

	K_s (cm min ⁻¹)	θ_r (cm ³ min ⁻³)	α (cm ⁻¹)	n	n_a	C_{sat} (V Pa ⁻¹)
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(a) Sensor 1 (5 cm from the soil surface)

$t = 10$ min (total variance = 0.72)

S_i	0.055	0	0	0	0	0.942
ST_i	0.057	0	0	0	0	0.945

$t = 70$ min (total variance = 2.17)

S_i	0.841	0.217	0.005	0.014	0.008	0.045
ST_i	0.894	0.043	0.008	0.028	0.021	0.078

$t = 800$ min (total variance = 0.224)

S_i	0.053	0.266	0.015	0.038	0.094	0.008
ST_i	0.085	0.738	0.065	0.266	0.472	0.041

(b) Sensor 4 (77 cm from the soil surface)

$t = 10$ min (total variance = 0.094)

S_i	0.055	0	0	0	0	0.942
ST_i	0.057	0	0	0	0	0.945

$t = 70$ min (total variance = 0.2744)

S_i	0.839	0.015	0.014	0.013	0.005	0.053
ST_i	0.891	0.028	0.024	0.025	0.011	0.086

$t = 800$ min (total variance = 0.224)

S_i	0.099	0.225	0.054	0.043	0.085	0.01
ST_i	0.138	0.621	0.218	0.238	0.379	0.043