

Type	Symbol	Mathematical description	Description	Units
Pools	P_{vE}		phosphorus in vegetation	g P m^{-2}
	P_{oE}		phosphorus in soil biomass	g P m^{-2}
	P_{dE}		phosphorus in soil solution	g P m^{-2}
Fluxes	O_{oE}	$k_c P_{dE}$	phosphorus occlusion	$\text{g P m}^{-1} \text{a}^{-1}$
	F_{dvE}	$P_{dE} \frac{\eta s_E}{n Z_r s_E}$	phosphorus uptake by vegetation	$\text{g P m}^{-2} \text{a}^{-1}$
	F_{voE}	$P_{vE} k_v$	phosphorus losses from vegetation	$\text{g P m}^{-2} \text{a}^{-1}$
	F_{odE}	$P_{oE} k_d \frac{s_E T}{20}$	phosphorus mineralization	$\text{g P m}^{-2} \text{a}^{-1}$
Losses	O_{oE}	$P_{oE} (k_f + k_r k_l s_E^c)$	phosphorus in organic form	$\text{g P m}^{-2} \text{a}^{-1}$
	O_{dE}	$P_{dE} \frac{k_l s_E^c}{n Z_r s_E}$	phosphorus in soil solution	$\text{g P m}^{-2} \text{a}^{-1}$
Animal fluxes	AOo_E	$k_D P_{oE}$	detrivores consumption of P_{oE}	$\text{g P m}^{-2} \text{a}^{-1}$
	AOv_E	$k_H P_{vE}$	herbivores consumption of P_{vE}	$\text{g P m}^{-2} \text{a}^{-1}$
	AI_{odE}	$k_{DM} k_D (A_F P_{oF} + A_U P_{oU})$	detrivores mineralized inputs of P_{vE}	$\text{g P m}^{-2} \text{a}^{-1}$
	AI_{ooE}	$(1 - k_{DM}) k_D (A_F P_{oF} + A_U P_{oU})$	detrivores inputs of P_{vE}	$\text{g P m}^{-2} \text{a}^{-1}$
	AI_{vdE}	$k_{HM} k_H (A_F P_{vF} + A_U P_{vU})$	herbivores mineralized input of P_{vE}	$\text{g P m}^{-2} \text{a}^{-1}$
	AI_{voE}	$(1 - k_{HM}) k_H (A_F P_{vF} + A_U P_{vU})$	herbivores organic inputs of P_{vE}	$\text{g P m}^{-2} \text{a}^{-1}$