

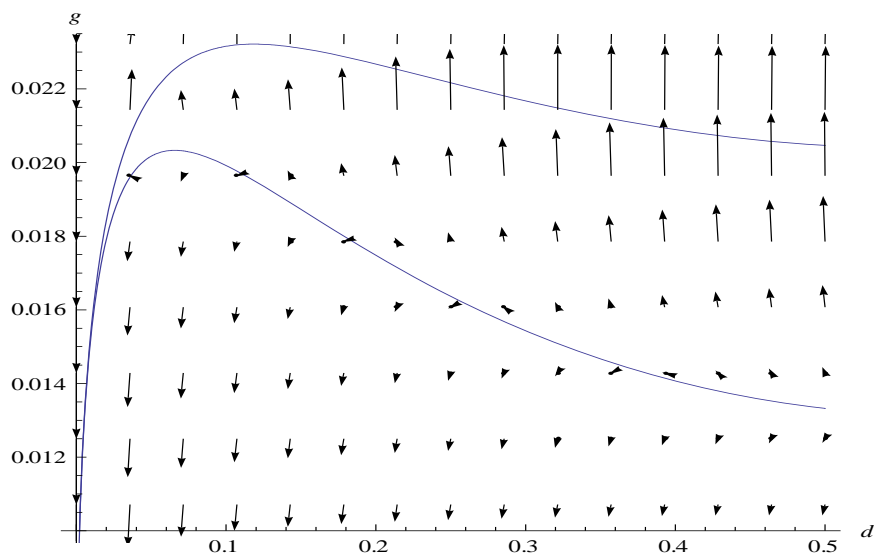
Supplement to population growth and natural resource scarcity

Results from numerical simulations

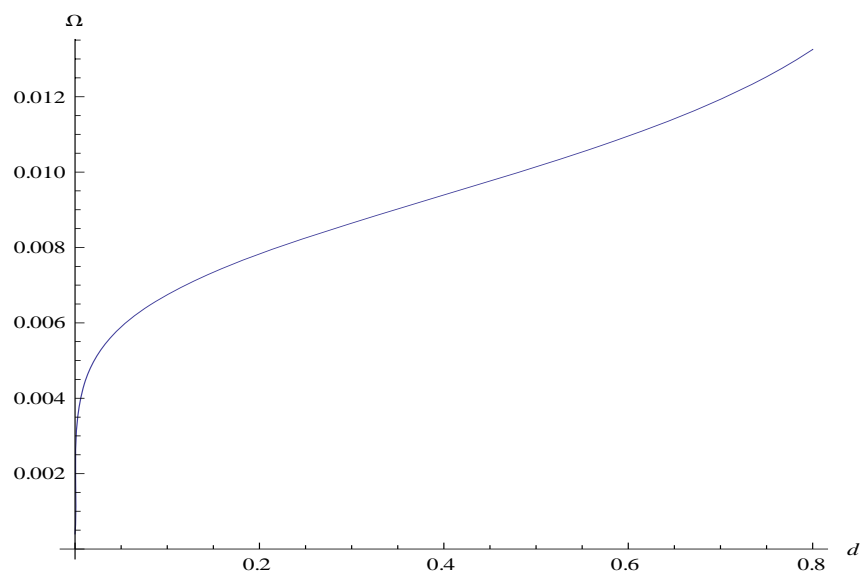
Parameter values: $\alpha=0.9$; $\sigma=0.3$; $\rho=0.01$; $\beta=0.8$; $\mu=0.1$; $\lambda=0.9$.

a) Poor population growth: $\xi = 0.01 < 1 - \alpha$

Vector field

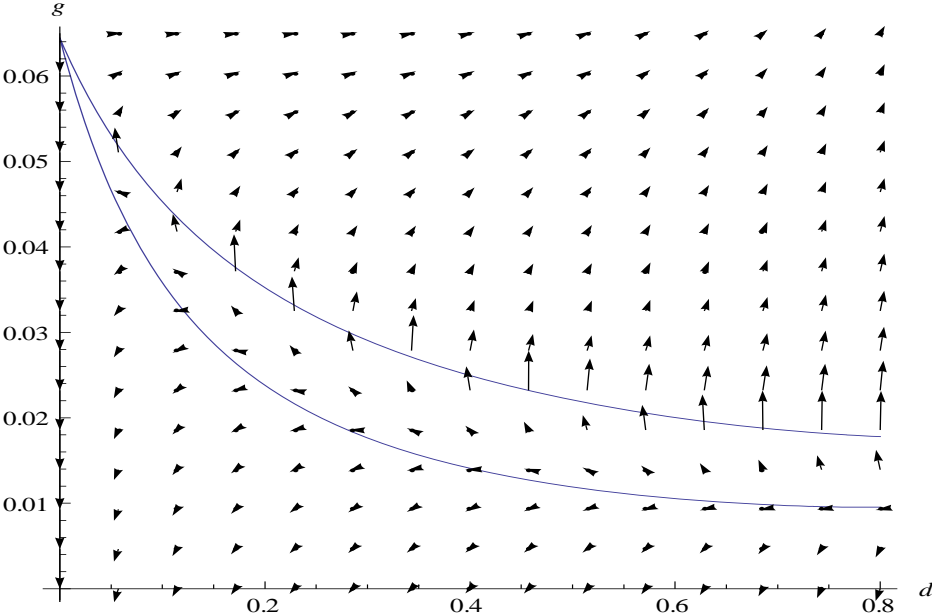


Development of Ω

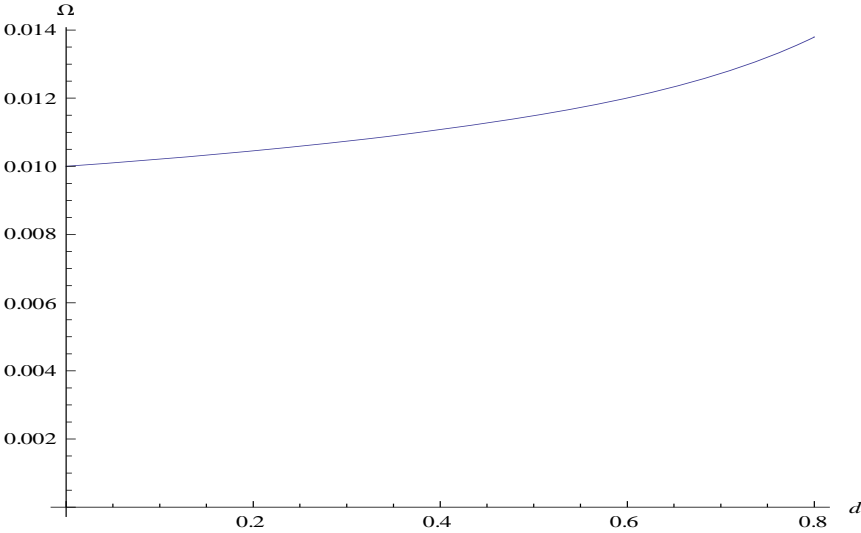


b) Intermediate population growth (“Hartwick case”): $\xi = 0.1 = 1 - \alpha$

Vector field

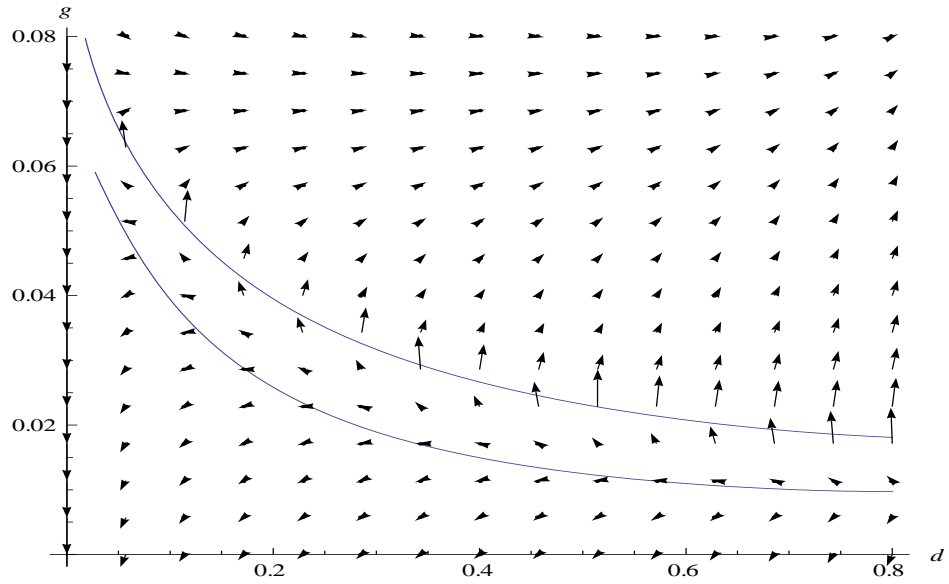


Development of Ω



c) High population growth: $\xi = 0.15 > 1 - \alpha$

Vector field



Development of Ω

