

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

**Robert W. Christopherson, Charles E.
Thomsen**



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