

Type	Parameter	Description	Value	Units	Reference
common	A_F	fraction of seasonally flooded area	0.3	unit-less	Junk et al. (2011a)
	A_U	fraction of upland or terra firme area	0.7	unit-less	Junk et al. (2011a)
	η	maximum transpiration rate	5	mm day ⁻¹	Porporato et al. (2003)
	T	temperature	25	Celsius	
	c	exponent of runoff leakage function	3	unit-less	Buendía et al. (2010)
	Z_r	effective soil depth	1	m	Buendía et al. (2010)
	n	porosity	0.4	dimensionless	Buendía et al. (2010)
	k_c	phosphorus occlusion rate	0.00001	m ² a ⁻¹ g ⁻¹	re-calibrated
	k_e	wind and gravitational-driven losses	0.00001	a ⁻¹	Buendía et al. (2010)
	k_l	runoff/leakage rate at saturation	0.1	a ⁻¹	Buendía et al. (2010)
	k_d	mineralization rate	0.19	a ⁻¹	Buendía et al. (2010)
	k_v	litter fall rate	0.20075	a ⁻¹	Buendía et al. (2010)
	k_r	losses regulation rate	0.002	a ⁻¹	Buendía et al. (2010)
	k_u	active uptake by vegetation	10	dimensionless	Buendía et al. (2010)
	k_f	wind, animal, fire losses rate	0.0001	a ⁻¹	Buendía et al. (2010)
	I_w	weathering	80	g P ha ⁻¹ a ⁻¹	steady-state solution
	I_d	atmospheric deposition of dust	5, 11–47	g P ha ⁻¹ a ⁻¹	Swap et al. (1992)