

Provincial genetic trends by birth year for Ayrshire cows
Canadian Dairy Network, August 2013

Prince Edward Island

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2000	93	1487	-357	-16.8	-14.3	-0.03	-0.03	102.7	3.05	-1.6	-2.4	-0.4	-1.8	0.2	100.6	102.4	101.4
2001	104	1459	-390	-16.9	-14.8	-0.02	-0.02	102.3	3.11	-1.7	-2.3	-0.7	-1.6	0.0	99.5	102.0	100.8
2002	99	1633	-201	-8.2	-7.7	0.00	-0.01	102.3	3.02	-0.2	-0.7	-0.5	-0.2	0.4	101.0	101.9	100.8
2003	86	1594	-229	-10.6	-8.6	-0.02	-0.01	101.7	3.05	-0.0	-0.7	0.6	-0.3	0.8	100.3	100.6	99.6
2004	52	1612	-377	-13.0	-11.6	0.03	0.02	102.4	3.02	1.1	-0.6	0.9	1.0	2.0	100.7	101.0	98.9
2005	55	1666	-245	-6.9	-7.1	0.04	0.02	101.2	2.98	0.8	-0.1	0.5	0.5	1.6	101.1	101.0	99.4
2006	62	1716	-38	-3.4	-3.6	-0.02	-0.03	102.3	3.04	1.7	1.0	0.5	1.4	2.4	100.2	99.9	99.9
2007	64	1847	-65	1.5	-0.7	0.06	0.02	101.6	2.98	3.5	1.9	1.5	3.4	2.5	101.2	100.3	99.5
2008	42	1896	-74	0.1	0.4	0.04	0.04	101.1	3.01	4.9	3.3	2.5	4.5	3.8	101.9	100.4	98.8
2009	43	1945	46	4.9	4.0	0.05	0.03	101.2	2.99	4.9	3.4	3.0	4.3	2.9	101.4	99.3	98.8
2010	32	2004	165	7.1	4.8	0.01	-0.01	101.9	3.01	5.8	4.2	4.0	5.0	3.1	102.0	99.8	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
2000	57	1414	-424	-21.4	-17.0	-0.06	-0.04	102.6	3.06	-1.4	-1.9	-0.7	-1.2	0.4	99.3	100.4	101.0
2001	73	1443	-442	-19.2	-15.3	-0.02	-0.01	102.7	3.09	-1.0	-1.2	-0.8	-1.1	0.8	99.1	100.3	101.7
2002	71	1505	-293	-13.4	-12.1	-0.02	-0.03	102.0	3.01	-0.7	-0.6	-1.3	-0.7	0.9	99.5	99.9	100.8
2003	64	1534	-339	-16.3	-12.5	-0.04	-0.01	102.0	3.04	0.3	-0.9	0.3	0.4	1.6	100.1	99.6	100.0
2004	74	1555	-361	-15.7	-11.4	-0.01	0.01	103.2	3.03	0.1	-1.2	0.1	0.2	0.7	100.0	100.0	101.1
2005	76	1655	-200	-7.4	-8.6	0.01	-0.02	103.7	3.00	0.3	-0.0	0.3	0.6	0.7	100.5	100.7	101.3
2006	86	1679	-237	-10.6	-8.0	-0.01	0.00	103.7	2.99	1.5	0.5	1.7	1.1	1.5	100.9	100.4	100.1
2007	66	1704	-225	-9.1	-6.7	-0.00	0.01	103.4	3.03	1.7	0.1	1.3	1.7	1.7	101.1	100.6	101.4
2008	48	1834	-143	-2.7	-4.1	0.04	0.01	103.2	2.97	3.8	1.5	3.2	2.9	3.1	102.4	100.6	100.4
2009	50	1802	-88	-3.8	-3.3	0.00	-0.00	102.5	2.97	3.2	2.5	2.2	2.6	2.5	101.4	100.6	100.3
2010	39	1931	-40	3.3	-0.2	0.07	0.02	104.0	2.97	4.8	2.6	3.8	4.1	3.0	101.9	99.3	99.8

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.

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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
2000	110	1464	-367	-15.5	-13.4	-0.01	-0.01	103.3	2.99	-3.0	-2.9	-2.0	-2.9	-1.2	100.2	102.4	100.6
2001	118	1442	-306	-15.8	-12.4	-0.05	-0.03	102.9	3.03	-3.1	-2.5	-2.0	-3.0	-0.7	99.3	101.4	100.7
2002	108	1521	-192	-12.7	-9.4	-0.07	-0.04	103.3	3.01	-2.0	-1.3	-2.1	-1.7	0.1	99.6	101.3	100.1
2003	100	1524	-270	-13.9	-11.4	-0.04	-0.03	102.6	2.98	-1.6	-1.6	-0.7	-1.5	-0.4	100.4	101.1	100.4
2004	95	1634	-197	-8.9	-7.3	-0.01	-0.01	103.3	2.99	-0.0	-0.8	-0.2	0.2	0.3	100.7	100.3	99.6
2005	105	1548	-391	-14.7	-11.7	0.02	0.02	104.4	2.94	-1.4	-2.1	-0.4	-1.1	-0.7	100.6	100.3	100.6
2006	123	1687	-164	-6.6	-6.2	0.00	-0.01	103.4	2.96	0.5	-0.2	0.2	0.7	0.6	101.1	100.8	100.4
2007	142	1715	-199	-3.9	-4.9	0.06	0.03	104.0	2.96	0.5	-0.6	-0.1	0.7	0.7	101.0	100.8	100.6
2008	127	1815	-101	2.0	-0.8	0.09	0.04	103.6	2.90	1.1	0.3	0.5	0.9	1.1	101.6	101.2	101.0
2009	146	1889	77	5.6	4.1	0.04	0.02	103.3	2.91	1.6	0.6	1.5	1.6	0.5	101.6	100.2	100.2
2010	94	1930	82	6.8	5.0	0.05	0.03	103.0	2.94	2.7	1.6	2.6	2.4	0.7	101.7	99.9	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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Quebec

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2000	3205	1451	-334	-16.5	-13.6	-0.04	-0.03	100.5	3.06	-1.9	-1.7	-1.3	-2.0	-0.2	100.1	101.6	101.2
2001	3531	1479	-236	-12.9	-10.4	-0.05	-0.03	100.4	3.09	-1.9	-2.1	-1.1	-1.8	-0.4	99.3	100.8	100.9
2002	3556	1575	-153	-9.3	-6.6	-0.04	-0.02	100.2	3.04	-0.9	-0.7	-0.8	-1.0	0.1	100.1	101.0	100.6
2003	3422	1590	-151	-8.8	-6.9	-0.04	-0.02	99.7	3.02	-0.3	-0.9	0.0	-0.4	-0.1	100.4	100.4	100.2
2004	3403	1635	-104	-6.9	-4.3	-0.04	-0.01	99.5	3.03	0.2	-0.4	0.5	-0.1	0.4	100.5	99.9	100.1
2005	3270	1732	-0	0.2	-0.0	0.00	0.00	99.9	3.01	0.6	0.1	0.6	0.3	0.6	100.8	100.0	100.4
2006	3108	1776	42	1.1	1.1	-0.01	-0.00	99.5	3.00	1.4	0.8	0.9	1.2	0.9	101.1	100.2	100.0
2007	3038	1848	95	4.9	4.0	0.02	0.01	99.7	2.99	1.9	1.0	1.0	1.8	0.9	101.6	100.5	100.7
2008	3044	1961	235	9.7	8.3	0.01	0.01	99.8	2.94	2.8	1.7	2.5	2.4	0.9	102.5	100.4	100.9
2009	3071	1997	267	11.1	9.9	0.01	0.01	99.4	2.95	3.3	1.7	3.3	2.8	0.9	102.8	100.1	100.8
2010	2657	2100	366	16.2	12.9	0.02	0.01	99.7	2.92	4.4	2.3	4.2	3.7	1.3	103.5	100.2	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
2000	658	1489	-281	-13.7	-11.8	-0.03	-0.03	101.8	3.04	-2.1	-2.1	-1.4	-1.9	-0.4	100.0	101.4	101.2
2001	750	1505	-186	-10.2	-9.1	-0.04	-0.04	101.4	3.05	-2.3	-2.2	-1.3	-2.3	-0.4	99.4	100.8	101.0
2002	769	1597	-103	-8.1	-6.3	-0.05	-0.04	101.6	3.02	-1.0	-1.0	-0.8	-0.9	0.1	100.3	100.9	101.1
2003	661	1593	-127	-8.1	-6.9	-0.04	-0.04	101.2	3.02	-0.8	-1.0	-0.2	-0.9	0.0	100.2	100.6	100.6
2004	668	1594	-175	-9.4	-7.0	-0.03	-0.01	100.6	3.04	-0.3	-0.7	0.2	-0.5	0.7	100.3	100.4	100.4
2005	587	1714	-10	-1.8	-1.5	-0.02	-0.01	100.8	3.01	0.3	-0.2	0.7	0.0	0.6	101.0	100.3	100.9
2006	558	1744	34	-0.9	-0.2	-0.03	-0.02	100.3	3.01	1.0	0.1	1.1	0.7	1.0	101.0	100.0	100.4
2007	532	1799	105	2.6	2.9	-0.02	-0.01	100.4	3.01	1.1	0.5	0.6	0.9	1.2	101.2	100.5	100.9
2008	549	1909	218	7.3	6.9	-0.02	-0.00	100.7	2.96	2.1	1.1	2.2	1.7	1.0	101.9	100.3	101.0
2009	550	1930	191	7.6	6.6	0.00	0.00	101.0	2.94	2.5	1.2	2.2	2.2	1.1	102.3	100.3	100.9
2010	404	2011	310	12.3	11.1	-0.00	0.01	100.7	2.94	3.0	1.5	2.9	2.6	1.2	102.5	100.0	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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Manitoba

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2000	20	1534	-217	-10.5	-9.0	-0.02	-0.02	104.0	2.98	-2.4	-2.5	-1.8	-2.3	0.0	99.6	101.2	101.1
2001	44	1555	-128	-7.1	-6.9	-0.03	-0.04	103.1	3.01	-1.8	-1.7	-1.6	-1.7	-0.1	99.0	100.1	100.4
2002	38	1562	-186	-8.8	-6.9	-0.02	-0.01	101.9	3.04	-1.7	-1.7	-2.1	-1.1	-0.2	100.0	100.7	101.4
2003	44	1650	-108	-5.0	-5.5	-0.01	-0.02	103.1	2.94	-0.6	-1.8	-1.8	0.1	-0.1	100.7	100.8	100.7
2004	39	1669	-91	-3.3	-2.8	0.01	0.00	102.3	2.98	-0.1	-0.7	0.3	-0.3	-0.6	99.8	99.1	99.6
2005	35	1663	8	-2.3	-0.7	-0.04	-0.01	101.7	2.99	-0.8	-0.8	-0.9	-0.6	0.1	100.1	98.9	100.4
2006	48	1736	15	-0.5	-0.8	-0.01	-0.02	101.3	2.96	0.2	-0.3	0.5	-0.2	0.4	101.2	100.8	100.9
2007	22	1787	-4	2.3	1.5	0.03	0.02	102.2	2.97	1.0	0.7	-0.8	1.1	1.5	101.0	100.4	101.4
2008	26	1885	97	5.0	3.7	0.02	0.01	102.2	2.95	2.9	1.5	1.7	2.5	2.0	101.7	99.9	101.0
2009	27	2012	317	13.4	11.7	0.01	0.01	101.4	2.85	2.0	0.6	2.4	1.7	-0.7	102.7	100.0	101.2
2010	17	2046	296	13.2	11.6	0.02	0.02	100.6	2.88	3.3	0.8	3.6	3.2	1.0	103.4	99.1	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.
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Saskatchewan

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2000	32	1405	-563	-22.3	-19.3	0.00	-0.00	101.9	3.06	-0.8	-0.8	-1.2	-1.1	1.5	99.6	101.4	101.5
2001	35	1521	-382	-14.5	-14.2	0.02	-0.02	104.1	3.03	-1.1	-1.6	-0.3	-1.1	-0.1	99.8	101.6	100.1
2002	15	1415	-491	-20.8	-17.1	-0.01	-0.01	102.7	3.08	-1.0	-1.1	-0.9	-1.2	0.9	98.7	100.6	98.7
2003	8	1483	-716	-24.0	-19.0	0.07	0.07	103.6	3.08	1.0	-0.6	1.1	0.0	2.3	99.9	101.5	98.4
2004	1	1383	-976	-45.0	-27.0	-0.08	0.08	107.0	3.13	1.0	-1.0	4.0	-1.0	2.0	99.0	105.0	101.0
2005	2	1366	-783	-39.5	-26.0	-0.13	0.01	101.5	3.02	2.0	-0.5	4.5	-1.0	3.5	102.0	100.5	99.0
2007	1	1703	-273	-10.0	-15.0	0.01	-0.09	111.0	2.82	4.0	4.0	1.0	3.0	3.0	100.0	99.0	101.0
2008	5	1554	-143	-12.0	-8.4	-0.08	-0.05	106.0	2.97	-2.2	-2.8	0.8	-3.6	-1.6	98.6	102.3	99.5

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
2000	63	1264	-666	-31.2	-24.8	-0.06	-0.03	105.9	3.05	-3.9	-3.7	-2.9	-3.6	-1.6	99.3	103.1	99.8
2001	46	1352	-359	-23.5	-15.9	-0.13	-0.05	104.8	3.07	-4.0	-2.9	-2.2	-4.1	-1.3	98.5	102.2	101.8
2002	50	1322	-506	-23.5	-19.4	-0.05	-0.03	104.6	3.02	-4.2	-3.6	-2.9	-4.3	-1.0	99.4	102.4	99.6
2003	50	1304	-588	-30.2	-22.7	-0.09	-0.04	104.4	3.04	-2.8	-3.2	-2.2	-2.4	-0.5	99.7	102.3	99.5
2004	57	1509	-418	-18.7	-14.6	-0.03	-0.01	103.3	2.98	-0.5	-1.3	-0.6	-0.6	0.7	100.9	101.2	99.8
2005	41	1562	-221	-15.6	-11.5	-0.10	-0.05	105.5	2.95	-0.6	-1.6	-0.1	-0.8	-0.8	100.5	101.1	99.8
2006	48	1609	-323	-10.0	-9.0	0.04	0.03	103.5	3.00	-0.6	-1.3	-0.5	-0.4	0.4	100.5	101.5	99.8
2007	44	1605	-171	-10.5	-8.0	-0.05	-0.03	102.4	3.00	-0.4	-0.6	-0.4	-0.1	0.6	100.3	101.5	100.3
2008	39	1598	-251	-13.7	-10.3	-0.05	-0.02	103.7	2.97	0.1	-0.6	0.3	0.1	-0.2	100.7	101.0	100.7
2009	36	1841	52	4.6	2.6	0.03	0.01	103.4	2.93	1.0	0.3	1.1	0.8	0.5	101.5	100.1	100.9
2010	28	1847	7	0.5	2.4	0.00	0.03	102.3	2.98	2.0	0.4	2.1	1.3	1.0	101.8	101.2	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.
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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
2000	82	1486	-398	-17.5	-15.7	-0.02	-0.03	106.4	2.95	-1.9	-2.1	-2.0	-2.0	-0.5	100.4	102.6	101.4
2001	84	1572	-126	-11.1	-8.0	-0.08	-0.05	107.2	2.94	-2.8	-2.4	-1.7	-2.9	-1.4	99.8	102.5	101.6
2002	93	1593	-81	-10.2	-6.2	-0.09	-0.05	105.4	2.96	-2.2	-1.6	-1.8	-2.3	-1.2	100.0	102.8	101.0
2003	91	1581	-227	-14.5	-9.4	-0.07	-0.02	104.9	2.94	-1.3	-1.9	-0.6	-1.5	-1.3	100.8	102.2	100.4
2004	73	1622	-118	-9.8	-7.3	-0.07	-0.04	105.1	2.97	-1.2	-1.3	-0.6	-1.3	0.0	100.7	101.9	100.8
2005	67	1651	-108	-5.4	-6.2	-0.01	-0.03	105.6	2.93	-1.1	-0.9	-0.4	-2.0	0.0	100.4	101.8	99.5
2006	55	1730	-39	-3.2	-3.0	-0.02	-0.02	104.7	2.91	-0.2	-0.6	-0.2	-0.4	-0.1	100.9	102.1	99.8
2007	65	1783	55	0.6	1.5	-0.02	-0.00	102.9	2.96	0.4	0.3	0.1	-0.1	0.2	101.0	101.7	100.9
2008	63	1883	180	6.9	5.2	-0.00	-0.01	104.0	2.90	0.7	0.7	1.0	0.1	1.0	101.7	101.3	101.8
2009	82	1886	89	2.8	3.2	-0.01	0.00	103.7	2.94	2.1	0.8	2.6	1.8	0.2	101.6	100.3	100.3
2010	54	1987	214	9.8	6.0	0.02	-0.02	103.4	2.94	3.5	1.6	3.3	2.7	1.2	102.3	100.8	101.3

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.