



# Soil water storage properties

Recommended values for porosity, field capacity and wilting point for different soils.<sup>1</sup>

Link to this table.

Soil	Hydrologic soil group	Porosity <sup>2</sup> (volume/volume)	Field capacity (volume/volume)	Wilting point (volume/volume)	Porosity minus field capacity (volume/volume) <sup>3</sup>	Field capacity minus wilting point (volume/volume) <sup>4</sup>
Sand	A (GM, SW, or SP)	0.43	0.17	0.025 to 0.09	0.26	0.11
Loamy sand	A (GM, SW, or SP)	0.44	0.09	0.04	0.35	0.05
Sandy loam	A (GM, SW, or SP)	0.45	0.14	0.05	0.31	0.09
Loam	B (ML or OL)	0.47	0.25 to 0.32	0.09 to 0.15	0.19	0.16
Silt loam	B (ML or OL)	0.50	0.28	0.11	0.22	0.17
Sandy clay loam	C	0.4		0.07		
Clay loam	D	0.46	0.32	0.15	0.14	0.17
Silty clay loam	D	0.47 to 0.51	0.30 to 0.37	0.17 to 0.22	0.16	0.14
Sandy clay	D	0.43		0.11		
Silty clay	D	0.47		0.05		
Clay	D	0.47	0.32	0.20	0.15	0.12

<sup>1</sup>Sources of information include Saxton and Rawls (2006), Cornell University, USDA-NIFA, Minnesota Stormwater Manual. (See References for trees)

<sup>2</sup>Soil saturation is assumed to be equal to the porosity.

<sup>3</sup>This value may be used to represent the volume of water that will drain from a bioretention media.

<sup>4</sup>This value may be used to estimate the amount of water available for evapotranspiration

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