



Figure S2. Sensitivity of the total egg production over a month (%) to changes in the rate of immunity loss, η . System (8-12) was integrated numerically, using the mean values of the parameters in Table 1. Other parameters used are $\gamma_2 = 1/21 \text{ d}^{-1}$, $\delta = 0.01 \text{ d}^{-1}$, $\mu_d = 1/1095 \text{ d}^{-1}$ and $\mu_m = 1/30 \text{ d}^{-1}$. Here, egg production is expressed as the percentage of the total egg production in a month in the absence of BYDV.