

$$\text{inf_1_out_ub}([I_ub * S_1_ub * \text{beta_1_ub}]) = [0.000314 * I_ub * S_1_ub]$$

$$\text{inf_2_out_ub}([I_ub * S_2_ub * \text{beta_2_ub}]) = [0.000316 * I_ub * S_2_ub]$$

0.0

0.0

I_ub

$$\text{rec_out_ub}([I_ub * \text{gamma_ub}]) = [0.1 * I_ub]$$