

## 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

**Stanley Chernicoff**

## **Study Guide Soil And Water Answers:**

**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

*Study Guide for General Science II* Donald N. Niederkorn, 1963    **A Nature Study Guide** William S. Furneaux, 1912

**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    *Teacher's Study Guide on the Biology of Human Populations: Africa* Unesco, 1975

**The Study of Soils in Relation to Wisconsin Conditions** Fred Theodore Ullrich, 1923    **Manual of the Elementary Course of Study for the Common Schools of Wisconsin** Wisconsin. Department of Public Instruction, 1906    Study Guide and Student Solutions Manual for Wilson College Physics David Cordes, Jerry D. Wilson, John Kinard, 1990 This reader friendly book presents the fundamental principles of physics in a clear and concise manner Emphasizing conceptual understanding as the basis for mastering a variety of problem solving tools it provides a wide range of relevant applications and illustrative examples This book discusses mechanics thermodynamics and oscillations and wave motion For anyone wishing to learn more about the fundamentals of physics and how physical principles apply to a variety of real world situations devices and topics

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**Questions Oceanography** Garrison,2001-07 *Study Guide--Physics for Scientists and Engineers with Modern Physics* [by] Douglas C. Giancoli, 2nd Ed Douglas Brandt,Keith Andrew,Leonard E. Storm,1988 *Study Guide* Stanley

Chernicoff,2001-08 From Edward E Chatelain Valdosta State University Georgia this study guide helps students review and master the key ideas from every chapter through labeling exercises Chapter Reviews with matching statements plus Practice Tests and Challenge Tests that consist of multiple choice true false matching and short essay questions *Teacher's Study*

**Guide on the Biology of Human Populations** Unesco,1975 Factual and conceptual information dealing with the biology of human populations is offered in this guide for secondary science teachers Instructional approaches are reviewed and suggestions are offered for use of the problem method approach the discussion technique and the project option Information is organized into an introduction and five parts The introduction described adaption possibilities and highlights basic ecological concepts and principles The five parts focus on 1 evolution of human populations addressing the topics of genetics and evolution 2 environment of human populations synthesizing information on energy atmosphere water soils biota oceans nutrition diseases and mineral resources 3 dynamics of human populations identifying demographic parameters and population patterns 4 reproduction in human populations containing materials on human reproduction and sexual behavior and 5 design for survival discussing ecosystem management and control of environmental quality fertility regulation and humanity s future Lists of reference readings are included after each of the parts ML *Modules* McDougal Littell

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