



Research article

Modeling the temporal dynamics of chlordecone in the profile of tropical polluted soils as affected by land use change

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Table S1. Values for the SOC mineralization rate constant (k_{soil}).

	andosol	ferralsol	nitisol
$k_{\text{soil}} (\text{yr}^{-1})$	2.61×10^{-2}	4.58×10^{-2}	4.62×10^{-2}

Table S2. Plant parameter values. C_{res} , is the C input from crop residues (aboveground and roots); h_{res} , is the humification coefficient of crop residues; k_{till} , is the coefficient accounting for the effect of soil tillage on SOC mineralization.

Crop	$C_{\text{res}} (\text{Mg C ha}^{-1} \text{ yr}^{-1})$	h_{res}^{**}	k_{till}^{**}
Banana	*	0.31	0.57
Vegetables	4.4	0.37	1.19

* Presented in Table S3.

** Unitless.

Table S3. Values of C_{res} for banana. In the MorGwanik model this parameter depends upon banana yield, which varies for each soil analyzed.

	andosol 1	andosol 2	ferralsol 1	ferralsol 2	nitisol 1	nitisol 2
$C_{\text{res}} (\text{Mg C ha}^{-1} \text{ yr}^{-1})$	7.8	3.9	4.9	5.1	4.4	3.6



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