

## Lab # 3 Water in Soil

### Recommended Reading:

Wesl and Brady, 2017: The nature and properties of soils. 15<sup>th</sup> ed., Chapters 5 and 6  
Digging into Canadian Soils 114-116, 118-132

### Part 1. Water Content

a) Use the data provided in table 1 to calculate the: **Mass of water in each soil, volume of water, mass based water content (sometimes called gravimetric water content) (θm), Volumetric water content (θv), depth equivalent water content in the 50 cm depth of each soil (Dw), soil bulk density (BD), soil pore space ratio (PSR), and the percentage of the pore space occupied by water.**  
For each calculation provide your rough work for the calculations on one of the soils and provide your answers in table 2 below. Remember that the **particle density will remain constant at 2.65 g cm<sup>-3</sup>**.

density of water is 1 g cm<sup>-3</sup>

Table 1 Data on soil cores for use in calculation in part 1 a.

Core #	Wet weight of soil (g)	Dry weight of soil (g)	Volume of soil (cm <sup>3</sup> )
1	172	128	126
2	198	166	126
3	221	173	126

Table 2

Core #	Mass of water (g)	Volume of water (cm <sup>3</sup> )	θm (%)	θv (%)	Dw cm/cm	BD (g cm <sup>-3</sup> )	PSR (%)	% of pore space filled with water
1	44 = 172 - 128	44 g / 1.00 g cm <sup>-3</sup> = 44 cm <sup>3</sup>	34.38%	34.92%	17.46 cm	1.02 g cm <sup>-3</sup>	61.51%	56.77% <sup>a</sup>
2	32 = 198 - 166	32 g / 1.00 g cm <sup>-3</sup> = 32 cm <sup>3</sup>	19.28%	25.40%	12.70 cm	1.32 g cm <sup>-3</sup>	50.19%	50.61%
3	48 = 221 - 173	48 g / 1.00 g cm <sup>-3</sup> = 48 cm <sup>3</sup>	27.75%	38.10%	19.65 cm	1.37 g cm <sup>-3</sup>	49.30%	78.88%

$$\theta_m \text{ Soil 1} = (44 / 128) \times 100 = 34.38\%$$

$$\theta_m \text{ Soil 2} = (32 / 166) \times 100 = 19.28\%$$

$$\theta_m \text{ Soil 3} = (48 / 173) \times 100 = 27.75\%$$

$$\theta_v \text{ Soil 1} = (44 / 12.6) \times 100 = 34.92\%$$

$$\theta_v \text{ Soil 2} = (32 / 12.6) \times 100 = 25.40\%$$

$$\theta_v \text{ Soil 3} = (48 / 12.6) \times 100 = 38.10\%$$

$$\theta_w \text{ Soil 1} = (34.92 \times 50) / 100 = 17.46$$

$$\theta_w \text{ Soil 2} = (25.40 \times 50) / 100 = 12.70$$

$$\theta_w \text{ Soil 3} = (38.10 \times 50) / 100 = 19.05$$

$$\text{BD} \text{ Soil 1} = 12.6 / 12.6 = 1.02$$

$$\text{BD} \text{ Soil 2} = 166 / 12.6 = 1.32$$

$$\text{BD} \text{ Soil 3} = 173 / 12.6 = 1.37$$

$$\text{PSR} \text{ Soil 1} = (1 - (1.02 / 1.65)) \times 100 = 61.51$$

$$\text{PSR} \text{ Soil 2} = (1 - (1.32 / 1.65)) \times 100 = 50.19$$

$$\text{PSR} \text{ Soil 3} = (1 - (1.37 / 1.65)) \times 100 = 49.30$$

% pore Space:

$$\text{Soil 1} = (34.92 \times 100) / 61.51 \\ = 56.77$$

$$\text{Soil 2} = (25.40 \times 100) / 50.19 \\ = 50.61$$

$$\text{Soil 3} = (38.10 \times 100) / 49.30 \\ = 78.88$$

# Study Guide Soil And Water Answers

**Garrison**

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**Student Study Guide** Peter L. Kresan, Reed Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text Understanding Earth reflects the fundamental changes in the field of physical geology over the past several years

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Study Guide, Young/Freeman University Physics, Ninth Edition Young, James R. Gaines, William F. Palmer, 1996 A Lewis Ford Texas A M This manual includes worked out solutions for about one third of the problems Volume 1 covers Chapters 1 17 Volume 2 covers Chapters 22 46 Answers to all odd numbered problems are listed at the end of the book    Study Material Based On NCERT Science Class- X Dr. Sunita Bhagiya, ,Er. Meera Goyal, 2021-11-26 1 Chemical Reaction And Equations 2 Acids based and Salts 3 Metals and Non Metals 4 Carbon and Its Compounds 5 Periodic Classification of elements 6 Life Processes 7 Control and Coordination 8 How do Organisms Reproduce 9 Heredity and Evolution 10 Light Reflection and Refraction 11 The Human Eye and the Colourful World 12 Electricity 13 Magnetic Effects of Electric Current 14 Sources of Energy 15 Our Environment 16 Sustainable Management of Natural Resources Practical Project Appendix Answer Sheet Examination Paper

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*Study Guide/Selected Solutions Manual* Julie R. Frentrup,2002-06 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all odd numbered end of chapter problems in the text book Answers to Study Questions

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