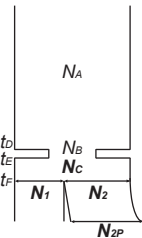


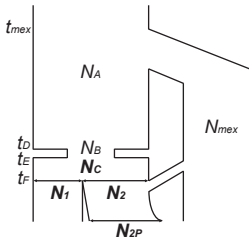
Model IA



Lowland Highland

$$\begin{aligned} N_C &= \alpha N_A \\ N_1 &= \beta N_C \\ N_2 &= (1-\beta)N_C \\ N_{2P} &= \gamma N_2 \end{aligned}$$

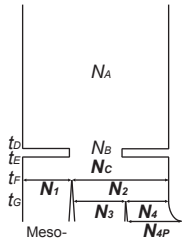
Model IB



Mesoamerica  
Lowland Highland *mexicana*

$$\begin{aligned} N_C &= \alpha N_A \\ N_1 &= \beta N_C \\ N_2 &= (1-\beta)N_C \\ N_{2P} &= \gamma N_2 \end{aligned}$$

Model II



Meso-america South America  
Lowland Lowland Highland

$$\begin{aligned} N_C &= \alpha N_A \\ N_1 &= \beta_1 N_C \\ N_2 &= (1-\beta_1)N_C \\ N_3 &= \beta_2 N_2 \\ N_4 &= (1-\beta_2)N_2 \\ N_{4P} &= \gamma N_4 \end{aligned}$$