

Provincial genetic trends by birth year for Holstein 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 | 2368 | 1878 | -591 | -30.1 | -25.2 | -0.06 | -0.04 | 97.5 | 97.3 | -4.3 | -0.2 | -3.1 | -5.5 | 0.6 | 96.8 | 98.9 | 97.4 |
| 2010 | 2417 | 1934 | -537 | -25.7 | -22.4 | -0.04 | -0.03 | 98.1 | 97.7 | -3.6 | 0.3 | -2.5 | -4.9 | 0.6 | 96.9 | 98.6 | 97.2 |
| 2011 | 2190 | 2027 | -440 | -20.3 | -19.2 | -0.03 | -0.03 | 97.8 | 97.8 | -2.3 | 1.0 | -1.4 | -3.7 | 1.3 | 97.5 | 98.3 | 98.1 |
| 2012 | 2350 | 2076 | -419 | -17.4 | -16.6 | -0.01 | -0.02 | 97.8 | 97.7 | -1.6 | 1.2 | -1.0 | -2.9 | 1.2 | 97.7 | 98.1 | 98.4 |
| 2013 | 2328 | 2161 | -242 | -13.1 | -10.8 | -0.03 | -0.02 | 98.1 | 98.2 | -0.8 | 1.3 | -0.6 | -2.0 | 1.3 | 98.1 | 98.4 | 98.6 |
| 2014 | 2350 | 2263 | -136 | -5.7 | -6.0 | 0.00 | -0.01 | 98.5 | 98.9 | -0.1 | 1.3 | 0.4 | -1.3 | 1.6 | 98.8 | 98.8 | 98.9 |
| 2015 | 2382 | 2348 | -45 | -0.7 | -1.0 | 0.01 | 0.01 | 98.9 | 99.6 | 0.7 | 1.7 | 0.8 | -0.4 | 1.6 | 99.4 | 98.8 | 99.4 |
| 2016 | 2387 | 2456 | 113 | 7.2 | 5.1 | 0.03 | 0.01 | 98.9 | 99.9 | 1.5 | 1.7 | 1.5 | 0.4 | 1.6 | 100.1 | 99.3 | 100.2 |
| 2017 | 2030 | 2560 | 218 | 14.7 | 11.1 | 0.06 | 0.03 | 99.3 | 100.6 | 2.3 | 2.0 | 1.9 | 1.3 | 1.8 | 100.8 | 99.5 | 100.7 |
| 2018 | 1955 | 2636 | 380 | 20.6 | 16.3 | 0.06 | 0.03 | 99.6 | 100.8 | 2.9 | 2.2 | 2.0 | 2.0 | 2.1 | 101.1 | 99.8 | 101.2 |
| 2019 | 1692 | 2727 | 388 | 28.5 | 19.9 | 0.12 | 0.06 | 99.5 | 101.6 | 3.5 | 2.5 | 2.7 | 2.5 | 2.4 | 101.8 | 100.0 | 101.5 |

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.

Provincial genetic trends by birth year for Holstein cows
Lactanet Canada, August 2022

Nova Scotia

| Year | Cows | LPI | Milk | Fat | Protein | Fat% | Protein% | Pers | SCS | Conf | DS | F&L | MS | Rump | HL | DF | DCA |
|------|------|------|------|-------|---------|-------|----------|------|-------|------|------|------|------|------|-------|-------|-------|
| 2009 | 3049 | 1889 | -545 | -28.1 | -23.2 | -0.06 | -0.04 | 96.8 | 97.4 | -4.9 | -0.6 | -3.4 | -5.8 | 0.2 | 96.9 | 99.4 | 97.6 |
| 2010 | 3176 | 1953 | -429 | -23.2 | -19.4 | -0.05 | -0.04 | 97.5 | 97.7 | -4.2 | -0.1 | -3.0 | -5.3 | 0.5 | 97.0 | 99.4 | 97.9 |
| 2011 | 2969 | 2030 | -393 | -18.9 | -17.0 | -0.03 | -0.03 | 97.6 | 97.9 | -3.1 | 0.2 | -2.0 | -4.2 | 0.8 | 97.8 | 99.0 | 98.7 |
| 2012 | 2852 | 2134 | -331 | -13.0 | -12.5 | 0.00 | -0.01 | 97.6 | 98.1 | -1.8 | 0.9 | -0.9 | -3.0 | 1.1 | 98.2 | 99.2 | 99.0 |
| 2013 | 2875 | 2224 | -154 | -7.3 | -7.0 | -0.01 | -0.01 | 97.8 | 98.6 | -0.9 | 1.0 | -0.2 | -2.1 | 1.3 | 98.6 | 99.2 | 99.3 |
| 2014 | 2961 | 2286 | -54 | -3.7 | -3.3 | -0.01 | -0.01 | 98.6 | 99.2 | -0.6 | 0.9 | 0.1 | -1.6 | 1.1 | 99.2 | 99.4 | 99.4 |
| 2015 | 3073 | 2381 | 21 | 2.6 | 1.5 | 0.02 | 0.01 | 98.7 | 99.7 | 0.4 | 1.3 | 0.8 | -0.6 | 1.4 | 99.8 | 99.5 | 100.0 |
| 2016 | 2814 | 2486 | 154 | 9.8 | 7.3 | 0.04 | 0.02 | 98.9 | 100.1 | 1.1 | 1.3 | 1.4 | 0.1 | 1.6 | 100.6 | 100.2 | 100.8 |
| 2017 | 2621 | 2581 | 276 | 15.7 | 11.9 | 0.05 | 0.02 | 99.4 | 100.7 | 2.3 | 1.6 | 1.9 | 1.3 | 2.2 | 101.2 | 100.1 | 101.0 |
| 2018 | 2444 | 2654 | 348 | 20.7 | 15.4 | 0.07 | 0.03 | 99.7 | 101.0 | 3.1 | 2.0 | 2.4 | 2.1 | 2.6 | 101.5 | 100.1 | 101.5 |
| 2019 | 2144 | 2752 | 446 | 29.8 | 22.0 | 0.11 | 0.06 | 99.9 | 101.6 | 3.6 | 2.2 | 2.8 | 2.7 | 2.7 | 102.0 | 100.3 | 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 2022

New Brunswick

| Year | Cows | LPI | Milk | Fat | Protein | Fat% | Protein% | Pers | SCS | Conf | DS | F&L | MS | Rump | HL | DF | DCA |
|------|------|------|------|-------|---------|-------|----------|------|-------|------|------|------|------|------|-------|-------|-------|
| 2009 | 2446 | 1852 | -501 | -29.9 | -23.4 | -0.09 | -0.05 | 97.4 | 97.5 | -5.5 | -1.2 | -3.7 | -6.4 | -0.1 | 96.8 | 99.3 | 97.7 |
| 2010 | 2405 | 1915 | -446 | -24.4 | -19.5 | -0.06 | -0.03 | 97.6 | 97.7 | -4.7 | -0.3 | -3.1 | -5.8 | 0.2 | 96.7 | 98.9 | 97.6 |
| 2011 | 2213 | 2007 | -370 | -19.1 | -17.0 | -0.04 | -0.04 | 97.4 | 97.6 | -3.3 | 0.4 | -1.9 | -4.6 | 0.9 | 97.4 | 98.7 | 98.4 |
| 2012 | 2162 | 2083 | -358 | -14.1 | -14.3 | 0.00 | -0.02 | 97.6 | 97.8 | -2.1 | 0.8 | -1.1 | -3.4 | 0.9 | 97.6 | 98.3 | 98.6 |
| 2013 | 2105 | 2179 | -181 | -9.8 | -8.3 | -0.02 | -0.02 | 97.8 | 98.3 | -1.3 | 1.0 | -0.5 | -2.4 | 1.0 | 98.2 | 98.7 | 99.0 |
| 2014 | 1970 | 2272 | -128 | -3.5 | -4.7 | 0.02 | -0.00 | 98.2 | 98.9 | -0.6 | 0.8 | 0.3 | -1.7 | 1.3 | 99.0 | 99.2 | 99.5 |
| 2015 | 2043 | 2352 | -10 | 1.0 | 0.2 | 0.02 | 0.01 | 98.6 | 99.5 | 0.4 | 1.3 | 0.7 | -0.7 | 1.4 | 99.5 | 99.0 | 99.5 |
| 2016 | 2074 | 2444 | 105 | 8.0 | 4.3 | 0.04 | 0.01 | 98.7 | 99.8 | 1.1 | 1.4 | 1.1 | 0.0 | 1.7 | 100.2 | 99.5 | 100.2 |
| 2017 | 1808 | 2540 | 192 | 14.3 | 8.9 | 0.06 | 0.02 | 99.1 | 100.5 | 1.9 | 1.7 | 1.6 | 1.0 | 1.9 | 100.9 | 99.8 | 100.7 |
| 2018 | 1626 | 2632 | 270 | 20.6 | 13.0 | 0.09 | 0.03 | 99.5 | 100.9 | 2.9 | 1.9 | 2.2 | 2.1 | 2.2 | 101.4 | 99.9 | 101.3 |
| 2019 | 1381 | 2720 | 376 | 28.1 | 19.7 | 0.12 | 0.06 | 99.9 | 101.4 | 3.4 | 2.1 | 2.6 | 2.4 | 2.4 | 101.9 | 100.2 | 101.7 |

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.

Provincial genetic trends by birth year for Holstein cows
Lactanet Canada, August 2022

Quebec

| Year | Cows | LPI | Milk | Fat | Protein | Fat% | Protein% | Pers | SCS | Conf | DS | F&L | MS | Rump | HL | DF | DCA |
|------|-------|------|------|-------|---------|-------|----------|-------|-------|------|------|------|------|------|-------|-------|-------|
| 2009 | 69409 | 1878 | -478 | -27.4 | -21.3 | -0.08 | -0.04 | 97.2 | 97.4 | -5.4 | -1.2 | -3.6 | -6.2 | -0.2 | 96.8 | 99.2 | 97.5 |
| 2010 | 67975 | 1951 | -376 | -21.9 | -16.9 | -0.06 | -0.03 | 97.7 | 97.6 | -4.6 | -0.6 | -2.9 | -5.6 | 0.3 | 96.8 | 99.1 | 97.6 |
| 2011 | 67071 | 2031 | -338 | -18.2 | -14.6 | -0.04 | -0.02 | 97.7 | 97.8 | -3.5 | -0.3 | -2.1 | -4.4 | 0.5 | 97.7 | 99.0 | 98.5 |
| 2012 | 67675 | 2122 | -290 | -12.4 | -11.1 | -0.01 | -0.01 | 98.1 | 98.1 | -2.3 | 0.2 | -1.2 | -3.3 | 0.7 | 98.1 | 99.2 | 98.9 |
| 2013 | 63234 | 2215 | -142 | -7.8 | -5.9 | -0.02 | -0.01 | 98.0 | 98.8 | -1.4 | 0.4 | -0.5 | -2.3 | 1.0 | 98.8 | 99.3 | 99.0 |
| 2014 | 61300 | 2303 | -67 | -2.8 | -1.9 | 0.00 | 0.00 | 98.7 | 99.5 | -0.6 | 0.5 | 0.2 | -1.6 | 1.2 | 99.5 | 99.7 | 99.3 |
| 2015 | 59862 | 2387 | 39 | 2.3 | 1.9 | 0.01 | 0.01 | 98.7 | 99.9 | 0.4 | 1.1 | 0.9 | -0.6 | 1.4 | 100.1 | 99.6 | 99.8 |
| 2016 | 56155 | 2478 | 181 | 8.4 | 7.0 | 0.02 | 0.01 | 99.0 | 100.4 | 1.0 | 1.3 | 1.3 | 0.0 | 1.4 | 100.7 | 100.2 | 100.5 |
| 2017 | 53105 | 2565 | 338 | 12.4 | 12.1 | 0.00 | 0.01 | 99.4 | 101.1 | 2.1 | 1.5 | 2.0 | 1.2 | 2.1 | 101.3 | 100.0 | 100.9 |
| 2018 | 49650 | 2659 | 389 | 19.8 | 16.6 | 0.05 | 0.03 | 99.8 | 101.1 | 3.0 | 1.7 | 2.4 | 2.2 | 2.4 | 101.8 | 100.3 | 101.4 |
| 2019 | 40202 | 2748 | 514 | 27.2 | 22.4 | 0.07 | 0.04 | 100.0 | 101.7 | 3.6 | 2.2 | 2.8 | 2.8 | 2.4 | 102.2 | 100.4 | 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 Holstein cows
Lactanet Canada, August 2022

Ontario

| Year | Cows | LPI | Milk | Fat | Protein | Fat% | Protein% | Pers | SCS | Conf | DS | F&L | MS | Rump | HL | DF | DCA |
|------|-------|------|------|-------|---------|-------|----------|------|-------|------|------|------|------|------|-------|-------|-------|
| 2009 | 55833 | 1853 | -572 | -29.4 | -24.7 | -0.06 | -0.04 | 97.2 | 97.4 | -5.3 | -0.9 | -3.6 | -6.3 | -0.2 | 96.7 | 99.2 | 97.5 |
| 2010 | 56221 | 1913 | -487 | -24.5 | -20.6 | -0.05 | -0.03 | 97.6 | 97.5 | -4.6 | -0.4 | -3.0 | -5.7 | 0.3 | 96.7 | 98.9 | 97.6 |
| 2011 | 55261 | 1995 | -429 | -19.2 | -17.9 | -0.02 | -0.03 | 97.6 | 97.7 | -3.5 | 0.0 | -2.2 | -4.7 | 0.7 | 97.4 | 98.7 | 98.4 |
| 2012 | 54503 | 2084 | -360 | -14.1 | -14.1 | 0.00 | -0.01 | 97.7 | 97.7 | -2.3 | 0.6 | -1.4 | -3.5 | 0.9 | 97.7 | 98.7 | 98.8 |
| 2013 | 52990 | 2163 | -213 | -9.6 | -9.1 | -0.01 | -0.01 | 97.7 | 98.1 | -1.6 | 0.7 | -0.8 | -2.6 | 0.9 | 98.1 | 98.7 | 99.0 |
| 2014 | 52106 | 2255 | -128 | -4.4 | -5.2 | 0.01 | -0.00 | 98.2 | 98.9 | -0.7 | 0.8 | 0.1 | -1.8 | 1.2 | 98.9 | 99.0 | 99.2 |
| 2015 | 53261 | 2340 | -37 | 0.4 | -0.9 | 0.02 | 0.00 | 98.4 | 99.4 | 0.2 | 1.2 | 0.6 | -0.9 | 1.4 | 99.5 | 99.2 | 99.7 |
| 2016 | 50919 | 2428 | 113 | 6.5 | 4.2 | 0.02 | 0.01 | 98.6 | 99.7 | 0.9 | 1.3 | 1.0 | -0.1 | 1.4 | 100.1 | 99.5 | 100.3 |
| 2017 | 46930 | 2523 | 217 | 11.4 | 9.0 | 0.03 | 0.02 | 99.0 | 100.5 | 1.8 | 1.6 | 1.7 | 0.9 | 1.9 | 100.7 | 99.7 | 100.8 |
| 2018 | 43021 | 2611 | 311 | 17.2 | 13.5 | 0.05 | 0.03 | 99.3 | 100.7 | 2.7 | 1.8 | 2.2 | 1.8 | 2.2 | 101.2 | 100.1 | 101.3 |
| 2019 | 36856 | 2701 | 393 | 23.9 | 18.9 | 0.08 | 0.05 | 99.6 | 101.2 | 3.4 | 2.2 | 2.7 | 2.4 | 2.4 | 101.7 | 100.3 | 101.7 |

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.

Provincial genetic trends by birth year for Holstein cows
Lactanet Canada, August 2022

Manitoba

| Year | Cows | LPI | Milk | Fat | Protein | Fat% | Protein% | Pers | SCS | Conf | DS | F&L | MS | Rump | HL | DF | DCA |
|------|------|------|------|-------|---------|-------|----------|------|-------|------|------|------|------|------|-------|-------|-------|
| 2009 | 6037 | 1820 | -563 | -31.7 | -25.8 | -0.09 | -0.05 | 97.2 | 97.1 | -6.2 | -2.0 | -3.9 | -6.7 | -0.8 | 96.8 | 99.6 | 97.7 |
| 2010 | 5986 | 1896 | -462 | -27.5 | -21.6 | -0.08 | -0.05 | 97.6 | 97.3 | -5.3 | -1.6 | -3.4 | -5.9 | -0.4 | 97.1 | 99.8 | 97.9 |
| 2011 | 5926 | 1971 | -375 | -22.2 | -17.9 | -0.07 | -0.04 | 97.5 | 97.6 | -4.4 | -1.1 | -2.7 | -5.2 | 0.1 | 97.6 | 99.6 | 98.6 |
| 2012 | 6198 | 2056 | -306 | -17.6 | -14.0 | -0.05 | -0.03 | 97.7 | 97.8 | -3.5 | -0.9 | -2.0 | -4.2 | 0.3 | 98.1 | 99.7 | 99.0 |
| 2013 | 5477 | 2151 | -135 | -12.6 | -8.2 | -0.06 | -0.03 | 97.9 | 98.3 | -2.6 | -0.7 | -1.3 | -3.3 | 0.4 | 98.7 | 99.9 | 99.3 |
| 2014 | 5490 | 2221 | -65 | -8.5 | -4.8 | -0.05 | -0.02 | 98.3 | 98.7 | -1.9 | -0.6 | -0.8 | -2.5 | 0.5 | 99.2 | 100.1 | 99.6 |
| 2015 | 5598 | 2309 | 16 | -3.3 | -1.0 | -0.03 | -0.01 | 98.5 | 99.3 | -1.0 | -0.2 | -0.2 | -1.6 | 0.5 | 99.9 | 100.3 | 100.2 |
| 2016 | 5233 | 2402 | 137 | 2.9 | 4.0 | -0.02 | -0.00 | 99.0 | 99.5 | -0.1 | 0.0 | 0.4 | -0.7 | 0.9 | 100.4 | 100.6 | 100.6 |
| 2017 | 4713 | 2514 | 279 | 10.2 | 10.1 | 0.00 | 0.01 | 99.4 | 100.3 | 0.9 | 0.3 | 0.9 | 0.5 | 1.1 | 101.1 | 100.8 | 101.2 |
| 2018 | 4216 | 2598 | 340 | 17.4 | 14.5 | 0.04 | 0.03 | 99.6 | 100.3 | 1.8 | 0.8 | 1.6 | 1.2 | 1.5 | 101.3 | 100.6 | 101.6 |
| 2019 | 3632 | 2689 | 463 | 24.2 | 20.3 | 0.06 | 0.04 | 99.9 | 100.8 | 2.5 | 1.2 | 2.0 | 1.8 | 1.7 | 101.9 | 101.0 | 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 2022

Saskatchewan

| Year | Cows | LPI | Milk | Fat | Protein | Fat% | Protein% | Pers | SCS | Conf | DS | F&L | MS | Rump | HL | DF | DCA |
|------|------|------|------|-------|---------|-------|----------|------|-------|------|------|------|------|------|-------|-------|-------|
| 2009 | 3933 | 1813 | -652 | -35.8 | -28.3 | -0.09 | -0.05 | 97.0 | 97.1 | -5.7 | -1.4 | -3.7 | -6.4 | -0.5 | 96.8 | 99.9 | 97.7 |
| 2010 | 3963 | 1872 | -548 | -31.5 | -24.4 | -0.09 | -0.05 | 97.2 | 96.9 | -5.0 | -1.2 | -3.3 | -5.7 | -0.1 | 96.9 | 99.7 | 97.8 |
| 2011 | 3690 | 1951 | -450 | -26.7 | -20.3 | -0.08 | -0.04 | 97.3 | 97.2 | -3.9 | -0.5 | -2.4 | -4.9 | 0.2 | 97.3 | 99.4 | 98.3 |
| 2012 | 3945 | 2029 | -389 | -21.4 | -17.1 | -0.05 | -0.03 | 97.4 | 97.5 | -2.9 | -0.2 | -1.8 | -3.9 | 0.6 | 97.8 | 99.2 | 98.8 |
| 2013 | 3611 | 2109 | -313 | -17.6 | -13.6 | -0.04 | -0.02 | 97.4 | 98.0 | -2.1 | 0.1 | -1.0 | -3.0 | 0.7 | 98.4 | 99.5 | 99.1 |
| 2014 | 3208 | 2210 | -155 | -11.2 | -8.3 | -0.04 | -0.02 | 97.8 | 98.6 | -1.2 | 0.3 | -0.3 | -2.1 | 1.0 | 99.0 | 99.7 | 99.5 |
| 2015 | 3490 | 2286 | -86 | -5.9 | -3.7 | -0.02 | -0.00 | 98.3 | 99.1 | -0.5 | 0.5 | 0.1 | -1.3 | 0.9 | 99.5 | 99.7 | 99.7 |
| 2016 | 3764 | 2384 | 24 | 0.7 | 1.8 | 0.01 | 0.01 | 98.6 | 99.8 | 0.2 | 0.4 | 0.6 | -0.5 | 0.7 | 100.2 | 100.0 | 100.5 |
| 2017 | 3736 | 2461 | 105 | 5.1 | 5.3 | 0.02 | 0.02 | 99.2 | 100.3 | 1.1 | 0.8 | 1.0 | 0.5 | 1.1 | 100.7 | 100.1 | 100.7 |
| 2018 | 3760 | 2556 | 205 | 11.1 | 9.2 | 0.03 | 0.02 | 99.3 | 100.4 | 2.2 | 1.1 | 1.8 | 1.6 | 1.6 | 101.2 | 100.4 | 101.3 |
| 2019 | 3251 | 2638 | 268 | 17.6 | 14.7 | 0.07 | 0.05 | 99.4 | 100.8 | 2.7 | 1.3 | 2.1 | 2.2 | 1.6 | 101.6 | 100.7 | 101.7 |

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.

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 |
|------|-------|------|------|-------|---------|-------|----------|------|-------|------|------|------|------|------|-------|-------|-------|
| 2009 | 13760 | 1825 | -548 | -33.1 | -24.8 | -0.10 | -0.05 | 96.9 | 97.1 | -6.0 | -2.0 | -3.8 | -6.4 | -0.9 | 96.9 | 99.7 | 97.8 |
| 2010 | 13618 | 1891 | -483 | -29.0 | -21.8 | -0.09 | -0.04 | 97.2 | 97.2 | -5.1 | -1.6 | -3.3 | -5.7 | -0.5 | 97.1 | 99.6 | 97.9 |
| 2011 | 13091 | 1972 | -378 | -22.9 | -17.6 | -0.07 | -0.04 | 97.3 | 97.4 | -4.3 | -1.1 | -2.7 | -4.9 | -0.0 | 97.5 | 99.5 | 98.5 |
| 2012 | 13321 | 2051 | -324 | -18.4 | -14.7 | -0.05 | -0.03 | 97.3 | 97.7 | -3.2 | -0.6 | -1.9 | -4.0 | 0.2 | 98.1 | 99.4 | 99.0 |
| 2013 | 12353 | 2125 | -215 | -14.7 | -10.8 | -0.05 | -0.03 | 97.7 | 98.0 | -2.4 | -0.5 | -1.3 | -3.1 | 0.4 | 98.5 | 99.6 | 99.1 |
| 2014 | 12063 | 2214 | -118 | -9.5 | -6.4 | -0.04 | -0.02 | 97.9 | 98.7 | -1.5 | -0.2 | -0.6 | -2.3 | 0.6 | 99.1 | 99.8 | 99.4 |
| 2015 | 12460 | 2280 | -55 | -6.3 | -3.3 | -0.03 | -0.01 | 98.2 | 99.1 | -0.9 | -0.1 | -0.1 | -1.5 | 0.7 | 99.7 | 99.9 | 99.8 |
| 2016 | 11585 | 2376 | 66 | 0.7 | 1.9 | -0.01 | -0.00 | 98.5 | 99.5 | -0.1 | 0.2 | 0.5 | -0.7 | 0.8 | 100.3 | 100.2 | 100.4 |
| 2017 | 10814 | 2473 | 142 | 6.5 | 7.0 | 0.02 | 0.02 | 99.0 | 100.3 | 0.9 | 0.4 | 0.9 | 0.4 | 1.0 | 100.9 | 100.4 | 100.8 |
| 2018 | 10023 | 2555 | 257 | 12.9 | 12.5 | 0.03 | 0.03 | 99.3 | 100.3 | 1.6 | 0.8 | 1.4 | 1.2 | 1.1 | 101.1 | 100.4 | 101.3 |
| 2019 | 9296 | 2643 | 345 | 21.1 | 17.4 | 0.07 | 0.05 | 99.5 | 100.8 | 2.2 | 1.1 | 1.7 | 1.7 | 1.3 | 101.6 | 100.7 | 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 Holstein cows
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British Columbia

| Year | Cows | LPI | Milk | Fat | Protein | Fat% | Protein% | Pers | SCS | Conf | DS | F&L | MS | Rump | HL | DF | DCA |
|------|-------|------|------|-------|---------|-------|----------|------|-------|------|------|------|------|------|-------|-------|-------|
| 2009 | 11727 | 1836 | -516 | -32.7 | -24.5 | -0.11 | -0.06 | 97.1 | 96.9 | -5.6 | -1.6 | -3.7 | -6.1 | -0.6 | 96.7 | 99.4 | 97.7 |
| 2010 | 11280 | 1898 | -444 | -28.4 | -21.0 | -0.09 | -0.05 | 97.5 | 97.1 | -4.9 | -1.2 | -3.3 | -5.5 | -0.1 | 96.8 | 99.3 | 97.6 |
| 2011 | 11471 | 1993 | -344 | -22.4 | -16.9 | -0.08 | -0.04 | 97.6 | 97.5 | -3.7 | -0.4 | -2.4 | -4.5 | 0.3 | 97.5 | 99.1 | 98.6 |
| 2012 | 11903 | 2069 | -321 | -17.8 | -14.5 | -0.04 | -0.03 | 97.7 | 97.7 | -2.7 | -0.2 | -1.5 | -3.5 | 0.5 | 98.0 | 99.1 | 98.9 |
| 2013 | 12043 | 2151 | -187 | -13.0 | -9.8 | -0.04 | -0.03 | 97.8 | 98.4 | -1.9 | -0.1 | -0.9 | -2.7 | 0.7 | 98.5 | 99.2 | 99.1 |
| 2014 | 11795 | 2246 | -58 | -7.7 | -4.4 | -0.04 | -0.02 | 98.3 | 99.0 | -1.2 | 0.0 | -0.2 | -2.0 | 0.9 | 99.2 | 99.6 | 99.4 |
| 2015 | 11803 | 2332 | 25 | -2.8 | -0.4 | -0.03 | -0.01 | 98.6 | 99.5 | -0.2 | 0.5 | 0.3 | -1.1 | 1.1 | 99.9 | 99.9 | 99.9 |
| 2016 | 10700 | 2437 | 163 | 5.5 | 5.4 | 0.00 | 0.00 | 98.9 | 99.9 | 0.6 | 0.7 | 0.8 | -0.2 | 1.3 | 100.5 | 100.1 | 100.6 |
| 2017 | 9955 | 2526 | 275 | 10.4 | 10.1 | 0.01 | 0.01 | 99.2 | 100.4 | 1.5 | 0.9 | 1.4 | 0.8 | 1.7 | 101.1 | 100.3 | 101.1 |
| 2018 | 8903 | 2620 | 380 | 18.1 | 16.3 | 0.04 | 0.03 | 99.5 | 100.7 | 2.2 | 1.2 | 1.7 | 1.5 | 1.6 | 101.5 | 100.6 | 101.7 |
| 2019 | 7902 | 2730 | 434 | 29.0 | 22.3 | 0.11 | 0.06 | 99.6 | 101.1 | 2.9 | 1.7 | 2.2 | 2.2 | 1.8 | 101.9 | 100.8 | 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 Holstein cows
Lactanet Canada, August 2022

Newfoundland

| Year | Cows | LPI | Milk | Fat | Protein | Fat% | Protein% | Pers | SCS | Conf | DS | F&L | MS | Rump | HL | DF | DCA |
|------|------|------|------|-------|---------|-------|----------|-------|-------|------|------|------|------|------|-------|-------|-------|
| 2009 | 198 | 1787 | -516 | -34.0 | -25.0 | -0.12 | -0.06 | 96.9 | 97.2 | -6.4 | -2.4 | -3.6 | -7.0 | -0.5 | 96.8 | 99.6 | 97.4 |
| 2010 | 257 | 1827 | -514 | -31.1 | -26.4 | -0.10 | -0.07 | 97.8 | 97.3 | -5.1 | -1.6 | -3.5 | -5.7 | -0.2 | 96.8 | 99.1 | 97.4 |
| 2011 | 237 | 1938 | -402 | -25.1 | -19.2 | -0.08 | -0.04 | 97.6 | 98.0 | -4.6 | -1.5 | -2.8 | -5.3 | -0.1 | 97.8 | 99.6 | 98.7 |
| 2012 | 311 | 2057 | -262 | -17.4 | -13.3 | -0.06 | -0.03 | 97.5 | 97.7 | -2.9 | -0.2 | -1.5 | -3.7 | 0.4 | 97.9 | 99.0 | 98.9 |
| 2013 | 309 | 2134 | -230 | -13.0 | -10.6 | -0.03 | -0.02 | 97.7 | 98.3 | -2.6 | -0.9 | -1.3 | -3.0 | -0.0 | 98.6 | 99.7 | 99.0 |
| 2014 | 362 | 2264 | -89 | -6.3 | -3.3 | -0.02 | -0.00 | 98.5 | 99.2 | -1.3 | -0.3 | -0.6 | -2.0 | 0.5 | 99.5 | 100.4 | 99.6 |
| 2015 | 371 | 2367 | 201 | 2.7 | 4.5 | -0.04 | -0.02 | 98.5 | 100.1 | -0.8 | 0.0 | 0.1 | -1.3 | -0.1 | 100.1 | 100.0 | 100.2 |
| 2016 | 389 | 2486 | 367 | 12.8 | 12.0 | -0.00 | 0.00 | 99.5 | 100.4 | -0.2 | -0.1 | 0.5 | -0.6 | 0.2 | 100.8 | 100.6 | 101.0 |
| 2017 | 372 | 2626 | 549 | 23.0 | 21.9 | 0.02 | 0.03 | 99.1 | 100.8 | 1.0 | 0.3 | 1.1 | 0.8 | 0.5 | 101.3 | 100.5 | 101.3 |
| 2018 | 389 | 2682 | 629 | 28.3 | 26.3 | 0.04 | 0.04 | 100.1 | 100.7 | 1.3 | 0.5 | 1.0 | 1.2 | 0.7 | 101.3 | 100.8 | 102.1 |
| 2019 | 292 | 2783 | 782 | 35.9 | 32.4 | 0.05 | 0.05 | 99.6 | 101.5 | 2.5 | 1.6 | 1.8 | 2.0 | 1.3 | 101.8 | 100.8 | 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.