$\tau_{sp} = 1, N_{p,lim} = 10, \tau_{ps} = 0.7, \Gamma_{s} = 20, N_{w,lim} = 5$ $\tau_{ws} \in [0,2], \tau_{s} = 1, N_{p,0} = 0, N_{s,0} = 1., N_{wm,0} = 0$ N_p N_s $N_{\underline{}}$ w