**Hatch rate of laying hen strains provided a photoperiod during incubation**

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**Supplementary materials**



Figure S1. The parameters represent the asymptote (*θ1*), the time to half the asymptote (*θ2*), and the interval from half to until about ¾ of the asymptote (*θ3*).



Figure S2. Where *X1* is an indicator variable whose value is 0 for the first treatment combination and 1 for the second treatment combination. The parameters represent the asymptote for the first treatment combination (* 1*), the time to half the asymptote for the first treatment combination (* 2*), and the interval from half to about ¾ of the asymptote for the first treatment combination (*3*), the asymptote for the second treatment combination (*1 + *), the time to half the asymptote for the first treatment combination (* 2 + *), and the interval until about ¾ of the asymptote for the first treatment combination (* 3 + *). That is, *, *, and ** represent the increment due to the second treatment combination on the top of the corresponding parameter of the first treatment combination.