



# A National Water Census

\* Part of the  Initiative

The "water SMART" logo consists of a blue water drop icon with white waves inside, followed by the word "water" in a light blue, lowercase, sans-serif font, and the word "SMART" in a bold, green, uppercase, sans-serif font.



# Our objective for the Water Census:

To place technical information and tools in the hands of stakeholders, allowing them to answer two primary questions about water availability:

Does the Nation have enough freshwater to meet both human and ecological needs?

Will this water be present to meet future needs?

**P.L. 111-11 Subtitle F**  
**(SECURE Water Act as signed by the President March 30, 2009)**

**Section 9501: Findings**

**Section 9502: Definitions**

**Section 9503: Reclamation Climate Change and Water Program**

**Section 9504: Water Management Improvement**

**Section 9505: Hydroelectric Power Assessment**

**Section 9506: Climate Change and Water Intergovernmental Panel**

**Section 9507: Water Data Enhancement by United States Geological Survey**

*Full National Streamflow Information Program.*

*Creates a National Groundwater Resources Monitoring Program and a Brackish Groundwater Assessment.*

**Section 9508: Water Availability Assessments**

*Creates a national program to study water quality and quantity.*

*Requires first report in 2012 and every 5 years thereafter.*

*Grants are available to assist state agencies in developing and integrating state water use data.*

**Section 9509: Research Agreement Authority**

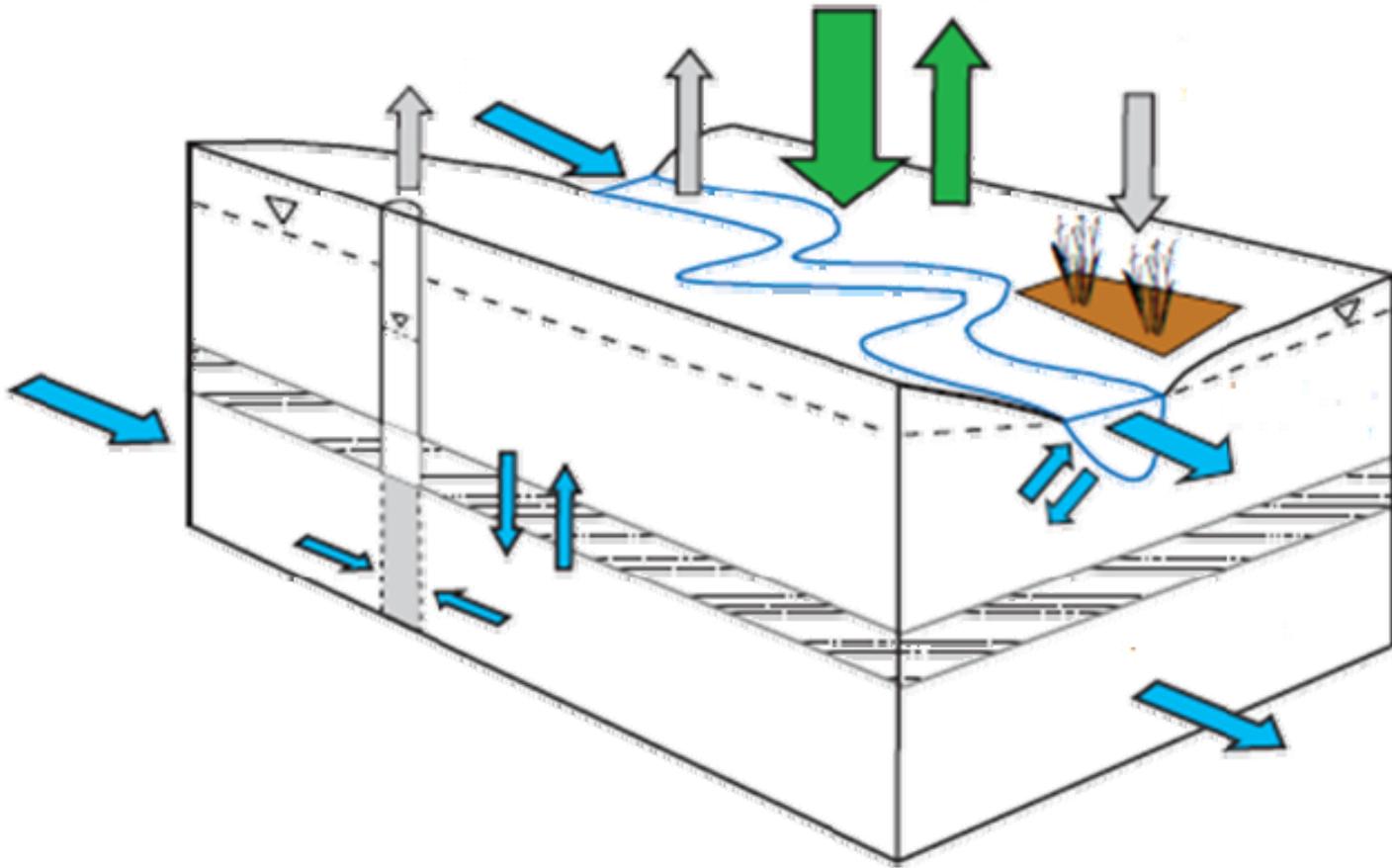
**Section 9510: Effect**



## Report to Congress - Every 5 years thereafter:

1. The **current availability** of water resources in the United States,
2. **Significant trends** affecting water **availability**, including documented or projected impacts as a result of global climate change,
3. The **withdrawal and use** of surface water and groundwater by various sectors,
4. **Significant trends** relating to each **water use** sector, including significant changes in water use due to the development of new energy supplies,
5. **Significant water use conflicts or shortages** that have occurred or are occurring,
6. Each **factor** that has **caused**, or is causing, a conflict or shortage.

# Account for water with a “budget”



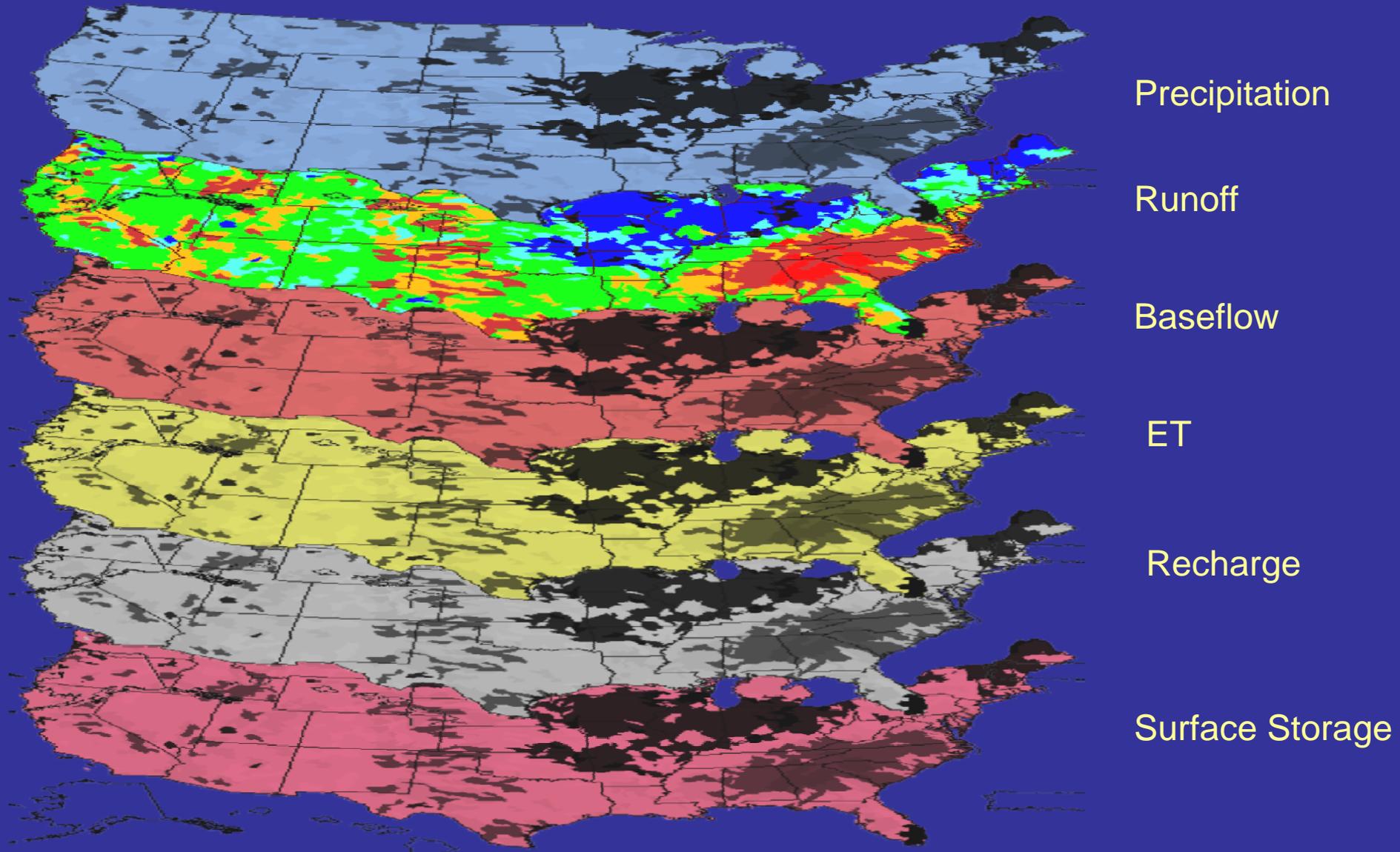


# A Nationwide System to deliver water accounting information addressing

- Precipitation
- Evapotranspiration
- Storage in Reservoirs, Lakes, Snow and Ice
- Surface Water
- Groundwater
  - Recharge rates
  - Water level in aquifers
- Ecological Needs
- Water Withdrawals
- Return Flows
- Consumptive Uses
- Run-of-the-River Uses



And if you could get that info for all accounting components



# Information Delivery

A web application for delivering water availability information at scales that are relevant to the user

USGS  
Idaho StreamStats

ZoomIn ZoomOut Pan GetInfo FullExtent LastExtent EditBasin FlowStats BasinChar ClearBasin Download GageInfo Print Help

Scale

Zoom To: water GO

Enter Water Resource

Map Layers Locator Map

- BASE LAYERS
- WATER
- POLITICAL

USGS Scale 1:7627084

Refresh Map Reset Layers

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey  
URL: <http://streamstats.usgs.gov/idstreamstats/>  
Page Contact Information: StreamStats Help

Streamstats Status News

FIRST GOV  
The U.S. Government's Official Web Portal

TAKE PRIDE IN AMERICA

Select the area of interest.

Generate information on water accounting components

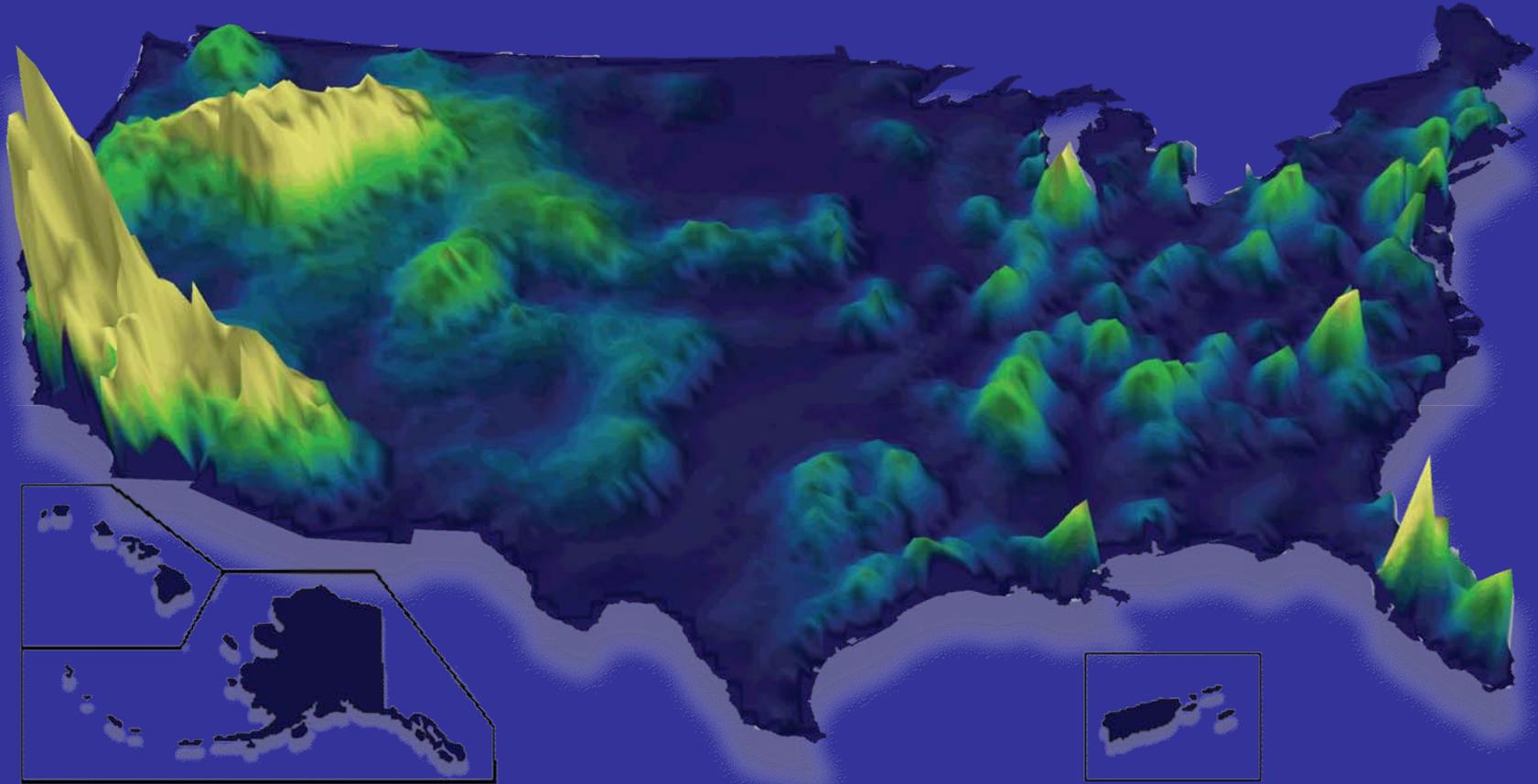
Work with the online tool to construct your water budget

Access trend information





# New Authority: Water Use Grants to States





# Understanding Flow Needs for Wildlife and Habitat

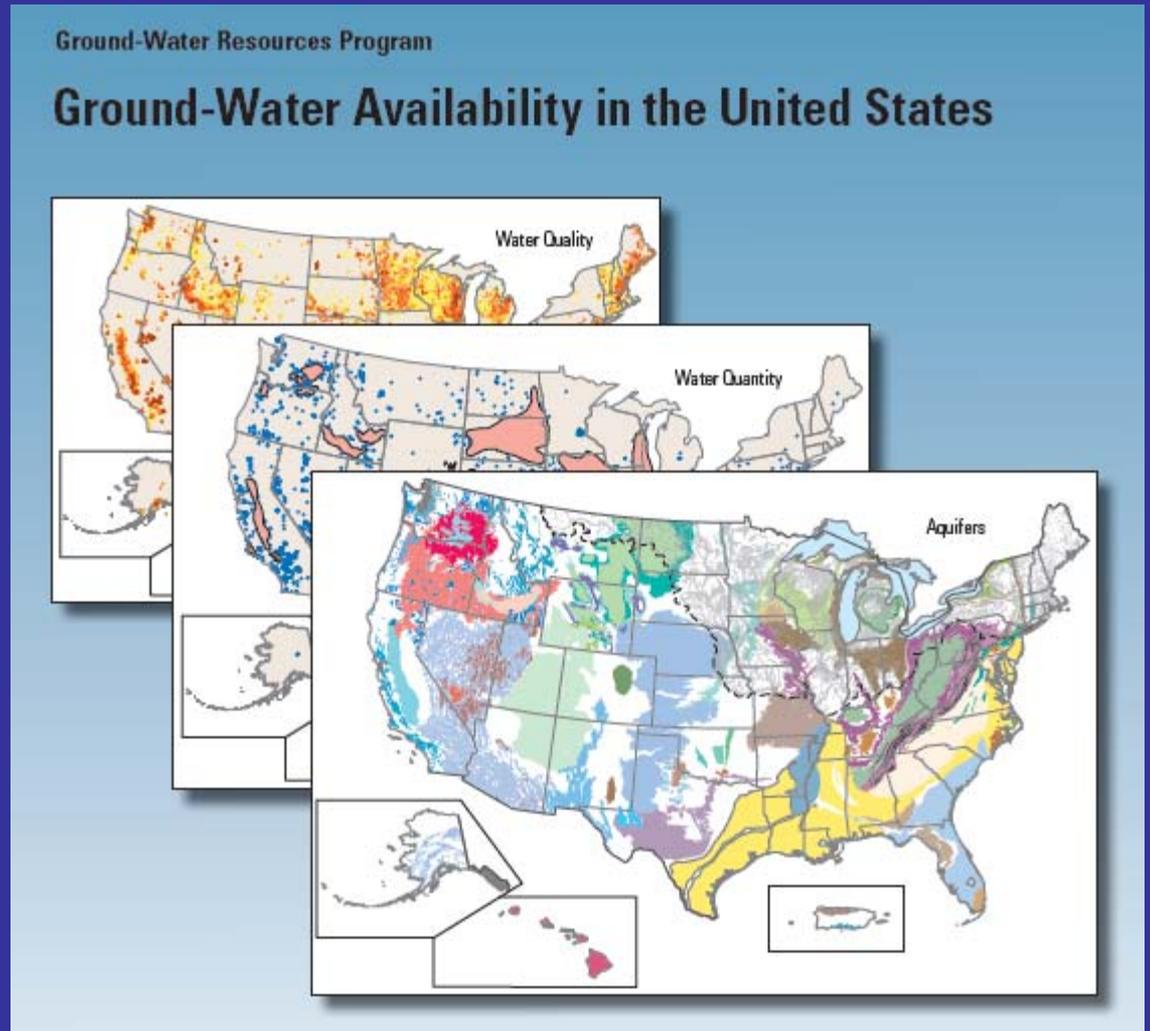




# Assess Groundwater's role in Water Availability

Use the strength of and enhance the resources within this program to provide the information on:

- Recharge
- GW yields
- Changes in storage.
- Saltwater Intrusion
- Trends in GW Indices
- Artificial Recharge
- GW/SW Interactions

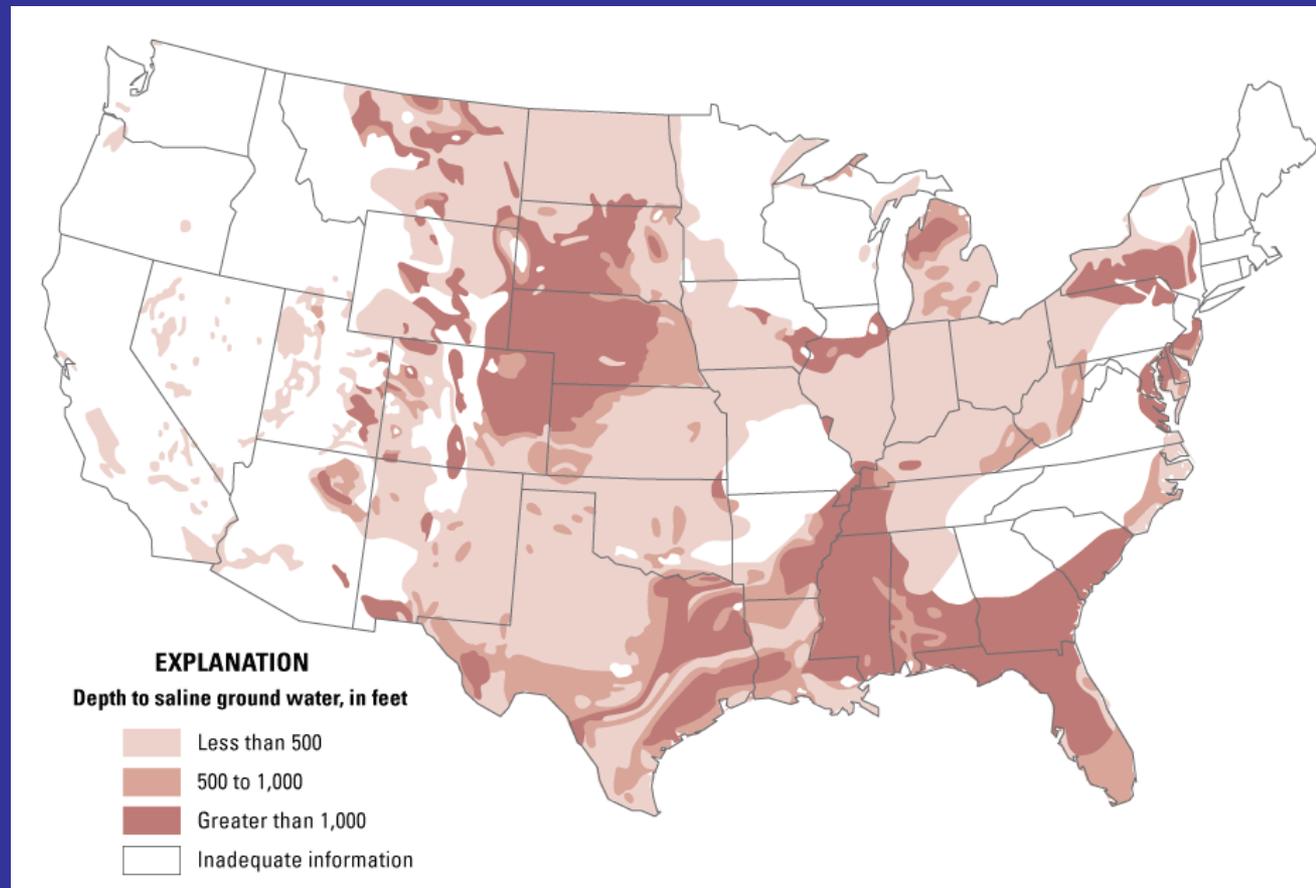




# Assess the Nation's Brackish Resources

Continue and strengthen the effort begun under the Challenge Projects RFP for 2010

- Locations of the res.
- Hydrologic properties
- Water quality properties
- Current uses



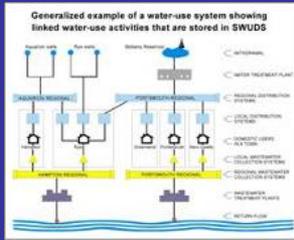
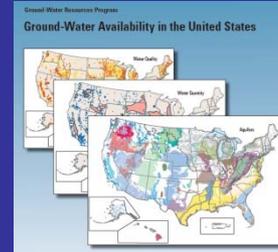
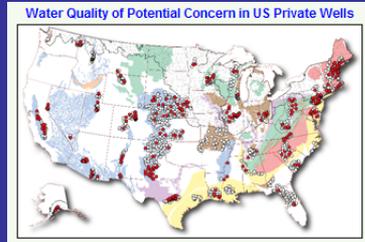
## Geographically focused studies in selected watersheds:

- Colorado River
- Delaware River
- ACF Rivers

Significant competition over water resources.

Work collaboratively with stakeholders to comprehensively assess the technical aspects of water availability.

# Focused Water Availability Assessments



Water Quality

Groundwater Resources

Water Use

SW Trends, Precipitation, etc



Global Change

State, Local, Regional Stakeholder Involvement



Defined Technical Questions to be Answered



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