|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Model | Sex | *a* (s.e.) | *k* (s.e.) | *b*/*m* (s.e.) | Pseudo-R2 | MSE | AIC | BIC | ICO Rank |
| Brody | F | 2196.90 (12.67) | 0.006 (0.000) | 1.052 (0.003) | 0.928 | 32320.94 | 35492.29 | 35510.74 | 1.00 |
| M | 3297.10 (46.30) | 0.005 (0.000) | 1.052 (0.002) | 0.917 | 28821.98 | 29845.09 | 29862.98 | 1.00 |
| Von Bertalanffy | F | 2032.61 (8.74) | 0.013 (0.000) | 0.788 (0.006) | 0.943 | 22839.18 | 34688.22 | 34706.66 | 5.00 |
| M | 2605.98 (18.01) | 0.014 (0.000) | 0.862 (0.006) | 0.958 | 16114.04 | 27844.72 | 27862.61 | 4.75 |
| Verhulst | F | 1941.01 (8.77) | 0.028 (0.000) | 15.805 (0.371) | 0.929 | 28528.08 | 35456.87 | 35475.32 | 2.00 |
| M | 2204.93 (12.37) | 0.035 (0.000) | 22.828 (0.510) | 0.949 | 19953.74 | 28458.97 | 28476.86 | 2.00 |
| Logistic | F | 1984.12 (8.48) | 0.019 (0.000) | 4.858 (0.050) | 0.939 | 24524.62 | 34934.29 | 34952.73 | 3.00 |
| M | 2403.53 (14.62) | 0.021 (0.000) | 5.558 (0.049) | 0.957 | 16627.01 | 27934.78 | 27952.67 | 3.00 |
| Gompertz | F | 2000.93 (8.51) | 0.017 (0.000) | 3.633 (0.040) | 0.940 | 23672.57 | 34812.08 | 34830.52 | 4.00 |
| M | 2470.34 (15.68) | 0.019 (0.000) | 4.182 (0.040) | 0.958 | 16148.01 | 27850.77 | 27868.66 | 4.00 |

**Supplementary Table S3.** Estimated parameters for each model in the study of the biological growth curve for both sexes of black variety of Utrerana poultry breed.

F: female; M: male; s.e,: standard error; Pseudo-R2: non-linear determinative coefficient; MSE: mean square error; AIC: Akaike information criterion; BIC: Bayesian information criterion; ICO: combined selection index.