

## **Wikiprint Book**

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### 3.14 Compensatory growth

Compensatory growth rate responses are modelled by setting the 'feeding time adjustment rate' ([Group info](#) form) to zero, so that simulated  $Q/B$  is allowed to vary with pool biomass (nonzero feeding time adjustment results in simulated organisms trying to maintain Ecopath base  $Q/B$  by varying relative feeding time). Net production is assumed proportional (growth efficiency) to  $Q/B$ , whether or not this production is due to recruitment or growth. The  $Q/B$  increase with decreasing pool biomass is increased by decreasing vulnerability of prey to the pool ([Vulnerabilities](#) form). In the extreme as vulnerability approaches zero (donor or bottom up control), total food consumption rate  $Q$  approaches a constant (Ecopath base consumption), so  $Q/B$  becomes inversely proportional to  $B$ .