

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 .