434	-961	-45.7	-36.0	-0.09	-0.04	104.0	97.7	-4.0	-2.0	-4.7	-5.0	-1.0	96.7	101.3	97.0
2008	5	1648	-544	-32.6	-22.4	-0.14	-0.05	103.0	98.4	-5.2	-4.8	-2.4	-6.6	-3.6	98.4	104.3	98.0
2009	4	1629	-932	-37.0	-34.0	0.02	-0.03	99.3	97.0	-2.0	-3.3	-2.0	-1.5	0.3	99.8	102.5	98.5
2012	1	1565	-947	-44.0	-33.0	-0.07	-0.02	103.0	97.0	-2.0	-2.0	-1.0	-2.0	3.0	100.0	.	.
2015	3	1866	-336	-8.7	-13.3	0.06	-0.02	101.7	98.3	-0.7	0.7	-1.0	-0.7	2.0	98.0	100.0	96.5

**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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**Alberta**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	46	1635	-725	-30.6	-22.9	-0.01	0.02	102.0	98.1	-3.9	-3.9	-3.4	-3.7	-1.5	98.6	101.6	99.3
2007	43	1629	-559	-30.1	-21.9	-0.10	-0.04	100.6	97.7	-3.7	-3.1	-3.2	-3.3	-1.3	98.0	101.9	100.4
2008	36	1570	-691	-37.4	-26.5	-0.13	-0.04	102.4	99.0	-3.5	-3.1	-2.8	-3.4	-2.3	98.5	100.5	99.6
2009	32	1849	-327	-14.5	-11.2	-0.02	0.00	101.7	99.3	-2.1	-1.6	-1.6	-2.1	-0.8	99.5	101.1	101.2
2010	36	1894	-280	-14.6	-8.6	-0.04	0.01	100.6	99.5	-1.5	-2.0	-0.8	-1.6	-0.8	100.2	101.2	100.4
2011	39	1745	-503	-28.3	-20.6	-0.11	-0.05	102.1	99.0	-1.3	-2.2	-0.9	-1.4	-0.5	100.3	100.3	100.3
2012	25	1914	-343	-14.2	-11.2	-0.01	0.01	101.1	100.8	-0.9	-1.4	-0.9	-0.7	-0.6	100.7	101.1	101.0
2013	28	2063	-119	-5.0	-3.4	-0.00	0.01	101.7	99.8	0.0	-0.2	0.8	-0.3	-0.8	101.2	102.0	101.5
2014	19	2144	-33	3.3	0.8	0.06	0.03	101.6	101.3	0.6	-0.2	0.2	0.7	1.0	100.9	101.0	100.5
2015	19	2272	231	14.1	9.4	0.06	0.02	99.8	102.5	2.2	1.0	1.1	2.4	1.9	102.5	99.5	102.8
2016	16	2304	438	9.7	11.9	-0.11	-0.04	102.1	101.1	3.4	1.4	4.3	2.6	0.3	102.8	99.5	102.3

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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**British Columbia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	59	1764	-415	-23.3	-16.2	-0.08	-0.03	102.8	98.8	-3.5	-3.1	-3.0	-3.6	-1.9	98.8	103.0	100.1
2007	68	1816	-309	-19.7	-11.9	-0.09	-0.02	101.7	98.0	-3.1	-2.1	-2.8	-3.4	-1.5	98.9	102.9	101.6
2008	70	1898	-151	-10.4	-7.1	-0.05	-0.02	102.7	99.7	-2.8	-1.8	-2.0	-3.1	-1.3	99.3	101.9	102.1
2009	92	1841	-290	-15.7	-10.4	-0.05	-0.01	102.0	98.8	-2.0	-1.9	-1.1	-2.2	-1.7	99.1	101.0	100.9
2010	73	1918	-178	-11.1	-8.5	-0.05	-0.03	101.7	99.1	-1.1	-0.9	-0.9	-1.4	-0.8	99.8	101.9	102.3
2011	81	1950	-146	-9.4	-6.5	-0.04	-0.02	101.3	99.0	-0.5	-0.3	-0.5	-0.8	0.6	100.0	101.3	101.3
2012	106	1918	-215	-13.1	-10.5	-0.06	-0.04	101.4	99.3	-0.5	-1.0	-1.0	-0.2	0.2	100.2	100.9	101.1
2013	84	2053	-32	-2.2	-2.3	-0.01	-0.01	102.1	99.6	-0.4	-0.9	-0.3	-0.5	0.5	100.4	101.4	101.0
2014	111	2045	-70	-5.9	-2.9	-0.04	-0.01	101.5	100.6	0.1	-0.6	0.2	-0.1	0.7	101.3	100.6	101.0
2015	110	2016	-80	-7.8	-3.8	-0.06	-0.01	101.0	100.0	0.8	-0.5	0.3	0.8	1.0	101.2	99.1	101.6
2016	80	2194	185	4.5	6.1	-0.04	-0.00	100.9	101.0	2.2	1.2	2.2	1.8	1.3	101.9	99.1	102.3

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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**Newfoundland**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	1	1781	-156	-6.0	-5.0	0.01	0.00	103.0	101.0	-2.0	-1.0	-2.0	-3.0	-2.0	96.0	96.0	97.0

**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.