

Lab Exercise and Activities

SECTION 1

Water Balance Components

A soil-water budget can be established for any area of Earth's surface—a continent, country, region, field, or front yard. The key is measuring the precipitation input and its distribution to satisfy the “demands” of plants, evaporation, and soil moisture storage in the area considered. Such a budget can examine any time frame, from minutes to years.

The water balance describes how the water supply is expended. Think of precipitation as “income” and evapotranspiration as “expenditure.” If income exceeds expenditures, then there is a **surplus** to account for in the budget. If income is not enough to meet demands, then we need to turn to savings (a storage account), if available, to meet these demands. When savings are not available, then we must record a **deficit** of unmet demand.

In the water balance, these budgetary components are presented as follows:

- **Precipitation** = income (supply)
- **Potential evapotranspiration** = expenditure (demand)

Water Balance Equation:

$$\begin{array}{ccccccc}
 \text{PRECIP} & = & \text{ACTET} & + & \text{SURPL} & \pm & \Delta \text{STGE} \\
 \text{supply} & & \text{actual evapotranspiration} & & \text{oversupply} & & \text{change to soil} \\
 & & & & & & \text{moisture, either} \\
 & & & & & & \text{soil-moisture} \\
 & & & & & & \text{utilization} \\
 & & & & & & \text{or} \\
 & & & & & & \text{soil-moisture} \\
 & & & & & & \text{recharge}
 \end{array}$$

$$\begin{array}{ccc}
 \text{POTET} & - & \text{DEFIC} \\
 \text{demand} & & \text{shortage}
 \end{array}$$

- **PRECIP** (precipitation) is rain, sleet, snow, and hail—the moisture supply.
- **POTET** (potential evapotranspiration) is the amount of **evaporation**, water leaving wet surfaces, and **transpiration**, water leaving through plants, that would occur if the moisture were available; the amount that would become output under optimum moisture conditions—the moisture demand.
- **DEFIC** (deficit) is the amount of unsatisfied POTET; the amount of demand that is not met either by PRECIP or by soil moisture storage—the moisture shortage.
- **ACTET** (actual evapotranspiration) is the actual amount of evaporation and transpiration that occurs; derived from $\text{POTET} - \text{DEFIC}$; thus, if all the demand is satisfied, POTET will equal ACTET—the actual satisfied demand.

- **Deficit** = unmet expenditures (shortages)
- **Surplus** = excess (oversupply)
- **Soil moisture storage** = savings

To understand the water-balance methodology and “accounting” or “bookkeeping” procedures, we must first understand the terms and concepts in a simple water-balance equation. Please consult *Geosystems*, Chapter 9, or *Elemental Geosystems*, Chapter 7, for the full description of each of these concepts and how they are measured and determined.

The goal, as with a money budget, is to account for the ways in which this supply is distributed: actual water taken by evaporation and plant transpiration, extra water that exits in streams and subsurface groundwater, and recharge or utilization of soil-moisture storage.

Remember that the goal of the water balance is to account for the expenditure of precipitation. The pronounceable acronyms in the water-balance equation should streamline having to repeat the full terms each time you say them.

Applied Physical Geography Lab Answers

Annelies Wilder-Smith



Applied Physical Geography Lab Answers:

Applied Physical Geography Robert W. Christopherson, Charles E. Thomsen, 2011-07-15 This spiral bound geography lab manual contains 21 lab exercises that are divided into logical sections Each exercise comes with a list of key terms and learning concepts Integrated into all of the exercises are links to Google Earth KMZ files available at www.mygeoscienceplace.com allowing students to experience and manipulate topographic maps in digital elevation mode relief as they work through problems This revised edition comes with updated shaded relief topographic maps to view with stereolenses a revised chapter on geographic information systems that contains online activities that allow students to use ArcGIS Explorer and updated Google Earth tm activities An answer key is available for teachers to download from www.pearsonhighered.com/irc

Applied Physical Geography Robert W. Christopherson, Gail L. Hobbs, 1999-12 PLEASE PROVIDE COURSE INFORMATION Ideal for use with any text on Physical Geography this laboratory manual contains step by step exercises that help students apply essential geographic principles methods and tools to better understand Earth and its systems Organization of each lab exercise chapter entails an introduction key terms and concepts listing objectives of the chapter and a listing of materials and sources needed to complete the exercises The initial laboratory exercise is called the Prologue Lab and is unique to this manual The assignments in the Prologue are meant to span the entire term and will provide students with the tools of spatial analysis that are at the core of geography

Elemental Geosystems Robert W. Christopherson, 2007

The Routledge Handbook of Planning for Health and Well-Being Hugh Barton, Susan Thompson, Sarah Burgess, Marcus Grant, 2015-05-22 Urban planning is deeply implicated in both the planetary crisis of climate change and the personal crises of unhealthy lifestyles Worldwide health issues such as obesity mental illness growing health inequalities and climate vulnerability cannot be solved solely by medicines but also by tackling the social economic and environmental determinants In a time when unhealthy and unsustainable conditions are being built into the physical fabric of cities a new awareness and strategy is urgently needed to putting health and well being at the heart of planning The Routledge Handbook of Planning for Health and Well being authoritatively and comprehensively integrates health into planning strengthening the hands of those who argue and plan for healthy environments With contributions from international leaders in the field the Handbook of Planning for Health and Well being provides context philosophy research processes and tools of experienced practitioners through case studies from four continents

Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy United States Air Force Academy, 2002

Instructors Resource Manual Robert W. Christopherson, 2003

Reading the Soil Archives Jan M. Van Mourik, Jaap van der Meer, 2019-11-27 Reading the Soil Archives Unraveling the Geoecological Code of Palaeosols and Sediment Cores Volume 19 provides details of new techniques for understanding geological history in the form of quantitative pollen analyses soil micromorphology OSL Optically Stimulated Luminescence dating phytolith analysis and biomarker analysis The book

presents the genesis of a cultural landscape based on multi proxy analysis of paleosoils and integration of geomorphological pedological and archaeological research results which can be a model for geoecological landscape studies Beginning with analytical methods for interpreting soil archives the book examines methods for reconstructing the landscape genesis The book presents strengths and weaknesses of applications especially in relation to the data from case studies in the Netherlands The final chapter of the book addresses landscape evolution in different cultural periods This book offers an integrated approach to geoecological knowledge that is valuable to students and professionals in quaternary science physical geography soil science archaeology historical geography and land planning and restructuring Covers techniques including soil pollen analysis radiocarbon dating OSL dating phytolith analysis biomarker analysis archaeological analysis and GIS Provides a case study of results applied in the reconstruction of landscape evolution of SE Netherlands Includes color illustrations such as microscopic pictures pictures of landscapes and soil profiles pollen diagrams and dating graph **A**

Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.).

Directorate for Science Education,1979

Selected Water Resources Abstracts ,1991

The United States Catalog

,1903

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