

The following are the non-dimensional parameters of the exact-model

$$\begin{array}{ll}
 N &= N^* \gamma & a &= \frac{\phi}{\gamma \delta} \\
 A &= A^* \gamma & b &= \frac{\psi}{\delta} \\
 t &= \frac{\tau}{\delta} & c &= \frac{\nu_1}{\delta} \\
 f &= \xi c & h &= \frac{\sigma \gamma}{\mu}
 \end{array} \tag{1}$$

The following are the non-dimensional parameters of the full-model

$$\begin{array}{ll}
 N &= N^* \gamma & a &= \frac{\phi}{\gamma \delta} \\
 A &= A^* \gamma & b &= \frac{\psi}{\delta} \\
 E &= E^* \mu & c &= \frac{\nu_1}{\delta} \\
 t &= \frac{\tau}{\eta} & d &= \frac{\nu_2 \gamma}{\mu \eta} \\
 f &= \xi c & \epsilon &= \frac{\eta}{\delta}
 \end{array} \tag{2}$$