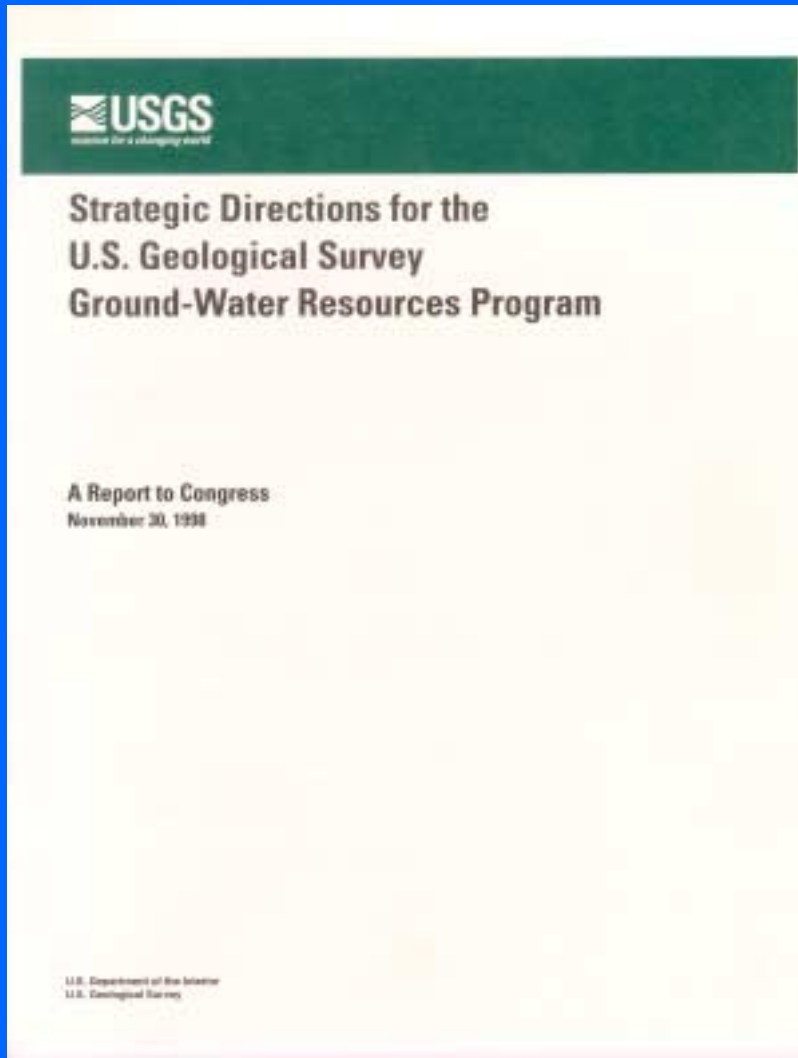


**The Role of the Ground-Water  
Resources Program  
*in*  
Piedmont/Blue Ridge Fractured Rock  
Regional Studies**

Bill Cunningham  
*Office of Ground Water*

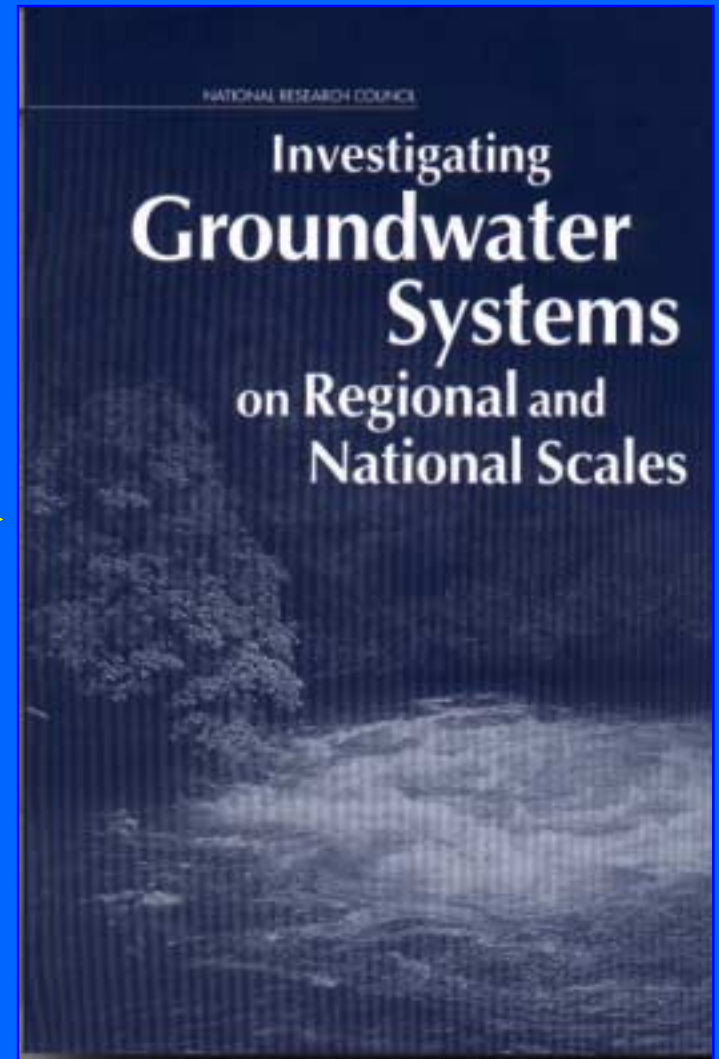


## Ground-Water Resources Program



1998

## National Academy of Sciences National Research Council



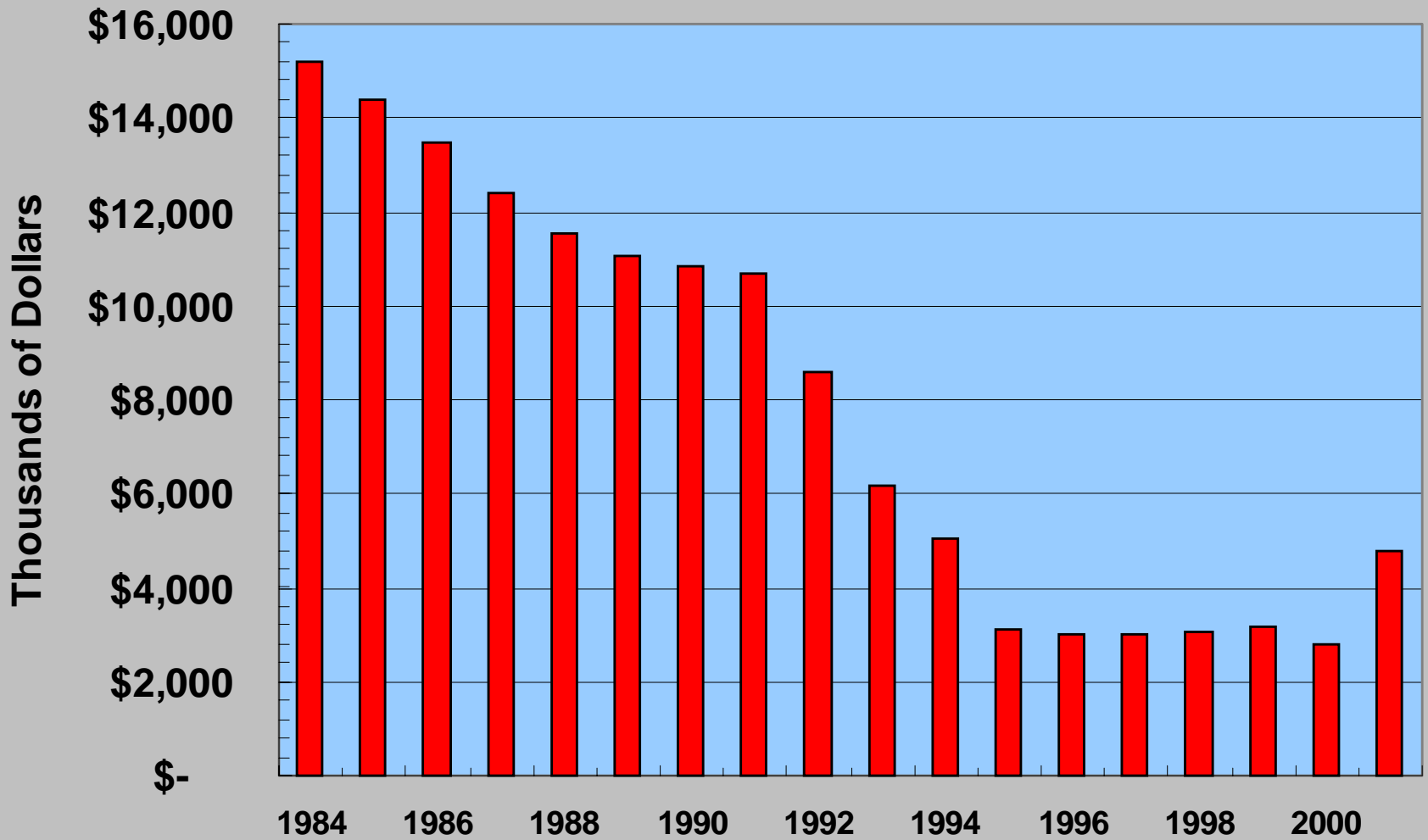
2000



# Scientific Issues for Regional Assessments

- Support for Aquifer Management Decisions
- Natural Ground-Water Recharge
- Ground-Water Flow in Shallow Aquifers
- GW/SW Interactions
- Saltwater Intrusion
- GW in Karst and Fractured-Rock Aquifers
- Improved Hydrologic Frameworks

# GWRP Funding



# GWRP Activities

(in order of expenditures)

1. Southwest GW/SW Interactions
2. National Research Program
3. Atlantic Coastal Zone
4. South Florida Ecosystems
5. Methow Valley
6. Middle Rio Grande
7. Model Development
8. Seed Projects
9. Aquifer Database


# Enhancements in FY01



- Development and testing of new geophysical methods for monitoring saltwater intrusion
- Data collection and model development for saltwater intrusion in VA, MD, NC, SC, MA, GA, and FL
- Fractured-rock aquifer analysis and related geologic mapping in CT
- Studies of ground-water depletion and water use for the High Plains Aquifer in WY, SD, CO, NB, KN, OK, TX, and NM
- Analysis of ground-water and surface-water interaction in IN and MI using new geologic maps from the Great Lakes Geologic Mapping Coalition
- Evaluation of the importance of microbiological processes related to regional ground-water-flow systems, especially for karst aquifers
- Overview of water issues for caves and springs in the Nation's parks
- Improved estimation of recharge rates in the humid eastern United States

# Program Activities in FY02

- Enhanced activities begun in FY01 will continue
- Priority will continue to be given to joint collaborative studies across Disciplines

# Upcoming Meeting.....

Address  <http://www.ngwa.org/education/fracrock.html>

 Go  Links

## Fractured-Rock Aquifers 2002



**Managing Land Use and Ground Water  
in Mountainous and Upland Areas**  
**A Conference for Elected Officials, Land-Use Planners, and Groundwater Scientists**

**Announcement and Call for Papers**  
**March 13-15, 2002 - Adams Mark Hotel - Denver, Colorado**

