$$\begin{cases} N_{n+1} = N_n + N_n\left(K\frac{T_n}{T_0}\right)p\left(1 - \frac{N_n + r\sum_{i=0}^{n-1} N_i}{C_n}\right) - N_n r \\[4mm] C_{n+1} = C_n + \left(N_{n+1} - N_n(1-r)\right)\left(K\frac{T_n}{T_0}\right)\left(1 - \frac{C_n}{T_n}\right) \\[4mm] T_{n+1} = T_n - N_n r m \end{cases}$$