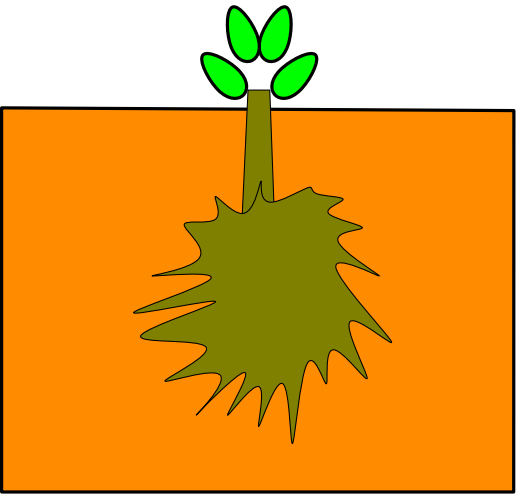
$$NPP = T\alpha(1 - e^{-kLAI}) \prod_i fi$$



$$\Delta W = NPP + RP$$

$$RP = \begin{cases} 0 & NPP_{res} <= 0 \\ f_R \; min(\Delta R_{def}, NPP_{res}) & NPP_{res} > 0 \end{cases}$$

$$NPP_{res} = NPP_{LAI=10} - NPP$$

$$\Delta R_{def} = W_R(W_R/W - p_{R\%x})R_{\Delta\%}$$

ΔW	Monthly growth	ΔR_{def}	Residual root
NPP	Net Primary productivity	$p_{R\%x}$	Maximum root %
LAI	Leaf area index	$R_{\Delta\%}$	Root contribution
RP	Root productivity	W_R	Total root mass
NPP_{res}	Residual desired NPP	f_R	Root conversion efficiency
$NPP_{LAI=10}$	NPP if $LAI = 10$	f_i	Various growth limiters