

Table 2.2 Range of Values of Hydraulic Conductivity and Permeability

		$k$ (darcy)	$k$ ( $\text{cm}^2$ )	$K$ ( $\text{cm/s}$ )	$K$ ( $\text{m/s}$ )	$k$ ( $\text{gal/day/ft}^2$ )
Rocks	Karst limestone	$10^5$	$10^{-3}$	$10^2$	1	$10^6$
	Permeable basalt	$10^4$	$10^{-4}$	10	$10^{-1}$	$10^5$
	Fractured igneous rocks and metamorphic rocks	$10^3$	$10^{-5}$	1	$10^{-2}$	$10^4$
	Limestone and dolomite	$10^2$	$10^{-6}$	$10^{-1}$	$10^{-3}$	$10^3$
	Sandstone	10	$10^{-7}$	$10^{-2}$	$10^{-4}$	$10^2$
	Unfractured igneous rocks	1	$10^{-8}$	$10^{-3}$	$10^{-5}$	10
	Shale	$10^{-1}$	$10^{-9}$	$10^{-4}$	$10^{-6}$	1
	Unweathered marine clay	$10^{-2}$	$10^{-10}$	$10^{-5}$	$10^{-7}$	$10^{-1}$
	Glacial till	$10^{-3}$	$10^{-11}$	$10^{-6}$	$10^{-8}$	$10^{-2}$
	Silt, loess	$10^{-4}$	$10^{-12}$	$10^{-7}$	$10^{-9}$	$10^{-3}$
	Silty sand	$10^{-5}$	$10^{-13}$	$10^{-8}$	$10^{-10}$	$10^{-4}$
	Clean sand	$10^{-6}$	$10^{-14}$	$10^{-9}$	$10^{-11}$	$10^{-5}$
	Gravel	$10^{-7}$	$10^{-15}$	$10^{-10}$	$10^{-12}$	$10^{-6}$
		$10^{-8}$	$10^{-16}$	$10^{-11}$	$10^{-13}$	$10^{-7}$
	Unconsolidated deposits					

Freeze, A. and J. Cherry (1979). *Groundwater*. Retrieved on 12 December 2019 from <http://hydrogeologistswithoutborders.org/wordpress/1979-english/chapter-2/>