

1. Record Nr.	UNINA9910778614103321
Titolo	Investigating groundwater systems on regional and national scales / / Committee on U.S.G.S. Water Resources Research, Water Science and Technology Board, Commission on Geosciences, Environment and Resources, National Research Council
Pubbl/distr/stampa	Washington, D.C. : , : National Academy Press, , 2000 ©2000
ISBN	0-309-17157-1 1-280-18530-9 9786610185306 0-309-56976-1
Descrizione fisica	1 online resource (xiv, 143 pages) : illustrations
Disciplina	553.790973
Soggetti	Groundwater - United States Water resources development Hydrogeology - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Investigating Groundwater Systems on Regional and National Scales""; ""Copyright""; ""Preface""; ""Contents""; ""Executive Summary""; ""1 Groundwater and Society""; ""A CRITICAL RESOURCE""; ""Drinking and Irrigation Water""; ""Streamflow and Ecosystems""; ""A THREATENED RESOURCE""; ""AN OVERDEVELOPED RESOURCE""; ""Regional Subsidence""; ""Salt-Water Intrusion""; ""Resource Depletion""; ""THE NECESSITY FOR CONJUNCTIVE MANAGEMENT""; ""CONCLUSIONS""; ""2 Approaches to Synthesis of Groundwater Issues at the Regional Scale""; ""USGS GROUNDWATER PROGRAMS""; ""PAST AND PRESENT""; ""The Changing Arena of Hydrogeology""; ""Regional Aquifer-System Analysis (RASA) Program""; ""National Water-Quality Assessment Program""; ""Groundwater Monitoring Networks""; ""Other Current USGS Programs""; ""Ground-Water Resources Program""; ""NEW OPPORTUNITIES AND MANDATES""; ""An Emphasis on Sustainability""; ""Alternative Meanings of "Regional"""; ""PROPOSED FRAMEWORK FOR

REGIONAL-SCALE GROUNDWATER STUDIES""; ""Regional Groundwater Assessment""; ""Regional Groundwater Science""; ""Example: Middle Rio Grande""; ""Regionalization""; ""CONCLUSIONS""

""3 Institutional Integration and Collaboration "" ""EXTERNAL COLLABORATION""; ""Rationale and Benefits""; ""Conditions for and Obstacles to Collaboration""; ""INTERNAL COLLABORATION""; ""Federal-State Cooperative Water Program""; ""National Water-Quality Assessment Program""; ""Toxic Substances Hydrology Program""; ""CONCLUSIONS""; ""4 Scientific Issues ""; ""AQUIFER MANAGEMENT""; ""Scientific and Management Issues""; ""USGS Roles in Aquifer Management""; ""NATURAL GROUNDWATER RECHARGE""; ""Scientific and Management Issues""; ""USGS Roles in Groundwater Recharge""

""GROUNDWATER QUALITY AND MOVEMENT IN SURFICIAL MATERIALS""

""Scientific and Management Issues""; ""USGS Roles in Surficial Material Hydrogeology""; ""GROUNDWATER-SURFACE WATER INTERACTIONS""; ""Scientific and Management Issues""; ""USGS Roles in Groundwater-Surface Water Interactions""; ""GROUNDWATER IN KARST AND FRACTURED AQUIFERS""; ""Scientific and Management Issues""; ""USGS Roles in Karst and Fractured-Rock Studies""; ""CHARACTERIZATION OF SUBSURFACE HETEROGENEITY""; ""Scientific and Management Issues""; ""USGS Roles in Characterization of Subsurface Heterogeneity""

""NUMERICAL MODELING"" ""Scientific and Management Issues""; ""USGS Roles in Numerical Modeling""; ""FACILITATING USE OF GROUNDWATER INFORMATION IN DECISION-MAKING""; ""Quantifying and Reducing Uncertainty in Predictions""; ""Scaling Available Information to the Regional Level""; ""Developing Decision-Making and Risk Models for Groundwater Use""; ""CONCLUSIONS""; ""5 Delivery and Accessibility of Groundwater Data ""; ""USERS OF GROUNDWATER DATA""; ""CONTENT OF GROUNDWATER DATA""; ""FORMAT OF GROUNDWATER DATA""; ""Web-Based Data Sets on a National Scale""; ""Web-Based Data Sets on Regional Scales""
