

Texture class	Estimated by Eq. (8) or (9)							Measured				Independent t test between measured and estimated K_{sat}	
	n^a	S (cm h ^{-0.5})			K_{sat} (cm h ⁻¹)			n^a	K_{sat} (cm h ⁻¹)			df	t value
		Mean	Median	SD	Mean	Median	SD		Mean	Median	SD		
Sand	291	2.3	0.26	4.3	42.2	15	134.5	229	43.6	24	149	518	0.10 ^b
Loamy sand	92	10.6	5.7	17.5	61.4	10	173.2	63	24.6	8.2	72	153	1.59 ^b
Sandy loam	500	9.2	2.95	15.7	32	3.1	94.5	424	41.2	5.7	166	922	1.05 ^b
Silt loam	409	9.4	1.5	19.1	26.5	1.7	61.7	165	2.9	0.96	5.1	572	4.90 ^c
Loam	583	7.9	2.4	12.9	7.8	0.28	26.7	270	4.9	1.18	13.7	851	1.69 ^b
Sandy clay loam	185	5.9	2.1	8.6	7.4	1.4	12.8	84	5.4	2.24	6.9	267	1.35 ^b
Silty clay loam	250	3.2	0.64	12.5	10.6	1.7	24.1	64	12.3	2.42	63.2	312	0.32 ^b
Clay loam	467	6.8	2.1	13.6	8.3	2.3	20	166	7.6	2.97	21.3	631	0.38 ^b
Sandy clay	–	–	–	–	–	–	–	–	–	–	–	–	–
Silty clay	121	7.7	2.2	13.4	26.2	7.8	61.5	54	44.8	6.97	88.2	173	1.59 ^b
Clay	333	14.6	1.7	39.5	354.3	1.3	1268.5	79	148.8	2.94	458.4	410	1.42 ^b
Silt	–	–	–	–	–	–	–	–	–	–	–	–	–
Total	4179	8.5	2.6	18.2	46	1.8	374.8	1895	41	3.4	174	–	–