**Supplementary Table S1.** Estimated parameters for each model in the study of the biological growth curve for both sexes of Utrerana poultry breed (not classified by varieties).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Model | Sex | *a* (s.e.) | *k* (s.e.) | *b*/*m* (s.e.) | Pseudo-R2 | MSE | AIC | BIC | ICO Rank |
| Brody | F | 2104.43 (6.81) | 0.007 (0.000) | 1.055 (0.002) | 0.963 | 32685.285 | 94573,80 | 94595,15 | 1 |
| M | 3045.65 (21.48) | 0.006 (0.000) | 1.056 (0.002) | 0.955 | 35253.235 | 74719,15 | 74739,77 | 1 |
| Von Bertalanffy | F | 1979.00 (4.87) | 0.014 (0.000) | 0.786 (0.004) | 0.971 | 26590.998 | 92696,41 | 92717,76 | 5 |
| M | 2560.30 (10.00) | 0.014 (0.000) | 0.854 (0.004) | 0.976 | 19613.755 | 70535,13 | 70555,75 | 5 |
| Verhulst | F | 1912.50 (4.87) | 0.028 (0.000) | 15.373 (0.241) | 0.964 | 31833.691 | 94333,62 | 94354,96 | 2 |
| M | 2259.43 (8.10) | 0.033 (0.000) | 21.040 (0.311) | 0.969 | 24803.793 | 72210,41 | 72231,03 | 2 |
| Logistic | F | 1943.19 (4.73) | 0.019 (0.000) | 4.817 (0.034) | 0.969 | 28088.389 | 93194,83 | 93216,18 | 3 |
| M | 2415.64 (8.77) | 0.021 (0.000) | 5.424 (0.032) | 0.974 | 20532.430 | 70861,77 | 70882,39 | 3 |
| Gompertz | F | 1955.57 (4.75) | 0.017 (0.000) | 3.608 (0.027) | 0.970 | 27303.796 | 92937,08 | 92958,42 | 4 |
| M | 2465.30 (9.14) | 0.018 (0.000) | 4.086 (0.026) | 0.975 | 19869.004 | 70627,40 | 70648,01 | 4 |

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.