

**Provincial genetic trends by birth year for Milking Shorthorn 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
2007	7	1049	166	-7.9	2.7	-0.23	-0.03	99.9	99.1	-1.9	-2.3	-1.1	-1.7	0.3	99.1	99.2	98.7
2008	15	1202	342	2.3	5.9	-0.19	-0.06	101.9	102.0	-1.8	-2.2	-1.5	-1.6	-0.7	99.1	100.3	100.5
2009	15	1246	107	5.7	-1.2	0.03	-0.09	99.9	99.3	1.1	-0.1	2.5	0.5	2.0	99.6	101.0	98.6
2010	14	1126	18	-1.6	-2.1	-0.03	-0.06	99.0	100.9	-0.9	-2.1	-1.2	-0.4	0.5	99.7	100.8	99.5
2011	21	1428	39	11.9	0.8	0.17	-0.01	101.0	99.3	3.5	1.6	3.2	3.3	3.6	100.6	100.8	96.1
2012	12	1194	82	-0.2	0.3	-0.05	-0.04	98.8	101.4	0.0	-1.5	-0.5	0.2	0.2	100.0	100.2	97.0
2013	22	1531	150	16.2	5.0	0.16	0.03	101.4	101.0	3.5	2.0	1.9	3.5	3.3	101.6	99.8	99.2
2014	11	1581	160	15.2	5.7	0.14	0.04	101.9	101.7	4.6	3.5	1.9	4.5	2.6	101.7	99.9	100.5
2015	19	1489	343	10.6	6.7	-0.06	-0.04	100.2	101.2	3.7	3.0	0.3	4.5	0.1	101.0	102.1	101.8
2016	23	1545	240	10.1	5.3	0.00	-0.02	100.6	102.4	4.3	1.9	0.9	5.4	2.1	103.1	101.1	100.5
2017	6	1587	36	8.0	4.2	0.12	0.07	100.8	103.3	5.3	4.7	3.2	5.2	2.5	104.2	97.5	.

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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**Nova Scotia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2007	1	1221	421	-8.0	8.0	-0.41	-0.08	103.0	99.0	3.0	3.0	2.0	2.0	1.0	98.0	.	.
2008	1	1150	205	-6.0	1.0	-0.23	-0.10	102.0	103.0	2.0	0.0	-1.0	1.0	4.0	98.0	100.0	100.0
2010	1	1129	-215	-14.0	-8.0	-0.09	-0.05	99.0	105.0	1.0	-1.0	-1.0	1.0	2.0	101.0	104.0	.
2011	1	2087	673	31.0	20.0	0.03	0.06	101.0	103.0	10.0	8.0	7.0	9.0	3.0	105.0	.	.
2012	2	1097	13	-5.5	-4.5	-0.09	-0.12	100.5	101.0	0.5	-2.0	-1.5	0.5	-0.5	100.5	103.5	103.0
2013	1	1144	-35	7.0	1.0	0.14	0.04	101.0	99.0	-2.0	-4.0	-4.0	-1.0	-2.0	97.0	102.0	98.0
2014	5	1400	11	10.0	0.2	0.16	0.00	102.4	100.6	2.2	0.0	3.0	1.6	2.2	102.2	101.0	99.0
2015	1	1078	0	0.0	-3.0	0.00	-0.08	102.0	100.0	-1.0	-4.0	-1.0	-2.0	1.0	101.0	.	.
2016	1	1287	-329	4.0	-1.0	0.31	0.17	102.0	96.0	4.0	0.0	4.0	5.0	6.0	97.0	94.0	.
2017	2	1161	80	4.0	-0.5	0.02	-0.07	102.0	101.0	-0.5	-1.0	-0.5	-1.0	-0.5	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
2007	2	748	-387	-28.5	-11.5	-0.21	-0.03	98.0	98.0	-2.0	-3.0	-1.5	-2.0	-0.5	99.5	101.0	.
2008	3	1089	-36	-7.7	-1.7	-0.09	-0.01	99.3	103.3	-0.3	-1.3	0.3	-1.3	0.0	99.0	99.0	98.5
2010	1	1256	-119	7.0	-4.0	0.19	-0.01	99.0	102.0	-1.0	-1.0	-2.0	0.0	-1.0	100.0	104.0	.
2011	3	1304	402	7.3	7.7	-0.15	-0.06	103.0	106.3	-1.7	-2.3	-1.7	-2.3	1.0	99.3	100.5	95.5
2013	1	1450	485	29.0	8.0	0.13	-0.11	103.0	101.0	0.0	0.0	-2.0	0.0	2.0	100.0	101.0	.
2014	2	1318	538	9.0	9.5	-0.22	-0.09	102.0	107.5	-1.5	-1.5	-0.5	-3.0	2.0	99.0	100.0	97.0
2015	1	1287	257	5.0	4.0	-0.10	-0.06	102.0	104.0	0.0	0.0	-2.0	0.0	-2.0	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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**Quebec**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2007	2	966	194	-5.5	-1.0	-0.22	-0.14	100.0	99.5	-2.5	-0.5	-2.5	-3.5	4.0	96.5	.	.
2008	5	950	-113	-10.4	-3.0	-0.09	-0.01	100.8	100.4	-4.6	-5.0	-3.8	-3.0	-2.8	98.8	100.0	99.0
2009	2	1027	228	-1.5	1.5	-0.18	-0.10	99.5	100.5	-3.5	-1.0	-4.5	-3.0	1.0	96.0	.	.
2010	3	1043	-247	-4.0	-6.7	0.11	-0.01	100.3	97.3	0.7	-2.3	-1.0	2.3	-3.3	98.0	100.5	98.0
2011	8	1164	-9	-1.1	-2.1	-0.00	-0.04	99.5	100.6	0.4	-1.3	0.5	-0.1	0.8	99.9	101.8	99.2
2012	5	1158	-35	-4.6	-4.4	-0.05	-0.08	97.8	99.2	1.8	-0.8	0.0	2.8	-2.2	101.8	102.6	101.2
2013	5	1142	-260	-1.8	-7.0	0.16	-0.00	98.8	98.4	2.0	-0.6	0.8	2.6	-0.4	99.6	103.3	98.8
2014	4	1157	124	-0.5	-0.5	-0.09	-0.09	100.5	102.3	-1.3	-3.3	0.0	-1.3	1.0	101.5	103.0	101.0
2015	4	1184	-65	4.0	-2.3	0.12	-0.02	101.5	99.0	0.5	-1.5	-0.5	0.8	-1.0	100.3	103.0	.
2016	2	1633	269	12.5	7.5	0.02	0.01	103.0	103.5	5.5	3.0	3.5	5.0	4.5	104.0	104.0	97.0
2017	1	1494	-95	8.0	1.0	0.20	0.09	103.0	102.0	3.0	-3.0	3.0	3.0	5.0	107.0	.	.

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
2007	119	1057	-47	-10.3	-1.8	-0.13	-0.01	99.7	99.2	-0.3	-0.7	0.1	-0.3	-0.6	99.0	99.9	98.9
2008	104	1066	-3	-9.3	-1.0	-0.15	-0.02	99.7	99.5	-0.4	-0.9	-0.7	-0.1	-0.6	99.1	99.8	98.5
2009	94	1119	-53	-5.8	-2.0	-0.05	-0.01	100.0	100.2	0.0	-0.6	-0.5	0.2	0.3	99.6	99.9	98.2
2010	119	1125	-19	-3.8	-0.6	-0.05	-0.00	100.8	99.5	-0.5	-1.2	-0.0	-0.5	0.1	99.5	100.3	100.4
2011	107	1238	60	-1.1	1.0	-0.06	-0.01	100.7	99.9	1.1	0.6	0.6	1.3	0.6	100.0	100.8	99.8
2012	101	1219	-24	-2.0	-0.5	-0.01	0.00	100.4	99.6	1.4	0.6	0.9	1.6	2.0	100.1	100.0	100.4
2013	94	1217	-78	-3.6	-1.5	-0.00	0.01	100.1	99.4	1.7	0.4	1.4	1.6	1.5	100.8	100.1	99.9
2014	79	1336	107	3.1	2.2	-0.02	-0.01	101.4	101.1	1.9	0.8	0.7	2.2	1.3	101.1	101.7	102.0
2015	96	1308	-4	-2.2	-0.3	-0.03	-0.00	100.5	101.0	3.0	2.0	1.6	3.1	1.3	101.8	101.6	101.6
2016	77	1426	79	6.5	2.8	0.06	0.02	101.8	101.8	3.1	2.1	1.6	3.1	1.8	101.3	101.4	97.9
2017	68	1396	49	2.8	1.3	0.02	0.00	101.3	101.7	3.5	2.8	2.2	3.3	2.1	101.8	102.7	.

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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**Manitoba**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2007	26	1022	-67	-13.3	-4.2	-0.17	-0.06	99.3	100.8	0.6	-0.1	-1.2	0.8	-0.5	98.4	100.0	97.8
2008	17	1126	-50	-6.5	-1.5	-0.07	-0.00	100.3	101.3	-0.3	-0.2	-0.6	-0.4	-0.9	99.5	100.4	99.0
2009	24	1250	27	0.7	0.2	-0.00	-0.01	99.6	100.5	1.9	1.1	-0.5	2.1	1.0	99.7	99.8	97.9
2010	24	1118	-148	-7.9	-4.8	-0.02	-0.02	97.8	100.3	1.8	0.7	-1.5	2.5	0.8	99.7	100.8	100.4
2011	27	1259	60	0.7	0.1	-0.03	-0.03	99.4	100.5	2.7	2.4	-0.8	3.4	1.3	99.0	100.8	101.0
2012	37	1361	11	5.8	1.5	0.09	0.03	100.6	100.4	2.6	1.5	-0.2	3.0	1.8	100.8	102.4	99.0
2013	24	1305	104	2.6	3.0	-0.03	0.01	101.0	99.7	1.6	-0.0	-0.1	2.3	1.5	100.2	101.0	101.0
2014	22	1240	-1	-1.0	0.3	-0.01	0.01	101.0	100.3	1.5	0.7	-0.2	1.8	-0.0	99.5	102.0	99.0
2015	31	1438	10	4.5	0.7	0.07	0.01	100.9	100.4	5.1	3.5	2.7	4.8	2.4	101.8	100.7	100.4
2016	19	1342	5	4.6	2.1	0.07	0.05	102.1	100.6	1.6	0.2	0.0	2.4	-0.6	100.9	102.5	99.0
2017	10	1027	-241	-13.7	-5.2	-0.05	0.03	99.9	97.4	0.5	1.1	0.1	0.3	1.2	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
2007	2	1036	243	-13.5	1.0	-0.38	-0.12	99.5	100.0	-2.0	-5.0	-0.5	-1.5	-1.0	103.0	.	.
2008	7	1013	81	-12.6	-0.6	-0.26	-0.06	98.0	98.1	0.0	-0.7	-0.6	-0.3	0.1	99.6	103.0	.
2009	7	1160	-110	-8.3	-0.6	-0.06	0.05	99.6	99.4	0.7	0.7	0.3	0.7	2.1	100.6	106.0	.
2010	5	1115	29	-6.2	-0.2	-0.12	-0.02	98.4	99.0	0.6	0.6	-0.6	1.2	1.8	98.6	98.7	.
2011	1	1300	294	17.0	2.0	0.07	-0.12	101.0	107.0	-2.0	0.0	-2.0	-4.0	4.0	100.0	104.0	.
2012	1	1336	500	5.0	8.0	-0.26	-0.11	100.0	105.0	1.0	3.0	0.0	0.0	1.0	103.0	.	.
2014	2	1290	103	1.0	0.5	-0.06	-0.05	100.5	101.0	1.5	-0.5	2.5	0.5	-0.5	103.0	.	.
2017	1	1412	229	9.0	6.0	-0.01	0.01	101.0	98.0	3.0	2.0	2.0	4.0	-4.0	96.0	.	.

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.