

**Provincial genetic trends by birth year for Milking Shorthorn 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
2011	21	1438	-35	8.0	-1.5	0.15	-0.01	101.1	99.3	2.6	0.7	2.5	3.0	2.9	100.5	101.1	96.2
2012	12	1208	10	-3.8	-1.7	-0.06	-0.04	99.3	101.8	-0.9	-2.2	-1.2	-0.5	-0.1	100.0	100.4	95.3
2013	21	1505	1	10.8	1.3	0.18	0.03	101.9	100.0	2.7	1.2	1.1	3.0	3.3	101.1	100.8	98.1
2014	12	1594	119	7.8	4.0	0.04	0.02	101.6	101.9	4.2	2.8	1.8	4.3	2.3	102.5	100.7	99.1
2015	23	1459	187	3.3	2.7	-0.07	-0.05	100.0	100.6	3.3	2.0	0.0	4.3	-0.6	101.1	101.8	101.0
2016	24	1557	154	6.3	3.1	-0.00	-0.02	101.8	103.0	3.9	1.4	0.4	5.0	1.4	102.5	100.5	99.2
2017	18	1536	7	4.7	1.7	0.08	0.04	101.9	101.2	4.5	2.9	1.8	4.8	1.4	102.4	100.6	98.0
2018	25	1676	131	7.6	5.2	0.03	0.04	102.6	102.7	5.5	3.9	3.0	5.8	3.3	103.4	100.8	104.0
2019	30	1522	58	6.9	1.9	0.07	0.01	101.8	100.5	3.8	2.2	2.0	4.4	2.8	101.8	98.8	.
2020	21	1654	105	3.9	4.7	-0.01	0.05	101.6	103.2	5.7	4.8	3.9	5.6	2.9	103.2	99.0	.
2021	25	1697	196	10.2	5.9	0.03	0.01	101.3	102.8	5.5	4.3	3.0	5.7	2.4	103.2	100.0	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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**Nova Scotia**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	1	2046	504	23.0	16.0	0.01	0.05	101.0	103.0	10.0	8.0	7.0	8.0	3.0	105.0	98.0	.
2012	2	1119	23	-8.0	-6.5	-0.15	-0.16	100.0	101.5	-1.0	-3.5	-2.0	0.0	-0.5	101.0	104.0	101.5
2013	2	1260	110	-2.5	-2.5	-0.12	-0.12	100.0	101.0	0.0	-1.5	-2.5	1.5	-1.0	101.5	103.0	100.0
2014	5	1390	-81	4.6	-2.8	0.13	-0.01	103.0	99.4	2.0	-1.0	2.4	1.8	2.0	102.2	102.3	100.5
2015	1	906	-237	-14.0	-8.0	-0.06	-0.04	102.0	97.0	-2.0	-5.0	-2.0	-2.0	1.0	99.0	.	.
2016	1	1196	-442	-3.0	-6.0	0.27	0.15	102.0	94.0	3.0	-1.0	2.0	4.0	5.0	98.0	97.0	.
2017	4	1412	-39	10.5	1.3	0.20	0.05	104.0	103.3	-1.3	-2.8	-1.3	-0.8	-0.3	101.0	.	.
2019	2	896	-145	-14.0	-9.0	-0.12	-0.11	102.0	98.0	-2.0	-1.0	-2.5	-2.0	2.5	97.0	.	.
2020	1	1339	-124	4.0	3.0	0.16	0.15	105.0	99.0	-1.0	-1.0	-3.0	0.0	4.0	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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**New Brunswick**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	3	1354	352	4.7	5.7	-0.17	-0.08	102.7	107.3	-2.3	-2.7	-2.7	-2.3	0.3	99.3	102.0	95.5
2013	2	1658	536	22.0	10.0	-0.03	-0.10	103.5	106.0	1.0	-0.5	-1.5	1.0	2.0	102.0	102.0	98.0
2014	2	1282	403	2.5	5.5	-0.24	-0.12	101.0	106.5	-3.0	-2.0	-2.0	-3.0	1.5	99.0	101.5	97.0
2015	1	1274	133	-2.0	0.0	-0.12	-0.07	101.0	103.0	-1.0	-2.0	-2.0	0.0	-1.0	103.0	.	101.0
2018	3	1505	41	8.3	-2.0	0.11	-0.06	101.0	99.7	2.3	-2.0	1.0	3.3	3.3	107.0	105.7	103.3
2019	1	1469	220	5.0	1.0	-0.08	-0.11	99.0	99.0	1.0	-4.0	-1.0	3.0	2.0	107.0	108.0	105.0
2021	2	1557	308	5.0	5.0	-0.13	-0.07	100.0	104.0	3.0	4.0	2.5	3.0	2.0	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.

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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	8	1170	-99	-5.8	-4.6	-0.02	-0.04	99.5	100.9	-0.4	-2.0	0.3	-0.4	0.6	99.9	102.3	98.5
2012	5	1159	-116	-9.2	-7.2	-0.05	-0.09	97.4	98.4	1.2	-2.4	-0.2	2.6	-2.0	102.4	104.4	101.2
2013	5	1153	-292	-5.8	-8.8	0.13	-0.02	98.8	98.4	1.4	-1.6	0.6	2.4	-0.6	99.8	103.7	98.4
2014	4	1128	61	-5.3	-2.8	-0.12	-0.10	100.0	101.8	-2.3	-4.5	-1.0	-2.0	0.5	101.3	102.5	102.0
2015	4	1182	-124	0.3	-4.5	0.09	-0.03	101.5	98.3	-0.3	-3.3	-1.0	0.5	-1.3	100.5	105.0	.
2016	3	1453	90	-0.7	0.0	-0.07	-0.05	101.3	102.3	3.7	0.3	3.0	3.3	1.7	104.7	104.0	97.0
2017	3	1340	-42	-0.7	-2.0	0.02	-0.02	101.3	98.3	4.0	0.3	2.7	4.0	3.0	101.3	100.0	.
2018	6	1291	-20	-1.5	-1.5	-0.01	-0.02	102.3	99.7	1.7	0.8	0.0	1.5	1.5	100.3	108.0	101.5
2019	4	1304	-15	6.5	1.0	0.12	0.04	101.3	97.3	0.8	2.0	0.3	0.5	1.0	98.3	.	.
2020	1	1475	65	7.0	3.0	0.07	0.03	107.0	104.0	2.0	-3.0	2.0	1.0	3.0	105.0	.	.
2021	4	1374	-35	-2.0	-0.3	-0.00	0.01	101.8	101.5	2.0	2.5	2.5	1.3	0.0	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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**Ontario**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	107	1253	1	-4.6	-1.1	-0.07	-0.02	100.9	100.2	0.4	-0.1	0.2	0.8	0.2	100.0	100.8	99.5
2012	101	1209	-93	-6.7	-3.1	-0.04	-0.01	100.6	99.5	0.7	-0.5	0.2	1.2	1.7	100.2	100.8	100.3
2013	95	1210	-142	-8.2	-4.1	-0.03	-0.00	100.4	99.1	1.1	-0.5	1.1	1.2	1.4	100.8	100.3	99.5
2014	80	1329	43	-1.6	-0.5	-0.05	-0.04	101.7	100.7	1.2	-0.1	0.3	1.7	1.0	101.3	102.5	101.4
2015	96	1296	-68	-6.7	-2.6	-0.05	-0.02	100.8	100.4	2.1	0.8	1.2	2.5	1.1	101.8	102.1	101.1
2016	81	1401	-0	1.0	0.2	0.02	0.01	102.3	101.5	2.4	1.1	1.1	2.4	1.4	101.2	100.4	98.3
2017	92	1362	-25	-2.2	-1.2	-0.01	-0.01	102.0	100.3	2.9	2.0	1.9	2.7	2.3	101.3	100.8	100.5
2018	73	1392	30	-1.6	-0.0	-0.04	-0.02	102.5	99.8	3.5	2.2	2.2	3.4	2.9	101.3	101.0	98.4
2019	60	1417	65	2.3	0.5	-0.01	-0.03	101.9	100.0	3.2	1.8	1.9	2.9	3.0	101.4	101.8	.
2020	77	1438	42	-0.4	1.1	-0.03	-0.00	101.5	100.5	3.9	3.4	2.2	3.6	2.7	101.3	102.5	.
2021	45	1443	-45	-0.5	-1.5	0.03	-0.01	101.4	100.8	4.3	2.4	2.5	4.3	2.8	102.3	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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**Manitoba**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	27	1282	2	-1.6	-1.7	-0.02	-0.04	99.6	100.5	2.0	1.6	-1.2	2.6	0.7	99.2	100.7	100.6
2012	37	1373	-56	2.4	-0.8	0.08	0.02	101.0	100.6	1.8	0.7	-0.7	2.4	1.2	100.7	102.9	102.0
2013	24	1346	67	0.5	1.4	-0.04	-0.01	101.6	99.9	1.3	-0.5	-0.5	2.3	1.3	100.2	101.0	95.5
2014	22	1278	-32	-3.7	-1.1	-0.03	-0.00	101.3	100.7	0.8	0.1	-0.4	1.3	-0.6	99.7	103.0	99.5
2015	32	1444	-41	1.6	-1.0	0.06	0.01	101.4	100.2	4.2	2.8	2.1	4.3	2.3	101.2	100.0	99.3
2016	19	1325	-25	1.9	0.5	0.05	0.03	102.6	99.3	0.9	-0.2	-0.5	1.4	-0.4	99.9	101.0	99.7
2017	12	1097	-133	-12.4	-4.5	-0.10	-0.02	100.0	97.8	0.8	1.3	0.2	0.1	0.8	98.3	.	100.0
2018	11	1166	-40	-1.6	-0.5	0.00	0.02	100.5	97.9	-0.6	1.6	-1.5	-1.1	-0.1	96.5	.	.
2019	9	1312	104	-1.8	2.3	-0.09	-0.01	100.2	97.1	1.7	2.1	-0.1	2.7	-2.7	98.2	.	.
2020	8	1188	-341	-17.0	-9.5	-0.03	-0.00	98.9	98.5	4.0	2.4	2.9	4.0	-0.9	101.6	.	.
2021	5	1248	38	-5.4	-1.6	-0.11	-0.05	98.6	99.8	1.4	2.0	0.8	2.0	-3.0	98.8	.	.

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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**Alberta**

Year	Cows	LPI	Milk	Fat	Protein	Fat%	Protein%	Pers	SCS	Conf	DS	F&L	MS	Rump	HL	DF	DCA
2011	1	1372	262	14.0	1.0	0.04	-0.14	102.0	108.0	-2.0	0.0	-2.0	-4.0	5.0	101.0	104.0	.
2012	1	1324	429	0.0	5.0	-0.29	-0.14	99.0	104.0	0.0	1.0	0.0	0.0	1.0	104.0	.	.
2014	2	1364	60	-1.5	-1.5	-0.07	-0.08	100.0	100.0	2.5	-0.5	2.5	2.0	0.0	103.0	107.0	.
2017	1	1382	174	7.0	4.0	-0.01	0.00	102.0	99.0	2.0	2.0	2.0	1.0	-3.0	94.0	.	.
2018	1	1457	371	13.0	9.0	-0.05	-0.03	102.0	98.0	2.0	-1.0	1.0	2.0	2.0	100.0	.	.
2019	1	1608	41	26.0	2.0	0.38	0.03	104.0	99.0	4.0	4.0	2.0	2.0	3.0	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.