



BOLT Fall 2022 Genetic Evaluation

Breed Average

| | CE | BW | WW | YW | MCE | Milk | MWW | STAY | DOC | CWT | REA | FAT | MARB | API | TI |
|----------------|------------|------------|-------------|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|-------------|
| Current | 7.3 | 3.7 | 76.0 | 111.7 | 3.9 | 28.3 | 66.2 | 16.2 | 10.5 | 26.7 | 0.87 | -0.108 | -0.05 | 111.2 | 69.9 |
| Sires | 7.5 | 3.6 | 75.1 | 110.3 | 3.9 | 28.4 | 65.9 | 15.7 | 10.4 | 26.3 | 0.86 | -0.109 | -0.05 | 110.0 | 69.4 |
| Dams | 6.3 | 4.1 | 73.5 | 107.3 | 3.5 | 28.8 | 65.5 | 16.4 | 9.9 | 24.6 | 0.84 | -0.111 | -0.05 | 108.5 | 67.6 |

Current Population – all calves born in the last 2 years (2021-2022)

Active Sire – any sire with a calf reported in the last 2 years (2021-2022)

Active Dam – any dam with a calf reported in the last 2 years (2021-2022)

Percentiles

Percentiles show where an animal stands within the Simmental population. The following percentiles are based on CSA current calves (2021-2022).

| PCTL | CE | BW | WW | YW | MCE | Milk | MWW | STAY | DOC | CWT | REA | FAT | MARB | API | TI |
|------------|------------|------------|-------------|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|-------------|
| Avg | 7.3 | 3.7 | 76.0 | 111.7 | 3.9 | 28.3 | 66.2 | 16.2 | 10.5 | 26.7 | 0.87 | -0.108 | -0.05 | 111.2 | 65.5 |
| Min | -7.2 | -6.9 | 28.9 | 27.6 | -9.6 | 3.7 | 25.4 | 2.9 | -12.2 | -9.9 | -0.12 | -0.181 | -0.50 | 66.9 | 36.8 |
| Max | 22.9 | 15.2 | 123.9 | 193.8 | 15.6 | 51.4 | 96.0 | 27.5 | 24.8 | 72.7 | 1.58 | 0.040 | 0.73 | 183.6 | 100.9 |
| SD | 3.61 | 2.09 | 9.01 | 15.38 | 2.81 | 6.50 | 7.22 | 2.48 | 2.85 | 8.56 | 0.145 | 0.0230 | 0.103 | 11.64 | 4.99 |
| 1 | 16.2 | -1.6 | 97.2 | 147.8 | 10.4 | 43.1 | 82.6 | 21.8 | 17.0 | 47.5 | 1.19 | -0.152 | 0.26 | 140.3 | 84.5 |
| 2 | 15.0 | -0.9 | 94.7 | 143.6 | 9.6 | 41.9 | 80.8 | 21.1 | 16.1 | 44.8 | 1.15 | -0.148 | 0.20 | 136.5 | 82.3 |
| 3 | 14.3 | -0.4 | 93.2 | 141.0 | 9.1 | 41.1 | 79.7 | 20.7 | 15.6 | 43.3 | 1.12 | -0.146 | 0.17 | 134.1 | 81.0 |
| 4 | 13.8 | -0.1 | 92.0 | 139.1 | 8.7 | 40.5 | 78.7 | 20.4 | 15.2 | 42.0 | 1.10 | -0.144 | 0.15 | 132.3 | 80.1 |
| 5 | 13.4 | 0.1 | 91.2 | 137.4 | 8.4 | 39.9 | 78.0 | 20.1 | 14.9 | 41.1 | 1.09 | -0.143 | 0.13 | 130.9 | 79.4 |
| 10 | 11.9 | 1.0 | 87.7 | 131.9 | 7.4 | 38.0 | 75.6 | 19.3 | 13.9 | 37.8 | 1.04 | -0.138 | 0.08 | 126.2 | 77.1 |
| 15 | 11.0 | 1.5 | 85.3 | 128.0 | 6.8 | 36.4 | 73.9 | 18.7 | 13.2 | 35.6 | 1.00 | -0.133 | 0.05 | 123.1 | 75.6 |
| 20 | 10.3 | 2.0 | 83.6 | 124.8 | 6.2 | 34.7 | 72.5 | 18.2 | 12.7 | 33.8 | 0.98 | -0.128 | 0.03 | 120.7 | 74.4 |
| 25 | 9.7 | 2.3 | 82.0 | 122.2 | 5.8 | 32.9 | 71.3 | 17.8 | 12.3 | 32.4 | 0.96 | -0.123 | 0.01 | 118.7 | 73.4 |
| 30 | 9.1 | 2.7 | 80.6 | 119.6 | 5.4 | 31.3 | 70.2 | 17.5 | 11.9 | 31.0 | 0.94 | -0.119 | 0.00 | 116.9 | 72.5 |
| 35 | 8.6 | 2.9 | 79.3 | 117.3 | 5.0 | 29.9 | 69.1 | 17.1 | 11.6 | 29.8 | 0.92 | -0.116 | -0.02 | 115.2 | 71.8 |
| 40 | 8.2 | 3.2 | 78.1 | 115.2 | 4.7 | 28.9 | 68.1 | 16.8 | 11.2 | 28.7 | 0.91 | -0.113 | -0.03 | 113.7 | 71.0 |
| 45 | 7.7 | 3.5 | 76.9 | 113.2 | 4.3 | 28.0 | 67.1 | 16.5 | 10.9 | 27.6 | 0.89 | -0.110 | -0.04 | 112.2 | 70.3 |
| 50 | 7.3 | 3.7 | 75.8 | 111.3 | 4.0 | 27.1 | 66.1 | 16.3 | 10.6 | 26.6 | 0.87 | -0.107 | -0.05 | 110.8 | 69.6 |
| 55 | 6.8 | 4.0 | 74.7 | 109.4 | 3.7 | 26.4 | 65.2 | 16.0 | 10.2 | 25.5 | 0.86 | -0.105 | -0.07 | 109.4 | 68.9 |
| 60 | 6.4 | 4.2 | 73.6 | 107.5 | 3.3 | 25.6 | 64.2 | 15.7 | 9.9 | 24.4 | 0.84 | -0.103 | -0.08 | 107.9 | 68.2 |
| 65 | 5.9 | 4.5 | 72.5 | 105.6 | 3.0 | 24.9 | 63.2 | 15.3 | 9.5 | 23.3 | 0.82 | -0.101 | -0.09 | 106.5 | 67.6 |
| 70 | 5.4 | 4.8 | 71.3 | 103.5 | 2.6 | 24.2 | 62.2 | 15.0 | 9.2 | 22.1 | 0.80 | -0.098 | -0.10 | 105.0 | 66.9 |
| 75 | 4.9 | 5.1 | 70.0 | 101.3 | 2.2 | 23.4 | 61.1 | 14.6 | 8.8 | 20.9 | 0.78 | -0.096 | -0.11 | 103.3 | 66.1 |
| 80 | 4.3 | 5.4 | 68.5 | 98.9 | 1.7 | 22.6 | 59.9 | 14.2 | 8.3 | 19.6 | 0.76 | -0.093 | -0.13 | 101.5 | 65.2 |
| 85 | 3.6 | 5.8 | 66.9 | 96.0 | 1.1 | 21.8 | 58.6 | 13.7 | 7.7 | 18.0 | 0.73 | -0.089 | -0.15 | 99.4 | 64.3 |
| 90 | 2.8 | 6.2 | 64.8 | 92.4 | 0.4 | 20.7 | 57.0 | 13.0 | 7.0 | 16.0 | 0.69 | -0.084 | -0.17 | 96.7 | 63.0 |
| 95 | 1.5 | 6.9 | 61.4 | 87.0 | -0.8 | 19.2 | 54.6 | 12.0 | 5.8 | 13.1 | 0.62 | -0.072 | -0.20 | 92.7 | 61.1 |
| Num | 68,444 | 68,444 | 68,444 | 68,444 | 68,444 | 68,444 | 68,444 | 68,444 | 68,444 | 68,444 | 68,444 | 68,444 | 68,444 | 68,444 | 68,444 |



BOLT Fall 2022 Genetic Evaluation

Current Fullbloods

| PCTL | CE | BW | WW | YW | MCE | Milk | MWW | STAY | DOC | CWT | REA | FAT | MARB | API | TI |
|------------|------------|------------|-------------|--------------|------------|-------------|-------------|-------------|------------|-------------|-------------|---------------|--------------|--------------|-------------|
| Avg | 5.1 | 5.0 | 71.9 | 102.2 | 2.5 | 37.6 | 73.5 | 16.1 | 9.5 | 21.1 | 0.88 | -0.136 | -0.08 | 102.5 | 65.8 |
| Min | -7.0 | -3.9 | 40.7 | 54.7 | -9.2 | 17.4 | 44.8 | 7.1 | -12.2 | -9.9 | 0.08 | -0.181 | -0.41 | 66.9 | 49.8 |
| Max | 18.0 | 15.2 | 103.4 | 160.6 | 15.6 | 51.4 | 96.0 | 24.8 | 24.0 | 52.6 | 1.35 | 0.033 | 0.45 | 139.0 | 87.3 |
| SD | 3.49 | 1.77 | 7.74 | 12.82 | 2.86 | 3.35 | 5.26 | 2.28 | 2.94 | 7.28 | 0.111 | 0.0110 | 0.076 | 9.53 | 4.39 |
| 1 | 13.7 | 0.8 | 90.2 | 133.5 | 9.1 | 45.4 | 86.1 | 21.2 | 16.8 | 39.7 | 1.15 | -0.160 | 0.10 | 124.0 | 76.1 |
| 2 | 12.6 | 1.3 | 88.0 | 128.9 | 8.4 | 44.4 | 84.5 | 20.7 | 15.6 | 37.2 | 1.11 | -0.156 | 0.07 | 121.5 | 74.9 |
| 3 | 12.0 | 1.6 | 86.2 | 126.3 | 7.9 | 43.8 | 83.5 | 20.3 | 15.0 | 35.6 | 1.09 | -0.154 | 0.06 | 119.9 | 74.1 |
| 4 | 11.6 | 1.9 | 85.1 | 124.2 | 7.5 | 43.4 | 82.7 | 20.0 | 14.5 | 34.3 | 1.08 | -0.153 | 0.05 | 118.9 | 73.3 |
| 5 | 11.2 | 2.1 | 84.3 | 123.1 | 7.1 | 43.0 | 82.2 | 19.8 | 14.2 | 33.3 | 1.06 | -0.152 | 0.04 | 118.0 | 72.7 |
| 10 | 9.8 | 2.8 | 81.6 | 118.5 | 6.1 | 41.8 | 80.1 | 19.0 | 13.1 | 30.3 | 1.02 | -0.148 | 0.01 | 114.6 | 71.2 |
| 15 | 8.8 | 3.2 | 79.6 | 115.0 | 5.4 | 40.9 | 78.7 | 18.4 | 12.4 | 28.3 | 0.99 | -0.146 | -0.01 | 112.3 | 70.2 |
| 20 | 8.0 | 3.6 | 78.1 | 112.5 | 4.9 | 40.3 | 77.6 | 18.0 | 11.8 | 26.9 | 0.97 | -0.144 | -0.02 | 110.5 | 69.4 |
| 25 | 7.4 | 3.9 | 76.9 | 110.5 | 4.4 | 39.8 | 76.8 | 17.7 | 11.3 | 25.6 | 0.95 | -0.142 | -0.03 | 109.1 | 68.7 |
| 30 | 6.8 | 4.2 | 75.9 | 108.7 | 4.0 | 39.3 | 76.1 | 17.3 | 10.9 | 24.5 | 0.93 | -0.141 | -0.04 | 107.6 | 68.0 |
| 35 | 6.2 | 4.4 | 74.9 | 107.0 | 3.6 | 38.9 | 75.4 | 17.0 | 10.5 | 23.5 | 0.92 | -0.139 | -0.05 | 106.3 | 67.5 |
| 40 | 5.8 | 4.7 | 73.9 | 105.4 | 3.2 | 38.5 | 74.7 | 16.7 | 10.2 | 22.6 | 0.91 | -0.138 | -0.06 | 105.0 | 66.9 |
| 45 | 5.3 | 4.9 | 72.9 | 103.8 | 2.9 | 38.0 | 74.1 | 16.4 | 9.9 | 21.6 | 0.89 | -0.137 | -0.07 | 103.8 | 66.4 |
| 50 | 4.9 | 5.1 | 71.9 | 102.2 | 2.6 | 37.7 | 73.5 | 16.1 | 9.5 | 20.8 | 0.88 | -0.136 | -0.08 | 102.6 | 65.9 |
| 55 | 4.4 | 5.3 | 70.9 | 100.7 | 2.2 | 37.3 | 72.8 | 15.8 | 9.2 | 20.0 | 0.86 | -0.135 | -0.09 | 101.4 | 65.4 |
| 60 | 4.0 | 5.5 | 69.9 | 99.0 | 1.9 | 36.9 | 72.2 | 15.6 | 8.9 | 19.2 | 0.85 | -0.133 | -0.10 | 100.2 | 64.8 |
| 65 | 3.6 | 5.7 | 69.0 | 97.3 | 1.5 | 36.5 | 71.6 | 15.3 | 8.5 | 18.2 | 0.84 | -0.132 | -0.11 | 98.9 | 64.2 |
| 70 | 3.1 | 6.0 | 68.1 | 95.6 | 1.1 | 36.0 | 70.9 | 14.9 | 8.1 | 17.2 | 0.82 | -0.131 | -0.12 | 97.6 | 63.6 |
| 75 | 2.6 | 6.2 | 66.9 | 93.7 | 0.7 | 35.5 | 70.2 | 14.6 | 7.7 | 16.2 | 0.81 | -0.129 | -0.13 | 96.1 | 63.0 |
| 80 | 2.2 | 6.5 | 65.7 | 91.8 | 0.2 | 35.0 | 69.3 | 14.2 | 7.3 | 15.1 | 0.79 | -0.127 | -0.14 | 94.4 | 62.2 |
| 85 | 1.6 | 6.8 | 64.1 | 89.2 | -0.4 | 34.3 | 68.3 | 13.8 | 6.8 | 13.8 | 0.77 | -0.125 | -0.16 | 92.5 | 61.4 |
| 90 | 0.8 | 7.2 | 62.0 | 86.0 | -1.1 | 33.4 | 67.0 | 13.1 | 6.1 | 12.2 | 0.74 | -0.123 | -0.18 | 90.3 | 60.2 |
| 95 | -0.3 | 7.8 | 59.0 | 81.1 | -2.2 | 32.0 | 64.9 | 12.3 | 5.0 | 9.7 | 0.70 | -0.118 | -0.21 | 86.9 | 58.4 |
| Num | 9366 | 9366 | 9366 | 9366 | 9366 | 9366 | 9366 | 9366 | | 9366 | 9366 | 9366 | 9366 | 9366 | 9366 |



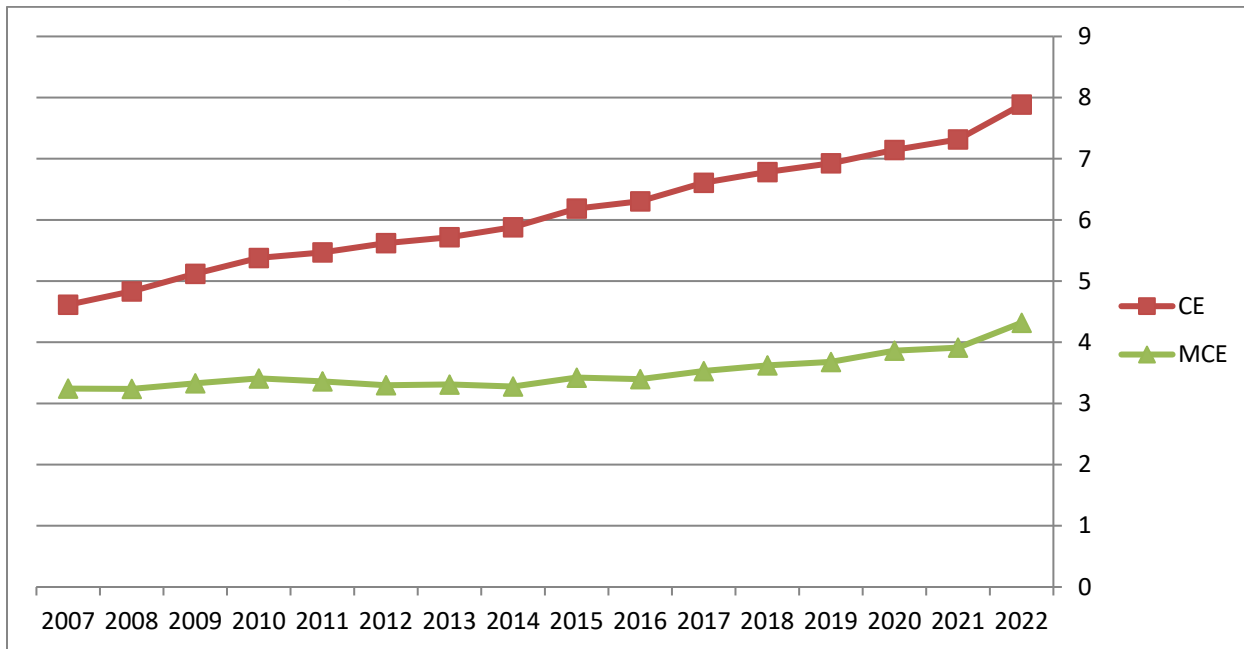
BOLT Fall 2022 Genetic Evaluation

Current Purebreds

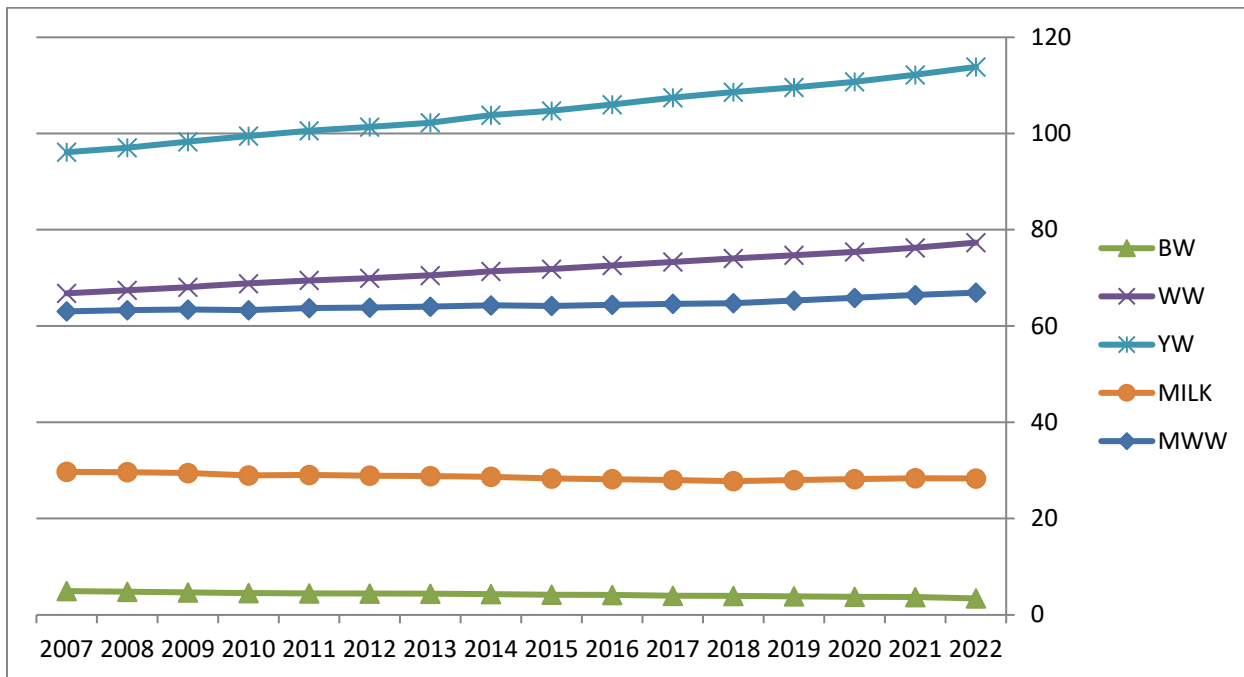
| PCTL | CE | BW | WW | YW | MCE | Milk | MWW | STAY | DOC | CWT | REA | FAT | MARB | API | TI |
|------------|------------|------------|-------------|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|-------------|
| Avg | 7.7 | 3.5 | 77.8 | 115.1 | 4.2 | 26.1 | 64.9 | 16.5 | 10.8 | 28.5 | 0.89 | -0.105 | -0.05 | 113.6 | 71.1 |
| Min | -6.7 | -5.2 | 36.0 | 47.0 | -9.6 | 4.3 | 33.7 | 5.3 | -12.2 | -9.6 | 0.21 | -0.162 | -0.50 | 67.8 | 48.4 |
| Max | 22.0 | 13.8 | 116.4 | 178.4 | 14.9 | 46.2 | 90.9 | 27.5 | 24.8 | 72.7 | 1.58 | -0.037 | 0.58 | 179.9 | 103.8 |
| SD | 3.35 | 1.93 | 8.83 | 14.84 | 2.66 | 4.67 | 6.30 | 2.37 | 2.80 | 8.19 | 0.132 | 0.0140 | 0.096 | 10.97 | 5.43 |
| 1 | 16.3 | -1.5 | 98.2 | 149.4 | 10.5 | 37.9 | 79.8 | 22.1 | 17.1 | 48.2 | 1.20 | -0.139 | 0.21 | 141.4 | 85.5 |
| 2 | 15.1 | -0.8 | 95.8 | 145.4 | 9.7 | 36.6 | 78.0 | 21.4 | 16.3 | 45.7 | 1.16 | -0.135 | 0.16 | 137.8 | 83.3 |
| 3 | 14.4 | -0.4 | 94.3 | 142.7 | 9.2 | 35.7 | 76.9 | 21.0 | 15.8 | 44.2 | 1.14 | -0.132 | 0.13 | 135.4 | 82.0 |
| 4 | 13.8 | -0.1 | 93.3 | 141.0 | 8.9 | 34.9 | 76.0 | 20.6 | 15.4 | 43.0 | 1.12 | -0.130 | 0.12 | 133.7 | 81.0 |
| 5 | 13.4 | 0.2 | 92.3 | 139.5 | 8.5 | 34.3 | 75.4 | 20.4 | 15.1 | 42.0 | 1.10 | -0.128 | 0.10 | 132.3 | 80.3 |
| 10 | 12.0 | 1.0 | 89.3 | 134.3 | 7.5 | 32.3 | 73.0 | 19.5 | 14.1 | 39.0 | 1.05 | -0.122 | 0.06 | 127.8 | 78.0 |
| 15 | 11.1 | 1.5 | 87.0 | 130.8 | 6.9 | 30.9 | 71.5 | 18.9 | 13.5 | 37.0 | 1.02 | -0.119 | 0.04 | 124.8 | 76.6 |
| 20 | 10.4 | 1.9 | 85.2 | 127.9 | 6.4 | 29.9 | 70.2 | 18.4 | 13.0 | 35.3 | 0.99 | -0.116 | 0.02 | 122.5 | 75.4 |
| 25 | 9.8 | 2.3 | 83.8 | 125.3 | 5.9 | 29.0 | 69.2 | 18.0 | 12.5 | 33.9 | 0.97 | -0.114 | 0.01 | 120.6 | 74.5 |
| 30 | 9.2 | 2.6 | 82.4 | 123.1 | 5.6 | 28.3 | 68.2 | 17.7 | 12.2 | 32.7 | 0.95 | -0.111 | -0.01 | 119.0 | 73.7 |
| 35 | 8.8 | 2.8 | 81.2 | 120.8 | 5.2 | 27.6 | 67.3 | 17.4 | 11.8 | 31.5 | 0.93 | -0.109 | -0.02 | 117.4 | 72.9 |
| 40 | 8.3 | 3.1 | 80.0 | 118.8 | 4.8 | 27.0 | 66.5 | 17.0 | 11.5 | 30.5 | 0.92 | -0.108 | -0.03 | 115.9 | 72.2 |
| 45 | 7.9 | 3.3 | 78.8 | 116.8 | 4.5 | 26.4 | 65.7 | 16.8 | 11.2 | 29.5 | 0.90 | -0.106 | -0.04 | 114.5 | 71.6 |
| 50 | 7.5 | 3.6 | 77.7 | 114.9 | 4.2 | 25.8 | 64.9 | 16.5 | 10.9 | 28.5 | 0.89 | -0.104 | -0.06 | 113.2 | 70.9 |
| 55 | 7.1 | 3.8 | 76.6 | 113.1 | 3.9 | 25.2 | 64.1 | 16.2 | 10.5 | 27.4 | 0.87 | -0.103 | -0.07 | 111.8 | 70.2 |
| 60 | 6.7 | 4.0 | 75.5 | 111.2 | 3.6 | 24.7 | 63.3 | 15.9 | 10.2 | 26.4 | 0.85 | -0.101 | -0.08 | 110.4 | 69.6 |
| 65 | 6.3 | 4.3 | 74.4 | 109.2 | 3.2 | 24.1 | 62.5 | 15.6 | 9.9 | 25.4 | 0.84 | -0.099 | -0.09 | 109.1 | 68.9 |
| 70 | 5.9 | 4.5 | 73.2 | 107.2 | 2.9 | 23.5 | 61.6 | 15.3 | 9.5 | 24.3 | 0.82 | -0.098 | -0.10 | 107.6 | 68.2 |
| 75 | 5.4 | 4.8 | 71.9 | 105.0 | 2.5 | 22.9 | 60.7 | 14.9 | 9.1 | 23.1 | 0.80 | -0.096 | -0.12 | 106.0 | 67.5 |
| 80 | 4.9 | 5.1 | 70.5 | 102.6 | 2.1 | 22.2 | 59.7 | 14.5 | 8.6 | 21.7 | 0.78 | -0.094 | -0.13 | 104.3 | 66.7 |
| 85 | 4.3 | 5.4 | 68.8 | 99.9 | 1.5 | 21.4 | 58.4 | 14.0 | 8.1 | 20.2 | 0.75 | -0.091 | -0.15 | 102.4 | 65.7 |
| 90 | 3.6 | 5.8 | 66.6 | 96.4 | 0.9 | 20.4 | 56.9 | 13.4 | 7.4 | 18.2 | 0.72 | -0.088 | -0.17 | 99.9 | 64.6 |
| 95 | 2.4 | 6.5 | 63.4 | 91.0 | -0.2 | 19.0 | 54.7 | 12.6 | 6.2 | 15.4 | 0.67 | -0.083 | -0.20 | 96.4 | 62.8 |
| Num | 45,508 | 45,508 | 45,508 | 45,508 | 45,508 | 45,508 | 45,508 | 45,508 | 45,508 | 45,508 | 45,508 | 45,508 | 45,508 | 45,508 | 45,508 |

BOLT Fall 2022 Genetic Evaluation

Genetic Trend – Calving Ease



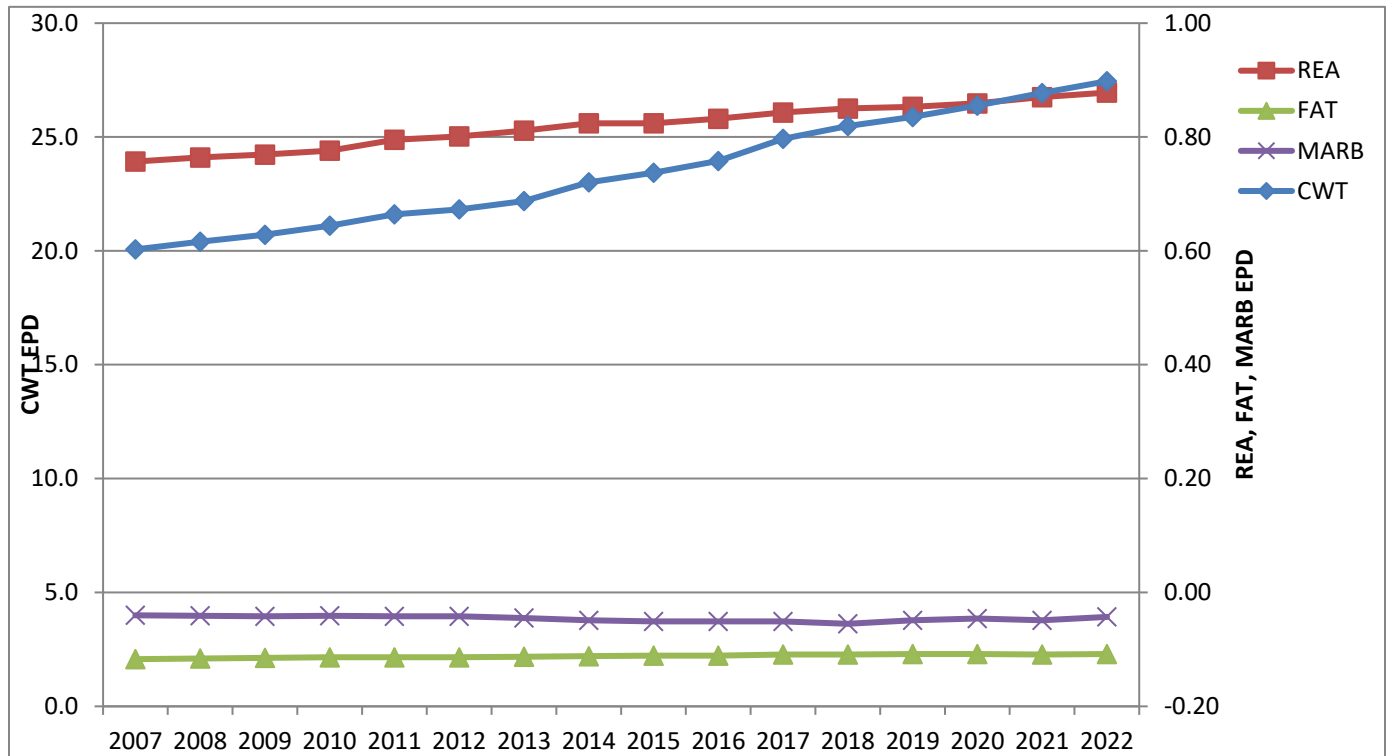
Genetic Trend – Growth Traits





BOLT Fall 2022 Genetic Evaluation

Genetic Trend – Carcass Traits



Genetic Trend - Indexes

