Sacchelli S (2018).
A Decision Support System for trade-off analysis and dynamic evaluation of forest ecosystem services
iForest – Biogeosciences and Forestry – doi: 10.3832/ifor2416-010

Supplementary Material

Tab. S1 - Additional TOOFES economic output (data processed with a rotation period of 100 years, without thinning and discount rate of 2%). (*): Examples of Break Even Prices (BEP), Annual Value (AV) and Net Present Values (NPV) for the case study.

Economic index*	Value	Notes or computation
Carbon BEP	12.6 € t^{-1}	Price to set VPS=VRS
Biodiversity BEP	335.11 € ha^{-1} $year^{-1}$	Price to set VPS=VSS
Touristic-recreational BEP	622.23 € ha^{-1} $year^{-1}$	Price to set VPS=VCS
AV_{ps} (provisioning services)	281 € $year^{-1}$	$AV_{ps}=VPS\cdot r$
AV_{rs} (regulating services)	156 € $year^{-1}$	$AV_{rs}=VRS\cdot r$
AV_{ss} (supporting services)	38 € $year^{-1}$	$AV_{ss}=VSS\cdot r$
AV_{cs} (cultural services)	12 € $year^{-1}$	$AV_{cs}=VCS\cdot r$
AV_{es} (ecosystem services)	487 € $year^{-1}$	$AV_{es}=VES\cdot r$
NPV_{ps} (provisioning services)	12,108 €	$NPV_{ps}=\left[\sum_{x=0}^{\omega}\frac{\rho_x+w_x-\sum_{\alpha}K_{\alpha,x}-D_x-Ad_x-I_x-S_x-z_x}{(1+r)^x}\right]\cdot s$
NPV_{rs} (regulating services)	6,723 €	$NPV_{rs}=\left[\sum_{x=0}^{\omega}\frac{(C_{AG,x}+C_{BG,x})\cdot\psi\cdot\sigma}{(1+r)^x}\right]\cdot s$
NPV_{ss} (supporting services)	1,626 €	$NPV_{ss}=\left[\sum_{x=0}^{\omega}\frac{biod_x}{(1+r)^x}\right]\cdot s$
NPV_{cs} (cultural services)	525 €	$NPV_{cs}=\left[\sum_{x=0}^{\omega}\frac{tr_x}{(1+r)^x}\right]\cdot s$
NPV_{es} (ecosystem services)	20,982 €	$NPV_{es}=NPV_{ps}+NPV_{rs}+NPV_{ss}+NPV_{cs}$