

Symbol	Definition
α	Strength of density dependence on larval mosquitoes
Hh	Number of hosts per house
L	Probability of mosquito movement from house to larval site
F	Probability of mosquito movement from larval site to house
S_{mf}	Number of susceptible adult mosquitoes at each house
S_{ml}	Number of susceptible adult mosquitoes at each larval site
ρ_i	Probability of host recovery at each stage of infectiousness
γ	Host biting suitability
SN	Random presence/absence social network
HM	Houses each host will visit based on SN
H	Proportion of time each host spends at each household, based on SN and HM