

**National genetic trends by birth year for Guernsey cows**  
**Lactanet Canada, August 2023**

| Year | Cows | LPI | Milk | Fat  | Protein | Fat%  | Protein% | Pers  | SCS   | Conf | DS   | F&L | MS  | Rump | HL    | DF    | DCA   |
|------|------|-----|------|------|---------|-------|----------|-------|-------|------|------|-----|-----|------|-------|-------|-------|
| 2010 | 141  | 698 | -369 | -8.8 | -11.0   | 0.09  | 0.02     | 98.6  | 101.1 | 0.6  | -0.4 | 0.2 | 0.7 | 0.4  | 101.5 | 100.6 | 100.6 |
| 2011 | 132  | 751 | -212 | -5.0 | -7.2    | 0.06  | 0.00     | 99.7  | 99.9  | 1.1  | -0.3 | 0.4 | 1.8 | -0.5 | 100.8 | 100.5 | 99.5  |
| 2012 | 134  | 774 | -73  | -1.9 | -4.0    | 0.02  | -0.02    | 98.3  | 100.7 | 1.2  | 0.7  | 0.8 | 0.8 | 0.5  | 100.7 | 99.8  | 100.7 |
| 2013 | 119  | 806 | -200 | -1.7 | -5.3    | 0.09  | 0.02     | 98.4  | 101.4 | 1.6  | 0.7  | 0.9 | 1.6 | 0.4  | 101.5 | 100.0 | 101.1 |
| 2014 | 88   | 796 | -82  | -4.2 | -2.1    | -0.01 | 0.01     | 98.6  | 100.1 | 1.3  | 0.5  | 0.7 | 1.1 | 0.5  | 101.2 | 100.6 | 101.9 |
| 2015 | 106  | 812 | -169 | -3.1 | -3.8    | 0.06  | 0.03     | 99.8  | 101.3 | 1.0  | -0.5 | 0.6 | 1.3 | -0.5 | 101.8 | 100.8 | 101.4 |
| 2016 | 98   | 855 | 35   | 0.3  | 0.9     | -0.01 | 0.00     | 99.2  | 101.1 | 1.0  | -0.2 | 1.3 | 1.0 | 0.5  | 101.6 | 100.3 | 100.9 |
| 2017 | 126  | 927 | 218  | 6.2  | 5.3     | -0.03 | -0.02    | 99.5  | 102.1 | 1.3  | -0.4 | 0.2 | 1.4 | 0.0  | 102.2 | 100.6 | 100.7 |
| 2018 | 108  | 894 | 43   | 1.6  | 1.7     | 0.01  | 0.01     | 100.5 | 102.2 | 1.6  | 0.2  | 0.5 | 1.6 | 0.2  | 102.5 | 100.7 | 101.8 |
| 2019 | 107  | 921 | 110  | 1.6  | 3.3     | -0.03 | 0.00     | 100.1 | 101.7 | 2.1  | 0.6  | 1.1 | 2.0 | 0.5  | 102.7 | 100.3 | 100.8 |
| 2020 | 108  | 909 | -22  | 2.6  | 1.4     | 0.05  | 0.03     | 99.9  | 101.9 | 1.7  | 0.2  | 0.8 | 1.8 | 0.6  | 102.6 | 100.8 | 101.3 |

  

| Annual trends |     |      |     |         |       |          |      |     |      |     |     |     |      |     |     |      |  |
|---------------|-----|------|-----|---------|-------|----------|------|-----|------|-----|-----|-----|------|-----|-----|------|--|
| Years         | LPI | Milk | Fat | Protein | Fat%  | Protein% | Pers | SCS | Conf | DS  | F&L | MS  | Rump | HL  | DF  | DCA  |  |
| 2010-2020     | 21  | 35   | 1.1 | 1.2     | -0.00 | 0.00     | 0.1  | 0.1 | 0.1  | 0.1 | 0.1 | 0.1 | 0.0  | 0.1 | 0.0 | 0.1  |  |
| 2015-2020     | 20  | 29   | 1.1 | 1.1     | -0.00 | 0.00     | 0.0  | 0.1 | 0.1  | 0.1 | 0.0 | 0.1 | 0.2  | 0.2 | 0.0 | -0.0 |  |

**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.