

Laboratory Exercise No. 8: Water Balance and Water Budgets

NRC 170

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Section: S2L

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

Yicheng Fang



Modeling Water Budgets Holt Answer Sheet:

Unveiling the Magic of Words: A Review of "**Modeling Water Budgets Holt Answer Sheet**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Modeling Water Budgets Holt Answer Sheet**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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