Table 4-7 Green-Ampt parameters for different soil classes (Rawls et al., 1983)

(Numbers in parentheses are  $\pm$  one standard deviation from the parameter value shown.)

				Saturated
			Wetting Front	Hydraulic
		Effective	Suction Head,	Conductivity,
Soil Class	Porosity, ¢	Porosity, $\phi_e^*$	ψ <sub>s</sub> (in)	K <sub>s</sub> (in/hr)
Sand	0.437	0.417	1.95	4.74
	(0.374–0.500)	(0.354–0.480)	(0.38–9.98)	
Loamy sand	0.437	0.401	2.41	1.18
	(0.363–0.506)	(0.329–0.473)	(0.53–11.00)	
Sandy loam	0.453	0.412	4.33	0.43
	(0.351–0.555)	(0.283–0.541)	(1.05–17.90)	
Loam	0.463	0.434	3.50	0.13
	(0.375–0.551)	(0.334–0.534)	(0.52-23.38)	
Silt loam	0.501	0.486	6.57	0.26
	(0.420-0.582)	(0.394–0.578)	(1.15–37.56)	
Sandy clay	0.398	0.330	8.60	0.06
loam	(0.332–0.464)	(0.235–0.425)	(1.74–42.52)	
Clay loam	0.464	0.309	8.22	0.04
	(0.409–0.519)	(0.279–0.501)	(1.89–35.87)	
Silty clay	0.471	0.432	10.75	0.04
loam	(0.418–0.524)	(0.347–0.517)	(2.23–51.77)	
Sandy clay	0.430	0.321	9.41	0.02
	(0.370–0.490)	(0.207–0.435)	(1.61–55.20)	
Silty clay	0.479	0.423	11.50	0.02
	(0.425–0.533)	(0.334–0.512)	(2.41–54.88)	
Clay	0.475	0.385	12.45	0.01
	(0.427–0.523)	(0.269–0.501)	(2.52–61.61)	

<sup>\*</sup>Effective porosity is the difference between the porosity  $\phi$  and the residual moisture content  $\phi$ that remains after a saturated soil is allowed to drain thoroughly.