

|                         |   |
|-------------------------|---|
| 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<br>©2000  |
| ISBN                    | 0-309-17157-1<br>1-280-18530-9<br>9786610185306<br>0-309-56976-1  |
| Descrizione fisica      | 1 online resource (xiv, 143 pages) : illustrations  |
| Disciplina              | 553.790973  |
| Soggetti                | Groundwater - United States<br>Water resources development<br>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"";<br>""Copyright""; ""Preface""; ""Contents""; ""Executive Summary""; ""1<br>Groundwater and Society""; ""A CRITICAL RESOURCE""; ""Drinking and<br>Irrigation Water""; ""Streamflow and Ecosystems""; ""A THREATENED<br>RESOURCE""; ""AN OVERDEVELOPED RESOURCE""; ""Regional<br>Subsidence""; ""Salt-Water Intrusion""; ""Resource Depletion""; ""THE<br>NECESSITY FOR CONJUNCTIVE MANAGEMENT""; ""CONCLUSIONS""; ""2<br>Approaches to Synthesis of Groundwater Issues at the Regional Scale "";<br>""USGS GROUNDWATER PROGRAMS PAST AND PRESENT""<br>""The Changing Arena of Hydrogeology"" ""Regional Aquifer-System<br>Analysis (RASA) Program""; ""National Water-Quality Assessment<br>Program""; ""Groundwater Monitoring Networks""; ""Other Current USGS<br>Programs""; ""Ground-Water Resources Program""; ""NEW<br>OPPORTUNITIES AND MANDATES""; ""An Emphasis on Sustainability"";<br>""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""

---