$$A = \begin{bmatrix} P_j & F_a \\ G_j & P_a \end{bmatrix}$$

where:

$G_j$ = Probability of a juvenile growing into the adult class

$P_j$ = Probability of a juvenile survival without transitioning into adulthood

and:

$$G_j = S_j \times \gamma_j$$
$$P_j = S_j \times (1 - \gamma_j)$$
$$\gamma_j = \frac{(\frac{S_j}{\lambda})^2}{1 + (\frac{S_j}{\lambda}) + (\frac{S_j}{\lambda})^2}$$

where:

$\lambda$ = Dominant eigenvalue for the Leslie matrix defined above

$\gamma_j$ = Proportion of surviving juveniles transitioning into adulthood