

**Provincial genetic trends by birth year for Brown Swiss cows**  
**Lactanet Canada, August 2022**

**Prince Edward Island**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2012	1	1010	-132	0.0	0.0	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	1095	-484	-11.0	-16.0	0.11	0.03	97.0	98.0	6.0	2.0	7.0	4.0	4.0	106.0	103.0	104.0
2019	1	941	-321	-14.0	-7.0	0.00	0.05	100.0	101.0	0.0	1.0	1.0	-2.0	4.0	101.0	99.0	101.0

**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
2009	8	1006	-142	2.0	-2.5	0.10	0.04	101.0	99.4	-1.6	0.0	0.0	-2.9	1.8	99.3	99.1	101.3
2010	12	834	-352	-11.0	-11.8	0.04	0.02	101.6	97.3	-0.7	0.3	0.4	-1.4	0.1	98.9	99.2	101.3
2011	5	901	-373	-11.8	-11.8	0.05	0.03	104.0	98.6	-1.2	-0.6	0.0	-2.0	0.0	99.8	102.0	101.8
2012	11	1013	-120	-0.5	-1.9	0.06	0.03	99.4	98.5	-0.3	1.7	2.2	-1.9	1.5	99.5	100.0	101.8
2013	7	1013	-313	-3.1	-8.6	0.12	0.04	102.1	99.3	0.4	1.9	0.4	-0.3	0.7	99.7	102.0	100.8
2014	8	1087	102	3.0	0.4	-0.01	-0.04	99.3	99.3	0.3	0.4	1.4	-0.1	0.8	100.1	100.0	102.7
2015	4	1169	-127	-1.5	5.0	0.05	0.11	100.8	101.0	2.0	2.5	1.0	2.0	-0.3	100.8	100.3	98.0
2016	8	1127	111	4.3	2.1	0.00	-0.02	100.5	99.1	1.9	2.6	0.6	1.6	0.3	99.5	100.4	99.7
2017	2	1365	152	-2.5	11.5	-0.10	0.06	97.5	103.0	5.5	2.0	5.0	5.0	3.5	104.5	101.5	102.0
2018	9	1263	31	8.3	7.0	0.08	0.06	98.8	100.1	2.4	3.0	0.8	1.7	2.3	100.8	102.3	100.2
2019	7	1383	199	15.7	12.0	0.09	0.04	98.7	100.7	3.4	2.7	2.0	2.0	3.1	102.4	102.0	98.7

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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**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2009	4	1135	-199	0.5	-4.0	0.10	0.04	99.0	102.5	-3.0	-3.8	-1.5	-3.0	-1.3	103.3	106.3	104.5
2010	6	923	-535	-13.0	-16.2	0.11	0.05	101.3	102.2	-0.7	0.2	0.3	-2.0	1.3	101.5	101.5	103.8
2011	2	921	219	-4.5	1.0	-0.15	-0.08	100.0	100.0	-0.5	-0.5	4.5	-2.0	-1.0	98.0	91.0	93.0
2012	8	1169	42	3.4	2.6	0.02	0.01	102.4	101.3	-1.0	-2.0	-1.4	-0.5	-0.4	101.5	102.0	102.3
2013	11	1204	-66	3.7	4.8	0.07	0.08	99.8	100.8	-1.5	-2.8	0.4	-1.2	-0.6	102.4	102.1	103.1
2014	9	1139	64	-3.8	6.3	-0.07	0.04	100.9	99.7	-1.1	-3.3	0.3	-0.9	0.1	101.2	101.4	99.8
2015	17	1102	4	0.8	3.9	0.01	0.04	98.6	100.3	-2.0	-1.9	-0.7	-2.1	-1.1	100.3	101.4	101.2
2016	14	1255	140	5.5	6.3	-0.00	0.01	99.6	101.4	-0.1	-1.4	0.4	-0.2	1.1	102.4	103.0	101.8
2017	14	1269	182	8.9	9.5	0.02	0.03	99.0	101.9	-0.2	-0.6	0.1	-0.5	0.6	101.7	101.5	101.3
2018	9	1377	308	12.2	14.0	-0.01	0.02	97.9	101.3	2.9	2.4	1.8	2.1	2.7	102.4	101.3	101.2
2019	5	1263	226	5.0	9.0	-0.05	-0.00	96.8	100.2	2.6	1.2	0.8	2.8	1.0	101.8	99.7	100.5

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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**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2009	389	879	-176	-7.9	-8.6	-0.00	-0.02	99.9	98.4	-2.7	-1.7	-1.2	-2.8	-0.8	99.0	101.2	100.4
2010	365	966	-93	-5.4	-5.0	-0.01	-0.01	100.3	99.1	-2.0	-1.6	-0.5	-1.9	-0.4	100.2	101.7	101.5
2011	383	976	-99	-4.2	-4.3	0.00	-0.00	100.5	98.7	-1.7	-1.0	-0.1	-1.8	-0.7	99.6	101.6	100.4
2012	373	950	-119	-4.6	-4.6	0.01	0.00	99.8	99.0	-1.7	-1.0	-0.4	-1.7	-0.6	99.2	100.2	99.3
2013	352	1039	-63	-1.8	-1.8	0.01	0.01	99.7	99.5	-0.9	-0.6	0.8	-1.3	-0.2	100.3	101.0	100.2
2014	317	1056	-31	-2.1	-1.0	-0.00	0.00	100.0	99.9	-0.4	-0.5	0.7	-0.6	0.2	100.4	100.8	100.8
2015	345	1123	21	0.9	0.4	0.00	-0.00	99.6	101.1	0.2	-0.2	0.5	0.2	1.0	101.3	101.1	100.8
2016	319	1153	70	3.1	3.0	0.00	0.00	99.5	100.6	0.6	0.3	0.5	0.2	0.7	101.0	101.0	100.6
2017	309	1227	176	7.7	7.3	0.01	0.01	99.4	101.1	0.9	0.7	0.5	0.4	1.3	101.1	101.2	100.6
2018	326	1276	184	9.2	9.1	0.02	0.02	98.7	101.1	1.5	1.0	1.2	1.0	1.6	101.6	101.3	100.8
2019	242	1347	337	12.6	14.2	-0.02	0.01	100.0	102.0	1.2	0.6	0.9	0.7	1.6	102.2	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
2009	276	937	-96	-3.9	-5.6	0.00	-0.02	100.6	98.6	-2.3	-1.6	-1.2	-2.5	-0.0	99.2	100.9	101.2
2010	270	1014	-70	-0.1	-1.9	0.03	0.01	101.4	100.2	-2.4	-1.8	-1.1	-2.6	-0.3	99.7	100.7	101.3
2011	263	968	-92	-4.4	-4.1	-0.00	-0.00	100.4	99.1	-1.8	-1.3	-0.4	-1.9	-0.1	99.6	100.7	100.7
2012	276	1046	-28	-0.6	-0.5	0.01	0.01	100.7	99.4	-1.2	-0.7	-0.0	-1.4	-0.0	99.9	100.9	100.9
2013	209	1058	-7	-0.1	-1.6	0.01	-0.01	100.2	99.8	-0.6	-0.4	0.2	-0.6	-0.1	100.2	101.1	100.9
2014	270	1092	4	1.2	0.6	0.02	0.01	100.3	100.2	-0.7	-0.3	0.1	-0.8	-0.1	100.6	100.7	101.1
2015	217	1155	85	5.2	2.9	0.02	-0.00	100.6	100.5	0.3	0.4	0.6	-0.1	0.7	100.6	100.8	101.0
2016	215	1156	111	4.5	3.9	-0.00	-0.00	99.8	100.7	0.3	-0.1	0.3	0.1	0.5	100.6	100.5	100.0
2017	176	1275	210	11.0	9.2	0.03	0.01	100.3	101.6	0.8	0.5	0.5	0.4	0.8	101.2	101.2	100.5
2018	137	1300	243	11.4	10.8	0.02	0.01	99.5	101.2	1.9	1.6	1.2	1.2	1.5	101.1	100.8	100.3
2019	98	1269	210	8.4	9.8	0.00	0.02	99.3	100.7	1.1	0.7	0.4	1.0	1.2	101.3	102.2	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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**Manitoba**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2009	81	855	-267	-10.6	-12.1	0.01	-0.02	100.4	98.3	-1.6	-1.0	-0.7	-2.2	1.4	98.9	101.3	100.9
2010	77	826	-235	-13.6	-12.2	-0.04	-0.03	101.5	98.4	-1.9	-1.1	-1.1	-2.2	1.5	99.0	101.5	101.9
2011	78	952	-204	-5.6	-8.7	0.04	-0.00	100.2	98.9	0.5	1.1	0.6	-0.1	1.2	99.3	100.6	100.4
2012	91	893	-200	-11.4	-10.9	-0.03	-0.03	101.2	99.4	-0.5	-0.2	-0.1	-1.0	1.2	99.8	101.5	101.5
2013	83	950	-170	-8.1	-7.9	-0.01	-0.01	100.4	99.0	0.5	0.9	0.4	0.2	1.8	99.7	100.5	102.2
2014	60	961	-142	-8.2	-7.9	-0.02	-0.02	101.6	100.2	-0.3	-0.2	0.2	-0.2	0.1	100.2	100.7	101.6
2015	68	985	-127	-8.5	-7.4	-0.03	-0.02	100.1	99.5	1.6	1.4	0.6	1.4	2.2	100.5	101.8	101.2
2016	75	1077	-51	-0.9	-3.1	0.02	-0.01	101.4	100.2	0.9	1.0	0.0	0.9	1.0	100.6	101.3	101.5
2017	76	1110	-35	-2.6	-0.6	-0.00	0.01	100.5	100.6	1.6	1.1	0.9	1.2	1.4	101.2	101.5	100.7
2018	70	1185	75	1.3	3.7	-0.01	0.01	100.8	101.5	1.6	0.6	0.8	1.8	0.7	101.6	101.3	102.1
2019	51	1228	55	0.6	4.1	-0.02	0.02	100.5	101.4	2.8	1.5	2.0	2.9	1.2	102.7	102.4	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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**Saskatchewan**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2009	2	852	79	-3.5	-6.5	-0.07	-0.10	99.0	100.0	-8.0	-6.5	-3.5	-7.5	2.0	99.0	.	.
2010	1	966	218	-21.0	4.0	-0.34	-0.05	96.0	102.0	2.0	2.0	5.0	0.0	0.0	101.0	98.0	101.0
2011	3	841	-133	-7.0	-4.0	-0.01	0.02	101.0	97.3	-2.3	0.0	2.3	-3.3	-1.7	96.7	97.5	96.5
2012	4	884	-51	-13.0	-11.5	-0.09	-0.09	103.0	103.3	-2.0	-2.8	-1.0	-1.5	-1.0	100.3	101.0	101.0
2013	2	891	-188	-12.5	-9.5	-0.05	-0.03	101.5	98.5	1.5	1.0	0.5	1.5	-1.0	98.0	100.0	.

**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
2009	39	851	-10	-7.9	-4.8	-0.08	-0.05	100.5	97.7	-3.7	-2.2	-2.5	-3.6	-0.4	97.5	100.1	97.5
2010	20	951	64	-6.2	-5.0	-0.09	-0.07	99.6	100.3	-3.0	-2.7	-1.7	-2.5	0.1	100.5	101.1	100.3
2011	11	931	153	-7.0	-4.6	-0.15	-0.11	99.9	99.5	-4.1	-2.2	-1.4	-4.5	2.4	100.3	103.5	101.5
2012	10	1041	215	-0.2	4.0	-0.10	-0.05	100.0	96.5	-2.0	-0.8	-0.6	-2.2	1.4	99.4	102.0	100.8
2013	14	1063	82	0.9	2.0	-0.02	-0.01	100.4	101.7	-2.7	-1.9	-1.9	-2.6	-0.1	100.1	100.6	99.8
2014	10	1161	82	6.2	5.9	0.04	0.03	100.6	100.6	-1.7	-1.8	-1.5	-2.2	1.8	100.5	100.7	98.1
2015	7	1173	-10	2.3	0.6	0.04	0.01	100.0	101.9	-0.9	-2.3	0.4	-0.6	1.4	102.9	102.6	104.4
2016	4	1248	320	12.8	13.3	-0.03	-0.01	100.8	102.0	0.3	0.5	0.5	-0.3	0.3	99.8	98.0	99.0
2017	4	1266	132	5.8	6.5	0.01	0.02	104.0	103.8	-1.8	-4.5	-0.8	-1.0	1.0	104.0	100.5	102.3
2018	9	1287	276	12.2	13.2	0.01	0.01	100.1	101.2	-1.2	-1.7	1.7	-1.9	2.2	101.3	100.0	101.0
2019	5	1275	288	11.6	15.8	0.00	0.04	101.2	100.0	-1.2	0.0	1.4	-2.0	0.8	100.6	102.5	99.0

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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**British Columbia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2009	31	866	-101	-11.5	-8.5	-0.08	-0.05	101.5	97.9	-0.0	1.7	0.1	-0.8	1.0	98.3	101.1	100.4
2010	41	826	-216	-9.3	-12.0	-0.01	-0.04	101.8	98.0	-0.5	1.2	-0.4	-0.9	1.3	97.7	97.9	97.9
2011	18	967	-38	-7.7	-4.5	-0.07	-0.03	102.9	100.1	-0.7	0.1	0.4	-1.0	0.1	99.7	101.5	101.8
2012	35	1073	-179	-6.4	-3.9	0.02	0.04	101.7	100.4	0.8	-0.5	0.2	0.8	1.9	101.4	101.7	101.7
2013	29	1031	-40	-6.1	-2.3	-0.05	-0.01	102.0	99.7	0.7	1.2	0.3	0.1	1.2	100.6	101.9	102.5
2014	49	958	-147	-9.5	-7.1	-0.04	-0.01	100.0	99.3	0.4	0.2	0.0	0.3	0.3	100.3	101.8	100.9
2015	75	997	-155	-5.8	-5.8	0.01	0.00	100.6	99.8	-0.4	-0.0	-0.2	-0.5	1.1	100.5	101.8	101.8
2016	27	1103	11	-3.6	0.2	-0.04	-0.00	100.5	100.7	1.3	1.0	0.8	0.9	1.4	101.4	101.1	100.7
2017	28	1056	-27	-2.9	-2.4	-0.01	-0.01	101.4	100.1	1.4	1.5	0.1	1.1	1.0	100.4	100.9	97.4
2018	23	1237	282	6.3	7.1	-0.06	-0.03	100.1	100.9	2.7	2.0	2.7	2.3	1.3	101.3	100.0	99.9
2019	21	1233	178	6.2	7.9	-0.02	0.01	99.6	99.9	1.4	0.8	1.0	1.1	1.2	101.7	100.0	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.
3. Conformation indexes based on first lactation classifications of each cow.