$$\begin{cases} R(m,t) = r_m m_t \left(\frac{m_t}{A_m} - 1\right)\left(1 - \frac{m_t}{K_m}\right) \\ R(n,t) = r_n n_t \left(\frac{n_t}{A_n} - 1\right)\left(1 - \frac{m_t}{K_n}\right) \end{cases}$$