

# Laboratory Exercise No. 8: Water Balance and Water Budgets

NRC 170

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Section: S2L

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## Learning Outcomes

The purpose of this exercise is for students to become familiar with how water is budgeted in the various components of the hydrologic cycle for management purposes. Upon completion of this exercise each student should be able to:

- Calculate the basic water balance of a hydrologic unit
- Create a water budget for the Kaliwa Watershed
- Evaluate water availability under a variety of scenarios

## Practice Problems

### A. Questions to Answer

1. What is the water budget? (2 points)
  - A water budget is an estimate of the amount of water needed for both economic and ecological reasons. It is a useful tool for calculating and evaluating the availability of water resources for human and other living organisms' needs. Water budgets allow you to assess the availability and sustainability of a water supply. A water budget essentially asserts that the rate of change in the amount of water stored in a particular region, such as a watershed, is balanced by the rate at which water flows into and out of the area. Understanding water budgets and the underlying hydrologic processes lay the groundwork for efficient water-resource and environmental planning and management (Healy et al., 2007).
2. Explain the importance the knowledge of water budget is important in watershed management. Explain, cite an example. (4 points)
  - Knowing how the water budget is used would be immensely valuable to anyone, especially watershed managers, in determining the extent of the impacts and determining what steps may be required to alleviate such concerns. Flooding is one of the most prevalent events in a watershed area when it rains. Erosion of soil and water would most likely occur, affecting water quality and, as a result, human water consumption. With this dilemma in mind, defining a specific watershed's characteristics is critical to pinpoint the problem's source. Then, sufficient data will be collected to analyze each procedure of allocating the water budget in terms of its availability, ensuring that future people's demands are not jeopardized.
3. The water balance of a watershed is dynamic and changing. What factors could influence or induce change in the water balance of a watershed? Give three examples and expound on each. (6 points)
  - A water balance allows us to verify, validate, or refine our hydrological understanding of the system. Temperature, catchment area, and anthropogenic activity may impact a watershed's water balance. Temperature influences water balance because the greater the temperature, the more evapotranspiration occurs, reducing the amount of water in a watershed. The catchment area is next. The wider the catchment area of a watershed, the more rainfall it will get owing to the long lag time. However, the smaller the catchment area, the shorter the lag time, and the easier it is to fill up and hence can only accommodate a tiny quantity of rainfall (Shams et al., 2013).

# Modeling Water Budgets Holt Answer Sheet

**Carl W. Hall, James A. Basselman**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

## **Modeling Water Budgets Holt Answer Sheet:**

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*Agricultural Engineering Index, 1971-1980* Carl W. Hall,James A. Basselman,1982      A Technique for Predicting the Aquatic Ecosystem Response to Weather Modification Utah Water Research Laboratory,1975      **Soil and Water Quality** National Research Council,Board on Agriculture,Committee on Long-Range Soil and Water Conservation Policy,1993-02-01 How can the United States meet demands for agricultural production while solving the broader range of environmental problems attributed to farming practices National policymakers who try to answer this question confront difficult trade offs This book offers four specific strategies that can serve as the basis for a national policy to protect soil and water quality while maintaining U S agricultural productivity and competitiveness Timely and comprehensive the volume has important implications for the Clean Air Act and the 1995 farm bill Advocating a systems approach the committee recommends specific farm practices and new approaches to prevention of soil degradation and water pollution for environmental agencies The volume details methods of evaluating soil management systems and offers a wealth of information on improved management of nitrogen phosphorus manure pesticides sediments salt and trace elements Landscape analysis of nonpoint source pollution is also detailed Drawing together research findings survey results and case examples the volume will be of interest to federal state and local policymakers state and local environmental and agricultural officials and other environmental and agricultural specialists scientists involved in soil and water issues researchers and agricultural producers      **Agricultural Engineering Index** ,1987      **Ecology Abstracts** ,1993      **WRC Information** Water Research Centre (Great Britain),1981

*Agronomy Abstracts* ,1995 Includes abstracts of the annual meetings of the American Society of Agronomy Soil Science Society of America Crop Science Society of America of its Agronomic Education Division      NBS Special Publication ,1980

Applied Simulation and Modelling ,1982      **Monthly Weather Review** ,2001      **Hydraulic Research in the United**

**States and Canada, 1978** Pauline H. Gurewitz, 1980    *Agrindex* ,1994    Hydraulic Research in the United States and Canada United States. National Bureau of Standards, 1978    **Detroit** ,1915    The Detroider ,1915    *Colorado Club Woman* ,1921    **The Salt Lake Mining Review** ,1924    **Scientific American** ,1921 Monthly magazine devoted to topics of general scientific interest

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