

Model	Formulation	Eq.	Driving data
R99	$r_{\text{N}} = 1.0 - (0.75 \times I)$	(27)	I = fractional intensity of cultivation
C07	$r_{\text{N}} = 1.0 - (0.75 \times I)$	(28)	I = fractional intensity of cultivation (r_{N} outside of k_d parameterization)
MeMo	$r_{\text{N}} = 1 - (N_{\text{soil}}) \times \alpha$	(29)	$N_{\text{soil}} = \frac{N_{\text{dep}} + N_{\text{fert}}}{(\rho \times z)}$ (30)