

Parameter	Name	Spatial variability	Perturbed range
$f_{\text{clay}}, f_{\text{sand}}, f_{\text{silt}}$	Fraction of clay, sand, and silt	Yes	0–1
f_{sat}	Fraction of grid cell that is saturated	No	810–990
q_{sub}	Maximum rate of subsurface drainage assuming a fully saturated soil column	No	0.009–0.01
f_{p}	Tuneable parameter controlling drainage speed	No	1.9–2.2