

NOMENCLATURE OF THE INPUTS AND OUTPUTS

AFP	Air filled-porosity ($\text{m}^3 \text{ m}^{-3}$)
AFP_{minimal}	The minimal air filled-porosity ($\text{m}^3 \text{ m}^{-3}$) to guarantee a minimal relative gas diffusivity
D_s/D₀	Relative gas diffusivity (See Pulido-Moncada & Munkholm, 2019)
SPR	Soil penetration resistance (MPa)
SPR_{critical}	The critical soil penetration resistance (MPa) for a give root elongation rate.
Factor of decrease	The factor of decrease of the <i>exponential equation</i> that describe the root elongation rate as a function of soil penetration resistance. See Bengough (1997), Bengough et al. (2011) and Moraes et al. (2018).