

2002 2006

National
Water
Availability
Pilot
Study on
the Great
Lakes



A STRATEGY FOR FEDERAL
SCIENCE AND TECHNOLOGY
TO SUPPORT
WATER AVAILABILITY AND QUALITY
IN THE
UNITED STATES

VALUE OF THE STATES

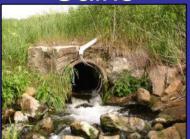
September 2007

Science for a changing world

2005

2007

Gains



Interbasin Transfers and Return Flows



Surface Water

Available

Ecological and other Instream Needs

Poor Water Quality

Recharge Base Flow

Ground Water

Available

Ecological Needs and Human Uses

Poor Water Quality

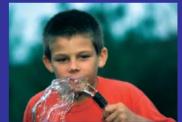
Losses



Stream runoff and baseflow



Withdrawals



Consumptive Use



Evapotranspiration

Gains



Interbasin Transfers and Return Flows



Surface Water

Available

Ecological and other Instream Needs

Poor Water Quality

Recharge Base Flow

Ground Water

Available

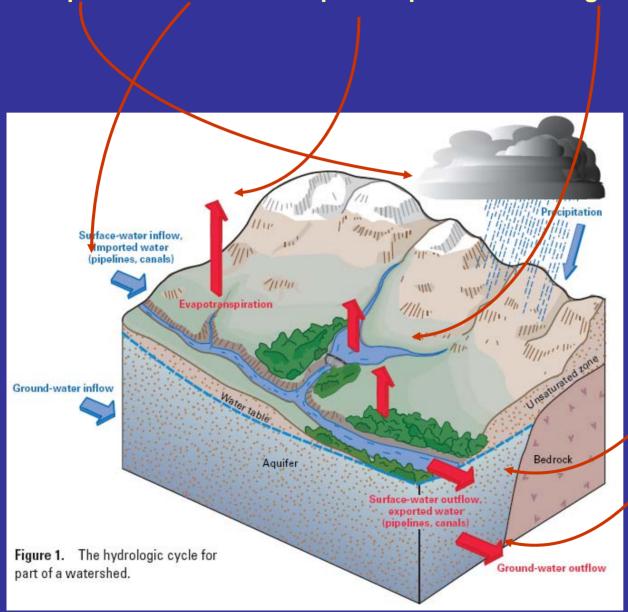
Ecological Needs and Human Uses

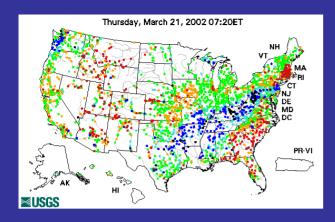
Poor Water Quality

Losses

Available Water

Precipitation + Inflow = Evapotranspiration + Change in Storage + Outflow



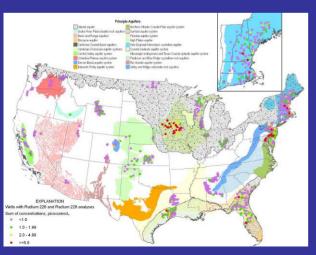


Streamflow and precipitation



Ground-water levels

Water Quality



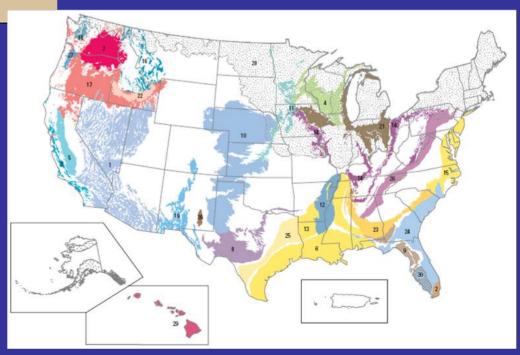
Biomonitoring



National Water-Quality Assessment Program Study Units Scheduled for 2001-2012 PUGT NECB YELL CONN GRSL CNBR NVBR PODL KANS UCOL KANA NVBR ALBE OZRK CACI TENN SOCA SANT CAZB MOBL ACFB GAFL COOK ACAD Began in 2001 Scheduled to begin 2004 SOFL Scheduled to begin 2007 OAHU Discontinued High Plains Regional Ground Water Study, 1999-2004

Ground-Water Resources Program

NAWQA

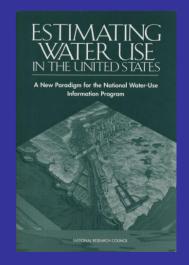


The Water for America Initiative will devote resources to:

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

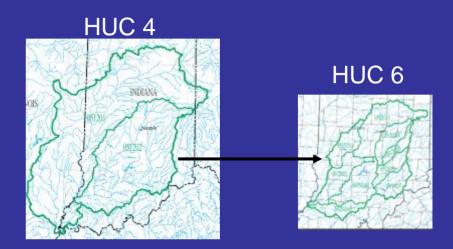


 Water Use Science Program and Database Enhancements needed to manage and serve information



-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