

**Provincial genetic trends by birth year for Brown Swiss cows
Lactanet Canada, August 2020**

Prince Edward Island

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2012	1	1004	-80	3.0	2.0	0.07	0.05	104.0	100.0	-4.0	-4.0	-4.0	-5.0	-1.0	99.0	102.0	99.0
2013	1	1092	-388	-8.0	-12.0	0.10	0.03	97.0	98.0	6.0	3.0	7.0	5.0	5.0	106.0	102.0	105.0

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
2007	6	856	-67	-8.5	-5.2	-0.06	-0.02	102.8	103.2	-4.5	-2.0	0.0	-6.0	-1.0	100.2	101.8	99.2
2008	7	954	-198	-0.6	-5.4	0.09	0.03	97.7	97.1	-1.1	0.3	1.1	-2.6	1.7	99.6	102.3	101.7
2009	8	1031	-62	6.3	0.5	0.11	0.03	100.6	99.5	-1.4	0.1	0.3	-2.5	2.4	99.9	99.1	101.7
2010	12	852	-276	-7.4	-8.5	0.04	0.02	101.3	97.7	0.1	0.6	0.8	-0.9	0.8	99.5	99.2	101.3
2011	5	910	-329	-9.2	-10.0	0.06	0.03	103.2	98.8	-0.8	-0.4	0.4	-1.4	0.6	100.4	102.8	102.2
2012	11	1030	-56	2.8	0.7	0.06	0.03	99.2	98.6	0.1	1.8	2.5	-1.4	1.6	100.0	100.0	101.6
2013	7	1020	-235	-0.1	-5.7	0.12	0.04	101.9	99.9	1.1	1.7	0.9	-0.3	1.9	100.1	101.7	100.8
2014	8	1118	159	6.8	3.1	0.00	-0.03	98.6	99.9	0.9	0.6	1.5	0.3	1.4	101.0	100.1	103.3
2015	4	1152	-76	0.8	7.0	0.05	0.10	100.5	101.8	2.0	2.8	0.8	2.0	0.3	100.8	99.0	97.5
2016	7	1180	258	6.9	7.3	-0.03	-0.03	101.9	100.1	1.7	2.0	1.0	1.6	0.7	100.7	102.3	99.0
2017	1	1286	357	-4.0	11.0	-0.21	-0.03	97.0	104.0	4.0	0.0	5.0	3.0	5.0	106.0	101.0	105.0

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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New Brunswick

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2007	2	1078	17	16.5	9.5	0.18	0.09	101.0	99.5	-4.0	-0.5	-2.5	-2.0	-8.0	96.5	98.0	99.5
2008	3	993	463	9.3	4.7	-0.11	-0.14	100.7	104.7	-4.7	-5.0	-0.3	-6.7	-1.3	99.0	99.3	99.0
2009	4	1169	-133	3.8	-1.3	0.11	0.05	98.5	102.3	-2.3	-2.8	-1.3	-2.3	-0.8	104.3	106.8	104.5
2010	5	941	-411	-6.0	-11.2	0.13	0.05	100.6	102.6	-1.6	-0.6	0.0	-3.0	0.6	101.8	101.4	103.6
2011	2	949	302	0.0	4.5	-0.14	-0.08	100.0	100.5	0.0	-0.5	5.0	-1.5	-1.5	98.5	91.0	93.0
2012	8	1180	100	6.3	4.8	0.03	0.01	102.3	101.3	-0.3	-1.6	-0.6	-0.1	0.3	101.9	102.0	102.3
2013	11	1204	-11	6.6	7.1	0.08	0.08	99.4	100.9	-1.5	-2.7	0.5	-1.2	-0.6	102.5	102.1	103.2
2014	9	1137	106	-1.7	8.2	-0.07	0.04	100.2	99.6	-1.0	-3.3	0.6	-0.7	0.4	101.9	101.6	100.1
2015	17	1136	65	3.5	6.9	0.02	0.05	98.4	100.5	-1.6	-2.2	-0.2	-1.5	-0.4	101.1	101.9	101.6
2016	13	1263	191	8.4	9.0	0.01	0.02	99.1	102.2	-0.2	-1.5	0.2	-0.4	1.5	103.2	103.8	102.4
2017	13	1201	145	5.2	7.9	-0.00	0.02	98.8	101.8	0.7	-0.2	0.8	-0.2	1.4	102.2	102.7	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.
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Quebec

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2007	378	869	-144	-4.8	-6.3	0.02	-0.00	100.1	98.9	-3.7	-2.0	-1.0	-4.2	-0.5	99.5	102.2	100.9
2008	361	895	-205	-5.2	-7.3	0.04	0.01	99.5	99.3	-2.5	-1.8	-0.3	-3.0	0.3	100.2	101.9	101.4
2009	387	886	-120	-4.5	-6.2	0.01	-0.01	99.4	98.6	-2.3	-1.5	-0.8	-2.5	-0.4	99.5	101.5	100.5
2010	364	977	-39	-2.2	-2.7	-0.00	-0.01	99.9	99.3	-1.5	-1.3	-0.0	-1.5	-0.0	100.7	101.8	101.6
2011	380	988	-43	-1.0	-1.8	0.01	-0.00	100.1	98.9	-1.2	-0.8	0.4	-1.5	-0.3	100.2	101.8	100.5
2012	369	962	-64	-1.6	-2.2	0.01	0.00	99.4	99.2	-1.3	-0.9	0.1	-1.4	-0.2	99.8	100.4	99.5
2013	341	1057	4	1.5	1.0	0.02	0.01	99.5	99.6	-0.5	-0.4	1.3	-1.0	0.2	100.7	101.3	100.5
2014	302	1071	25	0.8	1.3	0.00	0.01	99.8	100.1	0.2	-0.2	1.1	-0.1	0.6	100.9	101.0	100.6
2015	331	1140	88	4.2	3.3	0.01	0.00	99.4	101.0	0.6	0.1	0.7	0.4	1.6	101.7	101.4	100.8
2016	291	1171	143	6.1	5.6	0.00	0.00	99.3	100.9	0.9	0.4	0.7	0.4	1.2	101.5	101.6	100.4
2017	246	1237	254	10.7	10.1	0.00	0.00	99.1	101.2	0.9	0.5	0.6	0.5	1.4	101.4	101.8	100.3

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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Ontario

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2007	287	904	-105	-1.6	-4.1	0.03	0.00	100.0	98.5	-3.1	-1.9	-1.3	-3.6	-0.3	99.1	101.8	101.1
2008	317	905	-120	-2.3	-4.9	0.03	-0.00	100.3	98.7	-2.8	-2.1	-0.8	-3.2	0.5	99.5	101.1	101.6
2009	276	944	-45	-0.8	-3.5	0.02	-0.02	100.1	98.7	-1.9	-1.4	-0.7	-2.3	0.3	99.7	101.2	101.2
2010	270	1026	-13	3.1	0.4	0.04	0.01	101.0	100.2	-2.0	-1.6	-0.6	-2.3	0.1	100.1	101.0	101.5
2011	263	978	-36	-1.2	-1.8	0.01	-0.00	100.0	99.2	-1.4	-1.1	0.1	-1.7	0.3	100.1	101.0	100.8
2012	275	1061	31	2.7	1.9	0.02	0.01	100.4	99.5	-0.8	-0.7	0.5	-1.1	0.3	100.4	101.1	101.1
2013	208	1067	52	3.0	0.9	0.01	-0.01	99.8	99.8	-0.3	-0.3	0.7	-0.3	0.3	100.6	101.2	101.1
2014	268	1107	69	4.4	3.2	0.02	0.01	100.0	100.2	-0.3	-0.3	0.4	-0.6	0.3	101.0	101.1	101.2
2015	215	1180	153	8.4	6.2	0.02	0.00	100.6	100.7	0.8	0.7	1.0	0.2	1.2	101.0	101.1	101.1
2016	202	1163	169	7.3	6.4	0.00	-0.00	99.7	100.5	0.5	-0.0	0.5	0.2	0.9	100.9	101.1	100.0
2017	150	1265	271	11.8	11.0	0.01	0.01	100.2	101.6	0.7	0.6	0.5	0.3	1.3	101.7	102.2	100.9

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.

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Manitoba

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2007	84	771	-300	-12.9	-11.8	0.00	-0.00	99.9	97.6	-1.4	-1.5	-1.1	-1.8	1.0	98.4	100.7	101.2
2008	92	836	-267	-8.1	-10.4	0.04	0.00	99.6	98.4	-1.4	-0.7	-0.7	-2.2	2.6	98.8	101.1	102.1
2009	81	856	-214	-7.5	-10.0	0.02	-0.02	99.8	98.6	-1.2	-0.9	-0.2	-2.0	1.7	99.4	101.5	101.2
2010	77	828	-175	-10.0	-9.9	-0.03	-0.03	101.0	98.6	-1.6	-1.0	-0.6	-1.9	1.9	99.3	101.8	102.1
2011	78	958	-143	-2.2	-6.2	0.05	-0.01	99.7	99.1	0.7	1.2	1.1	0.1	1.6	99.7	100.8	100.7
2012	90	911	-116	-6.9	-7.7	-0.02	-0.03	100.9	99.5	-0.2	-0.1	0.4	-0.7	1.4	100.2	101.8	101.8
2013	83	970	-87	-4.0	-4.7	-0.00	-0.01	100.1	99.1	1.1	1.1	0.9	0.6	2.3	100.2	100.7	102.4
2014	60	981	-65	-4.4	-4.6	-0.02	-0.02	101.0	100.3	0.5	0.3	0.9	0.2	0.8	100.6	100.8	102.0
2015	67	997	-104	-5.1	-5.5	-0.01	-0.01	99.6	99.8	2.3	1.6	1.4	1.7	2.8	101.2	102.1	101.2
2016	72	1081	-8	1.4	-0.8	0.02	-0.00	100.9	100.5	1.3	1.1	0.7	1.0	1.6	101.1	101.7	102.0
2017	62	1137	71	2.5	3.0	0.00	0.01	100.5	100.8	1.8	0.7	1.4	1.6	1.6	101.4	102.7	102.1

Notes:

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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
2007	6	780	-47	-12.2	-3.7	-0.11	-0.02	99.7	92.8	-2.0	-0.8	2.5	-2.5	-2.7	97.7	102.4	100.8
2008	4	848	290	-0.8	-4.8	-0.14	-0.16	100.8	96.5	-3.0	-0.3	-0.8	-3.5	-1.0	97.5	106.0	.
2009	2	852	115	0.0	-5.0	-0.05	-0.10	99.0	100.5	-8.0	-6.5	-3.5	-7.5	3.0	99.5	.	.
2010	1	959	280	-17.0	6.0	-0.33	-0.05	96.0	102.0	2.0	2.0	6.0	0.0	0.0	101.0	98.0	101.0
2011	3	856	-71	-3.3	-1.3	-0.01	0.01	100.7	97.7	-2.0	0.3	3.0	-3.0	-1.7	97.0	97.5	96.5
2012	4	894	20	-8.8	-8.8	-0.08	-0.09	103.0	102.8	-1.5	-3.3	-0.3	-1.5	-0.5	101.0	102.0	101.0
2013	2	875	-122	-8.0	-7.0	-0.04	-0.03	101.5	98.5	2.0	2.0	0.5	1.5	-1.0	98.0	99.0	.

Notes:

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Alberta

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2007	29	737	-222	-11.8	-12.7	-0.02	-0.04	98.4	97.8	-4.0	-2.6	-1.1	-4.8	0.7	99.0	102.4	102.3
2008	29	905	221	-1.5	-0.1	-0.12	-0.09	99.8	99.1	-2.4	-1.8	-0.4	-2.4	1.7	97.8	98.3	98.0
2009	39	854	38	-4.9	-2.8	-0.07	-0.04	99.8	97.8	-3.2	-1.9	-2.0	-3.3	-0.1	98.0	100.4	97.6
2010	20	956	119	-3.5	-3.4	-0.08	-0.07	99.1	100.4	-2.5	-2.7	-1.0	-2.2	0.5	101.0	101.7	100.4
2011	11	938	203	-4.5	-2.3	-0.14	-0.10	99.4	99.6	-3.5	-2.1	-0.7	-4.2	2.8	100.9	104.0	101.8
2012	10	1058	281	2.9	6.4	-0.10	-0.04	99.5	96.9	-1.7	-0.7	0.0	-2.1	1.8	100.0	102.1	101.2
2013	14	1079	128	3.5	4.4	-0.02	-0.00	100.0	101.6	-2.1	-1.7	-1.1	-2.1	0.4	100.7	101.0	99.8
2014	9	1201	122	9.3	8.8	0.05	0.04	100.0	100.8	-1.3	-1.8	-0.9	-1.8	2.4	101.7	100.9	97.8
2015	7	1187	54	5.7	3.1	0.04	0.01	99.7	101.4	-0.1	-1.7	1.4	-0.1	1.4	103.0	103.0	104.6
2016	4	1213	333	12.8	13.5	-0.04	-0.01	100.5	102.0	0.3	0.0	0.5	0.0	-0.3	99.8	98.0	98.5
2017	4	1334	280	12.5	11.5	0.02	0.02	102.3	103.5	-1.5	-4.5	-0.5	-0.8	2.0	104.3	101.3	102.5

Notes:

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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
2007	37	688	-454	-18.3	-16.9	-0.00	0.01	99.4	97.3	-1.3	-0.9	-0.8	-2.1	2.1	98.7	101.0	99.0
2008	22	738	-321	-15.0	-13.9	-0.02	-0.01	100.0	96.1	-0.8	0.0	0.0	-1.6	2.2	98.6	102.1	102.6
2009	31	873	-35	-7.9	-5.9	-0.07	-0.05	101.1	98.1	0.4	1.8	0.7	-0.5	1.5	98.8	101.0	100.5
2010	41	839	-146	-5.7	-9.0	-0.00	-0.04	101.4	98.3	0.2	1.6	0.3	-0.5	1.6	98.1	98.0	98.1
2011	18	974	19	-4.4	-1.9	-0.06	-0.03	102.2	100.1	-0.1	0.6	0.7	-0.5	0.5	100.1	101.5	102.0
2012	35	1071	-134	-3.9	-2.2	0.03	0.04	101.3	100.1	1.1	-0.5	0.8	1.1	2.4	101.7	102.4	101.9
2013	26	1063	29	-2.2	0.8	-0.03	-0.00	101.8	99.8	1.3	1.4	0.9	0.8	1.5	101.2	102.4	102.5
2014	48	984	-60	-5.4	-3.7	-0.03	-0.01	99.8	99.8	0.9	0.5	0.4	0.6	0.9	100.9	102.6	101.4
2015	73	994	-84	-3.0	-3.3	0.00	-0.00	100.4	99.9	-0.1	0.1	0.0	-0.4	1.6	100.8	102.1	101.5
2016	26	1118	57	0.6	2.4	-0.01	0.00	100.1	100.9	1.7	1.2	1.6	1.2	1.8	101.8	100.7	100.5
2017	17	998	-22	-3.6	-3.0	-0.03	-0.02	100.5	99.6	1.2	1.1	0.8	0.5	2.1	100.9	100.7	98.0

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Newfoundland

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2007	1	571	-201	-18.0	-11.0	-0.11	-0.03	100.0	94.0	-4.0	0.0	3.0	-8.0	-4.0	96.0	102.0	94.0

Notes:

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