

THE U.S. GEOLOGICAL SURVEY FEDERAL - STATE COOPERATIVE WATER RESOURCES PROGRAM IN FISCAL YEAR 1984

by Bruce K. Gilbert



U.S. GEOLOGICAL SURVEY
Open-File Report 84—857
1984

UNITED STATES DEPARTMENT OF THE INTERIOR

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The U.S. Geological Survey Federal-State Cooperative Water Resources Program in Fiscal Year (FY) 1984

By Bruce K. Gilbert

ABSTRACT

The U.S. Geological Survey's Federal-State Cooperative Program for water-resources data collection, investigations, and research was carried out with some 800 State, regional, and local agencies in fiscal year (FY) 1984. Total funding in this 50-50 matching program amounted to about \$100 million and included work underway in every State, Guam, Puerto Rico, and several U.S. territories.

The Geological Survey and its cooperating agencies mutually identify key issues and problems to determine which activities will be included. For 1984, the principal concerns included ground-water contamination, water supply and demand, stream quality, hydrologic hazards, and acid precipitation.

This report provides some perspective on program development and describes a few of the year's highlights.

INTRODUCTION

The Federal-State Cooperative Water Resources Program continues to be the largest component of the U.S. Geological Survey's water resources activity. This program was carried out in working partnership with more than 800 State, regional, and local agencies during FY 1984. Joint funding in the 50-50 matching Cooperative Program totaled about \$100 million, and comprised almost half the total program of the Water Resources Division (WRD). The Cooperative Program began in Kansas in 1895, and has grown and changed with time (Gilbert and Buchanan, 1981). Hydrologic data collection and interpretive investigations were underway in every State, Puerto Rico, and several United States territories in 1984.

Perhaps the most important characteristic of the program throughout is that it has been and is "policy relevant." That is, most investigations are responding to a recognized or potential problem and provide hydrologic information and analyses needed for making decisions or for formulating plans. The program also contributes to the advancement of hydrologic science and provides a major part of the Geological Survey's water information base. Table 1 shows selected national water issues and examples of where and when they were first identified as part of Cooperative Program activities.

Table 1.--National water issues identified as part of water-resource investigations supported by the Cooperative Program

National Water Issues	Issue Identified in the Federal-State Cooperative Program	National Water Issues	Issue Identified in the Federal-State Cooperative Program
Acid Precipitation	New York 1965 North Carolina 1962	Reservoir Planning and Design	Connecticut 1925
Oil Shale Development	Colorado 1962	Saltwater Encroachment	New Jersey 1923 California 1940 Florida 1945
Coal Hydrology (Acid Mine Drainage)	Kentucky 1955 Pennsylvania 1964	Land Subsidence	California 1940
Solid Waste Disposal	Florida 1970	Flood Plain Management	Pennsylvania 1961 North Carolina 1968
Hazardous Waste Disposal	Georgia 1963	Deep Well Injection	Florida 1966
Radioactive Waste Disposal	New York 1961	Lake Eutrophication	Florida 1971 Pennsylvania 1972
Indian Water Rights	North Dakota 1949 Arizona 1962	Streamflow Quality	Minnesota 1907 Illinois 1907
Urban Hydrologic Planning	California 1961	Water Use	Wyoming 1923
Ground-Water Mining	New Mexico 1926 Utah 1950 Colorado 1960	Water Rights	Wyoming 1899
Streamflow Depletion by Wells	New Mexico 1941 Colorado 1963	Ground-Water Quality	New Jersey 1923
Design of Interstate Highway System Bridges	New York 1963 Wisconsin 1971	Surface-Water Quality	South Carolina 1956
		Quality of Public Water Supplies	North Carolina 1961

HYDROLOGIC DATA COLLECTION

Practically all of the Geological Survey's data collection stations, funded in large part by this Cooperative Program, serve several purposes. In addition to providing information responsive to State or local needs, the Federal-State Cooperative Program stations (see table 2) provide information that satisfies the needs of many Federal agencies--for example: flood prediction, land use planning, streamflow regulation, hydroelectric power production, waste disposal standards, pollution regulation, mined-land reclamation, and energy development. Table 2 shows that in FY 1984 the Federal-State Cooperative Program provided sole support for nearly half the continuous streamflow discharge stations in the total Geological Survey network; and, in combination with other funding sources, provided partial support for another 18 percent of the total network of these stations.

The operation of data-collection network stations is a continuing activity. Although many data-collection stations are operated on a long-term basis as components of national networks, some are discontinued each year when their purpose has been served; new stations are installed as demanded by changing needs and priorities. The Geological Survey's entire stream gaging program, which includes gaging stations funded by the Federal Program, the Federal-State Cooperative Program, and the other Federal agency reimbursable program, is being systemically analyzed to improve its effectiveness. This nationwide analysis includes the identification of alternate methods, such as flow routing and statistical regression models, of providing streamflow data and information.

HYDROLOGIC INVESTIGATIONS AND RESEARCH

In addition to the data-collection activities, approximately 550 hydrologic investigations and water-resources research projects funded by the Federal-State Cooperative Program were underway in FY 1984. These included areal appraisals and special studies conducted throughout the Nation. Areal water-resources appraisals (which range from small basin or county to statewide or regional in size) define, characterize, and evaluate the extent, quality, and availability of the water resource. During the past decade or so, increasing emphasis has been given to water-quality issues, including aquifer contamination, acid precipitation, river quality assessments, and storm runoff.

Special analytical and interpretive studies address existing and foreseeable hydrologic conditions and problems, are somewhat more specific in nature and smaller in size than areal appraisals, and sometimes involve applied research. They may require from a few months to 2 to 3 years to complete, and result in analytical, interpretive, and predictive reports, data, and information leading to the solution of problems or more complete utilization and protection of the Nation's water resources.

Table 2.--Water data collection activities of the U.S. Geological Survey, FY 1984.

Types of Stations	Number of Stations				Total
	A.	B.	C.	D.	
	Federal Program	Federal-State Cooperative Program	Other Federal Agencies	Combined Support	
SURFACE WATER					
<u>Discharge</u>					
Continuous Record	567	3567	1629	1389	7152
Partial Record	79	2860	394	591	3924
<u>Stage only--Streams</u>					
Continuous Record	4	122	193	100	419
Partial Record	9	374	50	38	471
<u>Stage only--Lakes and Reservoirs</u>					
Continuous Record	10	467	258	111	846
Partial Record	11	283	57	49	400
<u>Quality</u>					
Continuous Record	157	294	211	122	784
Scheduled, long-term	540	1629	470	267	2906
Short-term or project	122	382	294	122	920
GROUND WATER					
<u>Water Levels</u>					
Continuous Record	101	1313	117	451	1982
Scheduled, long-term	830	17297	950	4970	24047
Short-term or project	1719	6183	607	1083	9592
<u>Quality</u>					
Scheduled, long-term	15	2251	219	586	3071
Short-term or project	547	2182	288	1560	4577

Explanation

Types of Stations

Continuous record: The station is instrumented to continuously monitor hydrologic conditions and, in some instances, transmit data in real time.

Partial record: Hydrologic information is collected only during selected periods, for example, during floods or droughts, or annual low flow.

Scheduled, long-term operation: Hydrologic information is collected on a fixed schedule for a long period to detect trends.

Short term or project stations: Hydrologic information is collected to meet the needs of a specific study. Data supplement those available from scheduled long-term continuous record, and partial-record stations.

Number of Stations

Column A: Those stations totally supported by funds appropriated to the Geological Survey Federal Program subactivity.

Column B: Those stations supported by funds appropriated to the Geological Survey Federal-State Cooperative Program subactivity.

Column C: Those stations totally supported by reimbursement from other Federal agencies.

Column D: Those stations supported by a combination of two or more of the above.

The Nation's rivers have historically been used for water supplies, dilution of waste, recreation, commerce, and for production of fish and other aquatic crops. These uses are not all compatible, and over time many problems have surfaced, which managers are attempting to solve. Deterioration in the quality of water supplies for domestic, municipal, industrial, and agricultural uses is a growing problem, which can affect human health as well as the economy. In spite of considerable progress in solving complex water problems, stresses impacting the quality of the surface and ground waters are multiplying. Ground water supplies drinking water for at least half of the Nation's population. In some places, especially in densely populated and industrialized areas, disposal of toxic wastes has made ground water unsafe for use. For an isolated point source of contamination, such as an industrial disposal pond, the consequences may be severe in magnitude but only local in extent. In some places, however, many separate industries located over a large area and some agricultural practices are contributing to widespread contamination.

PROGRAM PRIORITIES

Each year, cooperator proposals typically exceed Federal funds available for matching by several million dollars. Priorities for data collection and hydrologic investigations and research are based on a continuing, detailed analysis of water problems and issues. The Geological Survey and its cooperating agencies work together in a continuing process that leads to adjustments in each year's program. The process is guided by a determination of the key hydrologic problems and issues requiring priority consideration in the selection of new, or the retention of ongoing projects in the overall program. This is carried out through discussions with State and local cooperators, Federal agency officials, and through awareness of concerns of the general public. For 1984, most new cooperative investigations addressed the principal concerns derived from this national perspective--ground-water contamination, water supply and demand, stream quality, hydrologic hazards, and acid precipitation. These and other studies respond to the increasing need for information at local, State, regional, and national levels. The final selection of new projects is timed to coincide with critical points in the budgetary cycles of the Federal Government and the numerous State and local cooperating governments. With respect to the Federal government's budgeting cycle, specific negotiations for the upcoming fiscal year regarding individual projects are initiated with cooperators in January through March, are based on the provisions of the President's Budget submission to Congress, and may be subsequently modified based on appropriations actions taken by Congress.

MERIT PROPOSAL PROCESS

Most of the Federal matching funds are allocated to highest priority activities by the Division's four Regional offices after ranking the work proposed in their respective geographical areas of responsibility. However, the Geological Survey has instituted a new process for evaluating and funding selected proposals for water-resources investigations as part of the Federal-State Cooperative Program. The Federal matching fund support for merit proposals was \$1 million in FY 1983 and about \$1 million in FY 1984. Thus, with the cooperators providing an equal amount of funds, a total of about \$2 million was allocated each year. In 1983, 16 investigations were selected of the 33 proposed, and in 1984, 15 of 44 proposals were selected. Plans are to identify \$1 million of U.S. Geological Survey matching funds for investigations to be chosen through this process in FY 1985.

The new system formalizes existing procedures that have been used for the past 10-15 years to rank candidate proposals for allocation of funds. Each merit proposal is reviewed and evaluated separately by five members of the Geological Survey's senior staff. The group then meets as a panel to consolidate rankings and arbitrate differences, and funds are allocated to the investigations in priority order. Additional effort is applied, however, to ensure that the highest priority work is undertaken with the merit funds and that the anticipated technical contributions to the science of hydrology will be of top quality. Figure 1 shows how merit proposal funds were allocated to selected topical areas in FY 1984.

Although it is highly probable that all the merit investigations would have been funded under traditional procedures, the system has produced worthwhile results. The program development process has been strengthened because of the increased deliberation within WRD during the merit ranking. Incentive has been added for the planning and development of high quality proposals, and technology transfer has been enhanced through closer interaction of operational and research programs.

WATER-QUALITY ACTIVITIES

Ground-water contamination headed the 1984 list of priority issues for the Cooperative Program. This continued the trend from 1982 and 1983, and is expected to be repeated in 1985. The National Water Summary--1983 (U.S. Geological Survey, 1984) reports that contamination from hazardous wastes, point and nonpoint sources of pollution, saline water intrusion, eutrophication, acid precipitation, and other water-quality issues are of concern throughout the Nation (table 3).

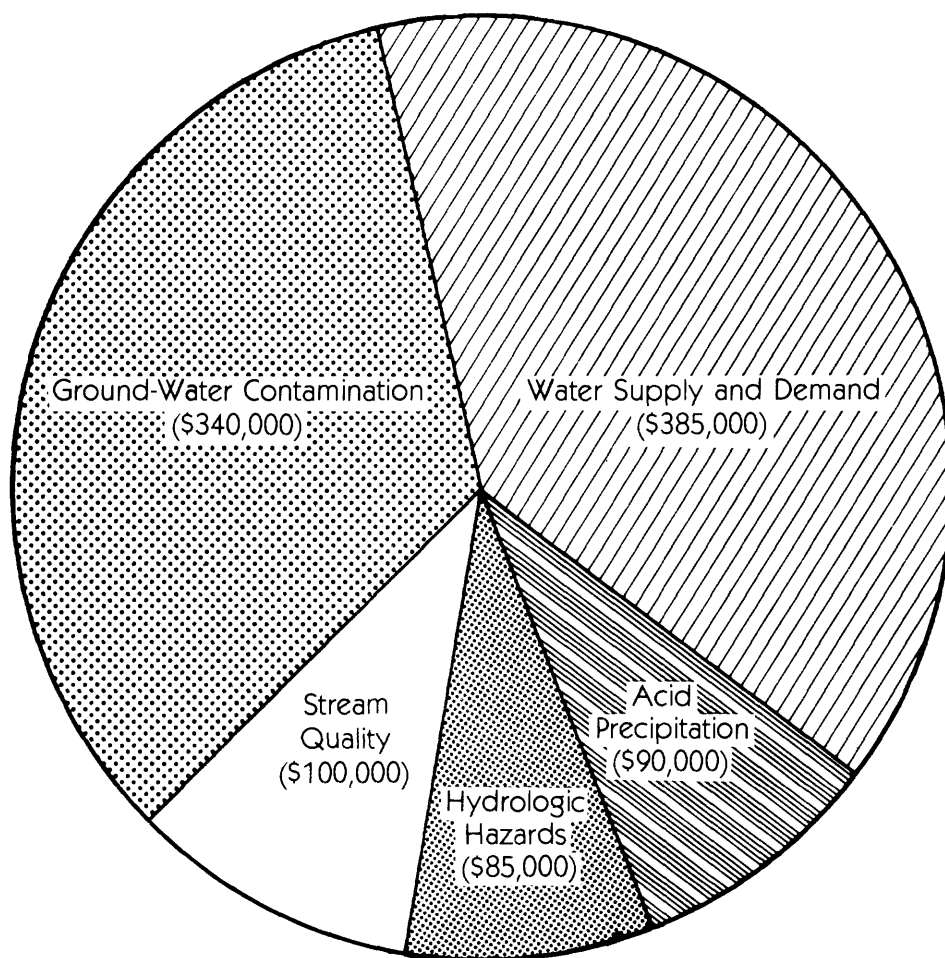


Figure 1.-The merit proposal process in fiscal year 1984 focused \$1 million of Federal matching funds, as part of the Cooperative Program, on high priority water-resources issues.

Table 3. -- Index to State water issues as compiled from *The National Water Summary* -- 1983.

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About 800 Cooperative Program investigations were active in 1984. Of these, some 200 were operated for collection of hydrologic data--surface water, ground water, water quality, sediment, and precipitation--and 48 were identified as part of the water-use activity. The balance of approximately 550 were hydrologic investigations, research, and special studies of which a minimum of 400 included some water-quality aspects. About 100 of these were principally concerned with investigations of contamination of surface or ground water. Table 4 shows the distribution of funding, by discipline, for hydrologic investigations and research from 1979 to 1984. The numbers were derived from estimates of the effort, in percent, that would be expended by the various disciplines in each project. For investigative and research activities, the amount of effort in water-quality work has increased from 20.1 percent in 1979, to 22.4 percent in 1984.

EXAMPLES OF CURRENT INVESTIGATIONS

In FY 1984, the Federal-State Cooperative Program continued to focus on water-resources investigations of highest priority to the Nation. Examples of these activities are furnished below.

WASHINGTON STATE: Hazardous Waste Investigations

In the State of Washington more than 200 hazardous-waste sites are located where there is a high probability of leachate impacting the surface and ground water. The State is developing a major program to deal with this problem and has asked the Geological Survey for technical assistance. The resulting investigation consists of four phases: (1) hydrogeologic characterization of existing hazardous-waste sites, (2) research on how the pollutants are moving through the water system and on the reaction processes that are involved, (3) broad characterization of the most and least suitable areas for land disposal of hazardous waste within the State, and (4) technical assistance in the evaluation of the hydrogeological aspects of proposals and reports being considered by the State.

SOUTHWEST LOUISIANA: Organic Waste Containment in the Mississippi Embayment

An investigation is underway to document current and past hydrodynamic and geochemical characteristics at a waste site located in Calcasieu Parish of southwestern Louisiana. Contaminant migration and the transport rates of various pollutants will be analyzed by use of a ground-water flow model. The objective is to define the clay mineralogy and the hydraulic processes related to the presence and movement of organic solutes in geologic materials having low hydraulic conductivities.

Table 4.--Distribution of funding (Federal side), by discipline, for hydrologic investigations and research, from FY 1979-1984, Federal-State Cooperative Program. (Does not include data-collection activities.)

Dollars, in thousands, and (percent)					
Fiscal Year	General Hydrology	Ground Water	Quality of Water	Surface Water	Total
1979	\$4,146 (21.6)	\$7,081 (36.9)	\$3,861 (20.1)	\$4,108 (21.4)	\$19,196 (100)
1980	\$4,744 (23.5)	\$7,100 (35.1)	\$4,157 (20.6)	\$4,200 (20.8)	\$20,201 (100)
1981	\$4,758 (23.3)	\$7,492 (36.7)	\$4,183 (20.5)	\$3,972 (19.5)	\$20,405 (100)
1982	\$5,050 (23.6)	\$7,226 (33.8)	\$4,593 (21.5)	\$4,500 (21.1)	\$21,369 (100)
1983	\$4,924 (23.0)	\$7,051 (33.0)	\$4,723 (22.1)	\$4,683 (21.9)	\$21,381 (100)
1984	\$3,860 (17.3)	\$8,179 (36.6)	\$5,007 (22.4)	\$5,297 (23.7)	\$22,343 (100)

ILLINOIS: Stream-Quality Modeling

An investigation currently underway has indicated that sediment oxygen demand is a major factor in dissolved oxygen depletion in the DuPage River. In the Sangamon River, it has been determined that oxidation of ammonia is a principal cause of dissolved-oxygen depletion. These findings will be used by State agencies in the review and possible revision of effluent and stream-quality standards.

NORTHWESTERN MONTANA: Ground-Water Resources of the Flathead Indian Reservation

The State of Montana established the Reserved Water Rights Compact Commission in 1979 to provide for the equitable division of water among State and Federal users and the seven Indian reservations located in Montana. The legislation prompted the Flathead tribes to begin a comprehensive appraisal of water resources on the reservation, including the availability of ground water. Although much of the reservation is irrigated from a complex network of canals and diversions, numerous tracts of land are isolated from the surface-water distribution system. A detailed study of ground-water availability was initiated to determine the feasibility of developing wells for irrigation of the isolated tracts. Aquifer testing to determine aquifer properties will provide information needed to develop quantitative analysis of ground-water availability and effects of increased pumpage on water levels.

NANTUCKET ISLAND, MASSACHUSETTS: Ground-Water Recharge Investigations

Analyses of tritium isotope profiles have been used to investigate ground-water recharge at two sites on Nantucket Island. Average annual recharge rates from 1964-1983 for the two sites were 17 and 25 inches per year. The techniques developed may be highly useful for investigations in other areas where porous aquifers are thicker than 100 feet or where the vertical hydraulic conductivity is less than that of the Nantucket aquifer.

NORTH DAKOTA: Wastes Associated With Mining

Low grade uranium ore in Western North Dakota's lignite was concentrated by open-pit burning of the lignite during the 1950's and 1960's. Investigations since October 1983 reveal that base flows in streams as far as 4 miles down-gradient from the open pit have a uranium concentration in excess of 200 micrograms per liter, about 10 times the regional background.

MASSACHUSETTS: Precipitation Quality

An investigation of the relationship between air-mass movement and variation in the quality of precipitation has been underway in Massachusetts since September 1983. Values of pH in precipitation samples range from 3.7 to 5.4 units; most are from 4.2 to 4.8 units. Meteorological data are being obtained from the National Weather Service and private sources in order to identify such characteristics as air-mass source, trajectory, and storm type.

GEORGIA: Fluid Flow in Fractured Limestone Formations near Brunswick

The dependence upon fractured rock aquifers to supply much of the Nation's ground water makes it imperative that methods continue to be developed to simulate accurately ground-water movement in these aquifers. The primary objectives of this investigation are to: evaluate the strengths and weaknesses of existing mathematical models for simulating hydrogeologic flow in a fractured limestone aquifer; and develop, if necessary, a mathematical model capable of simulating flow in a fractured aquifer. Results from this work will contribute to the understanding of the fractured and locally faulted limestone aquifer in the Brunswick, Georgia, area and will have transfer value to investigations of fractured-rock aquifers elsewhere.

MISSOURI: Ground-Water Resources of Barton, Vernon, and Bates Counties

A ground-water investigation in western Missouri was designed to determine whether or not increased irrigation pumpage might cause southward migration of saltwater into the freshwater zone of the Cambrian-Ordovician aquifer. The potentiometric surface of the aquifer has declined approximately 80 feet in parts of the area since the early 1900's with the rate of decline increasing during the past 10 years. The location of the freshwater-saltwater interface has not substantially changed, but water from some wells in western Barton and Vernon Counties has altered to a sodium-chloride type. In places, a sodium-salinity hazard exists for users of deep ground water for irrigation.

NEW JERSEY: Lead in Ground Water of the Coastal Plain

In 1982, lead concentrations exceeding the National Primary Drinking Water Standards were found in 14 percent of the domestic wells in Beachwood Borough, Ocean County, New Jersey. An investigation is underway to determine the source of the lead contamination and its mechanism of transport to the ground-water system. The study is also designed to determine if the lead contamination is an isolated problem or if it is reflective of a potentially broader problem within the Coastal Plain of New Jersey.

OKLAHOMA: Analysis of Droughts

The purpose of the investigation, which began in October 1982, is to describe a potential or existing drought. Base-flow characteristics of unregulated streams are used to analyze the status of available moisture in winter and early spring. Base-flow recession curves are used to project assured base flow from winter to spring and summer. Historical records of base flow are used to define the frequency of occurrence for each month from January through December. Frequency curves, precipitation records, and monthly increases in base flow are used to describe the probability that base flow during spring and summer will exceed the projected assured base flow. The technique has been tested and found promising.

OUTLOOK FOR NEXT YEAR

Program priorities for FY 1985 were identified through consultation with Federal, State, and local agency officials throughout the past year. They address the major water problems identified on a State-by-State basis in the 1983 National Water Summary except for the institutional and management issues that are not within the Geological Survey's mission. The list represents a national perspective on the most significant topics that should be addressed in the Federal-State Cooperative Program in order to serve both the Federal interest as well as those at the State and local levels.

The priority categories reflect the strong interdependence of the Cooperative Program and Federal Program, as well as the substantial amount of research, analysis, and data collection funded by other Federal agencies. The three programs are complementary and every effort is made to provide for a balanced program to direct our investigations to the highest priority work not fully covered by other programs.

The first group includes five categories that are of major national concern and are considered of highest priority in developing the FY 1985 Cooperative Program:

Water Quality: Appraisals of water quality of aquifers and streams are needed to assess baseline conditions and to evaluate trends. Ground-water quality appraisals will evaluate natural water-quality conditions and assess the effects of various human activities in representative hydrologic settings. Investigations of surface water will emphasize assessments of stream quality including sediment chemistry, stream biota, ground-water contribution, and overland flow. Particular emphasis will be placed on process-related studies and studies describing the type, nature, and severity of water-quality problems.

Toxic-Waste Hydrology: Environmental consequences of toxic-waste disposal are of nationwide concern because of potential health effects and enormous economic costs. Investigations of source, rate, and direction of movement of toxic contaminants in ground and surface waters are required to provide information for development of effective removal and control methodology.

Emphasis will be given to studies that advance knowledge on controlling processes such as solute-transport, organic biodegradation, and contaminant movement within and between ground- and surface-water environments. Potential study topics will include impacts of disposal in landfills, effects of nonpoint sources such as urban and agricultural runoff, and susceptibility of contaminant sources to flooding.

Erosion and Sedimentation: This topic involves both the expansion of the data base to include chemical properties and improved understanding of the processes governing erosion, sediment transport, and deposition. Erosion and sedimentation studies will be directed toward measuring the impacts of land-use changes, including urban development; studying the effects on land and water resources of suspended and deposited sediments; understanding the transport of toxic substances and other constituents sorbed or attached to sediment; and studying sedimentation in relation to the design of structures.

Water Supply and Demand: Increasing diversion, withdrawal, and use of water stress both the quantity and quality of existing supplies, thus raising costs of delivery and treatment, and presenting difficult problems of allocation and quality management to social and governmental institutions. Information defining present water use is required to quantify stresses spatially and temporally. Simulation is essential in both ground- and surface-water analysis to provide an understanding of system dynamics and to anticipate stress response. Other topics for study include streamflow response to drought conditions, and system response to projected uses and supply-augmentation schemes. The foundation for understanding problems of supply and demand is a well designed and carefully evaluated data-collection and analysis program.

Hydrologic Hazards: Economic losses from floods, mudflows, debris flows, sedimentation, and other hydrologic hazards continue to amount to billions of dollars annually. These hazards are related to phenomena such as precipitation, melting snow, ice formation, sinkhole development, land subsidence, volcanic eruptions, and earthquakes. Studies are needed to define the magnitude and probability of occurrence of hazardous hydrologic events and to better understand the processes by which they occur. Hazard studies in urban environments and flood-risk analyses associated with hydrologic-structure design should be included in this category.

The second group includes three categories that are also considered to be high priority for new work, but the importance of these topics may differ from region to region:

Hydrologic Effects of Fossil Fuel and Mineral Extraction: The extractive industries, whether oil and gas production and processing, solid-fuel mining and processing (such as coal and oil shale), or metallic and non-metallic mining, are pervasive in their influence on hydrologic systems. Impacts may relate to a wide spectrum of hydrologic phenomena, including interaction of subsurface fluids with contrasting chemical and physical characteristics, large-scale aquifer dewatering to permit mining, disruption of surface drainage, and disturbance of geochemical equilibria.

Wetlands, Lakes, Estuaries: Studies of availability, movement, and quality of water (including studies of physical, chemical, and biological processes), and interactions between water bodies and aquifers should be undertaken in wetland, lacustrine, and estuarine environments.

Acid Precipitation: Interpretive studies of the effects of precipitation chemistry on water quality and the effects of acid precipitation on biological systems should receive priority attention in terranes that have limited ability to buffer ground and surface waters and in urban settings that produce large loads of atmospheric pollutants.

Data collection continues to have a major focus in the Geological Survey because of its importance to Federal, State and local agencies, and because accurate, reliable and timely data are essential to current and future interpretive studies.

All data networks should be carefully and constantly evaluated in terms of relevance and cost-effectiveness. Network evaluations are of high priority and should use the best objective technology available, tempered with pragmatic considerations.

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 Birmingham, City of
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 Jefferson County Commission
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Alaska:

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 Arizona Municipal Water Users Association
 Gila Valley Irrigation District
 Maricopa County --
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Madera County Flood Control and Water Conservation Agency
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Santa Clara Valley Water District
Santa Cruz, City of, Water Department
Santa Cruz County Flood Control and Water Conservation District
Santa Maria Valley Water Conservation District

California--Continued

Santa Rosa Band of Mission Indians
Siskiyou County Flood Control and Water Conservation District
Sonoma County--
Planning Department
Water Agency
Soquel Creek County Water District
South San Joaquin Irrigation District
Tahoe Regional Planning
Terra Bella Irrigation District
Thousand Oaks, City of
Tulare County Flood Control District
Turlock Irrigation District
United Water Conservation District
University of California--
Berkeley, Agricultural Experiment Station, Department of Forestry
and Resource Management
Davis, Division of Environmental Studies
Ventura County, Public Works Agency
Western Municipal Water District
Westlands Water District
Woodbridge Irrigation District
Yolo County Flood Control and Water Conservation District

Colorado:

Arkansas River Compact Administration
Arvada, City of
Aspen, City of
Aurora, City of
Boulder, County of, Department of Public Works
Breckenridge, Town of
Central Yuma Ground Water Management District
Cherokee Water and Sanitation District
Colorado Department of Health
Colorado Division of --
Mined Land Reclamation
Water Resources, Office of the State Engineer
Colorado River Water Conservation District
Colorado Springs, City of --
Department of Public Utilities
Office of the City Manager
Crowley County, Board of County Commissioners
Custer, County of
Delta County, Board of County Commissioners
Denver, City and County, Board of Water Commissioners
Denver Regional Council of Governments
Eagle County, Board of Commissioners
El Paso County Water Users Association
Englewood, City of, Bi-City Wastewater Treatment Plant
Frenchman Ground Water Management District
Fruita, City of
Garfield, County of
Glenwood Springs, City of
Grand County, Board of Commissioners

Colorado--Continued

Larimer-Weld Regional Council of Governments
Lost Creek Ground Water Management District
Marks Butte Ground Water Management District
Metropolitan Denver Sewage Disposal District No. 1
Northern Colorado Water Conservancy District
Northwest Colorado Council of Governments
Pitkin County, Board of Commissioners
Pueblo Civil Defense Agency
Purgatoire River Water Conservancy District
Rio Blanco County, Board of County Commissioners
Rio Grande Water Conservation District
Sand Hills Ground Water Management District
Southeastern Colorado Water Conservancy District
Southern High Plains Ground Water Management District
Southwestern Colorado Water Conservancy District
Steamboat Springs, City of
Trinchera Conservancy District
Uncompahgre Valley Water Users' Association
Upper Arkansas River Water Conservancy District
Upper Black Squirrel Creek Ground Water Management District
Upper Yampa Water Conservancy District
Urban Drainage and Flood Control District
W-Y Ground Water Management District
Water Users No. 1 (Rangely)
Yellow Jacket Water Conservancy District

Connecticut:

Connecticut Department of Environmental Protection
Enfield, Town of
Fairfield, Town of, Conservation Commission
Meriden, Town of, Department of Public Works
New Britain, City of --
Board of Water Commissioners
Improvement Commission
Northeast Connecticut Regional Planning Agency
Norwalk, Town of
Ridgefield, Town of
Simsbury, Town of
South Central Connecticut Regional Water Authority
Stonington, Town of
Torrington, City of

Delaware:

Department of Natural Resources and Environmental Control
Geological Survey
New Castle County, Public Works Department

District of Columbia:

Department of Environmental Services

Florida:

Big Cypress Basin Board
Boca Raton, City of
Bradenton, City of
Brevard County, Board of County Commissioners

Florida--Continued

Broward County --
Environmental Quality Control Board
Utility Division
Water Resources Management Division
Cape Coral, City of
Clearwater, City of
Cocoa, City of
Collier, County of
Coordinating Council on the Restoration of Kissimmee River Valley
and Taylor Creek-Nubbins Slough Basin
Daytona Beach, City of
Englewood Water District, Board of Supervisors
Escambia County Utilities Authority
Flagler County, Board of County Commissioners
Florida Department of --
Environmental Regulation, Bureau of Water Resources Management
Natural Resources, Division of Marine Resources
Transportation
Florida Division of --
Recreation and Parks (Hope Sound)
Recreation and Parks (Tallahassee)
Florida Institute of Phosphate Research
Florida Keys Aqueduct Authority
Fort Lauderdale, City of
Fort Walton Beach, City of
Gainesville, City of
Hallandale, City of
Hernando, County of
Highland Beach, Town of
Hillsborough, County of
Hollywood, City of
Indian River County, Department of Planning and Human Services
Jacksonville, Consolidated City of --
Department of Health and Environmental Services
Department of Planning
Department of Public Works
Jacksonville Electric Authority
Joshua Water Control District
Juno Beach, Town of
Jupiter Inlet District
Lake County --
Board of County Commissioners
Pollution Control Department
Lee County, Board of County Commissioners
Leon County, Department of Public Works
Manatee County, Board of County Commissioners
Marion County, Board of County Commissioners
Metropolitan Dade County, Department of Environmental
Resources Management
Miami-Dade Water and Sewer Authority
Northwest Florida Water Management District
Old Plantation Water Control District
Orange County, Board of County Commissioners

Florida--Continued

Palm Beach County --
Board of County Commissioners
Solid Waste Authority
Pasco, County of
Perry, City of
Pinellas County, County Courthouse
Pinellas Park Water Management District
Polk County, Board of County Commissioners
Pompano Beach, City of, Water and Sewer Department
Quincy, City of
Reedy Creek Improvement District
St. Johns, County of
St. Johns River Water Management District
St. Petersburg, City of
Sarasota, City of
Sarasota, County of
South Dade Soil and Water Conservation District
South Florida Water Management District
Southwest Florida Regional Planning Council
Southwest Florida Water Management District
Stuart, City of
Sumter County, Recreation and Water Conservation and Control Authority
Suwannee River Authority (Live Oak)
Suwannee River Authority (Trenton)
Suwannee River Water Management District
Tallahassee, City of, Underground Utilities
Tampa, City of
University of Central Florida, College of Engineering
University of South Florida
Walton, County of
West Coast Regional Water Supply Authority
Winter Park, City of

Georgia:

Albany, City of, Water, Gas, and Light Commission
Bibb County, Board of County Commissioners
Brunswick, City of
Chatham County, Board of County Commissioners
Clayton County Water Authority
Consolidated Government of Columbus
Covington, City of
Georgia Department of --
Natural Resources --
Environmental Protection Division
Geological Survey
Transportation
Macon-Bibb County, Water and Sewage Authority
Valdosta, City of

Guam: (See Hawaii)

Hawaii:

American Samoa, Government of
Guam, Government of
Hawaii Department of --
Health
Land and Natural Resources, Division of Water and Land Development
Transportation
Honolulu, City and County --
Board of Water Supply
Department of Public Works
Trust Territory of the Pacific Islands --
Government of the Northern Mariana Islands
Federated States of Micronesia --
State of Kosrae
State of Ponape
State of Truk
State of Yap
Republic of Marshall Islands
Republic of Palau
University of Hawaii

Idaho:

Big Lost River Irrigation District
Idaho Department of --
Health and Welfare, Bureau of Water Quality
Water Resources
Idaho Water Resources Board
Oakley Canal Company
Salmon River Canal Company
Teton County, Board of Commissioners
The Shoshone Bannock Tribes, Fort Hall Indian Reservation
Water District No. 01--Idaho Falls
Water District No. 31--DuBois
Water District No. 33--Howe
Water District No. 37--Shoshone
Water District No. 37-N--Carey
Water District No. 65-K--Lake Fork

Illinois:

Bloomington and Normal Sanitary District
Cook County, Forest Preserve District
Decatur, City of
Illinois Department of--
Energy and Natural Resources, State Water Survey Division
Nuclear Safety
Transportation, Division of Water Resources
Illinois Environmental Protection Agency
Springfield, City of

Indiana:

Carmel, Town of
Elkhart, City of, Water Works
Indiana State Board of Health

Indiana--Continued
Indiana Department of --
Highways
Natural Resources --
Division of Reclamation
Division of Water
Indianapolis, City of, Department of Public Works

Iowa:
Cedar Rapids, City of
Charles City, City of
Clear Lake, City of
Des Moines, City of
Des Moines Water Works, Board of Water Works Trustees
Fort Dodge, City of
Iowa Department of --
Transportation, Highway Division
Water, Air and Waste Management
Iowa Geological Survey
Iowa State University
Marshalltown, City of
Sewage Disposal Plant
Sioux City, City of
Union Electric Company
University of Iowa --
Institute of Hydraulic Research
University Hygienic Laboratory
University Physical Plant
Waterloo, City of
West-Central Iowa Rural Water Association

Kansas:
Arkansas River Compact Administration
Harvey, County of
Hays, City of
Kansas Department of --
Health and Environment
Transportation
Kansas Geological Survey
Kansas-Oklahoma-Arkansas River Commission
Kansas State Board of Agriculture, Division of Water Resources
Kansas Water Office
Sedgwick, County of
Southwest Kansas GWMD No. 3
Western Kansas GWMD No. 1
Wichita, City of, Flood Control Maintenance

Kentucky:
Elizabethtown, City of
Kentucky Department of --
Natural Resources & Environmental Protection Cabinet
Transportation Cabinet, Division of Design
Kentucky Geological Survey
Louisville, City of
University of Kentucky
University of Louisville

Louisiana:
Baton Rouge City-Parish Government
Capital-Area Groundwater Conservation Commission
Louisiana Department of--
Environmental Quality and Water Resources, Water Pollution Control Division
Control Division
Natural Resources--
Louisiana Geological Survey
Office of Environmental Affairs, Water Pollution Control Division
Transportation and Development --
Office of Highways
Office of Public Works
Sabine River Compact Administration

Maine:
Androscoggin Valley Regional Planning Commission
Cobboossee Watershed District
Maine Department of --
Conservation, Geological Survey
Environmental Protection
Wilton, Town of

Maryland:
Anne Arundel County, Planning and Zoning Office
Baltimore County --
Department of Permits and Licenses
Department of Public Works
Office of Planning and Zoning
Calvert, County of
Caroline, County of
Carroll County, Board of County Commissioners
Howard County, Department of Public Works
Maryland Department of --
Health and Mental Hygiene, Office of Environmental Programs
Transportation, State Highway Administration
Maryland Energy Administration
Maryland Geological Survey
Maryland Water Resources Administration
Montgomery County --
Department of Environmental Protection, Office of Environmental
and Energy Planning
Division of Pollution Control
Poolesville, Town of
St. Marys County, County Commissioners
Upper Potomac River Commission
Washington Suburban Sanitary Commission

Massachusetts:
Barnstable County, County Commissioners
Cape Cod Planning and Economic Development Commission
Falmouth, Town of
Massachusetts Department of Public Works --
Division of Highways
Division of Research and Materials
Massachusetts State Water Resources Commission --
Division of Water Pollution Control
Division of Water Resources
Metropolitan District Commission, Water Division

Michigan:

Ann Arbor, City of
Battle Creek, City of
Clare, City of
Coldwater, City of, Board of Public Utilities
Elsie, Village of
Flint, City of, Water Supply and Pollution Control, Department of
Public Works and Utilities
Genesee County Drain Commission, Division of Water and Waste Services
Huron-Clinton Metropolitan Authority
Inlay, City of
Kalamazoo, City of, Department of Public Utilities
Lansing, City of, Board of Water and Light, Water and Stream Division
Macomb, County of
Mason, City of
Michigan Department of --
Agriculture, Soil and Water Conservation Division
Natural Resources
Transportation
Oakland County, Drain Commission
Orsego County, Road Commission
Portage, City of
St. Johns, City of
Van Buren County, Board of Commissioners
Ypsilanti, City of

Minnesota:

Bassett Creek Watershed Management Organization
Carnellian-Marine Watershed District
Coon Creek Watershed District
Eagan, City of
Elm Creek Conservation Commission
Fond du Lac Reservation Business Commission
Iron Range Resources Rehabilitation Board
Metropolitan Waste Control Commission
Middle River-Snake River Watershed District
Minnesota Department of --
Health
Natural Resources, Division of Waters
Transportation
Minnesota Geological Survey
Minnesota Pollution Control Agency
Minnesota Waste Management Board
Morrison County, Soil and Water Conservation District
Red Lake Watershed District
St. Louis Park, City of
University of Minnesota
Wesmin Resource, Conservation and Development Association
White Earth Reservation Business Commission

Mississippi:

Harrison County --
Board of Supervisors
Development Commission
Jackson, City of

Mississippi--Continued

Jackson County --
Board of Supervisors
Port Authority
Laurel, City of
Mississippi Department of --
Highways
Natural Resources --
Bureau of Geology
Bureau of Land and Water Resources
Bureau of Pollution Control
Mississippi Research and Development Center
Pat Harrison Waterway District
Pearl River Valley Water Supply District

Missouri:
Little River Drainage District
Missouri Department of --
Conservation
Land Reclamation Commission
Natural Resources --
Division of Environmental Quality, Lab Services Program
Division of Geology and Land Survey
Missouri Highway and Transportation Commission
Springfield, City of, City Utilities, Engineering Department

Montana:

Helena, City of
Montana Bureau of Mines and Geology
Montana Department of --
Fish, Wildlife, and Parks
Health and Environmental Sciences
Highways
Natural Resources and Conservation
State Lands
Salish and Kootenai Tribes of Flathead Reservation
Wyoming State Engineer

Nebraska:

Central Platte Natural Resources District
Grand Island, City of
Kansas-Nebraska Big Blue River Compact Administration
Lincoln, City of
Little Blue Natural Resources District
Lower Republican Natural Resources District
Nebraska Department of --
Environmental Control
Water Resources
Nebraska Natural Resources Commission
Twin Platte Natural Resources District
University of Nebraska, Conservation and Survey Division
Upper Loup Natural Resources District

Nevada:

California Regional Water Quality Control Board, Lahontan Region
Carson City, Department of Public Works
Churchill, County of
Douglas County, Department of Planning
Fallon, City of
Nevada Bureau of Mines and Geology
Nevada Department of --
Conservation and Natural Resources --
Division of Environmental Protection
Division of Water Resources
Transportation
Reno, City of
Washoe County, Council of Governments

New Hampshire:

Conway, Town of
Nashua Regional Planning Commission
New Hampshire Water Resources Board
Water Pollution Control Commission

New Jersey:

Bergen, County of
Bridgewater, Town of
Camden County, Board of Chosen Freeholders
Cranford, Township of
Delaware River Basin Commission
Logan, Township of
Morris County, Municipal Utility Authority
New Jersey Department of Environmental Protection, Division of
Water Resources
North Jersey District Water Supply Commission
Passaic Valley Water Commission
Somerset County, Board of Chosen Freeholders
West Windsor Township

New Mexico:

Alamo Navajo Chapter, Alamo School Board, Inc.
Alamogordo, City of
Albuquerque, City of
Albuquerque Metropolitan Arroyo Flood Control Authority
Bernalillo, County of
Costilla Creek Compact Commission
Jemez River Indian Water Authority
Las Cruces, City of
Navajo Indian Nation
New Mexico Bureau of Mines and Mineral Resources
New Mexico Environmental Improvement Division
New Mexico Interstate Stream Commission
New Mexico State Highway Department
Office of State Engineer
Pecos River Commission
Pueblo of Acoma
Pueblo of Laguna
Pueblo of Zuni
Raton, City of

New Mexico--Continued

San Juan, County of
Santa Fe Metropolitan Water Board
Vermejo Conservancy District

New York:

Albany, City of, Department of Water and Water Supply
Amherst, Town of
Auburn, City of
Brookhaven, Town of
Chautauqua, County of, Department of Planning and Development
Clarence, Town of
Cornell University--
Department of Natural Resources
Department of Utilities
Cortland, County of, Planning Department
Erie County, Division of Environmental Control, Department of
Environment and Planning
Hudson-Black River Regulating District
Irondequoit Bay Pure Waters, Department of Engineering
Kirkwood, Town of
Kiryas Joel, Village of
Long Island Regional Planning Board
Montroe, County of --
Engineering Department
Water Authority
Nassau, County of, Department of Public Works (Bellmore and Mineola)
New York City --
Department of Environmental Protection, Air Resources-Water
Resources-Energy
Department of Sanitation, Office of Resource Recovery
New York State Department of --
Environmental Conservation --
Division of Air
Division of Water
Transportation, Bridge and Construction Bureau
New York State --
Energy Research and Development Authority
Power Authority
Newstead, Town of
Nyack, Village of, Board of Water Commissioners
Onondaga, County of --
Department of Drainage
Environmental Management Council
Water Authority
Oswego, County of, Planning Board
Rockland, County of, Drainage Agency
Seneca Nation of Indians
Shelter Island, Town of
Suffolk, County of --
Department of Health Services
Water Authority
Susquehanna River Basin Commission
Temporary State Commission on Tug Hill
Ulster, County of, County Legislators

New York--Continued

University of the State of New York, Regents Research Inc.
Westchester, County of --
Department of Health
Department of Public Works

North Carolina:

Ayden, Town of
Cary, City of
Charlotte, City of
Durham, City of, Department of Water Resources
Farmville, Town of
Greene, County of
Greenville Utilities
Kinston, City of
LaGrange, Town of
New Bern, City of
North Carolina State Department of--
Human Resources
Natural Resources and Community Development
Transportation, Division of Highways
Pinetops, Town of
Rocky Mount, City of
Snow Hill, Town of
Stantonsburg, Town of

North Dakota:

Burleigh County Water Resources District
Dickinson, City of
North Dakota State --
Department of Health
Geological Survey
Public Service Commission
University
Water Commission
Oliver County, Board of Commissioners

Northern Mariana Islands: (See Hawaii)

Ohio:

Canton, City of, Water Department
Columbus, City of --
Department of Public Service
Division of Water
Miami Conservancy District
Northeast Ohio Areawide Coordinating Agency
Northwood, City of
Ohio Department of --
Natural Resources
Transportation
Ohio Environmental Protection Agency
Oregon, City of
Seneca Soil and Water District
Williams, County of

Oklahoma:

Ada, City of
Altus, City of
Central Oklahoma Master Conservancy District
Claremore, City of
Fort Cobb Reservoir Master Conservancy District
Foss Reservoir Master Conservancy District
Lawton, City of
Lugert-Altus Irrigation District
Mountain Park Master Conservancy District
Oklahoma City, City of
Oklahoma Conservation Commission
Oklahoma Department of --
Health
Transportation
Oklahoma Geological Survey, University of Oklahoma
Oklahoma Water Resources Board
Sapulpa, City of
Tulsa, City of

Oregon:

Benton County, Board of Commissioners
Burnt River Irrigation District
Confederated Tribes of --
Umatilla Indian Reservation
Warm Springs Indian Reservation
Coos Bay-North Bend Water Board
Douglas, County of, Department of Public Works
Eugene, City of, Water and Electric Board
Lane Council of Governments
Lane, County of, Office of the Chief Administrator
McMinnville, City of, Water and Light Department
North Wasco County People's Utility District
Oregon Department of --
Fish and Wildlife
Transportation, Highway Division
Water Resources
Oregon State University
Portland, City of
Rajneeshpuram, City of
Salem, City of

Pennsylvania:

Bethlehem, City of
Chester, County of, Water Resources Authority
Delaware River Basin Commission
Harrisburg, City of, Department of Public Works
Letort Regional Authority
Millcreek, Township of, Board of Supervisors
New York State Department of Environmental Conservation

Pennsylvania--Continued
Pennsylvania Department of --
 Environmental Resources --
 Mining and Reclamation Bureau
 Oil and Gas Management Bureau
 Soil Wastes and Management Bureau
 State Parks Bureau
 Topographic and Geologic Survey Bureau
 Water Quality Management Bureau
 Water Resources Management Bureau
 Philadelphia, City of, Water Department
 Susquehanna River Basin Commission
 Washington County --
 Conservation District
 Supervisors

Puerto Rico:
Puerto Rico Aqueduct and Sewer Authority
 Puerto Rico Department of --
 Agriculture
 Health
 Natural Resources
 Transportation and Public Works
 Puerto Rico Electric Power Authority
 Puerto Rico Environmental Quality Board
 Puerto Rico Industrial Development Company
 Puerto Rico Land Administrator
 Puerto Rico Land Authority
 Puerto Rico Mineral Resources Development Corporation
 Puerto Rico Planning Board
 Puerto Rico Rice Corporation
 Puerto Rico Sugar Corporation
 Puerto Rico Vegetable Corporation
 (See also Virgin Islands)

Rhode Island:
Narragansett Bay Water Quality Commission
 Rhode Island State Department of Environmental Management,
 Division of Water Resources
 State Water Resources Board

South Carolina:
Charleston, Commission of Public Works
 Grand Strand Water and Sewer Authority
 Hilton Head Island, Public Service District No. 1
 Myrtle Beach, City of
 North Myrtle Beach, City of
 South Carolina State --
 Department of Highways and Public Transportation
 Geological Survey
 Health and Environmental Control
 Public Service Authority
 Water Resources Commission
 Spartanburg Water Works

South Dakota:
Black Hills Conservancy Subdistrict
East Dakota Conservancy Subdistrict
Lower James Conservancy Subdistrict
 Rapid City, City of
 South Dakota Department of --
 Water and Natural Resources --
 Geological Survey Division
 Water Rights Division
 Watertown, City of

Tennessee:
Gallatin, City of
Lawrenceburg, City of
 Memphis, City of, Light, Gas, and Water Division
 Metropolitan Govt. of Nashville & Davidson County, Dept. of Public Works
 Plateau Public Utility District
 Shelby, County of
 Tennessee Department of --
 Conservation, Geology Division
 Health and Environment, Division of Water Management
 Transportation, Bureau of Highways
 Tennessee Division of Surface Mines
 Tennessee Wildlife Resources Agency
 University of Tennessee

Texas:
Abilene, City of
Alice, City of
Arlington, City of
 Athens Municipal Water Authority
 Austin, City of
 Bexar-Medina-Atascosa Counties, Water Improvement District No. 1
 Bistone Municipal Water Supply District
 Brazos River Authority
 Cleburne, City of
 Clyde, City of
 Coastal Bend Council of Governments
 Coastal Industrial Water Authority
 Colorado River Municipal Water District
 Corpus Christi, City of
 Dallas, City of, Public Service Board
 Dallas, County of, Public Works Department
 Dallas-Ft. Worth Airport
 Edwards Underground Water District
 El Paso, City of, Public Service Board
 Franklin, County of, Water District
 Gainesville, City of
 Galveston, County of
 Garland, City of
 Graham, City of
 Greenbelt Municipal and Industrial Water Authority
 Guadalupe-Blanco River Authority
 Harris, County of, Flood Control District
 Harris-Galveston Coastal Subsidence District
 Houston, City of

Texas--Continued

Lavaca-Navidad River Authority
Lower Colorado River Authority
Lower Neches Valley Authority
Lubbock, City of
Mackenzie Municipal Water Authority
Nacogdoches, City of
North Central Texas Municipal Water Authority
Northeast Texas Municipal Water District
Orange, County of
Pecos River Commission
Red Bluff Water Power Control District
Reeves, County of, Water Improvement District No. 1
Sabine River Authority of Texas
Sabine River Compact Administration
San Angelo, City of
San Antonio, City of --
 Engineering Department
 Public Service Board
 Water Board
San Antonio River Authority
San Jacinto River Authority
Tarrant, County of, Water Control and Improvement District No. 1
Texas Department of --
 Parks and Wildlife
 Water Resources
Titus, County of, Fresh Water Supply District No. 1
Trinity River Authority
Upper Guadalupe River Authority
Upper Neches River Municipal Water Authority
Upper Trinity Basin Water Quality Compact
West Central Texas Municipal Water District
Wichita, County of, Water Improvement District No. 2
Wichita Falls, City of
Wood, County of

Trust Territory of the Pacific Islands: (See Hawaii)

Utah:

Bear River Commission
Salt Lake, County of --
 Board of County Commissioners
 Division of Flood Control and Water Quality
Utah Department of --
 Natural Resources --
 Oil, Gas, and Mining Division
 Water Resources Division
 Water Rights Division
 Wildlife Resources Division
 Transportation

Vermont:

Vermont Department of --
 Water Resources and Environmental Engineering

Virginia:

Alexandria, City of, Department of Transportation and Environmental Services
James City, County of --
 Department of Public Works
 Service Authority
Newport News, City of, Department of Public Utilities
Roanoke, City of, Utilities and Operations
Southeastern Public Service Authority of Virginia
University of Virginia, Department of Environmental Sciences
Virginia Department of Highways and Transportation
Virginia Polytechnic and State University
Virginia State Water Control Board
Williamsburg, City of
York, County of

Virgin Islands:

Department of Public Works
Planning Office
Virgin Islands, College of

Washington:

Bellevue, City of, Public Works Department
Centralia, City of, Light Department
Chelan, County of, Public Utility District No. 1
Firecrest, Town of
Hoh Indian Tribe
Island, County of, Board of County Commissioners
King, County of, Department of Public Works
Lewis, County of, Board of Commissioners
Makah Tribal Council
Municipality of Metropolitan Seattle
Pend Oreille, County of, Public Utility District No. 1
Puyallup Indian Nation
Quinalt Indian Business Committee
San Juan, County of, Board of County Commissioners
Seattle, City of --
 Department of Lighting
 Water Department
Skagit, County of
Snohomish, County of
Stillaguamish Indian Tribe
Tacoma, City of --
 Public Utilities Department
 Public Works Department
Tulalip Tribal Board of Directors
Yakima Tribal Council
Washington Department of --
 Ecology
 Emergency Services
 Fisheries
 Transportation
Whatcom, County of

West Virginia:
 Marshall County Commission
 Morgantown, City of, Water Commission
 West Virginia Department of --
 Highways
 Natural Resources --
 Division of Reclamation
 Division of Water Resources
 West Virginia Geological and Economic Survey

Wisconsin:
 Bad River Tribal Council
 Beaver Dam, City of
 Dane, County of --
 Department of Public Works
 Regional Planning Commission
 Delavan Lake Sanitary District
 Fond du Lac, City of
 Forest County Potawatomi Community
 Fowler Lake Management District, City of Oconomowoc
 Green Bay Metropolitan Sewerage District
 Green Lake Sanitary District
 Hills Lake District Association
 Lac du Flambeau Indian Reservation
 Lac La Belle Management District
 Madison Metropolitan Sewerage District
 Madison Water Utility
 Menominee Indian Tribe of Wisconsin
 Middleton, City of
 Morris Lake Management District
 Okauchee Lake Management District
 Southeastern Wisconsin Regional Planning Commission
 University of Wisconsin -- Extension, Geological and
 Natural History Survey
 University of Wisconsin -- Milwaukee
 Wisconsin Department of --
 Natural Resources
 Transportation --
 Bridge Section
 Division of Highways
 Wolf Lake Management District

Wyoming:
 Buffalo, City of
 Uinta, County of
 Water Development Commission
 Wyoming Board of Charities and Reform
 Wyoming Department of --
 Agriculture
 Economic Planning and Development
 Environmental Quality
 Highways
 Wyoming State Engineer