



Rainfall Runoff Processes

Field and oven-dry weights of soil samples taken with a 10 cm long by 5 cm diameter cylindrical tube are given in the accompanying table. Assuming $\rho_m = 2650 \text{ kg/m}^3 = 2.65 \text{ g/cm}^3$, calculate the volumetric soil moisture content, degree of saturation, bulk density and porosity of those soils.

Field mass	g	390.5
Oven dry mass	g	374.5
Bulk Density	g/cm³	1.907
Porosity		0.280
Volumetric water content		0.081
Degree of saturation		0.291

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