

Site	Model	$K_{s1}$ ( $\text{cm h}^{-1}$ )	$l_1$ (-)	$K_{s2}$ ( $\text{cm h}^{-1}$ )	$l_2$ (-)	$h_{3l}$ (cm)	$h_{3h}$ (cm)	$\omega_c$ (-)	$K_{rs\_ini}^*$ ( $\text{cm h}^{-1}$ ) <sup>a</sup>	$K_{comp\_ini}^*$ ( $\text{cm h}^{-1}$ )	OF
F1	FJ	0.663 (3.417) <sup>b</sup>	4.669 (1.470)	1.581 (0.026)	3.459 (-2.797)	-694 (-1172)	-238 (-648)	0.95 (0.8)	-	-	33.42 (41.79)
	C	0.426 (3.853)	3.773 (1.472)	1.556 (0.021)	3.947 (-2.892)	-	-	-	$1.20 \times 10^{-7}$ ( $1.26 \times 10^{-7}$ )	$3.89 \times 10^{-8}$ ( $3.74 \times 10^{-8}$ )	33.40 (40.97)
F2	FJ	0.450	-1.358	0.144	-3.165	-747	-279	0.95	-	-	31.93
	C	0.417	-2.219	0.623	1.379	-	-	-	$8.60 \times 10^{-8}$	$4.77 \times 10^{-9}$	35.90

<sup>a</sup>  $K_{rs\_ini}^*$  and  $K_{comp\_ini}^*$  are  $K_{rs\_ini}$  and  $K_{comp\_ini}$  normalized by root length per surface area. <sup>b</sup> Parameters obtained only using measurements in the sheltered plot of the stony soil (Cai et al., 2017).