

**Provincial genetic trends by birth year for Brown Swiss cows**  
**Lactanet Canada, August 2024**

**Prince Edward Island**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2012	1	996	-247	-5.0	-6.0	0.06	0.04	104.0	100.0	-5.0	-4.0	-4.0	-6.0	-1.0	98.0	102.0	99.0
2013	1	1064	-605	-17.0	-21.0	0.10	0.02	98.0	97.0	5.0	2.0	7.0	3.0	4.0	105.0	102.0	103.0
2015	1	1508	69	11.0	18.0	0.10	0.15	98.0	104.0	6.0	6.0	3.0	6.0	2.0	100.0	99.0	96.0
2019	3	1459	151	5.7	9.3	0.00	0.04	101.7	102.7	2.7	1.7	2.3	1.7	5.0	104.0	103.0	99.5
2021	1	1351	-47	-2.0	5.0	0.00	0.07	102.0	102.0	2.0	2.0	4.0	2.0	1.0	104.0	102.0	102.0

**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
2011	5	909	-484	-17.0	-17.2	0.04	0.02	105.0	98.4	-1.6	-1.0	0.0	-2.2	0.2	99.6	102.0	101.4
2012	11	994	-254	-6.6	-8.0	0.05	0.02	99.8	97.9	-1.0	1.5	1.6	-2.2	1.3	99.0	99.7	101.4
2013	7	990	-448	-8.7	-14.9	0.11	0.03	103.0	98.7	0.0	1.9	0.6	-1.1	0.7	99.1	101.4	100.7
2014	8	1065	-31	-3.1	-5.8	-0.02	-0.05	99.8	98.5	-0.4	-0.4	1.0	-0.8	0.9	99.6	99.8	103.0
2015	3	1018	-370	-13.7	-6.7	0.02	0.08	102.7	100.3	0.0	1.0	-0.3	-0.3	-1.3	99.7	99.5	98.5
2016	9	1163	71	1.8	0.4	-0.01	-0.02	101.0	98.4	1.1	1.9	0.0	1.0	0.7	99.0	99.5	99.3
2017	3	1308	-75	-6.0	5.7	-0.03	0.09	97.7	100.7	5.7	3.3	3.3	4.7	3.7	102.3	99.7	99.3
2018	10	1256	-81	3.8	1.3	0.08	0.05	98.9	100.0	2.0	2.7	0.5	0.9	2.2	100.6	101.3	99.7
2019	10	1375	127	11.7	7.2	0.08	0.03	99.7	100.9	2.0	2.0	0.5	1.3	2.3	101.5	101.0	99.0
2020	5	1132	-349	-11.2	-9.8	0.04	0.04	97.6	98.6	5.2	3.0	3.0	4.6	3.6	102.4	101.0	102.0
2021	3	1374	143	6.3	5.7	0.01	-0.00	99.3	100.7	3.3	0.7	2.0	4.3	-1.3	103.0	.	.

**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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**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	2	906	88	-10.5	-4.5	-0.15	-0.08	101.0	99.5	-1.0	-1.0	4.5	-2.5	-1.5	97.5	90.0	93.0
2012	8	1165	-91	-2.4	-3.1	0.02	0.01	103.4	100.9	-1.3	-2.3	-0.9	-1.0	-0.6	101.4	101.6	101.9
2013	11	1184	-212	-2.7	-1.2	0.07	0.07	100.5	100.4	-2.0	-3.4	0.3	-1.8	-1.0	101.9	101.8	102.7
2014	9	1139	-64	-9.8	0.6	-0.07	0.03	101.6	99.4	-1.4	-3.8	0.4	-1.4	0.0	101.1	101.4	99.6
2015	17	1091	-120	-4.5	-1.6	0.01	0.03	99.4	99.6	-2.8	-2.4	-0.8	-2.9	-1.2	99.8	101.4	100.7
2016	14	1256	49	0.4	1.9	-0.01	0.00	100.2	101.0	-0.5	-1.7	0.0	-0.9	1.3	102.1	102.6	101.6
2017	15	1224	53	1.6	2.3	-0.00	0.00	99.7	101.4	-0.6	-1.0	0.1	-1.3	0.8	101.3	100.7	101.2
2018	9	1351	162	7.1	8.3	0.01	0.02	99.4	101.7	2.0	2.4	0.9	1.0	2.1	101.7	100.0	101.0
2019	7	1290	85	0.9	3.7	-0.03	0.00	99.0	100.9	2.1	1.4	2.3	2.6	-1.6	102.4	99.3	100.8
2020	13	1240	10	-0.9	1.5	-0.02	0.01	99.1	102.7	0.8	0.1	0.5	0.7	0.9	101.4	100.3	101.0
2021	4	1226	-388	-5.3	-6.3	0.12	0.09	96.3	100.0	2.5	2.8	3.0	2.8	-0.3	103.5	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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**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	384	970	-227	-9.9	-9.8	-0.00	-0.01	101.2	98.3	-2.2	-1.3	-0.1	-2.4	-0.8	99.4	101.4	100.3
2012	375	943	-249	-10.4	-10.2	0.00	-0.00	100.4	98.6	-2.3	-1.4	-0.4	-2.4	-0.8	98.9	100.0	99.2
2013	353	1025	-196	-7.8	-7.7	0.01	0.00	100.4	99.1	-1.5	-1.1	0.8	-1.9	-0.3	99.9	100.7	100.0
2014	320	1047	-164	-8.0	-6.8	-0.01	-0.00	100.6	99.6	-0.9	-0.8	0.7	-1.3	0.1	100.1	100.7	100.6
2015	353	1108	-98	-4.8	-5.0	-0.00	-0.01	100.2	100.7	-0.5	-0.6	0.2	-0.5	0.8	100.7	100.7	100.5
2016	325	1144	-34	-2.2	-2.0	-0.01	-0.00	100.2	100.1	0.1	0.1	0.4	-0.5	0.7	100.4	100.6	100.3
2017	315	1219	64	1.7	1.9	-0.01	-0.00	99.8	100.8	0.4	0.6	0.3	-0.1	1.1	100.7	101.1	100.4
2018	343	1254	51	2.5	2.8	0.01	0.01	99.3	100.9	1.0	0.9	0.8	0.3	1.3	101.2	101.1	100.7
2019	281	1321	208	5.2	7.5	-0.04	-0.00	100.5	101.7	0.8	0.5	0.7	0.2	0.9	101.6	101.9	101.0
2020	236	1324	165	4.7	6.6	-0.02	0.00	99.6	101.7	1.5	1.3	1.1	1.0	1.1	101.8	101.4	101.0
2021	198	1321	79	6.2	7.0	0.03	0.04	99.5	100.8	1.1	0.8	0.7	0.8	0.4	101.2	102.2	101.5

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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**Ontario**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	263	963	-219	-10.0	-9.6	-0.01	-0.01	101.2	98.7	-2.4	-1.6	-0.4	-2.5	-0.2	99.3	100.5	100.5
2012	276	1039	-157	-6.4	-6.0	0.01	0.00	101.5	99.1	-1.7	-1.1	-0.1	-2.0	-0.1	99.6	100.8	100.7
2013	210	1048	-137	-6.0	-7.2	0.00	-0.02	100.9	99.3	-1.1	-0.8	0.2	-1.2	-0.3	99.8	100.9	100.7
2014	270	1084	-122	-4.4	-4.8	0.01	0.00	101.0	99.7	-1.3	-0.8	-0.0	-1.5	-0.3	100.1	100.6	100.8
2015	216	1141	-39	-0.8	-2.6	0.01	-0.01	101.4	100.2	-0.3	0.0	0.4	-0.8	0.4	100.1	100.6	100.8
2016	216	1143	-18	-1.1	-1.7	-0.00	-0.01	100.3	100.2	-0.3	-0.6	0.1	-0.6	0.4	100.0	100.2	99.5
2017	182	1250	78	4.6	3.3	0.02	0.00	101.0	101.0	0.2	0.2	0.2	-0.4	0.6	100.6	100.8	100.3
2018	147	1277	87	5.3	4.7	0.02	0.01	100.1	100.8	1.3	1.4	0.8	0.5	1.2	100.5	100.5	100.0
2019	114	1235	51	1.9	2.8	0.00	0.01	99.3	100.2	0.4	0.4	0.1	0.1	0.5	100.6	101.8	100.5
2020	127	1301	104	5.2	5.4	0.01	0.01	99.9	101.0	1.7	1.5	0.5	1.5	1.0	100.9	101.1	100.9
2021	87	1365	130	8.6	9.1	0.03	0.04	99.3	101.4	1.4	0.6	1.0	0.9	1.0	101.4	101.4	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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**Manitoba**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	78	945	-334	-11.3	-14.2	0.03	-0.01	101.0	98.5	-0.0	0.8	0.5	-0.7	1.1	99.0	100.3	100.2
2012	91	888	-329	-16.9	-16.4	-0.03	-0.03	102.1	99.1	-1.0	-0.5	-0.1	-1.5	1.2	99.4	101.1	101.2
2013	83	933	-303	-14.0	-13.7	-0.01	-0.02	101.1	98.5	0.1	0.6	0.3	-0.5	1.7	99.3	100.0	101.8
2014	60	946	-277	-14.1	-13.8	-0.03	-0.03	102.4	99.6	-0.7	-0.7	0.2	-0.8	0.1	99.8	100.3	101.4
2015	69	978	-250	-13.9	-13.0	-0.04	-0.03	100.7	99.0	1.1	1.1	0.7	0.9	2.1	100.1	101.2	100.8
2016	75	1063	-174	-6.3	-8.6	0.02	-0.02	102.1	99.7	0.3	0.6	-0.0	0.2	0.9	99.9	100.7	101.1
2017	77	1080	-177	-8.6	-6.7	-0.00	0.01	101.4	99.8	1.0	0.9	0.5	0.4	1.3	100.4	100.9	100.1
2018	76	1175	-77	-4.8	-2.5	-0.01	0.01	101.3	101.2	1.1	0.3	0.6	1.2	0.7	101.2	101.5	101.6
2019	70	1234	-36	-3.9	-0.5	-0.02	0.01	101.9	101.3	2.3	0.8	1.4	2.2	1.3	102.2	102.3	101.3
2020	49	1225	-103	-3.1	-1.6	0.02	0.02	100.9	100.9	2.8	1.5	1.8	2.4	2.0	101.8	101.1	100.8
2021	35	1259	-37	-1.2	0.2	0.01	0.01	101.3	101.2	2.7	1.5	2.1	2.6	1.0	102.1	102.2	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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**Saskatchewan**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	3	843	-263	-12.3	-9.3	-0.02	0.01	102.0	97.3	-2.7	0.0	2.3	-4.0	-1.7	96.0	97.5	96.5
2012	4	892	-168	-17.8	-16.5	-0.09	-0.10	104.5	102.8	-2.3	-3.5	-0.8	-2.0	-1.3	100.0	101.0	100.0
2013	2	877	-311	-17.5	-15.0	-0.06	-0.03	103.0	98.5	0.5	0.5	0.0	1.0	-1.0	97.0	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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**Alberta**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	11	936	31	-12.1	-9.8	-0.14	-0.11	100.5	99.4	-4.6	-2.5	-1.2	-5.2	2.5	100.1	103.0	101.2
2012	10	1034	79	-5.8	-2.0	-0.10	-0.05	100.6	96.2	-2.5	-1.2	-0.4	-3.0	1.1	99.1	101.9	101.0
2013	14	1054	-55	-4.9	-3.7	-0.02	-0.01	101.0	101.2	-3.4	-2.3	-1.6	-3.3	-0.1	99.9	100.2	99.4
2014	10	1142	-77	-0.4	-0.3	0.04	0.03	100.9	100.3	-2.4	-2.2	-1.3	-3.0	1.9	100.3	100.1	97.9
2015	7	1147	-159	-3.9	-5.9	0.04	0.00	100.7	101.3	-1.7	-2.9	0.4	-1.4	1.1	102.3	102.6	104.0
2016	4	1209	171	6.5	6.5	-0.03	-0.01	101.8	101.5	-0.5	0.3	0.5	-0.8	0.0	98.5	97.0	98.7
2017	4	1225	-51	-0.8	0.3	0.02	0.03	104.8	103.3	-3.0	-5.3	-0.5	-2.0	0.5	103.3	99.0	101.3
2018	9	1270	126	6.4	7.0	0.02	0.01	100.7	101.1	-1.7	-2.1	1.3	-2.8	1.8	100.9	99.6	100.8
2019	5	1258	188	4.6	10.2	-0.03	0.02	101.8	99.6	-1.4	-0.8	2.0	-2.0	-0.8	100.0	101.3	99.3
2020	2	1195	216	0.0	4.0	-0.06	-0.03	104.0	102.0	-2.0	-3.0	-1.0	-3.0	3.0	102.0	99.0	100.0
2021	2	1508	277	17.0	17.0	0.06	0.06	100.5	101.5	3.5	4.0	2.0	1.5	2.5	102.0	100.0	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
2011	18	948	-175	-14.2	-10.2	-0.08	-0.03	103.9	99.7	-1.1	-0.2	0.3	-1.6	-0.2	99.2	101.1	101.3
2012	36	1038	-323	-13.1	-10.3	0.01	0.03	102.5	100.0	0.2	-0.9	0.1	-0.1	1.7	100.7	101.4	101.2
2013	30	1020	-164	-11.4	-7.4	-0.05	-0.01	103.0	99.3	-0.1	0.4	0.3	-0.8	1.0	99.9	101.4	101.9
2014	49	942	-283	-15.2	-12.9	-0.03	-0.01	100.8	99.0	-0.3	-0.2	-0.2	-0.4	0.2	99.7	101.7	100.9
2015	75	986	-282	-11.6	-11.5	0.00	-0.00	101.5	99.4	-0.8	-0.3	-0.2	-1.1	1.1	100.1	101.5	101.5
2016	28	1087	-132	-9.1	-5.8	-0.03	-0.00	101.1	100.1	0.9	0.6	0.9	0.1	1.3	100.8	101.1	100.9
2017	30	1064	-100	-7.5	-6.7	-0.03	-0.03	102.1	99.9	1.2	1.4	0.0	0.3	1.1	100.0	100.8	97.3
2018	27	1204	146	-0.7	0.6	-0.07	-0.05	100.8	100.6	2.0	1.9	1.9	1.7	1.2	100.8	99.6	100.2
2019	25	1202	-9	-1.6	0.6	-0.01	0.01	99.5	100.4	0.9	1.0	-0.1	0.4	1.1	101.1	101.0	103.0
2020	30	1287	201	2.0	6.0	-0.06	-0.02	101.1	100.3	1.9	1.5	1.5	1.4	0.9	101.7	103.4	101.8
2021	25	1289	55	3.1	4.6	0.01	0.03	101.5	101.0	1.4	1.1	0.0	1.3	0.7	101.4	104.0	102.5

**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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**Newfoundland**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2021	1	1698	749	24.0	19.0	-0.08	-0.09	101.0	108.0	4.0	4.0	3.0	3.0	6.0	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.