

Provincial genetic trends by birth year for Holstein 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 |
|------|------|------|------|-------|---------|-------|----------|------|-------|------|------|------|------|------|-------|-------|-------|
| 2006 | 2237 | 1703 | -560 | -26.6 | -21.7 | -0.05 | -0.02 | 98.2 | 98.0 | -3.5 | -0.7 | -2.3 | -4.5 | 0.1 | 98.2 | 100.5 | 98.9 |
| 2007 | 2243 | 1758 | -464 | -21.4 | -17.9 | -0.03 | -0.02 | 98.2 | 98.5 | -3.0 | -0.4 | -2.3 | -3.9 | 0.3 | 98.3 | 100.2 | 98.8 |
| 2008 | 2283 | 1817 | -359 | -19.2 | -14.5 | -0.05 | -0.02 | 98.1 | 98.7 | -2.2 | 0.1 | -1.6 | -3.2 | 0.7 | 98.6 | 100.1 | 99.1 |
| 2009 | 2365 | 1859 | -288 | -15.1 | -12.3 | -0.03 | -0.02 | 98.4 | 98.8 | -1.9 | 0.0 | -1.5 | -2.7 | 0.8 | 98.9 | 100.1 | 99.0 |
| 2010 | 2414 | 1916 | -232 | -10.6 | -9.4 | -0.01 | -0.01 | 99.0 | 99.2 | -1.2 | 0.6 | -0.9 | -2.1 | 0.9 | 99.0 | 99.8 | 98.8 |
| 2011 | 2173 | 2011 | -128 | -5.1 | -6.1 | 0.00 | -0.01 | 98.6 | 99.4 | 0.2 | 1.4 | 0.2 | -0.9 | 1.6 | 99.6 | 99.4 | 99.7 |
| 2012 | 2324 | 2064 | -103 | -1.9 | -3.5 | 0.02 | 0.00 | 98.7 | 99.4 | 0.9 | 1.6 | 0.6 | -0.1 | 1.6 | 99.9 | 99.3 | 100.1 |
| 2013 | 2297 | 2150 | 76 | 2.1 | 2.3 | -0.00 | 0.00 | 98.9 | 99.8 | 1.6 | 1.9 | 1.1 | 0.8 | 1.7 | 100.3 | 99.5 | 100.3 |
| 2014 | 2289 | 2259 | 190 | 9.9 | 7.4 | 0.03 | 0.01 | 99.4 | 100.6 | 2.4 | 1.9 | 2.1 | 1.5 | 2.0 | 101.1 | 100.0 | 100.6 |
| 2015 | 2300 | 2344 | 271 | 14.7 | 12.0 | 0.05 | 0.03 | 99.6 | 101.3 | 3.3 | 2.5 | 2.6 | 2.4 | 2.1 | 101.7 | 100.0 | 101.1 |
| 2016 | 2206 | 2460 | 438 | 22.7 | 18.2 | 0.06 | 0.03 | 99.7 | 101.7 | 4.2 | 2.8 | 3.4 | 3.4 | 2.2 | 102.4 | 100.5 | 101.9 |

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 Holstein 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 | 2773 | 1727 | -509 | -22.1 | -18.1 | -0.02 | -0.01 | 98.1 | 98.4 | -4.2 | -1.5 | -2.8 | -5.0 | -0.4 | 98.6 | 100.9 | 99.6 |
| 2007 | 2884 | 1759 | -374 | -20.0 | -15.0 | -0.05 | -0.02 | 97.9 | 98.2 | -3.8 | -1.3 | -2.6 | -4.3 | -0.6 | 98.3 | 100.6 | 98.9 |
| 2008 | 3201 | 1830 | -293 | -15.7 | -11.6 | -0.04 | -0.01 | 98.1 | 98.9 | -2.9 | -0.6 | -1.9 | -3.8 | 0.1 | 98.8 | 100.6 | 99.4 |
| 2009 | 3042 | 1869 | -244 | -13.1 | -10.4 | -0.03 | -0.02 | 97.7 | 98.9 | -2.4 | -0.3 | -1.8 | -3.1 | 0.4 | 99.0 | 100.5 | 99.2 |
| 2010 | 3160 | 1935 | -127 | -8.1 | -6.5 | -0.03 | -0.02 | 98.4 | 99.2 | -1.7 | 0.2 | -1.3 | -2.6 | 0.8 | 99.2 | 100.5 | 99.5 |
| 2011 | 2949 | 2015 | -84 | -3.7 | -3.9 | 0.00 | -0.01 | 98.5 | 99.4 | -0.6 | 0.6 | -0.3 | -1.5 | 1.0 | 99.9 | 100.1 | 100.4 |
| 2012 | 2830 | 2124 | -17 | 2.3 | 0.7 | 0.03 | 0.01 | 98.5 | 99.7 | 0.6 | 1.4 | 0.7 | -0.2 | 1.4 | 100.4 | 100.3 | 100.7 |
| 2013 | 2839 | 2217 | 167 | 8.3 | 6.3 | 0.02 | 0.01 | 98.7 | 100.2 | 1.5 | 1.5 | 1.5 | 0.7 | 1.7 | 100.9 | 100.3 | 101.0 |
| 2014 | 2925 | 2284 | 272 | 11.8 | 10.1 | 0.02 | 0.01 | 99.5 | 100.9 | 2.0 | 1.5 | 1.9 | 1.2 | 1.5 | 101.5 | 100.6 | 101.2 |
| 2015 | 2982 | 2386 | 351 | 18.8 | 15.0 | 0.06 | 0.03 | 99.4 | 101.4 | 3.0 | 2.2 | 2.6 | 2.2 | 1.9 | 102.1 | 100.7 | 101.7 |
| 2016 | 2571 | 2495 | 472 | 26.7 | 20.7 | 0.08 | 0.04 | 99.6 | 101.8 | 3.8 | 2.5 | 3.4 | 3.0 | 2.1 | 102.8 | 101.4 | 102.4 |

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.

Provincial genetic trends by birth year for Holstein 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 | 2381 | 1707 | -437 | -23.4 | -18.6 | -0.06 | -0.03 | 98.2 | 98.4 | -4.2 | -1.3 | -2.8 | -5.0 | -0.3 | 98.4 | 100.5 | 99.7 |
| 2007 | 2372 | 1754 | -368 | -19.3 | -15.2 | -0.04 | -0.02 | 98.2 | 98.6 | -3.9 | -1.1 | -2.7 | -4.5 | -0.6 | 98.3 | 100.5 | 99.3 |
| 2008 | 2468 | 1806 | -280 | -16.7 | -12.8 | -0.05 | -0.03 | 98.3 | 99.0 | -3.1 | -0.6 | -2.1 | -4.0 | 0.0 | 98.7 | 100.4 | 99.6 |
| 2009 | 2430 | 1836 | -202 | -14.8 | -10.5 | -0.06 | -0.03 | 98.3 | 99.0 | -2.9 | -0.9 | -2.1 | -3.6 | 0.1 | 98.9 | 100.5 | 99.3 |
| 2010 | 2385 | 1901 | -142 | -9.2 | -6.5 | -0.03 | -0.01 | 98.5 | 99.2 | -2.1 | 0.0 | -1.4 | -3.0 | 0.4 | 98.8 | 100.0 | 99.2 |
| 2011 | 2190 | 1995 | -62 | -3.7 | -3.9 | -0.01 | -0.01 | 98.4 | 99.2 | -0.8 | 0.7 | -0.3 | -1.8 | 1.2 | 99.5 | 99.8 | 100.0 |
| 2012 | 2129 | 2073 | -46 | 1.4 | -1.1 | 0.03 | 0.01 | 98.6 | 99.4 | 0.3 | 1.3 | 0.5 | -0.6 | 1.2 | 99.8 | 99.5 | 100.2 |
| 2013 | 2059 | 2175 | 135 | 5.8 | 5.0 | 0.01 | 0.01 | 98.8 | 100.0 | 1.2 | 1.6 | 1.2 | 0.4 | 1.4 | 100.4 | 99.9 | 100.7 |
| 2014 | 1912 | 2270 | 194 | 12.2 | 8.7 | 0.05 | 0.02 | 99.2 | 100.6 | 1.9 | 1.5 | 2.0 | 1.2 | 1.7 | 101.3 | 100.3 | 101.2 |
| 2015 | 1933 | 2361 | 320 | 17.3 | 13.8 | 0.05 | 0.03 | 99.4 | 101.3 | 3.1 | 2.3 | 2.6 | 2.3 | 1.9 | 101.8 | 100.2 | 101.2 |
| 2016 | 1886 | 2461 | 440 | 24.8 | 18.2 | 0.08 | 0.03 | 99.7 | 101.5 | 3.8 | 2.5 | 3.1 | 3.0 | 2.1 | 102.5 | 100.9 | 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 Holstein 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 | 63149 | 1730 | -447 | -20.2 | -17.0 | -0.03 | -0.02 | 98.5 | 98.4 | -4.4 | -1.7 | -2.8 | -5.0 | -0.6 | 98.5 | 100.7 | 99.4 |
| 2007 | 64660 | 1768 | -336 | -18.2 | -13.2 | -0.05 | -0.02 | 98.4 | 98.5 | -4.0 | -1.5 | -2.6 | -4.5 | -0.7 | 98.3 | 100.5 | 99.0 |
| 2008 | 67798 | 1825 | -268 | -15.3 | -10.6 | -0.04 | -0.01 | 98.4 | 98.9 | -3.2 | -1.0 | -2.0 | -3.9 | -0.1 | 98.7 | 100.6 | 99.3 |
| 2009 | 69213 | 1861 | -176 | -12.3 | -8.4 | -0.05 | -0.02 | 98.1 | 98.9 | -2.8 | -0.9 | -2.0 | -3.4 | 0.0 | 98.9 | 100.4 | 99.1 |
| 2010 | 67728 | 1935 | -71 | -6.8 | -3.9 | -0.03 | -0.01 | 98.6 | 99.1 | -2.1 | -0.3 | -1.3 | -2.8 | 0.5 | 99.0 | 100.3 | 99.2 |
| 2011 | 66660 | 2019 | -29 | -2.9 | -1.5 | -0.01 | -0.00 | 98.6 | 99.4 | -0.9 | 0.1 | -0.5 | -1.6 | 0.7 | 99.9 | 100.2 | 100.2 |
| 2012 | 67026 | 2113 | 26 | 2.9 | 2.0 | 0.02 | 0.01 | 99.0 | 99.7 | 0.2 | 0.7 | 0.4 | -0.5 | 1.0 | 100.3 | 100.3 | 100.6 |
| 2013 | 62150 | 2212 | 179 | 8.0 | 7.5 | 0.02 | 0.01 | 98.9 | 100.4 | 1.1 | 1.0 | 1.2 | 0.5 | 1.4 | 101.0 | 100.5 | 100.6 |
| 2014 | 59593 | 2304 | 252 | 13.1 | 11.4 | 0.04 | 0.03 | 99.5 | 101.2 | 2.0 | 1.2 | 2.0 | 1.3 | 1.6 | 101.8 | 100.8 | 101.1 |
| 2015 | 56728 | 2392 | 365 | 18.2 | 15.3 | 0.04 | 0.03 | 99.4 | 101.6 | 3.1 | 2.0 | 2.8 | 2.3 | 1.9 | 102.4 | 100.8 | 101.6 |
| 2016 | 49015 | 2483 | 506 | 24.2 | 20.2 | 0.05 | 0.03 | 99.6 | 102.1 | 3.8 | 2.5 | 3.3 | 3.0 | 1.9 | 102.9 | 101.4 | 102.2 |

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 Holstein 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 | 52047 | 1714 | -499 | -21.2 | -18.5 | -0.02 | -0.01 | 98.2 | 98.4 | -4.3 | -1.5 | -2.8 | -5.1 | -0.5 | 98.3 | 100.5 | 99.2 |
| 2007 | 53660 | 1745 | -428 | -19.3 | -16.4 | -0.02 | -0.02 | 98.2 | 98.5 | -4.0 | -1.3 | -2.6 | -4.6 | -0.6 | 98.3 | 100.5 | 99.1 |
| 2008 | 55192 | 1799 | -364 | -17.0 | -13.9 | -0.02 | -0.01 | 98.2 | 98.9 | -3.2 | -0.8 | -2.1 | -4.0 | -0.0 | 98.7 | 100.4 | 99.4 |
| 2009 | 55624 | 1836 | -271 | -14.3 | -11.7 | -0.03 | -0.02 | 98.1 | 98.9 | -2.8 | -0.7 | -2.0 | -3.5 | 0.0 | 98.8 | 100.4 | 99.1 |
| 2010 | 55903 | 1898 | -182 | -9.4 | -7.6 | -0.02 | -0.01 | 98.5 | 99.0 | -2.1 | -0.1 | -1.4 | -2.9 | 0.5 | 98.9 | 100.0 | 99.2 |
| 2011 | 54843 | 1983 | -121 | -4.0 | -4.8 | 0.01 | -0.00 | 98.4 | 99.2 | -1.0 | 0.4 | -0.6 | -1.9 | 1.0 | 99.5 | 99.8 | 100.1 |
| 2012 | 53861 | 2074 | -48 | 1.1 | -1.0 | 0.03 | 0.01 | 98.6 | 99.3 | 0.2 | 1.0 | 0.3 | -0.7 | 1.2 | 99.9 | 99.8 | 100.4 |
| 2013 | 51958 | 2156 | 103 | 5.9 | 4.1 | 0.02 | 0.01 | 98.6 | 99.8 | 0.9 | 1.2 | 0.9 | 0.2 | 1.2 | 100.3 | 99.8 | 100.7 |
| 2014 | 50577 | 2254 | 194 | 11.3 | 8.1 | 0.04 | 0.02 | 99.1 | 100.6 | 1.8 | 1.4 | 1.8 | 1.0 | 1.6 | 101.2 | 100.1 | 100.9 |
| 2015 | 50404 | 2344 | 287 | 16.3 | 12.5 | 0.05 | 0.03 | 99.2 | 101.2 | 2.8 | 2.1 | 2.4 | 2.0 | 1.8 | 101.8 | 100.3 | 101.3 |
| 2016 | 44065 | 2436 | 438 | 22.6 | 17.5 | 0.06 | 0.03 | 99.4 | 101.5 | 3.5 | 2.4 | 2.9 | 2.8 | 1.9 | 102.3 | 100.7 | 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 Holstein 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 | 5673 | 1660 | -461 | -25.7 | -18.9 | -0.07 | -0.03 | 98.3 | 98.1 | -5.3 | -2.8 | -3.1 | -5.6 | -1.4 | 98.2 | 100.7 | 99.2 |
| 2007 | 5501 | 1704 | -389 | -22.3 | -16.5 | -0.06 | -0.03 | 98.2 | 98.2 | -4.8 | -2.4 | -2.9 | -5.2 | -1.2 | 98.3 | 100.7 | 98.9 |
| 2008 | 6130 | 1758 | -330 | -19.9 | -14.2 | -0.06 | -0.03 | 98.1 | 98.5 | -3.9 | -1.7 | -2.4 | -4.5 | -0.7 | 98.5 | 100.6 | 99.4 |
| 2009 | 6015 | 1802 | -265 | -16.6 | -12.9 | -0.05 | -0.03 | 98.1 | 98.6 | -3.6 | -1.7 | -2.3 | -4.0 | -0.6 | 98.9 | 100.7 | 99.3 |
| 2010 | 5954 | 1879 | -160 | -12.3 | -8.7 | -0.05 | -0.03 | 98.5 | 98.8 | -2.7 | -1.3 | -1.8 | -3.1 | -0.2 | 99.2 | 100.9 | 99.5 |
| 2011 | 5884 | 1957 | -71 | -7.1 | -5.0 | -0.04 | -0.02 | 98.3 | 99.1 | -1.9 | -0.7 | -1.1 | -2.4 | 0.3 | 99.7 | 100.7 | 100.3 |
| 2012 | 6104 | 2044 | 2 | -2.3 | -1.0 | -0.02 | -0.01 | 98.6 | 99.3 | -0.9 | -0.4 | -0.3 | -1.4 | 0.6 | 100.2 | 100.8 | 100.7 |
| 2013 | 5374 | 2144 | 183 | 2.9 | 5.1 | -0.03 | -0.01 | 98.8 | 99.9 | -0.0 | -0.2 | 0.4 | -0.4 | 0.7 | 100.9 | 101.0 | 101.0 |
| 2014 | 5299 | 2222 | 259 | 7.3 | 8.7 | -0.02 | 0.00 | 99.3 | 100.4 | 0.8 | 0.1 | 1.0 | 0.4 | 0.8 | 101.4 | 101.1 | 101.3 |
| 2015 | 5236 | 2314 | 341 | 12.9 | 12.7 | 0.01 | 0.01 | 99.3 | 101.0 | 1.7 | 0.6 | 1.6 | 1.3 | 0.9 | 102.1 | 101.4 | 101.9 |
| 2016 | 4257 | 2410 | 462 | 20.2 | 17.9 | 0.03 | 0.02 | 99.8 | 101.2 | 2.5 | 0.9 | 2.2 | 2.2 | 1.3 | 102.6 | 101.7 | 102.3 |

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 Holstein 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 | 3921 | 1661 | -529 | -28.7 | -21.8 | -0.07 | -0.03 | 97.9 | 97.9 | -4.8 | -2.3 | -2.9 | -5.3 | -1.0 | 98.3 | 101.1 | 99.4 |
| 2007 | 3538 | 1713 | -466 | -25.2 | -18.9 | -0.07 | -0.03 | 97.9 | 98.3 | -4.2 | -1.9 | -2.8 | -4.7 | -1.0 | 98.5 | 101.1 | 99.2 |
| 2008 | 4050 | 1750 | -421 | -24.0 | -17.2 | -0.07 | -0.02 | 97.8 | 98.3 | -3.4 | -1.2 | -2.4 | -4.0 | -0.4 | 98.5 | 100.8 | 99.3 |
| 2009 | 3923 | 1793 | -351 | -20.7 | -15.3 | -0.06 | -0.03 | 97.9 | 98.5 | -3.1 | -1.1 | -2.1 | -3.7 | -0.4 | 98.9 | 101.0 | 99.3 |
| 2010 | 3940 | 1853 | -246 | -16.4 | -11.5 | -0.06 | -0.03 | 98.1 | 98.4 | -2.4 | -0.9 | -1.7 | -3.0 | 0.1 | 99.0 | 100.9 | 99.4 |
| 2011 | 3651 | 1933 | -152 | -11.7 | -7.5 | -0.05 | -0.02 | 98.2 | 98.8 | -1.4 | -0.2 | -0.8 | -2.2 | 0.5 | 99.4 | 100.6 | 99.9 |
| 2012 | 3866 | 2016 | -80 | -6.1 | -4.0 | -0.02 | -0.01 | 98.2 | 99.0 | -0.4 | 0.3 | -0.1 | -1.1 | 0.9 | 99.9 | 100.4 | 100.4 |
| 2013 | 3513 | 2100 | 3 | -2.2 | -0.4 | -0.01 | -0.00 | 98.3 | 99.6 | 0.5 | 0.6 | 0.6 | -0.2 | 1.0 | 100.6 | 100.6 | 100.8 |
| 2014 | 3055 | 2212 | 170 | 4.5 | 5.2 | -0.01 | -0.00 | 98.6 | 100.2 | 1.5 | 1.0 | 1.5 | 0.8 | 1.3 | 101.3 | 100.9 | 101.3 |
| 2015 | 3159 | 2294 | 244 | 10.4 | 9.9 | 0.02 | 0.02 | 99.2 | 100.8 | 2.2 | 1.3 | 2.0 | 1.6 | 1.3 | 101.8 | 100.9 | 101.5 |
| 2016 | 3317 | 2391 | 337 | 17.1 | 15.0 | 0.05 | 0.03 | 99.4 | 101.5 | 2.9 | 1.5 | 2.6 | 2.5 | 1.2 | 102.5 | 101.3 | 102.2 |

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 Holstein cows
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Alberta

| Year | Cows | LPI | Milk | Fat | Protein | Fat% | Protein% | Pers | SCS | Conf | DS | F&L | MS | Rump | HL | DF | DCA |
|------|-------|------|------|-------|---------|-------|----------|------|-------|------|------|------|------|------|-------|-------|-------|
| 2006 | 13265 | 1659 | -452 | -27.0 | -18.9 | -0.09 | -0.03 | 98.2 | 98.1 | -5.3 | -3.0 | -3.4 | -5.5 | -1.5 | 98.4 | 101.1 | 99.4 |
| 2007 | 12715 | 1713 | -363 | -23.2 | -15.8 | -0.08 | -0.03 | 98.1 | 98.4 | -4.7 | -2.5 | -3.0 | -4.9 | -1.5 | 98.5 | 100.9 | 99.1 |
| 2008 | 13399 | 1768 | -306 | -20.4 | -13.8 | -0.08 | -0.03 | 97.9 | 98.6 | -3.8 | -1.9 | -2.4 | -4.2 | -0.9 | 98.7 | 100.9 | 99.4 |
| 2009 | 13671 | 1809 | -243 | -17.9 | -11.8 | -0.07 | -0.03 | 97.8 | 98.6 | -3.4 | -1.7 | -2.2 | -3.7 | -0.7 | 99.0 | 100.9 | 99.4 |
| 2010 | 13456 | 1876 | -173 | -13.6 | -8.7 | -0.06 | -0.02 | 98.0 | 98.7 | -2.6 | -1.3 | -1.7 | -2.9 | -0.3 | 99.2 | 100.8 | 99.5 |
| 2011 | 12902 | 1959 | -69 | -7.7 | -4.5 | -0.04 | -0.02 | 98.1 | 98.9 | -1.7 | -0.7 | -1.1 | -2.1 | 0.2 | 99.7 | 100.6 | 100.1 |
| 2012 | 13088 | 2040 | -7 | -2.9 | -1.4 | -0.02 | -0.01 | 98.2 | 99.2 | -0.7 | -0.2 | -0.3 | -1.2 | 0.5 | 100.2 | 100.5 | 100.6 |
| 2013 | 11985 | 2119 | 108 | 1.1 | 2.7 | -0.02 | -0.01 | 98.6 | 99.7 | 0.1 | -0.1 | 0.3 | -0.3 | 0.7 | 100.7 | 100.7 | 100.8 |
| 2014 | 11496 | 2213 | 205 | 6.6 | 7.1 | -0.00 | 0.01 | 98.8 | 100.3 | 1.0 | 0.4 | 1.2 | 0.6 | 1.0 | 101.3 | 100.8 | 101.1 |
| 2015 | 11424 | 2288 | 285 | 10.2 | 10.7 | 0.00 | 0.01 | 99.1 | 100.8 | 1.8 | 0.7 | 1.7 | 1.4 | 1.1 | 101.9 | 101.0 | 101.5 |
| 2016 | 9376 | 2384 | 408 | 17.2 | 15.7 | 0.02 | 0.02 | 99.4 | 101.3 | 2.6 | 1.2 | 2.3 | 2.2 | 1.2 | 102.5 | 101.3 | 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 Holstein 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 | 11519 | 1688 | -442 | -25.1 | -18.6 | -0.07 | -0.03 | 98.4 | 98.0 | -4.6 | -2.2 | -3.1 | -5.0 | -0.9 | 98.3 | 100.8 | 99.5 |
| 2007 | 10943 | 1732 | -365 | -22.2 | -15.9 | -0.07 | -0.03 | 98.3 | 98.4 | -4.2 | -2.0 | -2.8 | -4.6 | -0.9 | 98.5 | 100.7 | 99.3 |
| 2008 | 11159 | 1776 | -285 | -20.5 | -13.4 | -0.08 | -0.03 | 98.3 | 98.5 | -3.4 | -1.3 | -2.3 | -3.8 | -0.4 | 98.5 | 100.4 | 99.3 |
| 2009 | 11687 | 1818 | -214 | -17.6 | -11.5 | -0.08 | -0.03 | 98.0 | 98.4 | -3.0 | -1.3 | -2.1 | -3.4 | -0.4 | 98.8 | 100.6 | 99.3 |
| 2010 | 11220 | 1881 | -139 | -13.1 | -8.0 | -0.07 | -0.03 | 98.4 | 98.6 | -2.3 | -0.9 | -1.6 | -2.7 | 0.1 | 98.9 | 100.4 | 99.2 |
| 2011 | 11382 | 1975 | -45 | -7.5 | -4.1 | -0.05 | -0.02 | 98.5 | 99.0 | -1.2 | -0.0 | -0.7 | -1.8 | 0.6 | 99.6 | 100.2 | 100.2 |
| 2012 | 11763 | 2055 | -17 | -2.7 | -1.6 | -0.01 | -0.01 | 98.5 | 99.3 | -0.2 | 0.3 | 0.1 | -0.7 | 0.9 | 100.1 | 100.2 | 100.6 |
| 2013 | 11830 | 2143 | 135 | 2.6 | 3.4 | -0.02 | -0.01 | 98.8 | 100.0 | 0.6 | 0.5 | 0.8 | 0.1 | 1.0 | 100.8 | 100.3 | 100.7 |
| 2014 | 11481 | 2240 | 254 | 7.6 | 8.7 | -0.01 | 0.01 | 99.1 | 100.7 | 1.4 | 0.7 | 1.6 | 0.9 | 1.3 | 101.5 | 100.7 | 101.2 |
| 2015 | 11259 | 2337 | 349 | 13.5 | 13.0 | 0.01 | 0.01 | 99.3 | 101.1 | 2.4 | 1.4 | 2.2 | 1.9 | 1.5 | 102.1 | 100.9 | 101.6 |
| 2016 | 9786 | 2442 | 490 | 21.6 | 18.7 | 0.03 | 0.02 | 99.7 | 101.6 | 3.3 | 1.8 | 2.7 | 2.7 | 1.8 | 102.7 | 101.3 | 102.3 |

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 Holstein 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 |
|------|------|------|------|-------|---------|-------|----------|-------|-------|------|------|------|------|------|-------|-------|-------|
| 2006 | 149 | 1595 | -629 | -31.3 | -24.7 | -0.07 | -0.03 | 97.2 | 98.2 | -5.6 | -3.1 | -3.7 | -6.0 | -1.7 | 98.3 | 101.1 | 99.1 |
| 2007 | 160 | 1623 | -551 | -27.8 | -22.7 | -0.06 | -0.04 | 98.0 | 98.2 | -5.3 | -3.0 | -3.3 | -5.7 | -1.4 | 98.4 | 100.6 | 99.0 |
| 2008 | 177 | 1701 | -466 | -24.8 | -18.4 | -0.06 | -0.02 | 97.6 | 98.8 | -4.6 | -2.4 | -2.7 | -5.1 | -0.6 | 98.8 | 101.0 | 98.9 |
| 2009 | 198 | 1770 | -221 | -19.2 | -12.5 | -0.09 | -0.04 | 97.8 | 98.6 | -3.9 | -2.2 | -2.1 | -4.3 | -0.4 | 98.9 | 100.7 | 99.0 |
| 2010 | 254 | 1817 | -211 | -15.9 | -13.4 | -0.07 | -0.05 | 98.8 | 98.8 | -2.7 | -1.3 | -2.0 | -3.0 | -0.1 | 98.9 | 100.3 | 99.0 |
| 2011 | 234 | 1916 | -117 | -10.9 | -7.2 | -0.05 | -0.03 | 98.5 | 99.5 | -2.2 | -1.2 | -1.3 | -2.7 | 0.1 | 100.0 | 100.8 | 100.4 |
| 2012 | 305 | 2039 | 42 | -2.8 | -0.9 | -0.03 | -0.02 | 98.4 | 99.3 | -0.5 | 0.2 | 0.2 | -1.1 | 0.7 | 100.0 | 100.1 | 100.6 |
| 2013 | 297 | 2119 | 92 | 1.8 | 2.3 | -0.01 | -0.00 | 98.7 | 99.8 | -0.1 | -0.4 | 0.4 | -0.3 | 0.3 | 100.7 | 100.8 | 100.7 |
| 2014 | 357 | 2258 | 238 | 9.4 | 10.0 | 0.01 | 0.02 | 99.4 | 101.0 | 1.2 | 0.4 | 1.2 | 0.8 | 0.8 | 101.8 | 101.5 | 101.4 |
| 2015 | 349 | 2372 | 540 | 18.8 | 18.2 | -0.01 | 0.00 | 99.7 | 101.8 | 1.9 | 1.0 | 1.9 | 1.6 | 0.2 | 102.3 | 101.3 | 101.9 |
| 2016 | 346 | 2489 | 728 | 28.8 | 26.1 | 0.02 | 0.02 | 100.6 | 102.3 | 2.5 | 0.9 | 2.4 | 2.2 | 0.6 | 103.0 | 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.