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Working Paper

Population growth and natural resource scarcity: long-run development under seemingly unfavourable conditions

Economics Working Paper Series, No. 08/87

Provided in Cooperation with:

ETH Zurich, CER-ETH – Center of Economic Research

Suggested Citation: Bretschger, Lucas (2009) : Population growth and natural resource scarcity: long-run development under seemingly unfavourable conditions, Economics Working Paper Series, No. 08/87, ETH Zurich, CER-ETH - Center of Economic Research, Zurich

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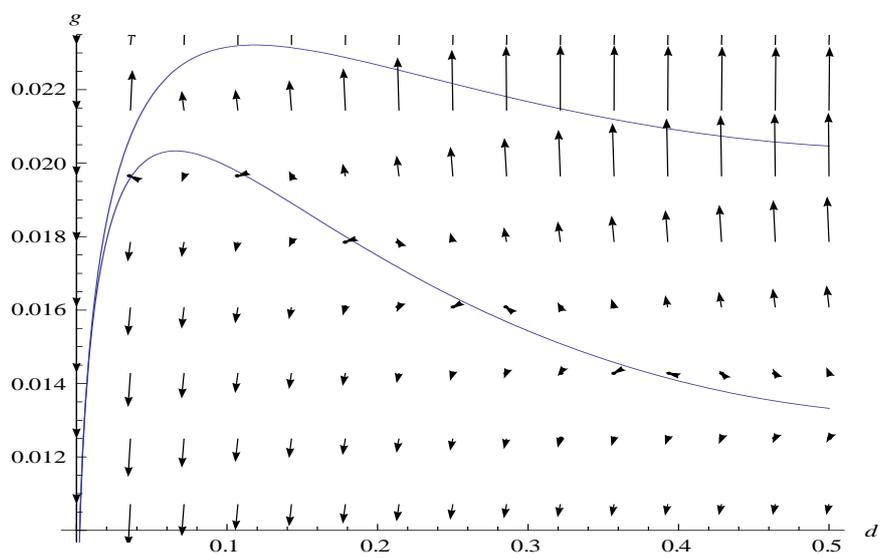
Supplement to population growth and natural resource scarcity

Results from numerical simulations

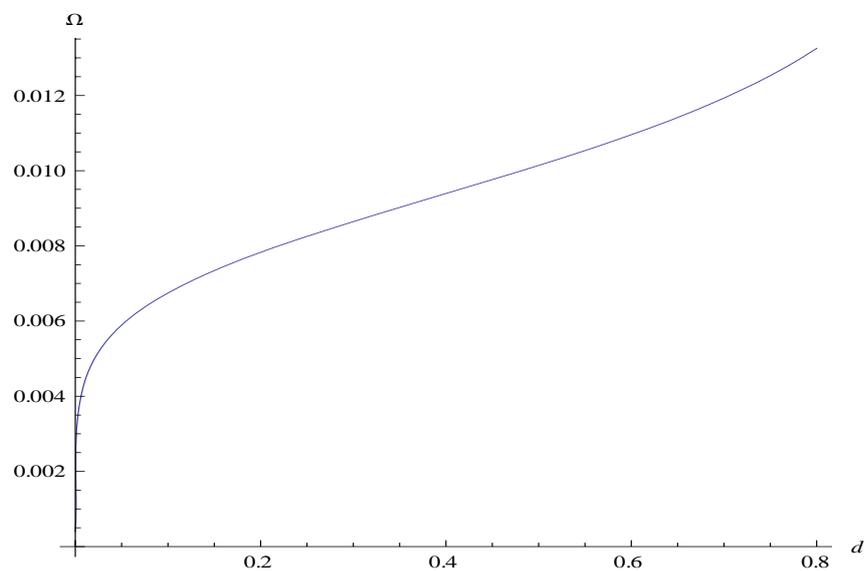
Parameter values: $\alpha=0.9$; $\sigma=0.3$; $\rho=0.01$; $\beta=0.8$; $\mu=0.1$; $\lambda=0.9$.

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

Vector field

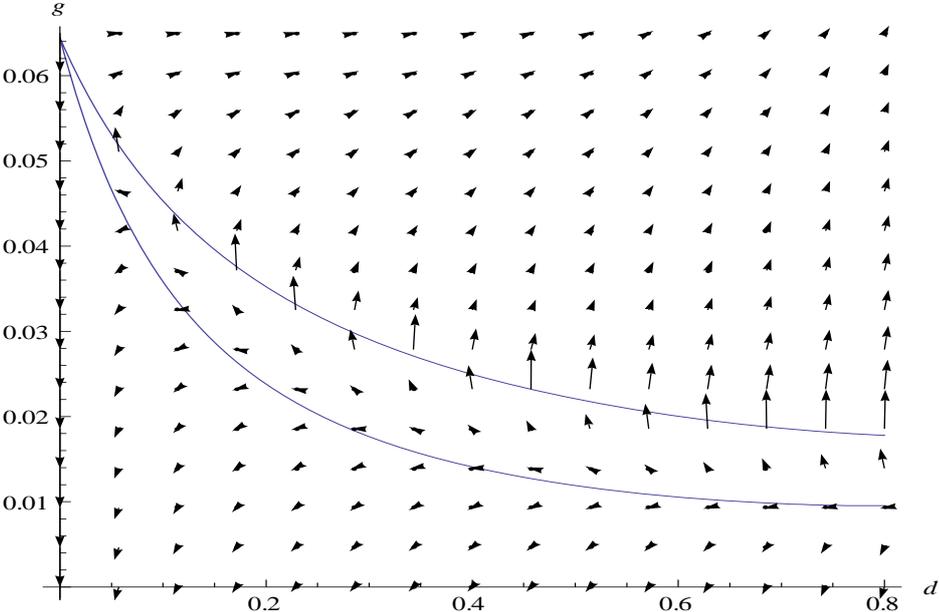


Development of Ω

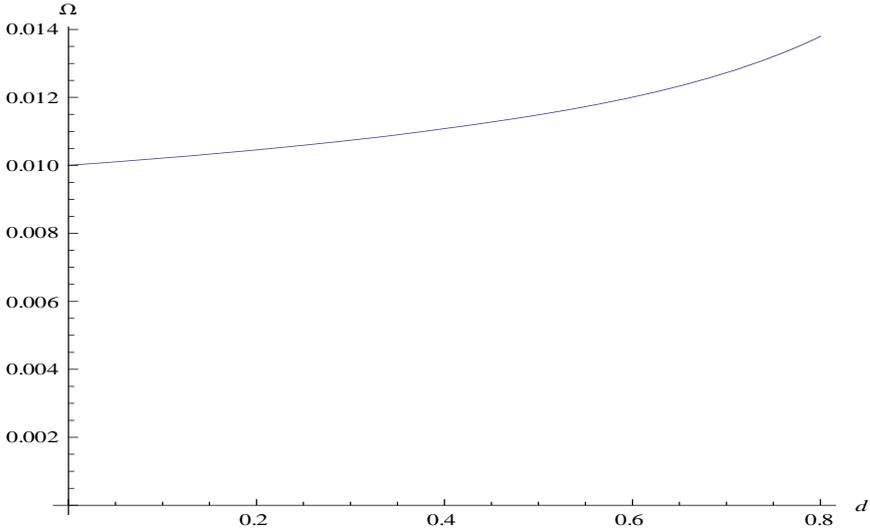


b) Intermediate population growth (“Hartwick case”): $\xi = 0.1 = 1 - \alpha$

Vector field

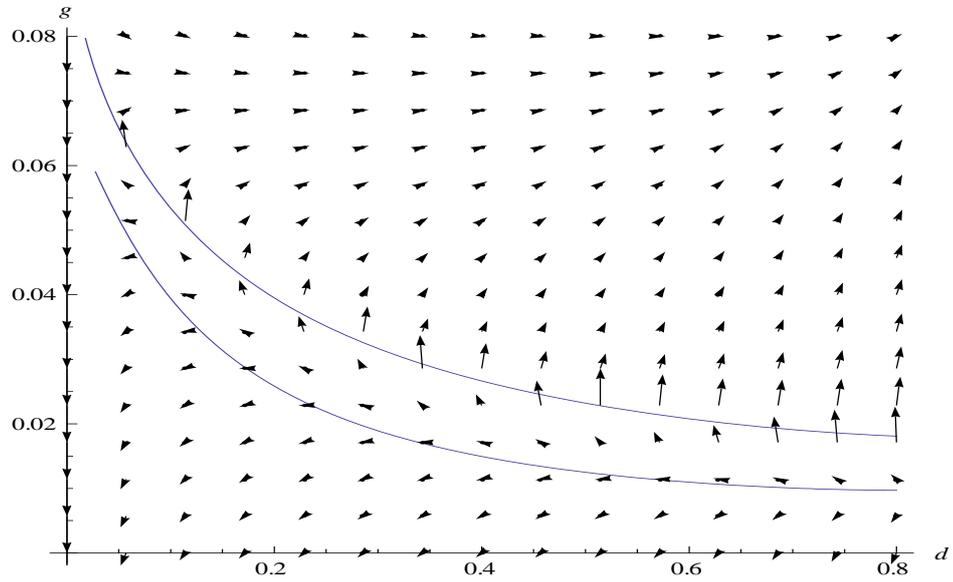


Development of Ω



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

Vector field



Development of Ω

