Wikiprint Book

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3.17 Primary production

For primary producers the production is estimated as a function of the producers? biomass, Bi, from a simple saturating relationship

$$f(B_i) = \frac{r_i \cdot B_i}{1 + B_i \cdot h_i}$$ **Eq. 67**

where, r_i is the maximum production/biomass ratio that can be realized (for low B_i?s), and r_i/h_i is the maximum net primary production when the biomass is not limiting to production (high B_i?s). For parameterization it is only necessary to provide an estimate of r_i / (P_i/B_i), i.e., a factor expressing how much primary production can be increased compared to the base model state. If a Forcing function? is applied to primary production (see Apply FF (primary producer?), it multiplies the r parameter in Eq. 67.