Stream runoff and baseflow

Ecological and other Instream Needs

Poor Water Quality

Surface Water

Available

Ecological Needs and Human Uses

Ground Water

Available

Precipitation

Interbasin Transfers and Return Flows

Losses

Stream runoff and baseflow

Withdrawals

Consumptive Use

Evapotranspiration

Gains

Recharge Base Flow
Ecological and other Instream Needs

Poor Water Quality

Surface Water

Available

Ecological and other Instream Needs

Poor Water Quality

Ground Water

Available

Ecological Needs and Human Uses

Poor Water Quality

Interbasin Transfers and Return Flows

Precipitation

Gains

Available Water

Losses
Precipitation + Inflow = Evapotranspiration + Change in Storage + Outflow

Figure 1. The hydrologic cycle for part of a watershed.
Streamflow and precipitation

Ground-water levels

Water Quality

Biomonitoring
The Water for America Initiative will devote resources to:

– Expansion and Modernization of the Streamgaging Network
  • Add 350 high data rate radios per year
  • Re-establish 50 streamgages recently discontinued

– Water Use Science Program and Database Enhancements needed to manage and serve information
– The Regional Assessment Studies and Focus Area Research Studies.

– Advance Geologic Mapping of Aquifers
  • Cooperation with State Geologic Surveys.
GREAT LAKES BASIN PILOT PROJECT

http://water.usgs.gov/wateravailability/greatlakes