

**Provincial genetic trends by birth year for Brown Swiss 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
2012	1	997	-110	2.0	1.0	0.07	0.05	104.0	100.0	-5.0	-4.0	-4.0	-5.0	-1.0	99.0	102.0	99.0
2013	1	1091	-473	-11.0	-15.0	0.11	0.04	97.0	98.0	6.0	3.0	7.0	4.0	5.0	107.0	103.0	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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Nova Scotia

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	7	944	-219	-1.6	-6.0	0.09	0.03	98.6	97.1	-1.4	-0.1	0.9	-3.0	1.3	99.3	102.0	101.6
2009	8	1011	-97	4.4	-0.5	0.10	0.04	101.0	99.6	-1.5	0.0	0.3	-2.6	1.8	99.5	98.9	101.4
2010	12	825	-319	-9.3	-10.0	0.04	0.02	101.8	97.4	-0.5	0.4	0.5	-1.5	0.2	99.0	98.8	101.2
2011	5	901	-352	-10.2	-10.8	0.06	0.04	103.8	98.8	-1.2	-0.6	0.4	-2.0	0.4	100.2	102.0	102.0
2012	11	998	-90	1.1	-0.6	0.06	0.03	99.8	98.5	-0.4	1.5	2.3	-2.0	1.4	99.4	99.9	101.6
2013	7	1011	-271	-1.7	-6.9	0.11	0.04	102.4	99.7	0.7	1.7	1.0	-0.4	1.4	100.0	101.5	101.0
2014	8	1096	117	4.9	1.3	0.00	-0.03	99.0	99.9	0.4	0.6	1.5	0.3	1.0	100.8	99.9	103.1
2015	4	1193	-67	0.5	7.5	0.04	0.11	100.8	101.8	2.0	2.3	1.3	2.0	0.3	101.5	100.3	97.5
2016	7	1203	279	8.3	8.3	-0.03	-0.03	102.4	100.4	1.9	2.4	1.0	1.7	0.0	100.7	100.8	99.0
2017	2	1323	92	-2.5	9.0	-0.08	0.06	96.5	103.5	6.0	2.5	4.5	6.0	4.0	105.0	101.0	105.0
2018	5	1350	-101	12.0	6.0	0.19	0.11	99.2	101.6	4.6	4.0	3.0	2.2	3.6	103.4	103.3	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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New Brunswick

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	3	997	446	8.7	4.0	-0.11	-0.14	101.0	105.3	-5.3	-5.7	-0.7	-6.7	-1.3	99.0	99.3	99.0
2009	4	1143	-161	2.3	-2.0	0.11	0.05	99.0	102.5	-2.5	-3.3	-1.5	-3.0	-1.0	103.8	106.5	104.5
2010	6	913	-504	-11.7	-14.5	0.11	0.06	101.3	102.3	-0.8	-0.2	0.3	-2.2	1.0	101.7	101.5	103.8
2011	2	934	259	-2.5	3.0	-0.15	-0.08	100.5	100.5	-0.5	-0.5	4.5	-1.5	-1.0	98.5	91.0	93.0
2012	8	1169	73	5.1	3.9	0.03	0.01	102.4	101.5	-0.9	-1.9	-1.0	-0.4	0.0	101.9	101.8	102.0
2013	11	1188	-35	5.5	6.4	0.08	0.08	99.8	100.9	-1.8	-2.9	0.5	-1.5	-1.0	102.2	102.0	103.0
2014	9	1137	78	-2.6	7.2	-0.06	0.04	100.9	99.8	-0.8	-3.2	0.6	-0.8	0.3	101.9	101.6	99.9
2015	17	1114	30	2.8	5.7	0.03	0.05	98.7	100.7	-1.9	-1.9	-0.4	-1.9	-0.8	100.6	101.6	101.3
2016	14	1258	192	7.8	9.0	0.00	0.02	99.4	101.3	-0.4	-1.6	0.7	-0.5	0.9	102.7	103.3	102.2
2017	13	1250	212	9.2	10.6	0.01	0.03	99.4	102.0	0.5	-0.2	0.8	-0.5	0.9	101.8	102.3	101.9
2018	9	1370	325	12.1	15.4	-0.02	0.03	98.8	101.7	3.0	2.6	1.6	2.0	3.6	102.8	102.3	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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Quebec

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	362	886	-227	-6.6	-8.2	0.04	0.01	100.1	99.3	-2.8	-1.9	-0.5	-3.4	0.0	99.9	101.7	101.3
2009	388	876	-143	-6.0	-7.1	0.00	-0.01	100.0	98.5	-2.6	-1.6	-0.9	-2.9	-0.7	99.2	101.2	100.4
2010	365	962	-63	-3.6	-3.7	-0.01	-0.01	100.4	99.3	-1.9	-1.4	-0.2	-1.9	-0.3	100.4	101.6	101.5
2011	381	976	-67	-2.3	-2.7	0.01	0.00	100.6	98.9	-1.6	-0.9	0.1	-1.8	-0.5	99.9	101.6	100.4
2012	372	951	-87	-2.7	-3.0	0.01	0.01	99.9	99.2	-1.7	-1.0	-0.2	-1.7	-0.5	99.4	100.3	99.3
2013	348	1039	-27	0.1	-0.2	0.02	0.01	99.9	99.6	-0.9	-0.6	1.0	-1.3	-0.0	100.5	101.0	100.2
2014	313	1057	-1	-0.3	0.3	0.00	0.01	100.1	100.2	-0.2	-0.3	0.9	-0.5	0.3	100.6	100.8	100.6
2015	340	1120	58	2.4	1.8	0.00	-0.00	99.7	101.1	0.3	-0.1	0.7	0.2	1.2	101.5	101.3	100.8
2016	312	1156	92	4.4	4.7	0.01	0.01	99.6	100.8	0.7	0.4	0.9	0.2	0.9	101.3	101.3	100.7
2017	304	1231	209	9.0	9.3	0.01	0.01	99.3	101.3	0.9	0.7	0.8	0.3	1.4	101.4	101.7	100.6
2018	289	1279	255	11.6	11.2	0.02	0.02	98.8	101.3	1.5	1.1	1.4	1.0	1.8	101.8	101.7	100.8

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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Ontario

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	317	894	-139	-3.7	-5.7	0.03	-0.00	100.8	98.7	-3.1	-2.2	-1.1	-3.5	0.2	99.2	100.8	101.5
2009	276	932	-65	-2.1	-4.2	0.01	-0.02	100.6	98.7	-2.2	-1.5	-0.9	-2.6	0.1	99.4	100.9	101.2
2010	270	1012	-35	1.9	-0.3	0.04	0.01	101.5	100.4	-2.4	-1.7	-0.8	-2.6	-0.2	99.8	100.7	101.3
2011	263	966	-59	-2.5	-2.5	0.00	0.00	100.5	99.3	-1.8	-1.2	-0.2	-2.0	0.0	99.8	100.8	100.6
2012	276	1046	5	1.3	1.1	0.02	0.01	100.8	99.5	-1.1	-0.7	0.2	-1.4	0.1	100.1	100.9	100.9
2013	209	1056	30	1.8	0.2	0.01	-0.01	100.3	99.9	-0.6	-0.5	0.3	-0.6	-0.1	100.3	101.1	100.9
2014	270	1094	46	3.2	2.3	0.02	0.01	100.4	100.3	-0.7	-0.4	0.2	-0.8	-0.0	100.7	100.9	101.1
2015	217	1164	130	7.6	5.0	0.03	0.00	100.8	100.8	0.3	0.4	0.8	-0.1	0.8	100.7	101.0	101.0
2016	208	1161	147	6.5	5.8	0.00	0.00	99.8	100.8	0.3	-0.2	0.5	-0.0	0.6	100.8	101.1	100.0
2017	169	1264	237	11.8	10.1	0.02	0.01	100.1	101.6	0.8	0.7	0.8	0.4	1.0	101.5	101.7	100.8
2018	120	1323	327	13.8	13.3	0.00	0.01	99.5	101.8	1.8	1.5	1.2	1.3	1.5	101.7	101.6	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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Manitoba

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2008	92	833	-283	-9.3	-10.9	0.03	0.00	100.1	98.4	-1.8	-0.7	-0.9	-2.4	2.3	98.5	100.9	102.0
2009	81	855	-229	-8.5	-10.5	0.02	-0.01	100.5	98.5	-1.6	-1.0	-0.4	-2.3	1.5	99.1	101.4	101.1
2010	77	823	-199	-11.6	-10.6	-0.03	-0.03	101.6	98.6	-1.8	-1.1	-0.8	-2.2	1.6	99.1	101.5	102.0
2011	78	953	-164	-3.4	-6.9	0.04	-0.00	100.4	99.2	0.4	1.0	0.8	-0.2	1.3	99.4	100.5	100.4
2012	91	895	-159	-9.0	-9.1	-0.02	-0.03	101.3	99.6	-0.5	-0.1	0.1	-1.0	1.2	99.9	101.4	101.5
2013	83	950	-132	-6.0	-6.3	-0.00	-0.01	100.5	99.3	0.6	0.9	0.6	0.2	1.8	99.8	100.5	102.2
2014	60	968	-101	-5.9	-5.8	-0.02	-0.02	101.7	100.4	-0.2	-0.2	0.4	-0.3	0.3	100.4	100.8	101.7
2015	67	994	-102	-6.1	-5.9	-0.02	-0.02	100.3	99.9	1.6	1.4	0.9	1.4	2.3	100.8	102.2	101.3
2016	74	1084	-5	0.9	-1.3	0.02	-0.01	101.5	100.6	1.0	1.2	0.3	0.9	1.3	100.9	102.1	102.1
2017	75	1121	29	-0.4	1.2	-0.01	0.01	100.5	101.1	1.7	1.2	1.1	1.4	1.4	101.6	102.1	101.1
2018	59	1187	102	3.8	5.4	0.00	0.02	100.6	101.9	1.4	0.3	1.0	1.5	0.6	101.8	102.2	102.5

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
2008	4	833	271	-2.0	-5.3	-0.15	-0.16	101.8	96.3	-3.5	-0.3	-1.3	-4.3	-1.3	97.3	105.5	.
2009	2	866	107	-1.0	-5.0	-0.06	-0.09	99.0	101.0	-8.0	-6.0	-2.5	-8.0	2.5	99.5	.	.
2010	1	963	247	-19.0	5.0	-0.33	-0.05	96.0	103.0	1.0	2.0	5.0	0.0	0.0	101.0	98.0	101.0
2011	3	846	-99	-4.7	-1.7	-0.00	0.02	101.0	97.7	-2.3	0.0	2.7	-3.7	-1.7	96.7	97.5	96.5
2012	4	885	-5	-10.0	-9.0	-0.08	-0.09	103.3	103.0	-2.0	-2.8	-1.0	-1.8	-1.0	100.3	101.0	101.0
2013	2	882	-139	-9.5	-7.5	-0.05	-0.03	101.5	99.0	1.0	1.0	0.0	1.0	-1.0	98.0	99.0	.

Notes:

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2. Production in kg EBV units and conformation in EBV points.
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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	29	898	205	-2.6	-0.6	-0.12	-0.09	100.5	99.0	-2.7	-1.8	-0.6	-2.9	1.4	97.6	98.2	97.8
2009	39	850	26	-5.7	-3.2	-0.08	-0.04	100.6	97.8	-3.6	-2.2	-2.1	-3.7	-0.3	97.7	100.2	97.4
2010	20	956	100	-4.0	-3.3	-0.08	-0.07	99.7	100.5	-2.9	-2.5	-1.4	-2.5	0.2	100.7	101.3	100.4
2011	11	932	187	-5.3	-3.2	-0.14	-0.11	100.1	99.9	-4.0	-2.0	-0.8	-4.6	2.5	100.6	103.7	101.7
2012	10	1041	244	1.4	5.3	-0.10	-0.04	100.0	96.6	-2.0	-0.8	-0.1	-2.2	1.5	99.8	102.1	100.8
2013	14	1070	111	2.6	3.4	-0.02	-0.00	100.4	101.9	-2.7	-1.9	-1.4	-2.6	0.1	100.6	101.0	99.1
2014	9	1199	112	8.9	7.9	0.05	0.04	100.2	100.9	-1.4	-2.1	-1.1	-2.0	2.3	101.6	101.3	97.6
2015	7	1182	24	4.1	1.7	0.04	0.01	100.1	102.0	-0.7	-1.9	1.1	-0.4	1.6	103.3	103.2	104.4
2016	4	1246	385	14.0	15.0	-0.05	-0.01	100.5	102.0	0.5	0.5	0.8	0.0	0.5	99.8	98.3	98.0
2017	4	1288	163	8.5	7.8	0.03	0.02	103.0	104.0	-1.8	-4.3	-0.5	-1.0	1.5	104.8	101.0	102.5
2018	7	1309	317	14.1	14.0	0.01	0.01	100.3	101.4	0.0	-0.4	2.1	-1.0	2.9	102.0	100.3	100.8

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
2008	22	736	-343	-16.3	-14.6	-0.02	-0.01	100.6	95.9	-1.0	-0.1	-0.2	-2.0	1.9	98.4	101.9	102.3
2009	31	862	-72	-9.7	-7.1	-0.07	-0.04	101.6	98.1	-0.2	1.7	0.5	-0.7	1.1	98.5	100.9	100.2
2010	41	829	-181	-7.2	-10.2	-0.00	-0.03	101.8	98.3	-0.3	1.2	0.0	-0.9	1.3	97.9	97.9	97.8
2011	18	967	-2	-5.4	-2.9	-0.06	-0.03	102.9	100.2	-0.6	0.3	0.7	-0.9	0.1	99.8	101.3	101.2
2012	35	1066	-152	-4.8	-2.9	0.03	0.04	101.8	100.5	0.7	-0.5	0.5	0.9	1.9	101.6	101.9	101.5
2013	28	1040	22	-3.5	-0.3	-0.05	-0.01	102.2	99.8	0.9	1.4	0.6	0.3	1.3	100.7	102.1	102.3
2014	48	968	-102	-7.1	-5.1	-0.03	-0.01	100.0	99.8	0.5	0.4	0.1	0.3	0.5	100.5	101.9	100.9
2015	74	987	-122	-4.5	-4.3	0.01	0.00	100.9	100.0	-0.3	-0.1	-0.2	-0.6	1.3	100.6	101.9	101.5
2016	26	1109	35	-1.7	1.6	-0.03	0.01	100.5	101.0	1.4	1.1	1.2	1.0	1.5	101.8	101.4	100.5
2017	28	1047	16	-2.1	-0.6	-0.02	-0.01	101.3	100.4	1.5	1.5	0.1	1.1	1.3	100.4	100.9	98.0
2018	18	1238	280	8.2	8.5	-0.03	-0.02	99.7	101.0	3.3	2.4	3.1	2.8	1.4	101.2	99.8	99.3

Notes:

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