



BOLT Spring 2024 Genetic Evaluation

Breed Average

| | CE | BW | WW | YW | MCE | Milk | MWW | STAY | DOC | CWT | REA | FAT | MARB | API | TI |
|----------------|------------|------------|-------------|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|-------------|
| Current | 7.7 | 3.6 | 76.8 | 111.5 | 4.1 | 26.0 | 64.1 | 15.2 | 10.6 | 25.4 | 0.87 | -0.100 | -0.05 | 110.4 | 70.9 |
| Sires | 7.8 | 3.5 | 75.8 | 109.8 | 4.1 | 26.2 | 63.9 | 14.7 | 10.4 | 24.7 | 0.86 | -0.100 | -0.05 | 109.1 | 70.2 |
| Dams | 6.7 | 4.0 | 74.2 | 107.0 | 3.7 | 26.0 | 62.9 | 15.5 | 10.0 | 23.3 | 0.84 | -0.101 | -0.05 | 107.8 | 68.6 |

Current Population – all calves born in the last 2 years (2022-2023)

Active Sire – any sire with a calf reported in the last 2 years (2022-2023)

Active Dam – any dam with a calf reported in the last 2 years (2022-2023)

Percentiles

Percentiles show where an animal stands within the Simmental population. The following percentiles are based on CSA current calves (2022-2023).

| PCTL | CE | BW | WW | YW | MCE | Milk | MWW | STAY | DOC | CWT | REA | FAT | MARB | API | TI |
|------------|------------|------------|-------------|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|-------------|
| Avg | 7.7 | 3.6 | 76.8 | 111.5 | 4.1 | 26.0 | 64.1 | 15.2 | 10.6 | 25.4 | 0.87 | -0.100 | -0.05 | 110.4 | 65.5 |
| Min | -7.4 | -6.9 | 31.8 | 36.2 | -10.6 | 5.2 | 33.0 | 1.8 | -16.5 | -19.5 | -0.10 | -0.169 | -0.54 | 53.0 | 36.8 |
| Max | 22.8 | 14.1 | 119.9 | 175.9 | 14.6 | 47.9 | 92.4 | 27.1 | 25.6 | 70.4 | 1.56 | 0.048 | 0.79 | 187.4 | 100.9 |
| SD | 3.59 | 2.04 | 9.20 | 15.83 | 2.78 | 6.12 | 7.04 | 2.65 | 2.86 | 8.96 | 0.151 | 0.0220 | 0.109 | 11.67 | 4.99 |
| 1 | 16.4 | -1.6 | 99.7 | 149.3 | 10.5 | 39.7 | 80.4 | 21.2 | 17.1 | 47.2 | 1.22 | -0.143 | 0.27 | 140.1 | 86.4 |
| 2 | 15.3 | -0.9 | 96.8 | 145.1 | 9.7 | 38.6 | 78.5 | 20.5 | 16.2 | 44.4 | 1.17 | -0.139 | 0.22 | 136.3 | 84.4 |
| 3 | 14.6 | -0.4 | 95.0 | 142.1 | 9.2 | 37.9 | 77.3 | 20.0 | 15.6 | 42.7 | 1.14 | -0.137 | 0.18 | 133.9 | 83.1 |
| 4 | 14.1 | -0.1 | 93.6 | 140.0 | 8.8 | 37.3 | 76.5 | 19.7 | 15.2 | 41.5 | 1.12 | -0.135 | 0.16 | 132.1 | 82.1 |
| 5 | 13.7 | 0.1 | 92.5 | 138.4 | 8.5 | 36.8 | 75.8 | 19.4 | 14.9 | 40.4 | 1.10 | -0.133 | 0.14 | 130.5 | 81.2 |
| 10 | 12.3 | 1.0 | 88.8 | 132.3 | 7.5 | 34.9 | 73.3 | 18.5 | 13.9 | 36.9 | 1.05 | -0.127 | 0.09 | 125.4 | 78.6 |
| 15 | 11.4 | 1.5 | 86.2 | 128.1 | 6.9 | 33.4 | 71.6 | 17.9 | 13.3 | 34.6 | 1.01 | -0.123 | 0.05 | 122.3 | 76.9 |
| 20 | 10.6 | 1.9 | 84.3 | 124.8 | 6.3 | 31.9 | 70.2 | 17.4 | 12.8 | 32.8 | 0.99 | -0.119 | 0.03 | 119.8 | 75.6 |
| 25 | 10.0 | 2.3 | 82.7 | 121.9 | 5.9 | 30.4 | 69.0 | 17.0 | 12.4 | 31.2 | 0.96 | -0.115 | 0.01 | 117.8 | 74.5 |
| 30 | 9.5 | 2.6 | 81.3 | 119.5 | 5.5 | 29.0 | 67.9 | 16.6 | 12.0 | 29.9 | 0.94 | -0.111 | 0.00 | 116.0 | 73.6 |
| 35 | 9.0 | 2.9 | 80.0 | 117.2 | 5.2 | 27.8 | 66.8 | 16.3 | 11.6 | 28.6 | 0.92 | -0.107 | -0.02 | 114.4 | 72.8 |
| 40 | 8.5 | 3.2 | 78.8 | 115.1 | 4.8 | 26.7 | 65.9 | 15.9 | 11.3 | 27.4 | 0.90 | -0.104 | -0.03 | 112.8 | 72.0 |
| 45 | 8.1 | 3.4 | 77.6 | 113.0 | 4.5 | 25.8 | 64.9 | 15.6 | 11.0 | 26.3 | 0.89 | -0.101 | -0.05 | 111.4 | 71.2 |
| 50 | 7.6 | 3.7 | 76.5 | 111.0 | 4.2 | 25.0 | 64.0 | 15.3 | 10.7 | 25.2 | 0.87 | -0.099 | -0.06 | 110.0 | 70.5 |
| 55 | 7.2 | 3.9 | 75.4 | 109.0 | 3.8 | 24.3 | 63.1 | 15.0 | 10.3 | 24.1 | 0.85 | -0.097 | -0.07 | 108.5 | 69.8 |
| 60 | 6.8 | 4.1 | 74.3 | 107.0 | 3.5 | 23.5 | 62.1 | 14.7 | 10.0 | 22.9 | 0.83 | -0.094 | -0.08 | 107.2 | 69.1 |
| 65 | 6.3 | 4.4 | 73.1 | 105.0 | 3.1 | 22.8 | 61.2 | 14.3 | 9.7 | 21.7 | 0.82 | -0.092 | -0.10 | 105.7 | 68.4 |
| 70 | 5.8 | 4.7 | 71.9 | 103.0 | 2.7 | 22.2 | 60.2 | 13.9 | 9.3 | 20.5 | 0.80 | -0.090 | -0.11 | 104.2 | 67.7 |
| 75 | 5.3 | 4.9 | 70.6 | 100.7 | 2.3 | 21.5 | 59.2 | 13.5 | 8.9 | 19.3 | 0.77 | -0.087 | -0.12 | 102.6 | 66.9 |
| 80 | 4.7 | 5.3 | 69.2 | 98.2 | 1.8 | 20.7 | 58.1 | 13.1 | 8.4 | 17.8 | 0.75 | -0.084 | -0.14 | 100.8 | 66.1 |
| 85 | 4.0 | 5.6 | 67.5 | 95.3 | 1.3 | 19.8 | 56.7 | 12.5 | 7.8 | 16.2 | 0.72 | -0.081 | -0.15 | 98.8 | 65.1 |
| 90 | 3.2 | 6.1 | 65.4 | 91.7 | 0.5 | 18.7 | 55.1 | 11.8 | 7.1 | 14.1 | 0.68 | -0.076 | -0.18 | 96.2 | 63.9 |
| 95 | 1.9 | 6.8 | 62.2 | 86.2 | -0.6 | 17.1 | 52.8 | 10.7 | 5.9 | 11.0 | 0.62 | -0.066 | -0.21 | 92.2 | 62.0 |
| Num | 83,422 | 83,422 | 83,422 | 83,422 | 83,422 | 83,422 | 83,422 | 83,422 | 83,422 | 83,422 | 83,422 | 83,422 | 83,422 | 83,422 | 83,422 |



BOLT Spring 2024 Genetic Evaluation

Current Fullbloods

| PCTL | CE | BW | WW | YW | MCE | Milk | MWW | STAY | DOC | CWT | REA | FAT | MARB | API | TI |
|------------|------------|------------|-------------|--------------|------------|-------------|-------------|-------------|------------|-------------|-------------|---------------|--------------|--------------|-------------|
| Avg | 5.7 | 4.8 | 72.8 | 101.1 | 2.8 | 34.2 | 70.3 | 15.4 | 9.7 | 19.4 | 0.87 | -0.125 | -0.09 | 102.1 | 66.7 |
| Min | -6.2 | -2.4 | 31.8 | 36.2 | -9.9 | 17.3 | 36.5 | 3.9 | -15.8 | -15.9 | -0.10 | -0.169 | -0.51 | 53.0 | 47.4 |
| Max | 19.0 | 12.7 | 105.1 | 154.0 | 14.1 | 47.9 | 90.7 | 24.4 | 25.6 | 65.5 | 1.47 | 0.048 | 0.72 | 154.4 | 89.8 |
| SD | 3.50 | 1.79 | 8.00 | 13.15 | 2.82 | 3.52 | 5.53 | 2.38 | 2.89 | 7.55 | 0.126 | 0.0120 | 0.082 | 9.62 | 4.54 |
| 1 | 14.1 | 0.4 | 91.6 | 132.1 | 9.1 | 41.8 | 83.4 | 20.7 | 16.9 | 37.6 | 1.16 | -0.152 | 0.10 | 125.0 | 77.9 |
| 2 | 13.1 | 1.0 | 89.2 | 128.6 | 8.4 | 40.9 | 81.9 | 20.1 | 15.6 | 35.5 | 1.12 | -0.148 | 0.07 | 121.8 | 76.4 |
| 3 | 12.5 | 1.3 | 87.7 | 125.9 | 7.9 | 40.4 | 80.9 | 19.6 | 14.7 | 34.1 | 1.10 | -0.145 | 0.06 | 120.0 | 75.5 |
| 4 | 12.0 | 1.6 | 86.6 | 124.1 | 7.6 | 40.0 | 80.1 | 19.3 | 14.3 | 32.9 | 1.08 | -0.144 | 0.04 | 118.7 | 74.8 |
| 5 | 11.7 | 1.8 | 85.9 | 122.7 | 7.3 | 39.6 | 79.4 | 19.1 | 14.0 | 31.9 | 1.07 | -0.143 | 0.03 | 117.6 | 74.3 |
| 10 | 10.3 | 2.5 | 82.9 | 117.9 | 6.4 | 38.4 | 77.3 | 18.3 | 13.0 | 28.9 | 1.02 | -0.139 | 0.00 | 114.0 | 72.4 |
| 15 | 9.5 | 2.9 | 80.9 | 114.6 | 5.7 | 37.7 | 75.9 | 17.8 | 12.3 | 27.0 | 0.99 | -0.136 | -0.02 | 111.7 | 71.2 |
| 20 | 8.7 | 3.3 | 79.4 | 111.9 | 5.2 | 37.0 | 74.8 | 17.4 | 11.8 | 25.5 | 0.97 | -0.134 | -0.03 | 109.8 | 70.3 |
| 25 | 8.0 | 3.6 | 78.1 | 109.8 | 4.7 | 36.5 | 73.9 | 17.0 | 11.4 | 24.2 | 0.95 | -0.132 | -0.04 | 108.3 | 69.6 |
| 30 | 7.4 | 3.9 | 76.9 | 107.8 | 4.3 | 36.0 | 73.1 | 16.6 | 11.1 | 23.1 | 0.93 | -0.130 | -0.05 | 107.0 | 68.9 |
| 35 | 6.9 | 4.1 | 75.8 | 106.0 | 3.9 | 35.6 | 72.4 | 16.3 | 10.7 | 22.1 | 0.91 | -0.129 | -0.06 | 105.7 | 68.2 |
| 40 | 6.4 | 4.4 | 74.8 | 104.3 | 3.6 | 35.2 | 71.7 | 16.0 | 10.4 | 21.1 | 0.90 | -0.128 | -0.07 | 104.5 | 67.6 |
| 45 | 6.0 | 4.6 | 73.8 | 102.7 | 3.2 | 34.7 | 70.9 | 15.7 | 10.1 | 20.2 | 0.88 | -0.126 | -0.08 | 103.3 | 67.1 |
| 50 | 5.5 | 4.8 | 72.8 | 101.0 | 2.9 | 34.3 | 70.3 | 15.4 | 9.8 | 19.3 | 0.87 | -0.125 | -0.09 | 102.3 | 66.6 |
| 55 | 5.0 | 5.1 | 71.8 | 99.4 | 2.5 | 33.9 | 69.6 | 15.1 | 9.5 | 18.4 | 0.85 | -0.124 | -0.10 | 101.2 | 66.1 |
| 60 | 4.6 | 5.3 | 70.9 | 97.7 | 2.1 | 33.5 | 68.9 | 14.8 | 9.2 | 17.5 | 0.83 | -0.122 | -0.11 | 99.9 | 65.6 |
| 65 | 4.2 | 5.5 | 69.7 | 95.9 | 1.7 | 33.0 | 68.2 | 14.5 | 8.8 | 16.5 | 0.82 | -0.121 | -0.12 | 98.7 | 65.0 |
| 70 | 3.7 | 5.7 | 68.7 | 94.1 | 1.4 | 32.5 | 67.5 | 14.1 | 8.5 | 15.5 | 0.80 | -0.119 | -0.13 | 97.3 | 64.4 |
| 75 | 3.2 | 6.0 | 67.5 | 92.2 | 0.9 | 32.0 | 66.8 | 13.8 | 8.0 | 14.4 | 0.78 | -0.118 | -0.15 | 95.9 | 63.8 |
| 80 | 2.7 | 6.2 | 66.2 | 90.1 | 0.5 | 31.4 | 65.8 | 13.3 | 7.6 | 13.1 | 0.76 | -0.116 | -0.16 | 94.3 | 63.1 |
| 85 | 2.1 | 6.5 | 64.7 | 87.7 | -0.1 | 30.6 | 64.8 | 12.9 | 7.1 | 11.7 | 0.74 | -0.114 | -0.17 | 92.4 | 62.1 |
| 90 | 1.3 | 7.0 | 62.7 | 84.6 | -0.9 | 29.7 | 63.4 | 12.3 | 6.3 | 9.9 | 0.71 | -0.112 | -0.19 | 89.9 | 61.0 |
| 95 | 0.2 | 7.6 | 59.7 | 79.7 | -1.9 | 28.1 | 61.2 | 11.3 | 5.1 | 7.2 | 0.66 | -0.108 | -0.22 | 85.8 | 59.4 |
| Num | 12566 | 12566 | 12566 | 12566 | 12566 | 12566 | 12566 | 12566 | 12566 | 12566 | 12566 | 12566 | 12566 | 12566 | 12566 |



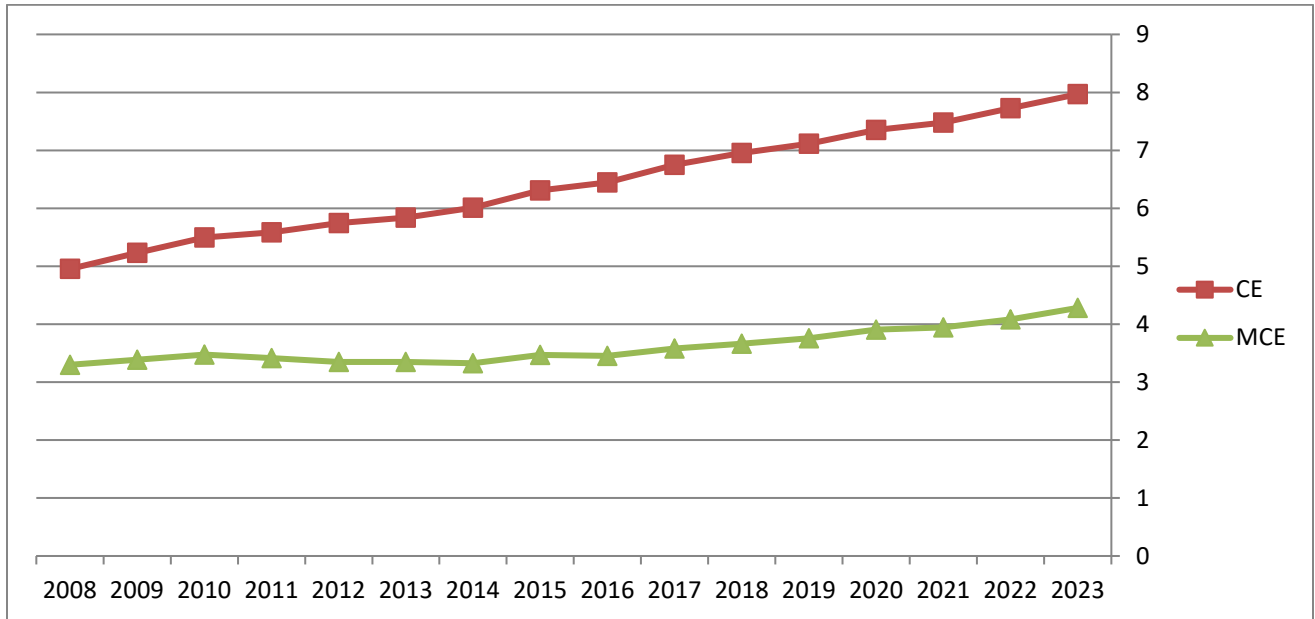
BOLT Spring 2024 Genetic Evaluation

Current Purebreds

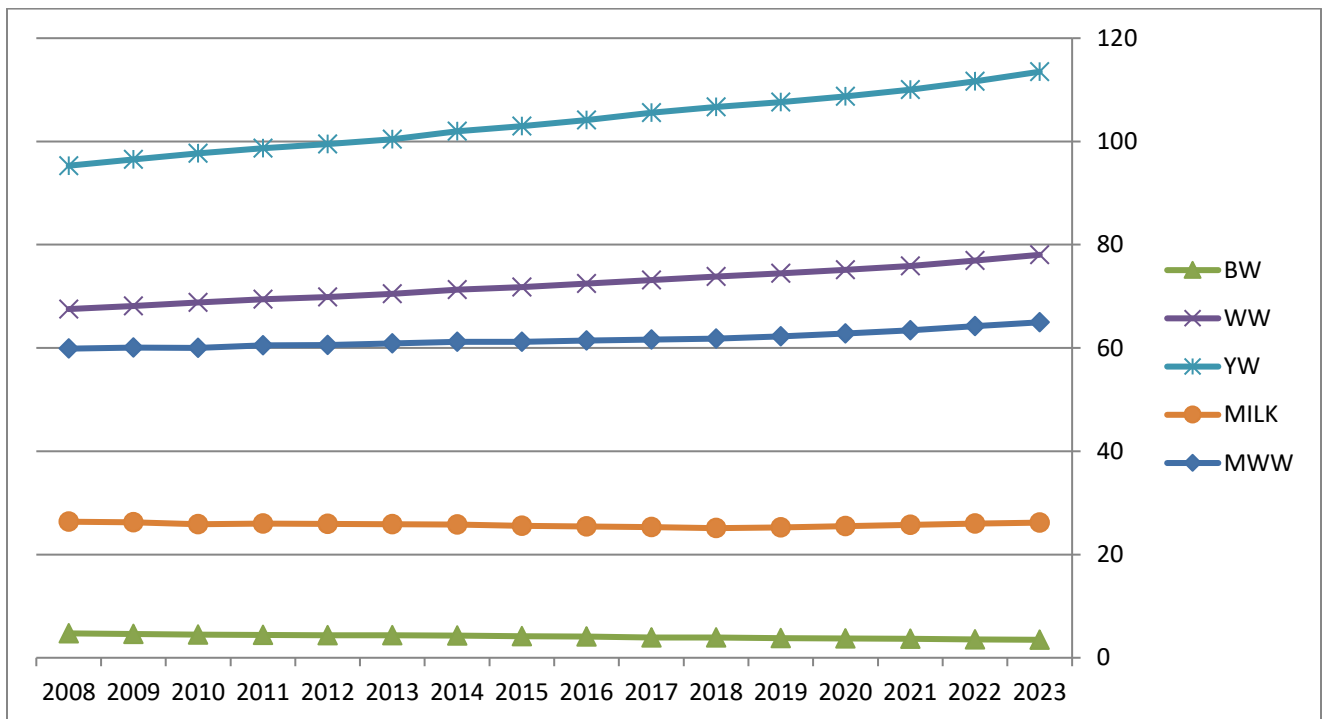
| PCTL | CE | BW | WW | YW | MCE | Milk | MWW | STAY | DOC | CWT | REA | FAT | MARB | API | TI |
|------------|------------|------------|-------------|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|-------------|
| Avg | 8.1 | 3.3 | 78.5 | 115.1 | 4.4 | 23.8 | 62.7 | 15.4 | 10.8 | 26.9 | 0.88 | -0.096 | -0.06 | 112.9 | 72.2 |
| Min | -7.4 | -5.4 | 33.4 | 49.9 | -10.6 | 5.2 | 33.0 | 1.8 | -16.5 | -11.5 | 0.12 | -0.166 | -0.54 | 73.0 | 51.2 |
| Max | 22.0 | 14.1 | 119.9 | 175.9 | 14.6 | 41.3 | 92.4 | 27.1 | 24.7 | 64.2 | 1.56 | -0.028 | 0.79 | 187.4 | 106.0 |
| SD | 3.35 | 1.92 | 9.15 | 15.24 | 2.65 | 4.56 | 6.40 | 2.61 | 2.84 | 8.47 | 0.142 | 0.0140 | 0.101 | 11.00 | 5.62 |
| 1 | 16.6 | -1.6 | 101.1 | 150.8 | 10.7 | 35.0 | 78.0 | 21.5 | 17.2 | 47.2 | 1.23 | -0.130 | 0.21 | 141.2 | 87.0 |
| 2 | 15.5 | -0.9 | 98.2 | 146.9 | 9.9 | 33.8 | 76.2 | 20.7 | 16.3 | 44.6 | 1.18 | -0.126 | 0.17 | 137.6 | 85.1 |
| 3 | 14.8 | -0.5 | 96.5 | 144.3 | 9.4 | 32.9 | 75.1 | 20.2 | 15.8 | 43.1 | 1.15 | -0.123 | 0.14 | 135.2 | 83.9 |
| 4 | 14.3 | -0.2 | 95.2 | 142.2 | 9.0 | 32.2 | 74.2 | 19.9 | 15.5 | 41.9 | 1.13 | -0.121 | 0.12 | 133.4 | 83.0 |
| 5 | 13.9 | 0.1 | 94.0 | 140.6 | 8.7 | 31.6 | 73.5 | 19.6 | 15.2 | 41.0 | 1.11 | -0.120 | 0.11 | 132.1 | 82.2 |
| 10 | 12.5 | 0.9 | 90.3 | 135.0 | 7.7 | 29.8 | 71.0 | 18.6 | 14.2 | 37.8 | 1.06 | -0.114 | 0.07 | 127.2 | 79.5 |
| 15 | 11.5 | 1.4 | 87.9 | 131.1 | 7.0 | 28.5 | 69.4 | 18.0 | 13.6 | 35.6 | 1.02 | -0.110 | 0.05 | 124.0 | 77.9 |
| 20 | 10.8 | 1.8 | 86.0 | 127.9 | 6.5 | 27.5 | 68.1 | 17.5 | 13.1 | 33.9 | 1.00 | -0.107 | 0.03 | 121.7 | 76.6 |
| 25 | 10.2 | 2.1 | 84.4 | 125.3 | 6.1 | 26.7 | 67.0 | 17.1 | 12.7 | 32.4 | 0.97 | -0.105 | 0.01 | 119.8 | 75.6 |
| 30 | 9.6 | 2.5 | 83.0 | 122.8 | 5.7 | 26.0 | 66.0 | 16.8 | 12.3 | 31.2 | 0.95 | -0.103 | -0.01 | 118.1 | 74.7 |
| 35 | 9.2 | 2.7 | 81.6 | 120.6 | 5.3 | 25.3 | 65.1 | 16.4 | 11.9 | 30.0 | 0.93 | -0.101 | -0.02 | 116.5 | 73.9 |
| 40 | 8.7 | 3.0 | 80.4 | 118.6 | 5.0 | 24.7 | 64.3 | 16.1 | 11.6 | 28.9 | 0.92 | -0.099 | -0.03 | 115.1 | 73.2 |
| 45 | 8.3 | 3.2 | 79.2 | 116.6 | 4.7 | 24.1 | 63.4 | 15.8 | 11.3 | 27.8 | 0.90 | -0.097 | -0.05 | 113.7 | 72.5 |
| 50 | 7.9 | 3.4 | 78.1 | 114.7 | 4.4 | 23.6 | 62.6 | 15.5 | 10.9 | 26.7 | 0.88 | -0.095 | -0.06 | 112.4 | 71.8 |
| 55 | 7.5 | 3.7 | 77.0 | 112.7 | 4.0 | 23.0 | 61.8 | 15.2 | 10.6 | 25.7 | 0.86 | -0.094 | -0.07 | 111.0 | 71.1 |
| 60 | 7.1 | 3.9 | 75.9 | 110.9 | 3.7 | 22.5 | 61.0 | 14.9 | 10.3 | 24.7 | 0.85 | -0.092 | -0.08 | 109.7 | 70.4 |
| 65 | 6.7 | 4.1 | 74.7 | 108.9 | 3.4 | 21.9 | 60.2 | 14.5 | 9.9 | 23.6 | 0.83 | -0.090 | -0.09 | 108.4 | 69.8 |
| 70 | 6.3 | 4.4 | 73.6 | 106.8 | 3.0 | 21.3 | 59.3 | 14.2 | 9.6 | 22.4 | 0.81 | -0.089 | -0.11 | 106.9 | 69.1 |
| 75 | 5.8 | 4.6 | 72.3 | 104.6 | 2.6 | 20.7 | 58.4 | 13.8 | 9.1 | 21.1 | 0.79 | -0.087 | -0.12 | 105.4 | 68.3 |
| 80 | 5.3 | 4.9 | 70.8 | 102.2 | 2.2 | 20.0 | 57.4 | 13.3 | 8.7 | 19.8 | 0.77 | -0.084 | -0.14 | 103.7 | 67.5 |
| 85 | 4.7 | 5.3 | 69.2 | 99.4 | 1.7 | 19.1 | 56.2 | 12.8 | 8.1 | 18.2 | 0.74 | -0.082 | -0.15 | 101.8 | 66.6 |
| 90 | 3.9 | 5.7 | 67.1 | 95.9 | 1.0 | 18.1 | 54.7 | 12.1 | 7.4 | 16.2 | 0.70 | -0.079 | -0.18 | 99.4 | 65.5 |
| 95 | 2.8 | 6.3 | 64.0 | 90.7 | 0.0 | 16.6 | 52.5 | 11.0 | 6.2 | 13.2 | 0.65 | -0.074 | -0.21 | 95.9 | 63.7 |
| Num | 54,714 | 54,714 | 54,714 | 54,714 | 54,714 | 54,714 | 54,714 | 54,714 | 54,714 | 54,714 | 54,714 | 54,714 | 54,714 | 54,714 | 54,714 |

BOLT Spring 2024 Genetic Evaluation

Genetic Trend – Calving Ease



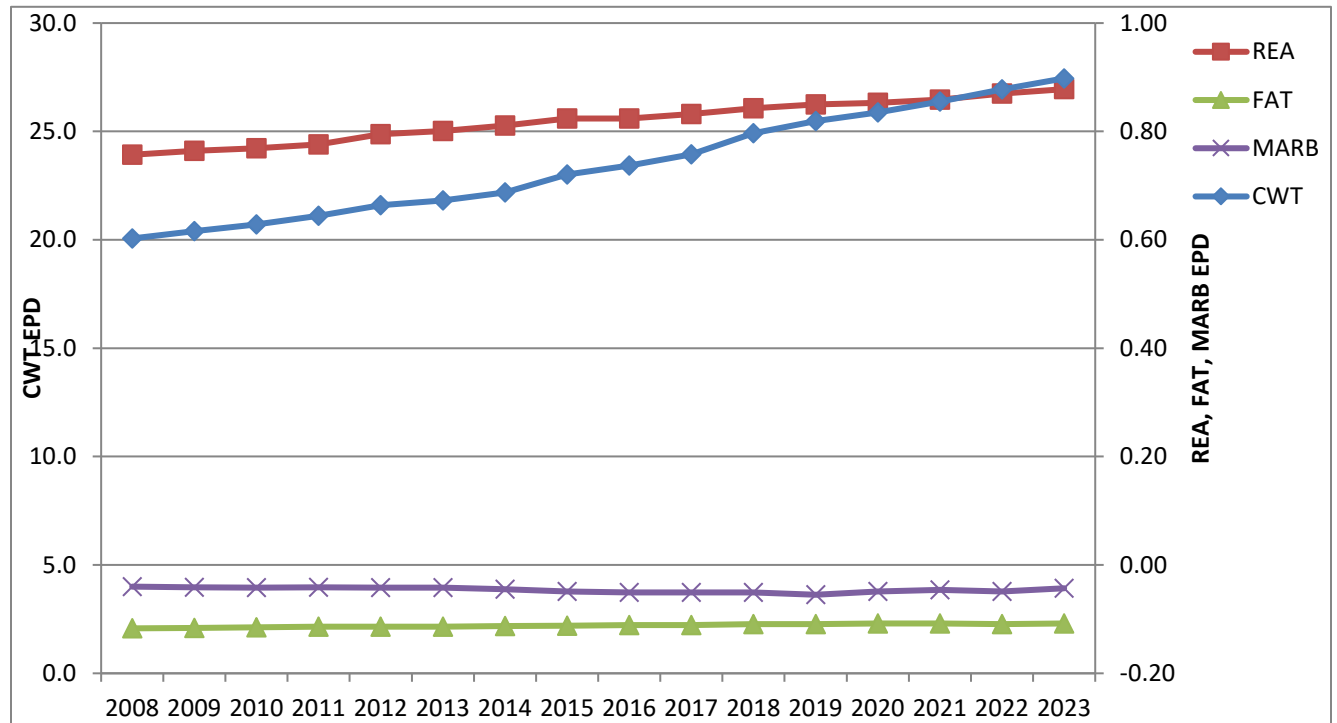
Genetic Trend – Growth Traits





BOLT Spring 2024 Genetic Evaluation

Genetic Trend – Carcass Traits



Genetic Trend - Indexes

