

**Provincial genetic trends by birth year for Brown Swiss cows  
Lactanet Canada, August 2019**

**Prince Edward Island**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2012	1	1003	-88	3.0	3.0	0.08	0.06	103.0	100.0	-4.0	-4.0	-4.0	-4.0	0.0	99.0	102.0	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.

**Provincial genetic trends by birth year for Brown Swiss cows  
Lactanet Canada, August 2019**

**Nova Scotia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	12	919	66	0.1	-3.3	-0.03	-0.06	98.1	96.2	-1.3	1.3	3.0	-3.1	0.1	99.7	103.6	100.4
2007	6	848	-50	-7.5	-3.8	-0.06	-0.02	102.2	103.7	-4.3	-1.5	0.3	-5.8	-1.0	100.3	101.5	98.8
2008	7	965	-163	0.4	-3.4	0.09	0.03	97.1	97.9	-0.9	0.4	1.9	-2.6	1.7	99.9	102.1	101.4
2009	8	1029	-46	6.3	1.8	0.10	0.04	100.0	99.9	-0.9	0.3	0.8	-2.4	2.6	100.1	99.1	101.7
2010	12	833	-253	-6.8	-7.3	0.04	0.02	100.6	97.9	0.4	0.8	1.1	-0.8	0.7	99.4	98.7	101.1
2011	5	895	-319	-8.2	-9.2	0.06	0.04	102.8	99.0	-0.6	-0.2	1.0	-1.2	0.8	100.8	102.2	101.8
2012	11	1042	-12	4.2	3.0	0.06	0.04	99.0	98.9	0.5	2.0	2.8	-1.2	1.9	100.2	99.8	101.7
2013	8	1027	-217	-0.8	-4.8	0.10	0.04	101.0	99.9	2.4	2.6	2.5	0.6	2.6	101.3	101.3	101.0
2014	8	1128	159	7.5	4.5	0.01	-0.02	98.8	100.1	1.6	1.1	2.4	0.9	1.6	101.0	99.9	102.4
2015	4	1116	-61	0.3	6.5	0.04	0.09	99.8	100.8	3.3	3.3	1.8	3.0	1.0	100.8	97.7	94.0
2016	5	1114	152	5.0	5.0	-0.00	-0.01	101.2	101.0	0.6	0.6	3.0	0.0	0.4	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.

**Provincial genetic trends by birth year for Brown Swiss cows  
Lactanet Canada, August 2019**

**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	1	861	272	1.0	9.0	-0.12	-0.03	99.0	96.0	-4.0	-4.0	-1.0	-6.0	0.0	95.0	98.0	97.0
2007	1	736	-147	-2.0	3.0	0.05	0.09	101.0	99.0	-5.0	-1.0	-1.0	-2.0	-12.0	93.0	94.0	92.0
2008	3	1005	485	10.0	6.0	-0.11	-0.13	101.0	104.7	-4.3	-5.0	0.0	-6.0	-1.0	99.3	99.7	99.0
2009	4	1199	-108	5.3	0.5	0.11	0.05	98.0	102.8	-1.5	-2.3	-0.3	-1.5	-0.8	104.8	106.8	104.5
2010	4	1044	-505	-0.3	-9.5	0.23	0.10	100.8	101.5	-1.5	-2.3	0.8	-2.3	0.8	103.3	103.5	104.0
2011	2	941	401	3.0	6.5	-0.15	-0.09	100.0	100.5	0.0	-0.5	4.5	-2.0	-2.0	98.0	91.0	93.0
2012	7	1174	14	4.4	5.4	0.04	0.05	101.4	100.9	0.7	-1.3	0.7	0.7	0.6	101.9	102.0	101.9
2013	8	1060	-109	0.8	1.6	0.06	0.06	98.9	100.9	-2.3	-3.3	0.3	-1.6	-1.4	101.8	102.4	102.0
2014	7	1126	56	0.4	8.1	-0.02	0.06	100.9	99.0	-0.9	-4.4	1.1	-0.3	-0.6	101.7	101.4	100.7
2015	11	1201	-5	10.0	11.7	0.11	0.12	99.1	101.9	-2.5	-3.2	-1.2	-2.2	-0.8	100.9	101.2	102.8
2016	8	1278	385	12.4	14.0	-0.06	-0.01	99.6	103.5	-1.1	-1.5	0.3	-1.4	1.0	101.9	103.7	101.8

**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.

**Provincial genetic trends by birth year for Brown Swiss cows  
Lactanet Canada, August 2019**

**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	390	796	-202	-8.0	-8.4	0.01	-0.00	98.7	98.5	-3.8	-2.3	-0.1	-4.5	-0.4	99.6	102.8	100.7
2007	378	856	-129	-4.2	-5.2	0.02	-0.00	99.6	99.3	-3.4	-1.8	-0.5	-4.0	-0.5	99.6	101.8	100.8
2008	361	889	-182	-4.4	-6.0	0.04	0.01	99.0	99.7	-2.1	-1.6	0.1	-2.7	0.3	100.4	101.6	101.3
2009	386	878	-102	-3.9	-5.0	0.01	-0.01	98.9	98.9	-1.9	-1.2	-0.4	-2.2	-0.4	99.7	101.3	100.4
2010	361	976	-12	-1.3	-1.2	-0.01	-0.01	99.4	99.6	-1.1	-1.0	0.3	-1.2	-0.0	101.0	101.7	101.6
2011	377	984	-21	-0.2	-0.6	0.01	0.00	99.7	99.2	-1.0	-0.5	0.7	-1.2	-0.3	100.3	101.7	100.4
2012	367	961	-40	-0.5	-0.7	0.01	0.01	99.0	99.5	-0.9	-0.5	0.5	-1.1	-0.2	99.9	100.2	99.4
2013	337	1060	27	2.6	2.2	0.02	0.01	99.1	100.0	-0.1	-0.1	1.6	-0.6	0.4	101.0	101.1	100.3
2014	291	1076	41	1.7	2.5	0.00	0.01	99.4	100.4	0.7	0.2	1.6	0.3	0.7	101.2	101.1	100.6
2015	322	1169	118	6.2	5.3	0.02	0.01	99.2	101.3	1.1	0.6	1.5	0.8	1.8	102.0	101.5	100.7
2016	243	1195	178	8.1	8.0	0.01	0.01	98.7	100.9	1.5	1.0	1.7	0.9	1.4	101.7	101.7	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.

**Provincial genetic trends by birth year for Brown Swiss cows  
Lactanet Canada, August 2019**

**Ontario**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	339	816	-145	-3.9	-5.4	0.03	0.00	98.6	98.3	-3.9	-2.1	-0.7	-4.7	-0.5	98.7	101.5	100.2
2007	283	894	-95	-1.1	-3.2	0.03	0.01	99.5	98.8	-2.8	-1.6	-0.8	-3.3	-0.3	99.3	101.5	101.0
2008	312	900	-105	-1.6	-3.8	0.03	0.00	99.8	99.2	-2.4	-1.8	-0.4	-2.9	0.4	99.7	100.9	101.5
2009	271	937	-36	-0.4	-2.7	0.01	-0.01	99.7	99.2	-1.5	-1.2	-0.4	-1.8	0.3	99.9	101.0	101.2
2010	267	1027	4	3.5	1.6	0.04	0.02	100.6	100.6	-1.6	-1.3	-0.2	-1.9	0.2	100.4	100.9	101.5
2011	262	973	-14	-0.6	-0.5	0.00	0.00	99.6	99.5	-1.1	-0.9	0.4	-1.4	0.3	100.3	100.8	100.7
2012	269	1057	46	3.0	2.7	0.02	0.01	100.1	99.8	-0.3	-0.3	1.0	-0.7	0.4	100.6	101.0	101.0
2013	203	1085	92	4.4	2.7	0.01	-0.01	99.4	100.2	0.3	0.1	1.1	0.2	0.3	100.9	101.2	101.1
2014	261	1108	90	5.0	4.4	0.02	0.01	99.4	100.4	0.2	0.1	0.9	-0.2	0.4	101.1	101.0	101.2
2015	213	1191	175	9.0	7.1	0.02	0.00	100.2	100.9	1.3	1.1	1.6	0.6	1.3	101.4	101.3	101.0
2016	182	1194	204	9.1	8.5	0.01	0.01	99.4	100.7	1.2	0.6	1.0	0.9	1.2	101.3	101.0	100.1

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.

**Provincial genetic trends by birth year for Brown Swiss cows  
Lactanet Canada, August 2019**

**Manitoba**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	103	771	-160	-9.9	-8.0	-0.03	-0.02	100.0	98.3	-1.7	-1.1	-0.4	-2.4	1.2	98.6	99.6	99.9
2007	84	758	-278	-12.0	-10.6	0.00	0.00	99.3	98.0	-1.1	-1.2	-0.7	-1.4	1.2	98.6	100.4	101.1
2008	92	819	-244	-7.4	-9.1	0.03	0.00	99.0	98.7	-1.2	-0.4	-0.3	-1.9	2.5	98.9	100.8	101.9
2009	81	842	-191	-6.9	-8.7	0.02	-0.01	99.3	98.9	-1.0	-0.6	0.0	-1.6	1.7	99.6	101.4	101.2
2010	77	821	-156	-9.3	-8.7	-0.03	-0.03	100.5	98.9	-1.0	-0.7	-0.2	-1.5	2.0	99.6	101.6	102.1
2011	78	948	-118	-1.5	-4.9	0.04	-0.00	99.2	99.4	1.1	1.4	1.4	0.4	1.6	99.8	100.6	100.9
2012	90	912	-80	-5.4	-5.9	-0.02	-0.03	100.5	99.8	0.2	0.3	0.8	-0.3	1.5	100.3	101.6	101.8
2013	82	975	-42	-2.7	-2.6	-0.01	-0.01	99.7	99.5	1.4	1.3	1.4	0.8	2.3	100.3	100.6	102.2
2014	58	1015	-22	-1.5	-1.7	-0.01	-0.01	100.8	100.8	1.0	0.5	1.5	0.6	0.9	101.1	100.7	101.8
2015	59	950	-109	-6.1	-5.6	-0.02	-0.01	99.1	99.8	2.6	2.0	1.3	2.0	2.7	101.0	102.4	100.9
2016	47	1082	60	2.4	0.4	0.00	-0.02	100.8	100.7	1.7	1.2	1.2	1.4	1.8	101.8	101.8	102.1

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.

**Provincial genetic trends by birth year for Brown Swiss cows**  
**Lactanet Canada, August 2019**

**Saskatchewan**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	3	562	-363	-11.0	-13.7	0.06	0.01	97.3	97.3	-10.3	-5.7	-1.7	-10.3	-0.3	96.7	103.0	94.0
2007	6	760	-32	-11.0	-2.7	-0.11	-0.01	99.0	93.0	-1.8	-0.7	2.7	-2.5	-2.7	97.8	102.0	101.0
2008	4	835	299	0.0	-3.5	-0.14	-0.15	100.3	96.8	-2.8	0.3	-0.3	-3.5	-1.0	97.5	105.5	.
2009	2	865	114	0.0	-4.0	-0.05	-0.09	98.5	101.0	-7.5	-6.5	-2.5	-6.5	2.5	100.5	.	.
2010	1	950	299	-16.0	7.0	-0.31	-0.04	96.0	103.0	2.0	3.0	6.0	0.0	0.0	101.0	98.0	101.0
2011	3	844	-39	-2.3	-0.3	-0.01	0.02	100.0	98.3	-1.7	0.7	3.3	-3.0	-1.7	97.0	97.0	96.5
2012	4	900	33	-7.0	-7.0	-0.07	-0.08	102.5	103.0	-1.5	-2.8	0.0	-1.0	-0.5	101.3	102.0	101.0
2013	2	872	-84	-6.5	-5.5	-0.03	-0.02	100.5	98.5	2.0	1.5	0.5	1.5	-0.5	98.0	.	.

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.

**Provincial genetic trends by birth year for Brown Swiss cows  
Lactanet Canada, August 2019**

**Alberta**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	55	880	185	-1.9	0.3	-0.10	-0.07	98.3	99.2	-3.7	-1.7	-2.1	-3.9	0.6	98.3	101.8	99.3
2007	29	724	-204	-10.9	-11.2	-0.02	-0.03	97.8	98.2	-3.7	-2.3	-0.5	-4.7	0.6	99.1	102.3	102.4
2008	29	906	235	-0.5	1.1	-0.11	-0.08	99.4	99.4	-2.0	-1.4	0.0	-2.2	1.8	98.2	98.1	97.8
2009	39	850	62	-3.8	-1.4	-0.07	-0.04	99.5	98.2	-3.0	-1.8	-1.6	-3.0	-0.0	98.2	100.3	97.5
2010	20	954	152	-2.3	-1.7	-0.08	-0.06	98.6	100.7	-2.2	-2.4	-0.7	-1.9	0.5	101.1	101.6	100.4
2011	11	964	253	-2.2	0.0	-0.14	-0.10	98.8	100.4	-3.5	-1.7	-0.1	-4.0	3.1	101.3	104.0	101.8
2012	10	1056	287	3.8	7.5	-0.09	-0.04	99.1	97.4	-1.4	-0.8	0.2	-2.0	1.6	100.2	101.8	100.6
2013	14	1095	161	4.9	5.6	-0.02	-0.00	99.6	101.9	-1.9	-1.5	-0.5	-1.9	0.4	100.9	102.1	99.6
2014	9	1233	165	11.6	10.3	0.05	0.04	99.6	101.0	-0.7	-2.0	-0.1	-1.3	2.8	102.1	101.1	97.5
2015	6	1251	121	8.5	6.0	0.05	0.01	99.3	102.0	-0.3	-2.2	2.3	0.2	2.0	104.0	103.2	103.5
2016	3	1209	390	12.3	15.0	-0.09	-0.03	101.7	101.3	-0.3	-0.7	1.7	-1.0	-0.7	99.7	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.



**Provincial genetic trends by birth year for Brown Swiss cows  
Lactanet Canada, August 2019**

**British Columbia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2006	19	777	-268	-7.1	-11.4	0.05	-0.01	99.9	99.1	-2.2	-1.8	-1.9	-2.0	0.4	98.9	100.8	100.8
2007	37	680	-414	-16.6	-14.9	-0.00	0.01	98.9	97.6	-1.0	-0.5	-0.4	-1.9	2.1	98.8	100.3	98.7
2008	22	727	-301	-14.0	-12.5	-0.01	-0.01	99.7	96.5	-0.3	0.5	0.6	-1.3	2.2	98.9	101.8	102.1
2009	31	874	-9	-6.4	-4.5	-0.07	-0.04	100.9	98.3	0.9	2.2	1.2	-0.1	1.4	99.0	101.0	100.4
2010	41	848	-103	-4.0	-7.0	-0.00	-0.03	101.1	98.6	0.5	1.9	0.8	-0.2	1.8	98.5	97.9	98.1
2011	17	1005	78	-1.5	0.2	-0.06	-0.03	101.8	100.6	0.5	1.0	1.5	0.1	0.5	100.4	101.5	101.8
2012	34	1057	-123	-3.0	-1.3	0.03	0.04	100.9	100.4	1.6	-0.1	1.2	1.6	2.2	101.6	101.8	101.0
2013	24	1083	59	-0.2	3.1	-0.03	0.01	101.0	100.0	1.8	2.2	1.2	1.1	1.6	101.3	102.5	102.3
2014	48	1003	2	-2.7	-0.8	-0.03	-0.00	99.4	100.0	1.3	0.9	0.8	0.9	1.0	101.1	102.5	101.4
2015	72	965	-81	-3.2	-3.0	-0.00	0.00	100.1	100.1	0.3	0.4	0.3	0.1	1.6	100.8	101.6	101.8
2016	23	1103	45	1.2	2.9	-0.00	0.01	99.5	100.7	2.0	1.2	2.1	1.5	1.6	101.6	100.8	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.

**Provincial genetic trends by birth year for Brown Swiss cows  
Lactanet Canada, August 2019**

**Newfoundland**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2007	1	519	-188	-17.0	-9.0	-0.10	-0.02	99.0	94.0	-4.0	0.0	3.0	-8.0	-5.0	95.0	101.0	94.0

**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.