

**Provincial genetic trends by birth year for Milking Shorthorn 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
2009	15	1250	81	4.1	-2.1	0.01	-0.09	100.1	99.6	1.0	-0.5	2.2	0.9	1.5	98.7	100.4	97.8
2010	14	1133	-3	-3.1	-2.9	-0.04	-0.06	99.1	101.1	-0.6	-2.4	-1.2	-0.2	0.1	99.0	100.5	98.9
2011	21	1423	-9	10.0	-0.6	0.16	-0.01	101.1	99.0	3.2	1.2	2.9	3.6	2.7	100.4	101.0	96.3
2012	12	1194	30	-2.8	-1.1	-0.06	-0.04	98.8	101.5	-0.1	-1.8	-0.5	0.3	-0.6	99.8	99.8	96.0
2013	21	1524	56	13.5	3.3	0.17	0.04	101.9	100.8	3.1	1.6	1.7	3.2	3.0	101.7	100.8	98.2
2014	12	1582	143	10.3	5.1	0.07	0.03	101.6	101.6	4.9	3.6	2.1	4.8	2.2	101.9	100.9	100.0
2015	20	1462	249	6.0	4.5	-0.06	-0.04	100.0	101.0	3.5	2.5	0.5	4.4	-0.4	101.2	101.9	100.2
2016	23	1558	181	7.8	3.8	0.01	-0.02	101.3	103.0	4.5	1.9	1.0	5.7	2.0	103.0	100.4	98.8
2017	14	1516	41	4.5	3.0	0.05	0.04	101.4	101.6	4.9	3.8	2.4	5.1	1.8	102.6	100.3	.
2018	21	1628	153	7.5	4.7	0.02	0.02	101.5	101.2	6.8	4.8	3.8	7.0	3.3	103.3	100.7	102.0
2019	13	1635	235	13.0	5.1	0.05	-0.02	100.4	101.5	5.2	2.5	3.2	5.6	3.8	103.8	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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**Nova Scotia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2010	1	1111	-255	-16.0	-9.0	-0.09	-0.04	99.0	105.0	1.0	-2.0	-1.0	1.0	2.0	100.0	102.0	.
2011	1	2029	527	25.0	17.0	0.03	0.07	101.0	102.0	10.0	8.0	7.0	9.0	3.0	105.0	99.0	.
2012	2	1139	40	-5.5	-5.0	-0.11	-0.13	100.0	102.5	-0.5	-3.0	-2.0	0.0	-1.5	101.0	104.0	101.5
2013	2	1292	140	0.0	-1.0	-0.09	-0.10	100.0	101.0	1.0	-1.0	-2.0	2.5	-1.5	102.0	103.5	99.0
2014	5	1394	-49	7.2	-1.4	0.14	0.00	102.4	100.2	2.4	-0.6	3.0	1.8	2.0	102.0	101.7	99.0
2015	1	884	-211	-13.0	-7.0	-0.06	-0.04	102.0	96.0	-1.0	-4.0	-1.0	-2.0	1.0	99.0	.	.
2016	1	1274	-399	1.0	-3.0	0.28	0.16	102.0	96.0	4.0	1.0	3.0	5.0	5.0	98.0	96.0	.
2017	3	1352	22	9.7	0.7	0.14	0.00	103.0	104.0	-0.7	-2.7	-0.7	-1.0	-1.3	101.3	.	.
2019	2	1085	-65	-6.5	-5.5	-0.06	-0.08	102.5	100.0	0.0	0.0	-1.0	0.0	2.5	99.5	.	.

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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**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2010	1	1251	-136	5.0	-4.0	0.17	-0.02	99.0	102.0	-1.0	-1.0	-2.0	0.0	-2.0	98.0	102.0	.
2011	3	1342	347	4.7	6.3	-0.14	-0.06	102.3	107.3	-2.3	-2.3	-2.0	-2.3	0.0	100.0	101.5	96.0
2013	1	1440	353	22.0	4.0	0.11	-0.10	103.0	101.0	0.0	-3.0	-2.0	1.0	4.0	101.0	101.0	97.0
2014	2	1308	435	4.5	7.0	-0.21	-0.09	101.5	107.5	-2.0	-2.5	-1.5	-3.0	1.0	100.0	101.5	98.5
2015	1	1280	190	2.0	2.0	-0.09	-0.05	102.0	104.0	0.0	-1.0	-3.0	0.0	-2.0	102.0	.	.
2018	3	1510	91	11.0	0.3	0.11	-0.04	101.0	101.0	3.0	-1.3	1.0	3.3	3.3	106.3	104.0	104.5
2019	1	1452	314	13.0	4.0	0.00	-0.10	100.0	100.0	1.0	-4.0	-1.0	3.0	2.0	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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**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2009	2	1061	199	-2.5	1.0	-0.16	-0.09	99.5	101.0	-4.0	-1.5	-5.0	-3.0	0.0	95.5	.	.
2010	3	1045	-289	-5.7	-8.0	0.11	0.00	99.7	97.3	0.3	-2.7	-1.0	2.3	-3.7	98.3	100.5	98.0
2011	8	1167	-71	-3.5	-3.6	-0.00	-0.03	99.4	100.8	0.3	-1.6	0.4	0.3	0.0	99.6	102.0	98.8
2012	5	1168	-89	-6.0	-5.8	-0.03	-0.07	97.4	99.2	1.6	-1.8	-0.2	2.6	-2.8	102.8	103.4	101.8
2013	5	1156	-272	-3.4	-7.6	0.13	-0.01	98.6	98.6	1.8	-1.6	0.6	3.0	-1.0	100.0	103.3	98.6
2014	4	1135	79	-3.0	-1.8	-0.10	-0.08	100.0	102.3	-1.5	-4.0	-0.8	-1.8	0.5	101.5	102.0	102.0
2015	4	1189	-102	2.5	-3.3	0.11	-0.02	101.3	99.3	0.0	-2.8	-1.3	0.8	-1.8	100.5	104.0	.
2016	3	1463	119	2.0	1.3	-0.04	-0.04	101.3	102.0	4.0	1.3	3.3	4.0	1.7	104.7	104.0	97.0
2017	3	1368	4	2.3	0.3	0.04	0.00	101.0	99.0	4.3	1.3	2.7	4.3	2.7	101.7	99.0	.
2018	6	1301	-19	0.7	-0.8	0.02	-0.00	102.7	100.7	2.2	1.7	0.2	2.0	1.0	100.3	.	106.0
2019	2	1141	28	5.5	1.0	0.07	0.00	101.5	97.5	-0.5	3.5	-1.0	-3.0	1.0	97.0	.	.

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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**Ontario**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2009	94	1128	-83	-7.4	-2.9	-0.06	-0.01	100.1	100.5	-0.3	-1.2	-0.7	0.2	-0.4	99.4	100.0	98.4
2010	119	1135	-52	-5.6	-1.6	-0.05	-0.00	100.9	99.8	-0.7	-1.6	-0.3	-0.5	-0.4	99.5	100.3	100.1
2011	107	1244	21	-3.0	-0.0	-0.06	-0.01	100.8	100.1	0.9	0.1	0.4	1.3	0.0	100.0	100.8	99.7
2012	101	1220	-67	-4.4	-1.8	-0.02	0.00	100.5	99.9	1.2	-0.0	0.7	1.6	1.5	100.3	99.9	100.2
2013	95	1219	-120	-5.9	-2.8	-0.01	0.01	100.3	99.7	1.5	0.1	1.3	1.6	1.2	100.9	100.3	99.7
2014	79	1347	63	1.0	1.0	-0.02	-0.01	101.6	101.3	1.8	0.7	0.6	2.1	0.8	101.4	102.3	101.0
2015	96	1302	-59	-4.7	-1.7	-0.03	-0.00	100.6	100.9	2.6	1.4	1.4	3.0	0.8	101.9	102.3	101.0
2016	81	1408	6	3.1	1.2	0.05	0.03	102.1	102.0	2.8	1.5	1.3	2.8	1.2	101.4	100.3	98.1
2017	88	1397	7	0.9	0.4	0.01	0.01	101.7	101.1	3.5	2.7	2.3	3.3	2.0	101.8	100.9	101.0
2018	67	1408	31	0.7	0.9	-0.00	0.00	102.0	100.3	4.1	2.7	2.6	3.9	2.8	101.8	101.0	98.8
2019	40	1487	129	6.6	3.0	0.02	-0.01	101.9	100.6	4.1	2.2	3.0	3.8	3.3	102.2	101.0	.

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
2009	24	1266	3	-0.3	-0.5	-0.01	-0.01	99.9	100.7	1.6	0.7	-0.7	2.1	0.3	99.6	99.8	97.6
2010	24	1129	-182	-9.1	-5.7	-0.02	-0.02	97.8	100.5	1.3	0.3	-1.8	2.4	0.1	99.7	101.5	100.4
2011	27	1282	35	0.1	-0.4	-0.02	-0.03	99.6	100.7	2.5	1.9	-1.0	3.2	0.5	99.2	100.6	101.0
2012	37	1360	-30	4.0	0.4	0.08	0.03	101.0	100.3	2.3	1.2	-0.5	2.8	0.9	100.5	102.8	101.3
2013	24	1321	84	1.5	2.2	-0.03	0.00	101.2	99.7	1.6	-0.3	-0.3	2.5	1.2	100.1	101.5	95.5
2014	22	1260	-17	-2.3	-0.4	-0.02	0.00	101.2	100.8	1.3	0.6	-0.2	1.7	-0.6	99.5	102.5	99.0
2015	32	1430	-24	2.7	-0.0	0.06	0.01	101.1	100.3	4.7	3.0	2.3	4.7	2.0	101.3	100.0	99.3
2016	19	1330	14	3.9	2.1	0.05	0.04	102.7	99.8	0.9	-0.2	-0.5	1.8	-0.6	100.1	102.0	98.7
2017	12	1108	-83	-10.6	-2.9	-0.10	-0.01	100.0	98.3	0.8	1.4	0.2	0.3	0.6	98.8	.	.
2018	11	1179	-20	-0.1	0.5	0.01	0.02	100.5	98.6	-0.4	1.5	-1.2	-0.6	0.0	97.2	.	.
2019	8	1322	174	3.0	4.0	-0.06	-0.01	98.5	98.4	1.1	1.3	-0.5	2.0	-1.1	99.5	.	.

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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**Alberta**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2009	7	1166	-130	-9.9	-1.4	-0.06	0.05	99.6	99.9	0.1	0.1	0.0	0.9	1.6	100.1	106.0	.
2010	5	1095	-38	-9.6	-2.2	-0.12	-0.02	98.4	98.6	0.4	0.4	-0.6	1.2	1.2	98.4	99.0	.
2011	1	1369	286	16.0	2.0	0.06	-0.12	102.0	108.0	-2.0	0.0	-2.0	-3.0	4.0	100.0	103.0	.
2012	1	1355	455	3.0	7.0	-0.24	-0.11	100.0	105.0	1.0	2.0	0.0	0.0	1.0	104.0	.	.
2014	2	1335	59	0.5	-1.0	-0.03	-0.06	100.0	100.5	2.5	-0.5	2.5	2.0	0.0	103.5	.	.
2017	1	1367	195	8.0	5.0	-0.01	0.00	101.0	99.0	2.0	2.0	2.0	2.0	-3.0	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.