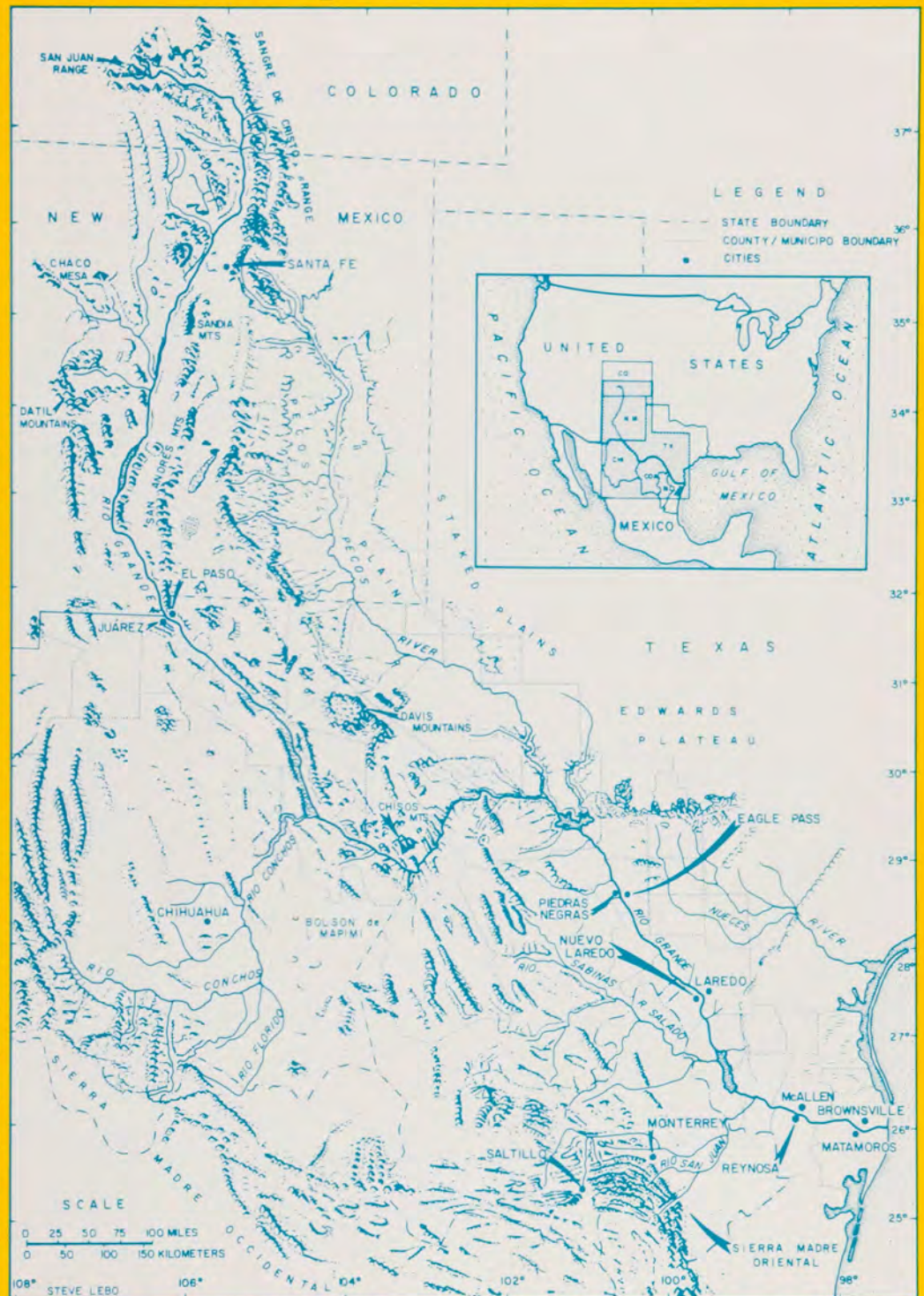


Water Management



Water Management Institutions along the Texas/Mexico Border

**Lyndon B. Johnson School of Public Affairs
Policy Research Project Report
Number 56**

WATER MANAGEMENT INSTITUTIONS ALONG THE TEXAS/MEXICO BORDER

**A report by
The Texas/Mexico Border Water Policy Research Project
Lyndon B. Johnson School of Public Affairs
The University of Texas at Austin
1983**

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*Cover design by Nancy Sugg Bracher
Cartography by Steve Leho*

Front Cover:

The illustration is a map of the political jurisdictions in the Texas/Mexico border area, including both Mexican municipios and Texas counties.

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1. The first part of the document is a list of the names of the persons who have been appointed to the various offices of the city of New York.

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FOREWORD

The Lyndon B. Johnson School of Public Affairs has established interdisciplinary research on policy problems as the core of its educational program. A major part of this program is the nine-month policy research project, in the course of which two or three faculty members from different disciplines direct the research of ten to twenty graduate students from diverse backgrounds on a policy issue of concern to an agency of government. This "client orientation" brings the students face to face with administrators, legislators, and other officials active in the policy process, and demonstrates that research in a policy environment demands special talents. It also illuminates the occasional difficulties of relating research findings to the world of political realities.

This report on water management institutions in the Rio Grande/Rio Bravo basin was produced by a policy research project in the academic year 1982-1983. The study was supported by grants from the Middle Rio Grande Development Council and the Lyndon B. Johnson Foundation. This volume provides a directory of government institutions involved in the management of water resources in the Rio Grande/Rio Bravo basin in both Texas and Mexico. Each entry includes details on legislative authority, budgetary capacity, board membership, and geographical area of interest. One purpose of the directory is to provide the reader with a brief overview of the institutions operating in the basin. It also lists the names and addresses of persons within these institutions who can be contacted for additional information concerning their organizations' operations.

It is the intention of the LBJ School to develop men and women with the capacity to perform effectively in the public service and to produce research which will enlighten and inform those already engaged in the policy process. The project which resulted in this volume has helped to accomplish the former; it is our hope and expectation that the report itself will contribute to the latter.

Elspeth Rostow
Dean

ACKNOWLEDGEMENTS

The policy research project members appreciate the grant of funds from the Middle Rio Grande Development Council and the guidance provided by their staff. This publication was made possible in part by the financial contribution of the Lyndon B. Johnson Foundation. We are grateful to all who responded to our requests for information through both personal contact and a questionnaire mailing. In addition, we wish to thank the following individuals who gave freely of their time, information, ideas, and moral support: Larry Kavanaugh, Texas Department of Water Resources; Glen Jansma, Glen Jansma Consulting; Ben Turner, Camp, Dresser & McKee, Inc.; and Corwin Johnson, University of Texas Law School.

INTRODUCTION

This directory of institutions organizes agencies by nation and by the various levels of government. These institutions include international organizations, agencies of the United States or Mexican federal governments, U.S. or Mexican state governments, and local water districts in Texas. Entries include details on legislative authority, budgetary capacity, board membership, and geographical area of interest. Each of the individual institutions provided information through personal contacts or in response to a questionnaire mailing.

The presence of numerous governmental units, each operating under a different set of laws, complicates the management of water resources in the Rio Grande/Rio Bravo basin. This introduction provides a brief overview of the sets of laws which govern water resource management in the borderlands between Mexico and Texas.

INTERNATIONAL

The Treaty of February 3, 1944 (Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande) established the International Boundary and Water Commission (IBWC) as a permanent forum for resolving border issues between the United States and Mexico. This Commission is empowered by the treaty and laws of the two nations to:

- Distribute the waters of the Rio Grande/Rio Bravo and the Colorado River between the two countries;
- Operate international storage dams on the Rio Grande/Rio Bravo for controlling floods and conserving water for binational development;
- Operate flood control works along the boundary rivers;
- Work for the solution of border water quality problems;
- Assist in solving problems relating to changes in the river boundaries (1).

UNITED STATES-FEDERAL

Surface water standards in the United States are based on the Federal Water Pollution Control Act of 1972 (P.L. 92-500) and its amendments. Two goals were set out in the Act: zero discharge of pollutants and "fishable-swimmable" national waters. The law mandated the following:

- Establishment by the U.S. Environmental Protection Agency (EPA) of effluent limits for municipal and industrial dischargers;

- Issuance of discharge permits under the National Pollution Discharge Elimination System (NPDES) (states can gain control over NPDES if their programs are approved by the EPA);
- State water quality management planning programs under Section 208 for the control of both nonpoint and point source pollution.

P.L. 92-500 required the EPA to develop criteria relating water quality to various beneficial uses including (a) the protection and propagation of fish and wildlife, (b) recreation in and on waters, and (c) water supply for domestic, industrial, and agricultural uses (2).

Although drinking water standards have been in effect since 1914, recently the federal government has expanded supervision of public water supplies through the provisions of the Safe Drinking Water Act of 1974 (P.L. 93-523). The Act expanded the authority of the EPA over residential community water systems and called for the issuance of updated Interim Primary Drinking Water Regulations. Groundwater contaminants are affected by regulation only if the groundwaters are used as a drinking water supply.

Both P.L. 92-500 and P.L. 93-523 assigned to the states the primary responsibility for setting, administering, and enforcing water quality standards. All state actions, however, are subject to EPA approval (3).

MEXICO

In contrast to the United States, water resource management in Mexico is highly centralized. Article 27 of the Mexican Constitution states that water is the property of the nation and that the state has sole authority to regulate its use, exploitation, and distribution. The **Secretaria de Agricultura y Recursos Hidraulicos** (SARH; Secretary of Agricultural and Water Resources) is the federal agency with primary authority over water resources. The SARH develops and administers surface water quality standards and also constructs irrigation, drainage, flood control projects, and water transmission systems. The SARH also allocates surface, ground, and sewage waters.

The basis for surface water quality standards in Mexico is the **Ley Federal para Prevenir y Controlar la Contaminacion Ambiental** (Federal Law for the Prevention and Control of Environmental Contamination) passed March 23, 1971. The goals of the legislation were to prevent:

- Contamination of receiving waters;
- Interference with self-purification processes in surface waters;
- Modification, interference, or alteration in water usage.

The Act required SARH to cooperate with the **Secretaria de Salubridad y Asistencia** (SSA; Secretary of Public Health), which has primacy for enforcing drinking water standards (4). In 1973, SARH issued the **Reglamento para la Prevencion y Control de la Contaminacion de Aguas** (Regu-

lations for the Prevention and Control of the Contamination of Waters), which set standards both for general surface water quality and for industrial and municipal discharges into receiving waters.

In Mexico, **ejidos** and **municipios** influence water management. **Ejidos** are communal townships which can claim irrigation water. Authority to distribute irrigation water is delegated to **comisarias**, the executive arm of the **juntas ejidales** which actually govern the **ejidos**. In **municipios**, **Juntas de Aguas y Sanamiento** are the organizations in charge of municipal water districts. Municipal governments are required to comply with federal water quality standards.

Both the SARH and SSA are responsible for water quality standards enforcement and both can impose fines on regular violators. The SSA can intervene if a contaminated water supply source causes continual health problems (5). Regulations also call for some participation by state authorities, and Mexican states may adopt more stringent standards. In practice, only the SARH is active in the Texas/Mexico border region, through regional offices in Ciudad Acuna, Coahuila, and Rio Bravo, Tamaulipas. Project members were unable to obtain information regarding the degree of activity by either local governments or the SSA with respect to compliance monitoring.

THE STATE OF TEXAS

The Texas Department of Water Resources (TDWR) is responsible for the management of water resources at the state level. The TDWR was created in 1977 through the merger of the Texas Water Development Board (TWDB), the Texas Water Rights Commission (TWRC), and the Texas Water Quality Board. The six-member Water Development Board is a component of TDWR and performs a policymaking function for the Department. The goals of the TWDB include (a) protecting the public interest in Texas' water resources by maintaining and improving the quality of water, (b) assuring equitable water distribution and planning, and (c) assisting in planning for the further development of water resources in the state. The TWRC was retained in the new organizational structure to (a) promote maximum conservation and protection of water quality, (b) oversee Texas' water permit program, (c) create and supervise water districts, and (d) supervise the issuance of bonds by these districts.

The TDWR is responsible for the regulation of water quality in Texas. The Water Quality Act of 1967 divided Texas' waters into zones. It authorized the TDWR to determine the uses of water which are practical in each zone and the degree of alteration that could occur before any protected use would be impaired. The TDWR has established specific water parameter values for each stream. These values allow the TDWR to determine the level of waste each stream can withstand and the amount each individual using the stream can discharge without causing the stream to exceed its standard. The procedure for controlling emissions is a discharge permit system. Although the development, administration, and enforcement of water quality standards must comply with federal laws and regulations, the principal responsibility for enforcing water quality standards is shared by the TDWR and the Attorney General of Texas.

To use surface water in Texas, it is necessary to obtain a permit, an appropriation right to surface water. The TWRC is responsible for the administration of the Texas water rights permit system. The TWRC is required to act upon all applications for permits to appropriate water or to construct storage and transmission works. Texas law provides for hearings on applications, and the Commission may enforce its rules by injunction or other appropriate remedy. Judicial review of Commission acts may be had by aggrieved parties. The TWRC is also responsible for evaluating outstanding permits and certified filings and can, if necessary, cancel unused permits.

The Texas Department of Health (TDH) has responsibility in the area of drinking water quality. The Department is charged by statute to protect and promote the health and welfare of the people of Texas. The Water Hygiene Division of the Department reviews and approves plans for new drinking water systems, maintains a drinking water quality information system with bacteriological records, and provides technical information to municipal officials and water system operators.

DETERMINATION OF WATER RIGHTS IN TEXAS

In the water rights appropriation process, the TWRC gives preference to proposed water uses in the following sequential order: domestic and municipal; industrial; irrigation; mining; hydroelectric power; navigation; recreation; and "other beneficial uses" (6). The Texas Water Code lists several criteria for the granting of a water use permit (7). An application will be granted only if:

- Unappropriated water is available;
- The water will be put to beneficial use;
- The use will not impair existing water rights or vested riparian rights;
- The use is not detrimental to the public welfare.

In practice the TWRC has wide discretion to prefer one applicant over another with one exception--municipalities. According to the Wagstaff Act of 1931, municipalities are granted what is known as a "true preference" (8). The Wagstaff Act states that any appropriation made after May 17, 1931 (the effective date of the Act) for any purpose other than municipal consumption is "subject to the right of any city or town to make further appropriation of the water for domestic or municipal use without paying for the water." The Act expressly exempts the Rio Grande because of the international implications of such a decision (9).

The Water Rights Adjudication Act of 1967 sets forth procedures to resolve disputes over water rights. Adjudication may be instituted by a motion of the TWRC, on the petition of ten or more claimants from a source of supply, or petition of the Texas Water Development Board. After an administrative investigation is made, notice of the proposed adjudication is given to all water users. The claimants are required to file sworn

statements and a hearing is held by the Commission. Contests may be filed following the preliminary determination of the claims. A final determination is then made and filed in the district court of the county in which the stream is located.

After the final determination of water rights, exceptions may be filed in opposition to the determination. The court, in considering the exceptions, is required to determine issues of law and fact independently of the Commission's determination. Questions of fact can be reviewed only if they have been first raised in the record before the TWRC.

The procedure outlined above was prompted by a number of cases instituted by the State of Texas to adjudicate water rights in the Lower Rio Grande/Rio Bravo basin in the early 1950s. These cases involved several thousand defendants whose claims were based upon certified filings, riparian rights, appropriation permits, and customary water rights. In deciding these cases, the courts adopted a complicated system of priorities which are called "weighted priorities" rather than adopting the usual principle that priority in time gives priority in right among appropriators. These cases, which indicated the need for a general determination of water rights, precipitated enactment of the 1967 adjudication statute.

To the extent that riparian rights still exist in Texas (rights to water which come with ownership of a tract of land that is along a river bank), they reflect land ownership and pass with the riparian land when it is sold. The riparian owner may reserve a riparian right only if the owner has other riparian land on which the water rights may be exercised.

Appropriation rights in Texas are measured by the standard of beneficial use. According to the Texas Water Code, beneficial use is defined as the amount of water "economically necessary" for an authorized purpose "when reasonable intelligence and reasonable diligence are used in applying the water to that purpose" (10). Beneficial use is the limit of all appropriation rights and "water not so used is considered not appropriated" (11). No water right is considered perfected until water has been beneficially used for the stated purpose (12).

The TWRC can also cancel permits to improve utilization of Texas' water resources. A permit may be revoked if waters are not used for ten consecutive years. Water rights do not automatically terminate after ten years of nonuse, but such nonuse creates a presumption of abandonment. Cancellation procedures require notice and hearing to the permittees whose rights are challenged. Riparian rights may not be lost by abandonment, but they may be lost by prescription, estoppel, and under certain circumstances by the use of the water on nonriparian land (13).

Ground water, small ponds or water holes, and spring water are not subject to the appropriation process. These waters are deemed to be private rather than public waters and are owned by the landowner. With respect to ground water, the rule of capture applies and the landowner may take all the ground water he can use for a beneficial purpose. The landowner may use the water on or off the land from which it was withdrawn, and he may sell it to others, even to persons outside the basin where the water is produced.

TEXAS-LOCAL INSTITUTIONS

The Texas Constitution authorizes the creation of water districts as special units of local government to provide water-related services within recognized geographic boundaries. These districts have limited powers and are autonomous governmental entities, independent of cities and counties (14).

Water districts may be created under general or special laws. At present Texas statutes permit the formation of eight types of general law districts. The procedure for the creation of locally initiated districts commences with a petition for establishment of a district signed by a designated percentage of taxpaying residents. A hearing then follows (held by the Texas Water Rights Commission or a county commissioner's court) to determine the merits of the petitioner's request. If the petition is approved, an election is held. If a majority of the voters approve of the district, then a governing group of directors are selected either by election or appointment (15).

The Texas Legislature may also create a water district through the passage of special law. Such a law can establish the name, powers, governing board, and jurisdictional authority of the district. The law may provide for a vote to confirm the legislative act (16).

Water districts are institutions that control, store, preserve, and distribute waters from storms, floods, rivers, and streams for purposes such as navigation, power, drainage, and domestic consumption. Water districts possess only those powers necessary to accomplish their purposes. Among the powers that a district may possess are the rights to:

- Take land for the public good (eminent domain);
- Levy taxes and special assessments;
- Issue bonds subject to limitations provided in the enabling statutes.

INTERNATIONAL INSTITUTIONS

COMISION INTERNACIONAL DE LIMITES Y AGUAS

ENTRE MEXICO Y LOS ESTADOS UNIDOS, SECCION MEXICANA

Address and Phone

Avenida Universidad 2180
Ciudad Juarez, Chihuahua
3-7311 3-7363

Administrative Officers and Titles

Joaquin Bustamante Redondo	Mexican Commissioner
Lorenzo Padilla Sanchez	Secretary
Luis Guzman del Castillo	Principal Engineer

Selections and Term

The Mexican Commissioner is appointed by the President of Mexico and serves at his pleasure.

Special Qualifications

The 1944 Water Treaty between Mexico and United States provides that:

"The Commission shall in all respects have the status of an International Body, and shall consist of a Mexican Section and a United States Section. The Head of each Section shall be an Engineer Commissioner."

Both governments have recognized the need for special engineering and diplomatic qualifications for the post and for continuity of service of highly qualified engineers.

Jurisdiction (Geographic)

The jurisdiction of the Commission extends along the Rio Colorado and the Rio Bravo, along the land boundary between Mexico and the United States, and to works located on their common boundary. Each Section retains jurisdiction over that part of the works located within the limits of its country.

Organization and Operations

Organized: March 1, 1889, in accordance with Convention of March 1, 1889

Number of Employees

105

Budget Appropriation Levels

1980	16,484,800	Mexican Pesos
1981	17,163,000	Mexican Pesos
1982	18,500,000	Mexican Pesos
1983	25,000,000	Mexican Pesos

Statutory Authority

Treaty of February 3, 1944: Utilization of Waters of the Rio Bravo, Rio Colorado, and Tijuana, and other Treaties and Conventions between Mexico and the United States regarding boundary and water problems between the two countries

Responsibilities and Programs

This joint Commission is entrusted by treaties and by laws of Mexico and the United States with a long-range and specific program for solution of water and boundary problems along the 3,218 kilometer boundary between the United States and the bordering states of Baja California, Sonora, Chihuahua, Coahuila, Nuevo Leon, and Tamaulipas. The Commission is responsible for determining the property of the waters of the Rio Bravo and Rio Colorado, for the joint operation of international dams on both rivers to control floods and to conserve water development on both sides, for joint flood control works along the boundary rivers, for the solution of border water quality problems, and for the solution of problems related to changes in the river and land boundaries of the two countries.

INTERNATIONAL BOUNDARY AND WATER COMMISSION

UNITED STATES SECTION

Address and Phone

4110 Rio Bravo
El Paso, Texas 79902
(915) 541-7300

Administrative Officers and Titles

J.F. Friedkin	U.S. Commissioner
Y.R. Ybarra	Secretary
D.D. McNealy	Principal Engineer, Operations
G.R. Baumli	Principal Engineer, Planning and Investigations
F.P. Fullerton	Legal Adviser
R. Martinez	Administrative Officer
D. Beam	Personnel Officer

Selection and Term

The U.S. Commissioner is appointed by the U.S. President and serves at his pleasure.

Special Qualifications

The 1944 Water Treaty between the United States and Mexico provides that:

"The Commission shall in all respects have the status of an international body, and shall consist of a United States Section and a Mexican Section. The head of each Section shall be an Engineer Commissioner."

Both governments have recognized the need for special engineering and diplomatic qualifications for the post and for continuity of service of highly qualified engineers. The late L.M. Lawson served as U.S. Commissioner for 27 years, from 1927 to 1954. The incumbent U.S. Commissioner is Joseph Friedkin. Friedkin was appointed by President John F. Kennedy in 1962 on the basis of his having been a career engineer with the Commission for more than 20 years.

Jurisdiction (Geographic)

The jurisdiction of the IBWC extends to the limitrophe parts of the Rio Grande and the Colorado River, to the land boundary between the two countries, and to works located on their common boundary. Each Section

retains jurisdiction over that part of engineering works located within the limits of its own country.

Organization and Operations

Number of Employees

293 as of November 31, 1982

Budget Appropriation Levels

1980	\$16,124,000
1981	\$14,004,000
1982	\$9,113,000
1983	\$8,754,000

Statutory Authority

General Statutes (several others exist for specific programs)
Treaty of February 3, 1944: Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande (TS 994; 59 Stat 1219)

Responsibilities and Programs

The IBWC is entrusted by treaties and laws of the respective countries with a long-range program for solution of water and boundary problems along the nearly 2,000 mile boundary with Mexico, bordering the states of Arizona, California, New Mexico, and Texas. The IBWC is responsible for the:

- Distribution of the waters of the Rio Grande and Colorado Rivers between the two countries;
- Joint operation of international storage dams on the Rio Grande to control floods and conserve waters on both sides;
- Joint flood control works along the boundary rivers;
- Solution of border water quality problems;
- Solution of problems relating to changes in the river boundaries.

PAN AMERICAN HEALTH ORGANIZATION

UNITED STATES - MEXICO BORDER

Address

Field Office
509 U.S. Court House
El Paso, Texas 79901
Contact: Mario Budinich

FEDERAL INSTITUTIONS

U.S. ENVIRONMENTAL PROTECTION AGENCY (REGION VI)

Address and Phone

1201 Elm Street
Dallas, Texas 75270
(214) 767-2670

Administrative Officers and Titles

Dick Whittington	Regional Administrator
Bruce Elliot	Chief, Water Quality Management

Board Composition

Not Applicable

Jurisdiction (Geographic)

Texas, Oklahoma, Arkansas, New Mexico, and Louisiana

Organization and Operations

Number of Employees

Not Available

Budget Appropriation Levels

Not Available

Statutory Authority

Clean Water Act, Safe Drinking Water Act, and Resource Conservation and Recovery Act

Responsibilities and Programs

The EPA responsibilities are:

- Water quality planning and management;
- Setting water quality standards;

- Testing for water supply contamination;
- Granting permits for wastewater discharge;
- Dredging and filling in waterways;
- Granting permits for construction of wastewater facilities.

U.S. ARMY CORPS OF ENGINEERS (SOUTHWESTERN DIVISION)

Address and Phone

114 Commerce Street
Dallas, Texas 75242
(214) 767-2502

Administrative Officers and Titles

Not Applicable

Board Composition

Not Applicable

Jurisdiction (Geographic)

Southwestern United States

Organization and Operations

Number of Employees

Southwestern District - Total employees - 4,100
Civilian works employees - 3,000

Budget Appropriation Levels

1980	\$285 million
1981	\$360 million
1982	\$370 million

Statutory Authority

Annual Civil Works Appropriation - FY 1982, P.L. 97-88, December 4, 1981, 95 Stat 1135.

Responsibilities and Programs

The Corps of Engineers has both military and civil works responsibilities. The Corps' principal military mission is combat support. It also manages

military construction for the Army, Air Force, other government agencies, and on occasion for foreign governments.

Work done in the Rio Grande Basin has been under the civil works program. The Corps' civil works mission includes management and development of the nation's water resources, as directed by Congress and the Administration. Civil works responsibilities are assigned to the Secretary of Army and/or the Chief Engineers through legislative action. The civil works program is funded under the public works appropriation and is not a part of the Defense Department budget.

BUREAU OF RECLAMATION, U.S. DEPARTMENT OF THE INTERIOR

Address and Phone

Office of Texas Representative

P.O. Box 1946
Austin, Texas 78767
(512) 482-5641

Southwest Regional Office

714 South Tyler, Suite 201
Amarillo, Texas 79101
(806) 378-5445

Administrative Officers and Titles

Eugene Hinds	Southwest Regional Director
Emmett Gloyna	Texas Representative

Jurisdiction (Geographic)

The states of Oklahoma, Texas, most of New Mexico, and small portions of Kansas and Colorado

Organization and Operations

Number of Employees

519 (Southwest Region)

Budget Appropriation Levels

1981	\$47,276,000
1982	\$43,504,000
1983	\$15,389,000

Statutory Authority

Federal Reclamation Law (Act of June 17, 1902, 32 Stat. 388, and Acts amendatory thereof or supplementary thereto)

Responsibilities and Programs

The Bureau of Reclamation is empowered to develop, manage, and conserve the water and related resources of the western United States. Bureau projects in the Rio Grande/Rio Bravo region include:

- The Lower Rio Grande Rehabilitation Project consisting of rehabilitating two private irrigation developments, the Mercedes Division and the La Feria Division.
- The Rio Grande Project, composed of the Elephant and Caballo storage dams, four diversion dams, 141 miles of canals, 462 miles of drains, and one hydroelectric powerplant. The Rio Grande Project provides irrigable water to more than 196,000 acres in the United States and Mexico.

About 40 percent of these, or approximately 79,000 acres, are in El Paso County, Texas. In addition, the Rio Grande Project also supplies approximately 60,000 acre/feet of water to Mexico annually. Hydroelectric energy generated at Elephant Butte Powerplant is distributed to municipal utilities and rural cooperatives in the project area. In 1979, 69 million kilowatt-hours of energy worth \$1.1 million was generated.

SOIL CONSERVATION SERVICE, U.S. DEPARTMENT OF AGRICULTURE (TEXAS)

Address and Phone

P.O. Box 648
Temple, Texas 76503
(817) 774-1214

Administrative Officers and Titles

Billy C. Griffin	State Conservationist
Charles W. Conklin	State Administrative Officer
Jimmy W. Hill	Assistant State Conservationist

Board Composition

Joe Antilley	Chairman	Abilene
J. Frank Gray	Vice Chairman	Lubbock
C.F. Schendel	Member	Goliad
Albert Roach	Member	Paris
Hermon L. Petty	Member	Mineral Wells

Selection and Term

Texas State Soil and Water Conservation members are elected by Soil and Water Conservation district directors in a convention-type election to five-year terms. There is no limit to the number of terms a member may serve.

Special Qualifications

Must own agricultural land

Jurisdiction (Geographic)

State of Texas

Organization and Operations

Number of Employees

1,150

Budget Appropriation Levels

1980	\$54,545,000
1981	\$55,664,000
1982	\$61,795,000
1983	\$50,465,000
1984	\$60,000,000 (Requested)
1985	\$60,000,000 (Requested)

Statutory Authority

49 Stat. 164, c. 85, sec. 5, April 27, 1935

Responsibilities and Programs

- Provides technical assistance to land owners and farm operators on conservation problems;
- Plans and carries out a national soil and water conservation program through conservation districts;

- Helps plan and carry out watershed protection and flood prevention projects in 11 major watersheds in cooperation with other agencies;
- Helps plan and carry out watershed protection and flood prevention projects and river basin investigations in cooperation with other agencies;
- Helps local sponsors plan and carry out multicounty resource conservation and development programs;
- Appraises the soil, water, and related resources of the nation and develops a soil and water conservation program based on the appraisal;
- Provides assistance to owners and operators of rural land to install and maintain best management practices to control nonpoint source pollution, to improve water quality;
- Makes and coordinates snow surveys for water supply forecasting in the Western states;
- Appraises potential for outdoor recreation developments;
- Establishes income-producing recreation areas on privately owned land and in public water-based recreation and fish and wildlife areas;
- Provides technical assistance in land use planning to communities and units of government and helps them obtain technical data on land, water, and related resources.

FISH AND WILDLIFE SERVICE, U.S. DEPARTMENT OF THE INTERIOR

Address and Phone

P.O. Box 1306
 Albuquerque, New Mexico 87103
 (505) 766-2321

Administrative Officers and Titles

Michael J. Spear	Regional Director
Jerry L. Stegman	Deputy Regional Director
Conrad A. Fjetland	Asst. Regional Director, Federal Assistance and Fishery Resources
W. Ellis Klett	Asst. Regional Director Wildlife Resources
James A. Young	Asst. Regional Director Environment

Jurisdiction (Geographic)

Regional jurisdiction over Arizona, New Mexico, Oklahoma, and Texas

Organization and Operations

Number of Employees

Not Available

Budget Appropriation Levels

1980	\$55,419,000
1981	\$44,438,000
1982	\$44,167,000
1983	\$40,485,000
1984	\$45,000,000 (Requested)

Statutory Authority

Reorganization Plan III, June 30, 1940 (54 Stat. 1232) consolidated the Bureau of Biological Survey and the Bureau of Fisheries into a Fish and Wildlife Service in the Department of Interior under a Commissioner of Fish and Wildlife.

Responsibilities and Programs

The mission of the Fish and Wildlife Service is to "provide the federal leadership to conserve, protect, and enhance fish and wildlife and their habitats for the continuing benefit of the people." Each of the Service's programs has a specific goal statement to support the overall mission:

- To prevent the endangerment and extinction of plant and animal species caused by man's influence on existing ecosystems, and to return such species to the point where they are no longer threatened or endangered;
- To conserve and manage migratory birds in a way that provides optimum opportunity for their use and enjoyment by people;
- To promote the wise use of the nation's fresh water and anadromous fish populations for the benefit of the people;
- To assure natural diversity and optimum population levels of wildlife for the benefit of people;
- To assist in reducing wildlife-caused damages in a manner which takes into consideration impacts on the environment;
- To conserve, protect, and enhance fish and wildlife and their habitats and to facilitate balanced development of this nation's natural

resources by timely and effective provision of fish and wildlife information and recommendations;

- To inform the public of environmental issues affecting fish and wildlife resources and provide compatible recreation on Service lands;
- To strengthen the ability of state and territorial fish and wildlife agencies to meet the consumptive and nonconsumptive needs of the public for fish and wildlife resources;
- To enhance research, resource management, technical expertise, and training capabilities of the Service, states, and other conservation agencies by maintaining a cooperative research and training program related to fish and wildlife resource management;
- To develop and maintain an administrative program which assures that the Service's business will be conducted efficiently, effectively, and in compliance with all objectives established implicitly or explicitly through the legislative process or through the promulgation of regulations, directives, or other policy vehicles by government.

U.S. GEOLOGICAL SURVEY - WATER RESOURCES DIVISION

Address and Phone

649 Federal Building, 300 East 8th Street
Austin, Texas 78701
(512) 482-5766

Administrative Officers and Titles

Charles W. Boning	District Chief
Larry F. Land	Chief of Hydrologic Systems Investigations and Research Division
Richard U. Grozier	Chief of Hydrologic Surveillance Research and Analysis Section
Elizabeth S. Deavers	Administrative Officer

Jurisdiction (Geographic)

State of Texas

Organization and Operations

Number of Employees

180

Budget Appropriation Levels

1980	\$5,818,900
1981	\$5,938,085
1982	\$5,866,937
1983	\$6,100,000 (estimate)
1984	\$6,200,000 (estimate)
1985	\$6,500,000 (estimate)

The budget appropriation figures represent total operating funds. In addition to government appropriations, a significant portion of the budget comes from reimbursements from other federal agencies and state-local cooperators.

Statutory Authority

Established by Act of Congress in 1879

Responsibilities and Programs

The Water Resources Division provides the hydrological information needed for the optimum utilization and management of the nation's water resources for the overall benefit of the people of the United States. This is accomplished in large part by cooperation with other federal and non-federal agencies through:

- Collecting, on a systematic basis, data needed for the continuing determination and evaluation of the quantity, quality, and use of water resources;
- Conducting analytical and interpretive water resource appraisals describing the occurrence, availability, and physical, chemical, and biological characteristics of surface and ground water;
- Conducting supportive basic and problem-oriented research in hydraulics, hydrology, and related fields of science to improve the scientific basis for investigation and measurement techniques;
- Disseminating the water data and the results of these investigations and research through reports, maps, computerized information services, and other forms of public release;
- Coordinating the activities of federal agencies in the acquisition of and access to water data for streams, lakes, reservoirs, estuaries, and ground waters;
- Providing scientific and technical assistance to other federal, state, and local agencies, to licensees of the Federal Energy Regulatory Commission, and to international agencies on behalf of the Department of State.

INTERSTATE INSTITUTIONS

RIO GRANDE COMPACT COMMISSION

Address and Phone

Box 771
El Paso, Texas 79945
(915) 533-2161

Administrative Officers and Titles

Texas Commissioner Jesse B. Gilmer

Special Qualifications

Appointed by the Governor of Texas with concurrence of the Senate; serves a six-year term

Jurisdiction (Geographic)

The upper Rio Grande Basin, which extends from its headwaters in Southern Colorado, down through Central New Mexico, and into West Texas as far as Fort Quitman

Organizations and Operations

Number of Employees

2

Budget Appropriation Levels

1981	\$83,258
1982	\$91,569
1983	\$97,733

Statutory Authority

Article 7466-E1 (Rio Grande Compact) Revised Civil Statutes of Texas

Responsibilities and Programs

The purpose of the Rio Grande Compact is to divide the waters of Rio Grande among three states. The Commission is charged with the duty of carrying out the Compact's provisions.

STATE OF TEXAS INSTITUTIONS

GENERAL LAND OFFICE, STATE OF TEXAS

Address and Phone

1700 North Congress Avenue
Austin, Texas 78701

Administrative Officers and Titles

Garry Mauro	Commissioner
Jack Giberson	Chief Clerk

Board Composition

School Land Board

Garry Mauro	Chairman
Fred Wulff	Member
Lola L. Bonner	Member

Selection and Term

Appointments are made by the Governor for two-year terms.

Special Qualifications

None

Jurisdiction (Geographic)

State-owned lands concentrated primarily in West Texas and along the Gulf Coast

Organization and Operations

Number of Employees

283

Budget Appropriation Levels

1980	\$6,193,603
1981	\$5,687,890
1982	\$7,282,926

1983	\$7,794,629 (Requested)
1984	\$10,308,325 (Requested)
1985	\$11,207,503 (Requested)

Statutory Authority

Not Available

Responsibilities and Programs

Management of land and natural resources dedicated to the Permanent School Fund. The General Land Office has accounting management responsibilities for funds received from the lease of land owned by the State of Texas, such as state highway lands and Pan American University lands.

PUBLIC UTILITY COMMISSION OF TEXAS

Address and Phone

7800 Shoal Creek Boulevard, Suite 450 N
Austin, Texas 78757
(512) 458-0100

Administrative Officers and Titles

John E. Cunningham Executive Director

Board Composition

Alan R. Erwin	Chairman
Peggy Rosson	Commissioner
Phil Ricketts	Commissioner

Selection and Term

Appointed by the Governor to a six-year term. Each of the terms is staggered by two years.

Special Qualifications

Qualified voter, not less than 30 years of age, a citizen of the United States, and a resident of the State of Texas.

Jurisdiction (Geographic)

State of Texas

Organization and Operations

Number of Employees

135

Budget Appropriation Levels

1981	\$3,400,000	
1982	\$3,400,000	
1983	\$3,800,000	
1984	\$6,000,000	(Requested)
1985	\$6,100,000	(Requested)

Statutory Authority

Article 144c of the Public Utility Regulatory Act of 1975

Responsibilities and Programs

To regulate public utilities, and to assure rates, operations, and services which are just and reasonable to the consumers and to the utilities

RAILROAD COMMISSION OF TEXAS

Address and Phone

P.O. Drawer 12967, Capitol Station
Austin, Texas 78711
(512) 445-1100

Administrative Officers and Titles

Jim Morrow	Director Oil and Gas Division
Walter Wendlandt	Director Transportation Division
Carlos Higgins	Director Gas Utilities Division
J. Randel Hill	Director Surface Mining and Reclamation Division
Hugh Keepers	Director Liquefied Petroleum Gas Division

Board Composition

Mack Wallace	Chairman
Buddy Temple	Commissioner
Jim Nugent	Commissioner

Selection and Term

Commissioners are chosen through statewide election by voters for a six-year term.

Special Qualifications

None

Jurisdiction (Geographic)

State of Texas

Organization and Operations

Number of Employees

845

Budget Appropriation Levels

1980	\$16,150,726
1981	\$16,165,693
1982	\$24,219,889
1983	\$25,766,052
1984	\$33,975,082 (Requested)
1985	\$34,594,466 (Requested)

Statutory Authority

Texas Natural Resources Code, Texas Motor Carrier Acts of 1927 and 1929, Cox Act of 1920, and Texas Surface Mining Reclamation Act of 1975

Responsibilities and Programs

Regulation of the oil and gas industry to prevent waste of resources and while doing so to protect property rights and the environment. Regulation of surface mining of coal and uranium and the reclamation of land when the mining operations have been completed.

OFFICE OF THE TEXAS ATTORNEY GENERAL

ENVIRONMENTAL PROTECTION DIVISION

Address and Phone

P.O. Box 12548
Austin, Texas 78711
(512) 475-4143

Administrative Officers and Titles

Jim Mattox Texas Attorney General

Jurisdiction (Geographic)

State of Texas

Organization and Operations

Number of Employees

16

Budget Appropriation Levels

Not Available

Responsibilities and Programs

The Attorney General's Office represents the Rio Grande Compact Commissioner for Texas as a legal adviser and as an attorney in any litigation. Duties also include representing the Department of Water Resources in any litigation.

TEXAS BOARD OF IRRIGATORS

Address and Phone

Box 12337
Austin, Texas 78711
(512) 475-8161

Administrative Officers and Titles

Joyce Watson	Executive Secretary
Pat Kime	Accounting Clerk
Bonnie Griebel	Fiscal Officer

Board Composition

Samuel Dale Ousley	Chairman	Fort Worth
Hugh Rushing, Jr.	Vice-Chairman	Austin
Robert I. Goehrs		Houston
Henry Alford		Dallas
Weldon Pool		Tyler
Douglas Hawthorne		Dallas

Selection and Term

Appointed by the Governor to six-year, staggered terms

Special Qualifications

Board must consist of four licensed irrigators and two public members.

Jurisdiction (Geographic)

State of Texas

Organization and Operations

Number of Employees

3

Budget Appropriation Levels

1981	\$25,923
1982	\$87,654
1983	\$96,144
1984	\$122,560 (Requested)

Statutory Authority

Chapter 197, Acts of the Sixty-Sixth Legislature, Regular Session, 1979,
Article 8751, V.A.C.S.

Responsibilities and Programs

The Board conducts examinations, grants licenses to qualified irrigators, and annually renews irrigators previously registered. In addition, the Board is empowered to regulate the profession of landscape irrigation.

TEXAS DEPARTMENT OF HEALTH - DIVISION OF WATER HYGIENE

Address and Phone

1100 West 49th Street
Austin, Texas 78756
(512) 458-7497

Administrative Officers and Titles

Thomas D. Tiner Director, Division of
 Water Hygiene

Board Composition

The eighteen-member Texas Board of Health is the policy-setting body for the Texas Department of Health. The Board consists of six licensed physicians, two hospital administrators, one dentist, one registered nurse, one veterinarian, one pharmacist, one nursing home administrator, one optometrist, one civil engineer, two public members, and one chiropractor.

Selection and Term

Members of the Texas Board of Health are appointed by the Governor for six-year terms.

Jurisdiction (Geographic)

State of Texas

Organization and Operations

Number of Employees

69

Budget Appropriation Levels

1980	\$2,285,141
1981	\$2,229,926
1982	\$2,395,085
1983	\$1,869,338

Statutory Authority

Articles 4414a, 4418d, 4419, and 4477-1, Vernon's Texas Civil Statutes.
Also Public Law 93-523, Safe Drinking Water Act.

Responsibilities and Programs

The Division of Water Hygiene has jurisdiction over all public drinking water supplies in Texas. The Department adopts "Rules and Regulations for Public Water Systems" and "Drinking Water Standards" for the public water systems. This is performed through field surveillance and inspection, water quality monitoring, enforcement, water system operator certification, and plan and specification review.

TEXAS DEPARTMENT OF WATER RESOURCES

Address and Phone

Box 13087
Capitol Station
Austin, Texas 78711
(512) 458-7497

Administrative Officers and Titles

Charles E. Nemir	Executive Director
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Board Composition

Water Development Board

Louis A. Beecher1, Jr.	Chairman	Dallas
George W. McKlesky	Vice-Chairman	Lubbock
Glen E. Roney		McAllen
W.O. Bankston		Dallas
Lonnie A. "Bo" Pilgrim		Pittsburg
Louie Welch		Houston

Selection and Term

The Water Development Board is an appointed board with members serving overlapping terms of six years length. Two members are appointed each odd-numbered year.

Texas Water Commission

Lee B.M. Biggart	Chairman	Austin
Felix McDonald		Edinburgh
John D. Stover		Lufkin

Selection and Term

The Commission consists of three full-time members appointed by the Governor for staggered six-year terms. The term of one member expires every two years.

Jurisdiction (Geographic)

State of Texas

Organization and Operations

Number of Employees

860

Budget Appropriation Levels

1980	\$24,451,974
1981	\$27,226,355
1982	\$28,710,140
1983	\$32,861,090
1984	\$48,386,625 (Requested)
1985	\$51,933,201 (Requested)

Statutory Authority

Senate Bill 1139, Sixty-Fifth Legislature, 1977

Responsibilities and Programs

The Department of Water Resources, the principal water resource agency of Texas, is statutorily charged with carrying out many functions and programs. In addition, it has assumed the responsibility for administering many federal programs and federal regulatory functions on the instructions of the Governor and the Legislature.

The responsibilities of the Department of Water Resources include:

- Planning for the orderly development and use of the water resources in the state;
- Managing the state's water resources, both quantity and quality, through a statutory system of appropriative water rights;
- Evaluating applications and issuing permits for the appropriation and use of Texas waters;
- Carrying to completion a statewide program of water rights adjudication;
- Issuing permits, where appropriate, for the discharge of treated wastewaters into the waters of Texas;
- Regulating the underground disposal (injection) of industrial wastes;
- Providing remedial actions on abandoned hazardous waste sites;
- Participating in the detailed planning, design, and construction of major reservoirs and water conveyance facilities;
- Collecting, storing, and evaluating data on the occurrence and quality of all surface and ground waters in the state;
- Advancing and keeping current a topographical mapping program;
- Providing financial assistance from the Texas Water Development Fund and Water Loan Assistance Fund to eligible political entities in the state for the construction of water and water-related facilities and sewage treatment facilities;
- Carrying out a dam safety inspection program;
- Administering the federal Construction Grants Program, which provides grants to cities and other political entities in the state for wastewater collection and treatment facilities;
- Coordinating and regulating all weather modification research and operations in Texas.
- Providing the public with information on water and related matters and assisting towns, cities, and industries in obtaining adequate water supplies;
- Maintaining a centralized, computerized data bank of natural resources data (Texas Natural Resources Information System) available to all state agencies as well as individual citizens;
- Coordinating and negotiating with the multitude of federal agencies involved in water resources on programs and projects in or affecting Texas;

- Working with the Governor, the Legislature, and members and committees of the Congress on behalf of needed water projects and programs in Texas.

TEXAS ENERGY AND NATURAL RESOURCES ADVISORY COUNCIL

Address and Phone

200 East 18th Street
Austin, Texas 78701
(512) 475-0414

Administrative Officers and Titles

Dr. Milton Holloway	Executive Director
J. Mark Lawless	Director of Natural Resources
Mike Personette	Environmental Policy Specialist

Board Composition

Governor Mark White	Co-Chairman
Lt. Gov. William Hobby	Co-Chairman
Gib Lewis	Speaker, Texas House of Representatives
Garry Mauro	Land Commissioner, General Land Office
Perry R. Bass	Texas Parks and Wildlife Department
Louis A. Beecherl, Jr.	Chairman, Texas Water Development Board
Robert Bernstein	Commissioner, Texas Health Department
John L. Blair	Chairman, Texas Air Control Board
Jim Hightower	Commissioner, Dept. of Agriculture
Bob Bullock	Comptroller of Public Accounts
Rep. Tom Craddick	Texas House of Representatives
Dr. William L. Fisher	Bureau of Economic Geology
Rep. Joe Hanna	Texas House of Representatives
Senator Kent Caperton	Texas Senate
Senator Toti Santiesteban	Texas Senate
Alan Erwin	Member, Public Utility Commission
James E. Nugent	Member, Texas Railroad Commission
Jim Mattox	Attorney General

Selection and Term

The board consists of four citizens who are appointed by the Governor and eighteen state agency members who are statutory appointees.

Jurisdiction (Geographic)

State of Texas

Organization and Operations

Number of Employees

8 (Natural Resources Division)

Budget Appropriation Levels

1981	\$352,511
1982	\$406,200
1983	\$406,200
1984	\$365,580 (Requested)
1985	\$365,580 (Requested)

Statutory Authority

Senate Bill 921, Sixty-Sixth Legislature, Regular Session, 1979, Article 4413 (476), Section 6, V.A.C.S.

Responsibilities and Programs

The Council utilizes the expertise and resources of its membership to achieve the following goals:

- Adopt and continually reassess an energy policy for Texas;
- Adopt and continually reassess a natural resources policy for Texas;
- Recommend legislation to the United States Congress and the Texas Legislature implementing energy policy and natural resources policy for Texas;
- Review existing and proposed actions of the federal agencies to determine the energy and natural resources impacts on the State of Texas and recommend to the Legislature and the Governor alternative actions and policies consistent with Texas energy and natural resources policy;
- Adopt a plan and award contracts for the development of alternative energy technologies under the Energy Development Fund;
- Represent the Governor at state, regional, national, or international energy or natural resources meetings at the Governor's request;
- Provide staff and technical assistance to Advisory Committees;
- Adopt a budget and annual operating plan;
- Develop projects and programs to ensure proper protection and development of Texas natural resources, including the participation of all necessary entities;
- Study problems and issues connected with state agency permitting processes;

- Perform such tasks as may be assigned by the Governor and/or accepted by the Council.

TEXAS FOREST SERVICE

Address and Phone

Forest Environment Department, Texas A&M University
College Station, Texas 77843
(713) 845-2641

Administrative Officers and Titles

Bruce Miles	Director
Mason Cloud	Head of the Forest Environment Dept.

Jurisdiction (Geographic)

State of Texas

Organization and Operations

Number of Employees

400

Budget Appropriation Levels

Not Available

Statutory Authority

Article 2613, Section 10, Thirty-Fourth Legislature, 1915

Responsibilities and Programs

The Texas Forest Service is mandated and obligated to maintain and promote an increase of the forest resources on private lands of Texas for the general welfare of its citizens and the Texas economy.

The Forest Environment Department administers the operation of the following:

- Forest tree seedling nurseries;
- Seed orchards and seed production areas;

- Cone and seed collections;
- The West Texas operations for windbreak production and planting;
- River basin studies and small watershed programs;
- Resource Conservation and Development Program in cooperation with the Soil Conservation Service, and many statewide environmental programs in cooperation with federal and state agencies.

TEXAS PARKS AND WILDLIFE DEPARTMENT

Address and Phone

4200 Smith School Road
Austin, Texas 78744
(512) 475-4831

Administrative Officers and Titles

Charles D. Travis	Executive Director
Robert J. Kemp	Director of Fisheries
Ted C. Clark	Director of Wildlife
Chester L. Burdett	Director of Law Enforcement
James D. Bell	Director of Parks
Roy Hogan	Director of Administration

Commission

Perry R. Bass	Chairman	Ft. Worth
James R. Paxton	Vice-Chairman	Palestine
Edwin L. Cox, Jr.		Athens
W.B. Osborn, Jr.		Santa Elena
William O. Braecklein		Dallas
William M. Wheless III		Houston

Selection and Term

Appointed by the Governor and confirmed by the senate for six-year terms. Two members are appointed each two years. The Governor selects the chairman of the commission.

Jurisdiction (Geographic)

State of Texas, including offshore to three marine leagues

Organization and Operations

Number of Employees

1,896

Budget Appropriation Levels

1981	\$68,452,562
1982	\$96,873,816
1983	\$97,105,010
1984	\$130,329,461 (Requested)
1985	\$133,651,198 (Requested)

Statutory Authority

House Bill 21, Acts of the Fifty-Eighth Legislature, Regular Session, 1963. This Act brought about the merger of the Game and Fish Commission and the State Parks Board.

Responsibilities and Programs

Responsibilities include managing the fish and wildlife resources of Texas, enforcement of fish and wildlife laws, planning of fish and wildlife laws, and planning and development of a statewide system of state parks.

TEXAS STATE SOIL AND WATER CONSERVATION BOARD

Address and Phone

Box 658
Temple, Texas 76503
(817) 773-2250

Administrative Officers and Titles

Harvey Davis	Executive Director
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Board Composition

Joe Antilley	Chairman	Abilene
Frank Gray		Lubbock
Clarence Schendel		Goliad
Hermon Petty		Mineral Wells
Albert Roach		Paris

Selection and Term

Elected by Soil and Water Conservation District Directors in a convention-type election to five-year, staggered terms. There is no limit to the number of terms a member may serve.

Special Qualifications

Board members must be eighteen years of age, they must own agricultural land, and must be actively engaged in farming or ranching. A Board member must also be a resident of the State District which he represents.

Jurisdiction (Geographic)

State of Texas

Organization and Operations

Number of Employess

20

Budget Appropriation Levels

1981	\$1,670,513
1982	\$2,232,658
1983	\$2,281,531
1984	\$5,044,191 (Requested)
1985	\$4,620,183 (Requested)

Statutory Authority

House Bill 20, Forty-Sixth Legislature, 1939; House Bill 444, Forty-Seventh Legislature, 1941; Section 201.001 paragraph d. of the Agriculture Code.

Responsibilities and Programs

The Board was created to control and prevent soil erosion so as to preserve natural resources, control floods, prevent impairment of dams and reservoirs, assist in maintaining the navigability of rivers and harbors, preserve wildlife, protect the tax base, protect public lands, and protect and promote the health, safety, and general welfare of the people of Texas.

Some of the specific responsibilities are:

- To offer such assistance as may be appropriate to the Directors of Soil and Water Conservation Districts in the carrying out of programs;
- To coordinate and use the programs of the several Soil and Water Conservation Districts;

- To secure the cooperation and assistance of the agencies of the United States, and in Texas;
- To disseminate information throughout the state concerning the activities and programs of the Soil and Water Conservation Districts, and to encourage the formation of such districts in areas where such organization is desirable;
- Promulgate such rules and regulations as may be necessary in the performance of its functions under the provisions of House Bill 444.

In addition to the above powers and duties, in 1953 the State Board was designated by the Governor to fulfill the State's responsibilities under the Watershed Protection and Flood Prevention Act (Public Law 566, as amended).

By Executive Order DB-18A signed by the Governor in 1975, the State Board was designated as the planning agency for agricultural and silvicultural nonpoint source pollution as required by Section 208 of the Federal Water Pollution Control Act (Public Law 92-500). In July 1978, by Executive Order WPC-5, the State Board was delegated agency management responsibility for carrying out provisions of the State Water Quality Management Plan where agricultural or silvicultural nonpoint pollution is concerned.

TEXAS WATER WELL DRILLERS BOARD

Address and Phone

Box 13087, Capitol Station
Austin, Texas 78711
(512) 475-3191

Board Composition

J.F. Grimes	Chairman	Dallas
Murray D. McKinley	Vice-Chairman	Pearsall
T.C. Bussell		Houston
R.B. Holton		Spearman
Walton O'Neil Loftis		Midland
W.L. Rehkop		Athens
Mary Lou Parsons		Odessa
Nestor Perez		Melvin
James L. Shawn III		Austin

Selection and Term

Members serve five-year terms and are appointed by the Governor.

Special Qualifications

The Board must consist of six experienced licensed driller members plus three nonindustry citizen members.

Jurisdiction (Geographic)

State of Texas

Organization and Operations

Number of Employees

0

Budget Appropriation Levels

1981	\$ 7,211
1982	\$12,500
1983	\$16,500
1984	\$110,000 (Requested)
1985	\$110,000 (Requested)

Statutory Authority

House Bill 77, Acts of the Fifty-Ninth Legislature, 1965 (Water Well Drillers Act)

Responsibilities and Programs

The Board examines and sets qualification standards for registration and licensing of water well drillers.

SPECIAL WATER DISTRICTS IN TEXAS

INTRODUCTION

Water districts are special units of local governments which provide water-related services within recognized geographic boundaries. These districts have limited powers and are autonomous governmental entities, independent of cities and counties.

Water districts may be created under general or specific or special laws. At present, Texas statutes permit the formation of eight types of general law districts. The procedure for the creation of locally initiated districts commences with a petition for establishment of a district signed by a designated percentage of taxpaying residents. A hearing then follows to determine the merits of the petitioner's request. If the petition is approved, the district is governed by directors who may be elected or appointed to the board.

The Texas Legislature may also create a water district through the passage of special law. Such a law establishes the name, powers, governing board, and jurisdictional authority of the district. The law may provide for a vote to confirm the legislative act.

General responsibilities of water districts are to control, store, preserve, and distribute waters from storms, floods, rivers, and streams for such purposes as navigation, power, drainage, and domestic consumption (see Table 1). Water districts possess only those limited powers necessary to supply water to their districts. Among the powers that a district may possess are the rights to (a) take land for the public good (eminent domain); (b) levy taxes and special assessments; and (c) issue bonds, subject to limitations provided in the enabling statutes.

Forty-three water districts are located in the Rio Grande/Rio Bravo basin. Each of these districts has been categorized into one of seven major district classifications. These classifications are Water Control and Improvement, Water Improvement, Drainage, Municipal Utility, Navigation, Fresh Water Supply, and Other Special Water Districts. In the following section we examine these major classifications by displaying the purpose of the district, its authority to operate, and finally the district's statutory authority. We then examine each specific water district in the classification displaying the address, financial data, organization and operations, and administrative officers and board members.

Table 1
FUNCTIONAL RESPONSIBILITIES OF TEXAS GENERAL LAW WATER DISTRICTS

Type of District*	FUNCTION											
	Statutory Authorization†	Flood Control	Hydroelectric Power	Navigation	Parks and Recreation	Solid Waste Disposal	Thermal Power	Water Conservation	Water Quality and Sewage Treatment	Water Resource Data Collection	Water Supply	Irrigation and Drainage
Drainage District	56											•
Fresh Water Supply District	53							•			•	
Levee Improve- ment District	57											•
Municipal Utility District	54	•	•	•	•	•	•	•	•	•	•	
Navigation District	62			•							•	
Underground Water Conser- vation District	52							•				
Water Control and Improve- ment District	51	•	•	•				•	•		•	
Water Improve- ment District	55		•				•				•	•

*Water districts authorized by Article 14, Section 59 of the Texas Constitution.

†Article, Vernon's Texas Codes Annotated.

WATER CONTROL AND IMPROVEMENT DISTRICTS (WCIDS)

INTRODUCTION

The purpose of WCIDs is to improve rivers, creeks, and streams in order to prevent overflows, or to permit navigation and irrigation. To accomplish this, the district may construct and maintain pools, lakes, reservoirs, dams, canals, and waterways for irrigation, drainage, or navigation.

A district has authority to undertake the functions, powers, and duties which will permit the accomplishment of the purposes for which it was created. It may construct, maintain, and operate necessary improvements, plants, works, and facilities. It may acquire water rights to accomplish its tasks. It may acquire land or other property by gift, grant, purchase, or condemnation and may acquire the fee simple title to or an easement on land, public or private, located inside or outside the district. The district may construct facilities in order to supply water for municipal uses, domestic uses, power, or commercial purposes.

A district may make regulations for sanitary sewer systems to preserve the sanitary condition of water. It may regulate residence, hunting, fishing, boating, and camping, and all recreational and business privileges on any body or stream of water, or any body of land, or any easement owned or controlled by the district. It may sell any surplus water to land in the vicinity of the district or to other districts which include land in the same vicinity.

A district operating under Article 16, Section 59, of the Texas Constitution, may incur bonded indebtedness necessary to make improvements or maintenance improvements. The bonds must be approved by the Attorney General and registered by the Comptroller.

Statutory Authority is granted to WCIDs under Article 3, Section 52, or Article 16, Section 59, of the Texas Constitution.

WCIDS ALONG THE RIO GRANDE/RIO BRAVO

CROCKETT COUNTY WCID # 1

Box 117
Ozona, Texas 76943
(915) 392-2730

Created:	12-02-40
District Size:	2,023.532 Acres

Number of Employees: Approximately 20

Jurisdiction: Water district boundaries

Bond Issues

03-05-46	\$50,000
09-21-48	\$150,000
08-12-57	\$100,000
02-04-63	\$150,000

Budget Appropriation Levels

1981	\$431,000
1982	\$525,000
1983	\$600,000

Administrative Officers and Board Members

Gene Williams	President
J.W. Johnigan	Vice-President
Duane Childress	Director
Dan Davidson	Director
W.D. Cooper	Water Superintendent
Mary K. Friend	Secretary

EL PASO COUNTY WCID # 4

P.O. Box 277
Fabens, Texas 79838
(915) 764-2253

Created: 01-17-55

District Size: Not Available

Number of Employees: 7

Jurisdiction: City limits, excluding surrounding farm lands

Bond Issues

11-14-55	\$275,000
04-15-63	\$250,000

Budget Appropriation Levels

1980	\$183,435
1981	\$266,488
1982	\$370,000 (Projected)
1983	\$325,000 (Projected)

Administrative Officers and Board Members

George Wilson	President
J.P. Smallwood	Vice-President
Kermit Williams	Director
Gilbert Rueda	Director
O.C. Brown, Jr.	Manager

EL PASO COUNTY WCID - WESTWAY

1002 Tiffany
Cantutillo, Texas 79835
(915) 886-3756

Created: 05-25-61

District Size: 571.140 Acres

Number of Employees: 2

Jurisdiction: El Paso County, approximately 8 miles north of
El Paso, Texas

Bond Issues

08-31-61 \$750,000

Budget Appropriation Levels

1980	Not Available
1981	\$134,600
1982	\$134,600

Administrative Officers and Board Members

Arlin Varnell	President
W.A. Freeman	Vice-President
Margie French	Director
George Wolf	Director
Carlos Castaneda	Manager

FORT HANCOCK WCID

P.O. Box 65
Fort Hancock, Texas 79839
(915) 769-3931

Created: 07-14-52
District Size: 3,918.000 Acres

Bond Issues

08-29-61	\$100,000
06-21-71	\$54,000
11-30-78	\$134,000

Budget Appropriation Levels

Not Available

Administrative Officers and Board Members

Martin E. Franklin	President
Joe N. Rodriguez	Vice-President
Arturo Brito	Director
Manuel Galindo, Jr.	Manager

HIDALGO COUNTY WCID # 18

P.O. Box 2080
McAllen, Texas 78501
(512) 682-2855

Created: 09-04-51
District Size: 2,174.089 Acres
Number of Employees: 1
Jurisdiction: The surrounding area south of Mission, Texas

Bond Issues

04-28-52	\$125,000
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Budget Appropriation Levels

Not Available

Administrative Officers and Board Members

Joe Dizdar	President
Gordon Hoki	Vice-President
Adron Ticer	Director
Franklin R. Sears	Director
Marlane A. Meyer	Director
Adron Ticer	Manager

HIDALGO COUNTY WCID # 19

P.O. Box 1043
Mission, Texas 78572
(512) 585-4761

Created: 01-15-52

District Size: 5,335.337 Acres

Number of Employees: 7

Jurisdiction: Southeast section of Mission, Texas, and the
Southwest sector of McAllen, Texas, in Hidalgo County

Bond Issues

07-14-52	\$350,000
02-15-72	\$100,000

Budget Appropriation Levels

1980	\$160,000
1981	\$170,000
1982	\$175,000
1983	\$185,000

Administrative Officers and Board Members

Blaine H. Holcomb	President
Harry H. Shimotsu	Vice-President
Lee M. Gernentz	Director
M.E. Canady	Director

HUDSPETH COUNTY WCID # 1

Box 67
Sierra Blanca, Texas 79851
(915) 369-2221

Created: 04-09-56

District Size: 2,403.316 Acres

Number of Employees: 2

Jurisdiction: The Village of Sierra Blanca

Bond Issues

11-13-59	\$75,000
06-05-72	\$200,000

Budget Appropriation Levels

1980	\$119,500
1981	\$124,700
1982	\$127,800

Administrative Officers and Board Members

Arcadio Ramirez	President
Billy R. Love	Director
Richard Love	Director
Gilbert Dutchover	Director
Johnny Gomez	Director
Roy Vasquez	Manager

MAVERICK COUNTY WCID # 1

2252 Garrison Street
Eagle Pass, Texas 78852
(512) 773-5129

Created: 06-09-26

District Size: 150,256.000 Acres

Number of Employees: 67

Jurisdiction: Rio Grande Diversion Facilities in Kinney County. The delivery system is located exclusively in Maverick County.

Bond Issues

12-12-27	\$4,800,000
05-15-30	\$1,800,000
11-01-35	\$1,858,000
06-06-46	\$3,100,000
02-10-48	\$977,000

Budget Appropriation Levels

1980	\$1,980,268
1981	\$2,214,774
1982	\$1,662,509
1983	\$1,693,155

Administrative Officers and Board Members

Jack Setser	President
Harold D. Stewart	Vice-President
Mario A. Perez	Director
James W. Smith	Director
C.W. Dickerson, Jr.	Secretary
Charles W. Helms	Acting General Manager

PECOS COUNTY WCID # 1

Box 696
Ft. Stockton, Texas 79735
(915) 336-3977

Created:	10-18-20
District Size:	7,866.160 Acres
Number of Employees:	1
Jurisdiction:	Pecos County WCID #1 Lands

Bond Issues

10-29-51	\$50,000
06-25-80	\$730,000

Budget Appropriation Levels

1980	\$141,861
1981	\$142,751 (General Operating Fund)
	\$1,586,612 (FHA Construction Fund)

1982	unknown
1983	unknown

Administrative Officers and Board Members

Arlie Weatherman	President
L.D. Shipman	Vice-President
Bill Honaker	Director
James Vann	Director
Wayne Dyess	Manager

STARR COUNTY WCID # 2

505 East Main Street
Rio Grande City, Texas 78583
(512) 487-2702

Created:	02-14-49
District Size:	5,040.000 Acres
Number of Employees:	33
Jurisdiction:	Rio Grande City

Bond Issues

03-09-53	\$600,000
12-05-55	\$85,000
11-28-67	\$210,000
02-04-74	\$475,000
09-24-79	\$650,000
09-24-81	\$263,000

Budget Appropriation Levels

1980	Not Available
1981	\$144,788
1982	Not Available

Administrative Officers and Board Members

Saul F. Hinojosa	President
Juan Solis, Jr.	Vice-President
Cipriano Lopez	Director
J.A. Garcia	Director
Efrain A. Duran	Manager

TERRELL COUNTY WCID # 1

Box 569
Sanderson, Texas 79848
(915) 345-2501

Created: 05-19-58
District Size: 1,549.000 Acres
Number of Employees: 4
Jurisdiction: Township of Sanderson

Bond Issues

07-13-59 \$200,000

Budget Appropriation Levels

Not Available

Administrative Officers and Board Members

Edward Kerr	President
Thomas Corbett	Vice-President
Henry Petty	Director
Frank Turner	Director
Gene Thompson	Director
Larry Hutto	Manager

VAL VERDE COUNTY-COMSTOCK-WCID

P.O. Box 943
Comstock, Texas 78837
(512) 292-4441

Created: 04-01-63
District Size: 126.180 Acres

Bond Issues

11-05-65	\$55,000
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Budget Appropriation Levels

Not Available

Administrative Officers and Board Members

J.U. Zuberbueler	President
Miguel P. Castellano	Vice-President
Emmitt Brotherton	Director
Francis A. Skehan	Director/Manager

ZAPATA COUNTY WCID-SAN YGNACIO

P.O. Box 93
San Ygnacio, Texas 78067
(512) 765-5602

Created:	08-01-61
District Size:	150.710 Acres
Number of Employees:	3
Jurisdiction:	San Ygnacio

Bond Issues

07-14-64	\$100,000
03-19-82	\$61,000

Budget Appropriation Levels

1980	\$27,606
1981	\$45,037
1982	Not Available

Administrative Officers and Board Members

Jose M. Ramirez	President
Pablo Zepeda	Vice-President
Santiago Solis	Director
Roberto L. Ramirez	Manager

WATER IMPROVEMENT DISTRICTS (WIDS)

INTRODUCTION

Water Improvement Districts are created to preserve the sanitary condition of water, prevent waste or unauthorized use of water, and regulate residential, recreational, and business privileges on any lands or water owned or controlled by the district.

A district is authorized to make joint projects under joint ownership and construction contracts. A board may contract with any other water improvement district, water control and improvement district, or any conservation and reclamation district to construct, operate, and maintain necessary facilities for the delivery and distribution of water or to drain land.

The district must create a maintenance and operating fund consisting of any money collected by assessment. It may incur debt by contract, notes, warrants, or bonds. The district must receive a permit from the Texas Water Rights Commission to construct a reservoir or to appropriate water for irrigation or other purposes. The district may sell water power privileges, but the district must continue to fulfill its principal responsibility to supply water for irrigation and municipal purposes. In addition, surplus water may be sold for use in irrigation, domestic, or commercial uses. A district has the power of eminent domain, but it may not condemn any property used to supply water.

The district may sell bonds to pay for the proposed improvements, together with any necessary incidental costs. Under Article 3, Section 52, of the Texas Constitution, the amount of bonds or the amount of the contract indebtedness with the United States may not be more than one-fourth of the actual assessed value of the real property in the district. This limitation does not apply to those districts operating under Article 16, Section 59, of the Texas Constitution. The Texas Water Rights Commission must investigate the organization and feasibility of all districts issuing bonds under Texas law. After the bonds have been voted, the board must levy a tax on all property in the district sufficient to pay the interest on the bonds and to create a sinking fund.

Statutory Authority is granted to WIDs under Article 3, Section 52, or Article 16, Section 59, of the Texas Constitution.

WIDS ALONG THE RIO GRANDE

EL PASO COUNTY WID # 1

294 Candelaria
El Paso, Texas 79907
(915) 859-4186

Created: 05-22-17

District Size: 69,010.000 Acres

Number of Employees: 60

Jurisdiction: Irrigable water rights lands in the El Paso
County

Bond Issues

Not Available

Budget Appropriation Levels

1980	\$1,500,000
1981	\$1,700,000
1982	\$1,800,000
1983	\$1,800,000
1984	\$1,800,000 (Requested)
1985	\$1,900,000 (Requested)

Administrative Officers and Board Members

Jack Stallings	President
Johnny Stubbs	President Pro Tem
Harold Ivey	Director
Indar Singh	Director
Kenneth W. Rushing	Director
Edd Fifer	Manager

HIDALGO COUNTY WID # 5

Box 614
Progreso, Texas 78579

(512) 565-1058

Created: 04-11-25
District Size: 632.335 Acres
Number of Employees: 16
Jurisdiction: Hidalgo County, Texas

Bond Issues

02-29-28	\$140,000
11-18-29	\$90,000
09-23-46	\$47,000

Budget Appropriation Levels

1980	Not Available
1981	Not Available
1982	Not Available
1983	Not Available

Administrative Officers and Board Members

J.H. Holcomb	President
A.C. Fuller	Vice-President
Jesse R. Russell	Director
Mrs. Ethie Mary Ewers	Director
R. L. Garrett	Secretary
E. N. Lyons	Manager

LOVING COUNTY WID # 1

P.O. Box 170
Mentone, Texas 79754
(915) 377-2201

Created: 08-21-33
District Size: Not Available
Number of Employees: Not Available
Jurisdiction: Not Available

Bond Issues

Not Available

Budget Appropriation Levels

1980-1981	\$12,500
1981-1982	\$15,300
1982-1983	\$18,300

Administrative Officers and Board Members

Jesse W. Bush	President
Hortencia Renteria	Member
Thelma Haley	Member
Richard Putnam	Member
Anna Goodrich	Member

PECOS COUNTY WID # 2

Box 445
Imperial, Texas 79743
(915) 536-2291

Created:	10-09-22
District Size:	Not Available
Number of Employees:	2
Jurisdiction:	Not Available

Bond Issues

Not Available

Budget Appropriation Levels

1981-1982	\$105,634
1982-1983	\$75,000

Administrative Officers and Board Members

J.A. Borron	President
A.P. Cox	Vice-President
Harold Combs	Director
Carl Grant	Director
W.L. Murphy	Secretary
Earl J. King	Manager

PÉCOS COUNTY WID # 3

P.O. Box 97
Imperial, Texas 79743
(915) 536-2340

Created: 11-10-23
District Size: Not Available
Number of Employees: 2
Jurisdiction: Not Available

Bond Issues

Not Available

Budget Appropriation Levels

1980	Not Available
1981-1982	\$69,826

Administrative Officers and Board Members

Paulene Hart	President
T.W. Johns	Vice-President
M.W. Yoder	Director
L.E. Faulkenberry	Member
L.M. Freeman	Manager

PRESIDIO COUNTY WID # 1

General Delivery
Redford, Texas 79846
(915) 384-2328

Created: 11-29-35

District Size: 770.000 Acres

Jurisdiction: From 12 miles to 17 miles downstream along the
Rio Grande from Presidio, Texas

Bond Issues

Not Available

Budget Appropriation Levels

The district is financially dormant.

Administrative Officers and Board Members

Rosendo M. Evaro	President
Raul Madrid	Director
F.A. Alvarado	Director

REEVES COUNTY WID # 1

P.O. Box 185
Balmorhea, Texas 79718
(915) 375-2238

Created:	02-27-15
District Size:	10,861.007 Acres
Number of Employees:	Not Available
Jurisdiction:	Not Available

Bond Issues

Not Available

Budget Appropriation Levels

Not Available

Administrative Officers and Titles

R.V. Turnbough	President
Dan Brijalba	Director
Robert McNutt	Director
Lee Renz	Director
Dan Brijalba	Director
Crews Adams	Secretary
Max Oliver	Manager

REEVES COUNTY WID # 2

P.O. Box 1331
Pecos, Texas 79772

Created: 08-22-33
District Size: Not Available
Number of Employees: 2
Jurisdiction: Central Reeves County along the Pecos River

Bond Issues

Not Available

Budget Appropriation Levels

1980	\$38,000,000
1981	\$40,000,000
1982	\$42,000,000
1983	Not Available
1984	Not Available
1985	Not Available

Administrative Officers and Titles

Cecil Jim Lee	President
E.A. Petty	Vice-President
V.J. Zeman	Director
J.T. Rediger	Director
Mrs. J.E. Couch	Secretary

WARD COUNTY WID # 2

P.O. Box 328
Grandfalls, Texas 79742
(915) 547-2331

Created: 01-24-17
District Size: Not Available

Bond Issues

Not Available

Budget Appropriation Levels

Not Available

Administrative Officers and Titles

Charlie L. Wilcox	President
Charles Corean	Vice-President
Charles Brandenburg	Director
David A. Tipton	Director

WARD COUNTY WID # 3

Box 215
Barstow, Texas 79719

Created: 04-08-18

District Size: Not Available

Bond Issues

Not Available

Budget Appropriation Levels

Not Available

Administrative Officers and Board Members

Mrs. Theresa Walker	President
Mrs. Winnie E. Majors	Director

DRAINAGE DISTRICTS

INTRODUCTION

Drainage districts are created to supervise the construction and maintenance of canals, ditches, levees, and other district improvements.

Drainage districts are authorized to acquire land by gift, grant, and purchase, or by condemnation of the right-of-way for necessary improvements. However, if the rights-of-way are purchased, the purchase must be approved by the Commissioners Court. A district has the power of eminent domain.

No district may condemn rights-of-way through any part of an incorporated city without the city's consent.

A district may issue bonds to pay for the drainage improvements, but not for an amount larger than the cost of improvements. The Texas Attorney General must certify that the bonds conform to the laws of Texas, and that they are valid and binding obligations of the district. The county judge, under the direction of the Commissioners Court, may annually assess taxes on all property in the district sufficient to pay interest and principal on the bonds.

Statutory Authority is granted to drainage districts under Article 3, Section 52, or Article 16, Section 59, of the Texas Constitution.

DRAINAGE DISTRICTS ALONG THE RIO GRANDE

BROWNSVILLE IRRIGATION AND DRAINAGE DISTRICT

6925 Coffee Port Road
Brownsville, Texas 78521
(512) 831-8462

Created:	08-04-19
District Size:	23,038.520 Acres
Number of Employees:	18
Jurisdiction:	North and East of the City of Brownsville

Bond Issues

Not Available

Budget Appropriation Levels

1980	\$393,000
1981	\$408,500
1982	\$440,500
1983	\$480,500

Administrative Officers and Board Members

Joe Medrano	President
Tomas R. Perez	Vice-President
Ralph Baker	Director
James R. Webb	Manager

HIDALGO COUNTY DRAINAGE DISTRICT # 1

P.O. Box 1356
Edinburg, Texas 78539
(512) 383-2751

Created: 09-16-07

District Size: 704.000 Acres

Number of Employees: 22

Jurisdiction: The district covers approximately two-thirds of Hidalgo County, extending west to Mission and north and east to Delta Lake

Bond Issues

1975	\$26,000,000
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Budget Appropriation Levels

1980	\$604,749
1981	\$744,869
1982	\$1,117,131
1983	\$1,702,877

Administrative Officers and Board Members

Santos Saldana	County Judge
Ramiro Cavazos	Precinct 1 Commissioner
Lalo Arcaute	Precinct 2 Commissioner
Norberto Salinas	Precinct 3 Commissioner
Leonard Camarillo	Precinct 4 Commissioner

MUNICIPAL UTILITY DISTRICTS (MUDS)

INTRODUCTION

Municipal utility districts were created to control flood waters, store water for hydroelectric power, control water for irrigation and drainage, supply water to users, and for various other purposes. A MUD is also responsible for the reclamation and irrigation of arid and semi-arid land; the reclamation and drainage of overflowed land; the conservation and development of forests, waters, and hydroelectric power; navigation of inland and coastal water; protection, preservation, and restoration of the purity and sanitary conditions of the waters of Texas.

A MUD has the authority to undertake the functions, powers, rights, and duties which will permit accomplishment of the purposes for which it was created. A district may purchase, construct, acquire, own, operate, maintain, repair, improve, or extend inside and outside its boundaries any and all works, improvements, facilities, plants, equipment, and appliances necessary to:

- Supply water for municipal uses, domestic uses, power, and commercial uses;
- Control all domestic, industrial, or commercial wastes;
- Control local storm waters or other local harmful excesses;
- Irrigate the land;
- Alter land elevation;
- Navigate coastal and inland waters;
- Provide parks and recreational facilities.

The MUD may issue bonds to accomplish its purposes. The board may also levy a continuing direct annual ad valorem tax on all taxable property within the district in order to pay the interest and/or to create a sinking fund.

A MUD is granted authority to operate under Article 3, Section 52, or Article 16, Section 59, of the Texas Constitution.

MUDS ALONG THE RIO GRANDE

FORT CLARK MUD

P.O. Box 345
Brackettville, Texas 78832
(512) 563-2828

Created:	05-08-72
District Size:	2,669.920 Acres
Number of Employees:	4
Jurisdiction:	Fort Clark Spring, Kinney County, Texas

Bond Issues

12-07-76	\$1,200,000
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Budget Appropriation Levels

1980	\$70,000
1981	\$74,000
1982	\$78,000
1983	\$107,000
1984	\$110,000 (Requested)
1985	\$115,000 (Requested)

Administrative Officers and Board Members

Charles B. Fralick	President
Claude G. Owen	Vice-President
Trudy Harber	Manager

ZAPATA COUNTY MUD # 1

P.O. Box 231
Zapata, Texas 78076
(512) 765-4285

Created:	11-22-77
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District Size: 1,174.575 Acres

Bond Issues

Not Available

Administrative Officers and Board Members

Delfino Lozano III	President
Edna Rives	Vice-President
Unis McKinney	Director
Robert W. Fish	Manager

NAVIGATION DISTRICTS

INTRODUCTION

Navigation districts are created to aid navigation. To that end, they may own, operate, and maintain wharves, docks, piers, sheds, or warehouses.

A navigation district has the authority to pass, amend, and repeal an ordinance, rule, or police regulation which is necessary to protect the property and to promote the health, safety, and general welfare of persons using the property. The district has the power to improve port facilities. A navigation district may acquire land and purchase, construct, maintain, and operate:

- Wharves and docks;
- Warehouses and grain elevators;
- Belt railroads;
- Floating plants and facilities;
- Lighting and towing facilities;
- All other facilities incidental or useful in the operation or development of the district's ports and waterways. The district may borrow money from the United States or any other source.

Statutory Authority is granted to navigation districts under Article 3, Section 52, or Article 16, Section 59, of the Texas Constitution.

NAVIGATION DISTRICTS ALONG THE RIO GRANDE

BROWNSVILLE NAVIGATION DISTRICT

P.O. Box 3070
Brownsville, Texas 78520
(512) 831-4592

Created: 12-26-28
District Size: 40,000.000 Acres
Number of Employees: Not Available

Jurisdiction: The District has jurisdiction over a turning basin located approximately 5 miles northeast of the City of Brownsville, Texas. The District has a man-made channel extending in a straight line from the turning basin approximately 17 miles to the Brazos at Santiago Pass, which is its entrance to the Gulf of Mexico.

Bond Issues

Not Available

Budget Appropriation Levels

1980	\$3,303,435
1981	\$3,819,337
1982	\$5,382,739
1983	\$4,403,151

Administrative Officers and Board Members

James R. Batsell	Chairman
W.W. Reed, Jr.	Secretary
Reynaldo Garza	Commissioner
Al Cisneros	General Manager/Port Director
R.K. Berry	Acting Port Director
Jack P. Campbell	Director of Leasing and Port Development

FRESH WATER SUPPLY DISTRICTS (FWSD)

INTRODUCTION

Fresh water supply districts are organized to conserve, transport, and distribute fresh water from any source for domestic and commercial uses. A FWSD has the power to exercise the rights, privileges, and functions given to it. It may acquire water rights and privileges in any way that an individual or corporation may acquire them. The board for a district controls and manages the affairs of the district, including making all contracts for the district and controlling the transportation and distribution of the waters of the district.

A fresh water supply district is authorized to exercise the power of eminent domain, but not through parks, cemeteries, manufacturing plants, or developed waterpower sites which exist at the time of the district's creation. The district board may purchase equipment and supplies that are necessary to construct, operate, and maintain the improvements of the district. It may extend sanitary sewer systems to control wastes, if no other public sanitary sewer system is available for the area inside the district.

The district may borrow money and may issue bonds to secure indebtedness. Bonds must be authorized by election, and the Texas Attorney General must certify that the bonds conform to the laws of the State and that they are valid and binding obligations of the district. The board must levy taxes sufficient to pay the interest on the bond and to create a sinking fund.

Statutory authority is granted to FWSDs under Article 16 Section 59, of the Texas Constitution.

FRESH WATER SUPPLY DISTRICTS ALONG THE RIO GRANDE

REAGAN COUNTY WSD

P.O. Box 110, 405 Second Street
Big Lake, Texas 76932
(915) 884-2851

Created:	09-05-55
District Size:	762,473.000 Acres
Number of Employees:	2
Jurisdiction:	Boundary of Reagan County

Bond Issues

07-21-58	\$850,000
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Budget Appropriation Levels

1981	\$425,047
1982	\$553,835

Administrative Officers and Board Members

Stanley Turner	President
Larry Settle	Director
John R. Daugherty	Director
Kenneth Kruse	Director
Tommy Holt	Director

OTHER SPECIAL WATER DISTRICTS ALONG THE RIO GRANDE

INTRODUCTION

In the following section a variety of special water districts will be displayed. These districts have been grouped together under the heading "Other Special Water Districts" because the functions and responsibilities each entity holds are diverse and, to a great extent, unrelated to the previous district classifications. Thus, we find it more useful to list these special districts in a separate broad group. We again display the address, organization and operations, jurisdiction, financial data, and administrative officers and board members of each group.

CONSERVATION AND RECLAMATION DISTRICT

HUDSPETH COUNTY CONSERVATION AND RECLAMATION DISTRICT #1

P.O. Box 125
Fort Hancock, Texas 79839
(915) 769-3815

Created:	08-06-23
District Size:	20,385.800 Acres
Number of Employees:	8

Jurisdiction: The District begins in Hudspeth County and follows along the Rio Grande River for approximately 18 miles. The width varies from approximately one-half mile to one and one-half miles.

Bond Issues

Not Available

Budget Appropriation Levels

1980	\$233,840
1981	\$326,200
1982	\$366,500
1983	\$301,900

Administrative Officers and Board Members

Grady E. Miller, Jr.	President
J.A. Carr	Vice-President
Jim B. Bean	Secretary
George Eads	Director
William Lovelady	Director
Matt Lochausen	Manager

CONSERVATION DISTRICT

DEL MAR CONSERVATION DISTRICT

618 Del Mar Blvd.
Laredo, Texas 78041
(512) 722-8156

Created: 05-22-59

District Size: 2,170.490 Acres

Number of Employees: 14

Jurisdiction: Adjacent to the northern city limit boundary
of Laredo

Bond Issues

04-26-60	\$450,000
07-12-60	\$100,000

07-21-64	\$200,000
10-11-65	\$50,000
03-30-67	\$200,000
07-16-71	\$35,000
06-23-73	\$53,000
12-13-77	\$812,000

Budget Appropriation Levels

1980	\$697,818
1981	\$649,055
1982	\$903,228

Administrative Officers and Board Members

Edward M. Woodruff	President
John V. Puig	Vice-President
Louis Kowalski III	Director
Ronald LaDuque	Secretary
B.A. Puig III, Jr.	Director

IRRIGATION DISTRICTS

ADAMS GARDENS IRRIGATION DISTRICT # 19

9901 Business 83
Harlingen, Texas 78550
(512) 423-5965

Created:	04-07-31
District Size:	9,294.870 Acres
Number of Employees:	Not Available
Jurisdiction:	Not Available

Bond Issues

11-16-31	\$950,000
08-22-44	\$134,000

Administrative Officers and Board Members

Brad Crockett	President
John Schwartz	Vice-President

Floyd R. Holcomb
Jim Rogers
C.R. Rivas

Director
Director
Manager

DONNA IRRIGATION DISTRICT HIDALGO COUNTY # 1

P.O. Box 775
Donna, Texas 78537
(512) 464-3641

Created:	12-15-14
District Size:	42,749.340 Acres
Number of Employees:	43
Jurisdiction:	Not Available

Bond Issues

10-26-29	\$1,700,000
02-19-35	\$379,000
10-13-59	\$4,067,000

Budget Appropriation Levels

Not Available

Administrative Officers and Board Members

V.N. Woodman	President
Jack Rabe	Vice-President
James Brown	Director
J.N. Vertrees	Director
G.C. Vineyard	Secretary
Wm. A. Green	Manager

HIDALGO COUNTY IRRIGATION DISTRICT # 2

P.O. Box 6
San Juan, Texas 78589
(512) 787-1422

Created:	07-12-20
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District Size: 69,438.000 Acres

Number of Employees: 78

Jurisdiction: Hidalgo County

Bond Issues

11-05-28	\$3,000,000
03-03-36	\$1,305,000

Budget Appropriation Levels

1980	\$1,595,736
1981	\$1,500,877
1982	Not Available
1983	Not Available

Administrative Officers and Board Members

T.R. Morin	President
Allen Arnold	Vice-President
Bert Forthuber	Secretary
Karl Obst	Assistant Secretary
Earl Snearly	Director
Larry Stevenson	Manager

SANTA MARIA IRRIGATION DISTRICT CAMERON COUNTY # 4

P.O. Box 335
Santa Maria, Texas 78592
(512) 565-2988

Created: 11-12-17

District Size: 3,217.000 Acres

Number of Employees: 2

Jurisdiction: The southwest corner of Cameron County

Bond Issues

Not Available

Budget Appropriation Levels

1980	\$62,044
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1981	\$53,202
1982	\$64,285

Administrative Officers and Board Members

Lawrence J. Phillip	President
Carl L. Bauer	Vice-President
Edward L. Simpson	Director
Edward Joe Wolf	Director
Cardell Gunn	Manager

WARD COUNTY IRRIGATION DISTRICT # 1

Box 325
Barstow, Texas 79719
(915) 445-6834

Created:	10-13-13
District Size:	24,251.790 Acres
Number of Employees:	2
Jurisdiction:	Ward County

Bond Issues

Not Available

Budget Appropriation Levels

Not Available

Administrative Officers and Board Members

Rayburn L. Allgood	President
Lloyd E. Smith	Vice-President
Joe Gray	Director
Robert S. Hayes	Director
Paul Williams	Secretary

POLLUTION CONTROL DISTRICT (PCD)

RIO GRANDE VALLEY PCD A

210 South Main
Donna, Texas 78537
(512) 464-4092

Created: 06-17-67
District Size: 1,642,209.000 Acres
Number of Employees: Not Available

Bond Issues

Not Available

Budget Appropriation Levels

Not Available

Administrative Officers and Board Members

Richard Roland	President
Earl Mitchell	Vice-President
James L. Evans	Director
Garland F. Smith	Director
J.O. Clark	Manager

UNDERGROUND WATER CONSERVATION DISTRICT (UWCD)

HUDSPETH COUNTY UWCD 1

P.O. Box 317
Dell City, Texas 79837
(915) 964-2311

Created: 10-05-57
District Size: Not Available
Number of Employees: No full-time employees

Jurisdiction: Northern Hudspeth County

Bond Issues

Not Available

Budget Appropriation Levels

1980	\$6,500
1981	\$6,500
1982	\$7,200

Administrative Officers and Board Members

Larry Karr	President
Euel Ross	Vice-President
Jack Lynch	Director
James Chavez	Director

PLATEAU UNDERGROUND WATER CONTROL AND SUPPLY DISTRICT

P.O. Drawer 580
Eldorado, Texas 76936
(915) 853-2833

Created: 8-30-65

District Size: 1,200,000.000 Acres

Number of Employees: 1

Jurisdiction: Schleicher County

Bond Issues

Not Available

Budget Appropriation Levels

1980	\$734.20
1981	\$944.71
1982	\$941.28
1983	\$940.00

Administrative Officers and Board Members

Ray W. Willoughby	Chairman
Mort Mertz	Director (at-large)

Howard Derrick
Steve Sykes
Earl Lloyd

Director (Precinct 2)
Director (Precinct 3)
Director (Precinct 4)

WATER AUTHORITY

EL PASO COUNTY WATER AUTHORITY

1500-1 Horizon Blvd.
El Paso, Texas 79927
(915) 852-3917

Created:	11-07-61
District Size:	Not Available
Number of Employees:	8
Jurisdiction:	North Central El Paso County

Bond Issues

02-02-72	\$1,315,000
09-30-74	\$2,050,000

Budget Appropriation Levels

1980	\$300,120
1981	\$336,482
1982	\$391,344
1983	Not Available

Administrative Officers and Board Members

John O. Ensor	President
William D. Slider	Vice-President
Don Chittenden	Director
Ronald Rodenhaver	Manager

RIO GRANDE WATER AUTHORITY

1015 Walnut Avenue
McAllen, Texas 78501
(512) 686-2431

Created: 06-11-69
District Size: 10,000.000 Acres
Number of Employees: Not Available
Jurisdiction: Not Available

Bond Issues

Not Available

Budget Appropriation Levels

Not Available

Administrative Officers and Board Members

Paul G. Veale, Sr.	President
Joe J. Garza	Director
Carroll D. Stone	Director
Ignacio Gutierrez	Director
William Scurlock	Director
Juan Garcia	Director
William F. Powell	Director
Paul Veale	Manager

WATER POWER CONTROL DISTRICT

RED BLUFF WATER POWER CONTROL DISTRICT

111 West Second Street
Pecos, Texas 79772
(915) 445-2037

Created: 11-30-34
District Size: 145,000
Number of Employees: 7

Jurisdiction: Reeves, Loving, Pecos, and Ward counties

Bond Issues

06-11-34 \$2,050,000

Administrative Officers and Board Members

W.L. Fuller	President
Lloyd L. Goodrich	Vice-President
Harold R. Ward	Director
G.C. Holladay, Jr.	Director
Donald C. Turnbow	Director
G.C. Lecroy	Director
John A. Hayes	General Manager

WATER DISTRICTS

RIO GRANDE PALMS WATER DISTRICT

Route 3, Box 22
San Benito, Texas 78586
(512) 399-2563

Created: 08-27-61

District Size: 3,736.610 Acres

Number of Employees: No employees are paid by the District.

Jurisdiction: Central Cameron County

Bond Issues

Not Available

Budget Appropriation Levels

1980	\$76,000
1981	\$62,000
1982	\$122,000

Administrative Officers and Board Members

James D. Russell	President and Manager
Dr. Robert Hazelwood	Director
Martha M. Russell	Director
Martha Hazelwood	Director
Sara T. Russell	Director

UPTON COUNTY WATER DISTRICT

P.O. Box 377
Rankin, Texas 79778
(915) 693-2501

Created: 05-25-77
District Size: 799,954.000
Number of Employees: Not Available

Bond Issues

Not Available

Budget Appropriation Levels

Not Available

Administrative Officers and Board Members

W.E. Rankin	President
E.D. Leach	Vice-President
E.F. Cummings	Director
David K. Spencer	Director

MEXICAN FEDERAL WATER INSTITUTIONS

SECRETARIA DE AGRICULTURA Y RECURSOS HIDRAULICOS (SARH)

Direccion General de Usos del Agua y Prevencion de la Contaminacion

Address and Phone

Reforma No. 107, Mezzanine
Mexico, D.F. 06030
(905) 5-35-10-80

Administrative Officer

Dr. Jorge Aguirre Martinez, Director General

Organization and Operations

Number of Employees

Approximately 1,200

Statutory Authority

Ley Organica de la Administracion Publica Federal, Ley Federal de Aguas, and Ley Federal para la Prevencion y Control de la Contaminacion Ambiental.

Responsibilities and Programs

The water-related responsibilities of SARH include:

- operation of a national water quality monitoring network,
- development of water quality control and reuse districts,
- conduct of water quality studies and stream surveys,
- preparation of environmental impact studies,
- training of water quality control technicians, and
- issuing industrial waste discharge permits.

SECRETARIA DE DESARROLLO URBANO Y ECOLOGIA (SDUE)

Direccion General de Sistemas de Agua Potable y Alcantarillado en Centros Urbanos

Administrative Officer

Ing. Enrique Dau Flores, Director General

Address and Phone

Reforma 77, 10o Piso
Mexico, D.F.
Phone: Not Available

Subdireccion de Coordinacion Financiera

Administrative Officer

Ing. Salvador Gaitan, Subdirector

Address and Phone

Reforma 20, 5o Piso
Mexico, D.F.
Phone: 535-80-85

Direccion General de Sistemas de Agua Potable y Alcantarillado en Centros Rurales

Address and Phone

Reforma 77
Mexico, D.F.
Phone: Not Available

Direccion General de Saneamiento del Agua

Administrative Officer

Ing. Jose Luis Calderon, Director General

Address and Phone

Rio Elba 20, 6o Piso
Mexico, D.F.
Phone: 5-53-94-81

SECRETARIA DE SALUBRIDAD Y ASISTENCIA (SSA)**Sistemas de Agua Potable y Alcantarillado****Administrative Officer**

Ing. Roberto Gomez Moure, Subdirector

Address and Phone

Rio Elba No. 20-6o Piso
Mexico, D.F.
Phone: 553-95-35

MEXICAN LOCAL OFFICIALS

Project members did not have the resources to conduct a complete study of local Mexican water institutions in the Texas/Mexico border area. The following names were obtained during a field trip to the border region.

CIUDAD ACUNA, COAHUILA

Lic. Jesus Maria Ramon, President Municipal

Ing. E. Cisneros Prado, Jefe de Distrito, SARH

Ing. Oscar S. Aguirre Castillo, Comision Internacional de Limites y Aguas

Ing. Guadalupe V. Reyes Reza, SDUE

PIEDRAS NEGRAS, COAHUILA

Mr. Juan Saucedo, Jefe de Personal, SDUE

Ing. Jose Antonio Valdez, SARH

APPENDIX A. WATER DISTRICTS IN THE MIDDLE RIO GRANDE BASIN

INTRODUCTION

The following section displays the water districts located in the Middle Rio Grande Development Council (MRGDC) jurisdictional area. In the latter stages of completing this directory the MRGDC contracted our services, requesting that we examine the institutions located in the jurisdiction. Counties located in this area are Dimmit, Edwards, Kinney, La Salle, Maverick, McMullen, Uvalde, and Zavala. Seven water districts are located in these counties.

In this section we employ the same format as used with the water districts, displaying each district's address, organization and operations, jurisdiction, financial data, and administrative officers and board members.

Since there are so few districts in this section, they are listed in alphabetical order.

EDWARDS UNDERGROUND WATER DISTRICT

1200 Tower Life Building
San Antonio, Texas 78205
(512) 222-2204

Created: 04-28-59

District Size: Not Available

Number of Employees: 7

Jurisdiction: Uvalde County and portions of Bexar, Comal, Hays, and Medina counties

Bond Issues

Not Available

Budget Appropriation Levels

1980	Not Available
1981	Not Available
1982	\$1,000,000
1983	\$3,000,000

Administrative Officers and Board Members

Bruce T. Foster	Chairman	Medina County
Robert C. Hasslocher	Vice-Chairman	Bexar County
Charles W. Rothe	Secretary	Medina County
Leslie Pepper	Treasurer	Uvalde County
Fay Sinkin	Director	Bexar County
Oliver O. Haas	Director	Comal County
Carroll U. Hoffman	Director	Comal County
F.M. Mauldin	Director	Hays County
L.A. Cortes	Director	Bexar County
S. Craig Hollmig	Director	Comal County
S.R. Gregg	Director	Hays County
Francis Emery	Director	Hays County
Gilbert R. Haby	Director	Medina County
Charles V. Griffin	Director	Uvalde County
Rodney E. Reagan	Director	Uvalde County
Thomas P. Fox	General Manager	San Antonio

LA SALLE COUNTY WID # 1

Box 459
Cotulla, Texas 78014
(512) 879-2447

Created:	09-30-33
District Size:	78,186.600 Acres
Number of Employees:	Not Available
Jurisdiction:	Not Available

Bond Issues

Not Available

Administrative Officers and Board Members

W.P. Cotulla	Sec.-Treasurer	Cotulla
Lee Roy Peters	Member	Cotulla
John W. Reese	Member	Cotulla
Ben Ludeman	Member	Cotulla

LA SALLE-MCMULLEN COUNTIES WCID # 1

P.O. Box 525
Cotulla, Texas 78014
(512) 879-2036

Created: 07-29-27

District Size: 120,700 Acres

Bond Issues

Not Available

Administrative Officers and Board Members

H. Dudley Storey, Jr.	President	Cotulla
Roy G. Martin	Secretary	Cotulla
James L. Donnell	Director	Fowlerton
Malvin Plocek	Director	Cotulla
Mrs. Frances Nestroy	Member	Cotulla
Roy G. Martin	Manager	Cotulla

NUECES RIVER AUTHORITY

P.O. Box 349
Uvalde, Texas 78801
(512) 278-6810

Created: 11-01-35

District Size: 10,104,960 Acres

Number of Employees: 2

Jurisdiction: All or parts of 22 counties in Nueces Basin,
with the exception of Webb County

Bond Issues

Not Available

Administrative Officers and Board Members

Judge Allen Wood	President	Corpus Christi
Leslie H. Laffere	1st Vice-President	Uvalde
Jerome T. Brite	Sec.-Treasurer	Pleasanton
George T. Jambers	2d Vice-President	Whitsett
Thomas M. Reding	Member-at-Large	Taft
George P. Morrill	Director	Beeville
James L. Donnell	Director	Fowlerton
William R. Edwards	Director	Corpus Christi

Jesse Lockhart, Jr.	Director	Barksdale
James C. Storm	Director	Corpus Christi
C.A. Morris	Director	Crystal City
Gus T. Canales	Director	Premont
Harry J. Schulz	Director	Three Rivers
George A. Finley III	Director	Corpus Christi
Joe W. Taylor	Director	Crystal City
James F. Tracy, Sr.	Director	Sinton
William A. Beinhorn	Director	San Antonio
Gene Garrison	Director	Alice
Eugene L. Ames, Jr.	Director	San Antonio
John W. White	Director	Uvalde
Steven R. Gallegos	Director	Castroville
Con Mims	Executive Director	Uvalde

REAL EDWARDS CONSERVATION RECLAMATION DISTRICT

c/o Sam Fish
Box 125
Barksdale, Texas 78828
(512) 234-3358

Created: 05-30-59
District Size: Not Available

Bond Issues

Not Available

Administrative Officers and Board Members

Bobby Hunger	President	Camp Wood
Bill Phillips	Vice-President	Camp Wood
Sam Fish	Secretary	Barksdale
Steve Jecho	Director	Barksdale
J.R. Williams	Director	Barksdale
Oscar Reavis	Director	Barksdale
V.A. Beck	Director	Barksdale
W.C. Stewart	Director	Barksdale
Wayne Everett	Director	Barksdale

ZAVALA COUNTY WCID # 1

Box 358
La Pryor, Texas 78872
(512) 365-4444

Created: 02-02-57
District Size: 507.856 Acres

Bond Issues

02-09-59	\$180,000
07-10-81	\$103,000

Administrative Officers and Board Members

Jose Ledesma	President	La Pryor
Robert Smith	Vice-President	La Pryor
Frederick Kite	Secretary	La Pryor
Ira Chitwood	Director	La Pryor
Jesus Cervantez, Jr.	Director	La Pryor

ZAVALA-DIMMIT COUNTIES WID # 1

P.O. Box 729
Crystal City, Texas 78839
(512) 374-3703

Created: 12-06-24
District Size: Not Available
Number of Employees: 2

Jurisdiction: About 30 square miles of district lands adjacent to the Nueces River and Espantosa Lake in Zavala and Dimmit Counties.

Bond Issues

02-24-38	\$11,000
10-06-47	\$200,000
06-20-49	\$25,000

Budget Appropriation Levels

1980	\$50,299
1981	\$50,848
1982	\$47,859
1983	\$47,859 (Requested)

Administrative Officers and Board Members

E.W. Ritchie, Jr.	President	Crystal City
Jack Kingsberry	Vice-President	Crystal City
Clifton C. Wagner	Sec.-Treasurer	Crystal City
Bart Wagner	Director	Crystal City
Ezra Meister	Director	Crystal City
Robert Wagner	Manager	Crystal City

REFERENCES

1. Letter from Y.R. Ybarra to Bill Paschall, December 1982.
2. **Federal Water Pollution Control Act of 1972** (P.L. 92-500), sec. 304(a) and sec. 101(a)(2), as cited in U.S. Environmental Protection Agency, **Quality Criteria for Water** (Washington, D.C.: U.S. Government Printing Office, 1977), p. ix.
3. Texas Department of Water Resources, **Surface Water Quality Standards** (Austin, Tex.: Texas Department of Water Resources, April 1981), p. 2.
4. SARH, **Reglamento Para la Prevencion y Control de la Contaminacion de Aguas**, (Mexico City: SARH, March 29, 1973), chap. 1, art. 2.
5. Interview with Dr. Pedro Martinez, Visiting Professor of Engineering, The University of Texas at Austin, February 4, 1983, Austin, Texas.
6. Vernon's Texas Codes Annotated, sec. 5.024, in **Vernon's Texas Codes Annotated** (St. Paul, Minn.: West Publishing Co., 1972).
7. Ibid., sec. 5.133.
8. Ibid., sec. 5.028.
9. Ibid.
10. Ibid., sec. 5.002.
11. Ibid., sec. 5.025.
12. Ibid., sec. 5.026.
13. Wells A. Hutchins, **Water Rights Laws in the Nineteen Western States**, vol. 2 (Washington, D.C.: U.S. Department of Agriculture, 1974), p. 43.
14. Russell K. Hedge, Jr., **A Guide to Cooperative Service Arrangements for Community Water Systems** (Austin, Tex.: Lyndon B. Johnson School of Public Affairs, 1978), p. 3.
15. Ibid.
16. Ibid.

OTHER VOLUMES FROM THE BORDER WATER PROJECT OF THE LBJ SCHOOL OF PUBLIC AFFAIRS

A Sourcebook for Rio Grande/Rio Bravo Water Management (PRP Report No. 57, 1983).

An annotated bibliography summarizing over 200 articles, monographs, books, dissertations, unpublished reports, and computer printouts relating to water resources management along the Rio Grande/Rio Bravo border of Texas and Mexico.

8 1/2 x 11", 102 pp., paper, \$7.50.

The State of the Rio Grande/Rio Bravo: A Study of Water Resources Issues along the Texas/Mexico Border (forthcoming).

Considers a variety of water resources planning issues in the Rio Grande/Rio Bravo basin, including availability of surface waters along the Texas/Mexico borderlands; surface water quality; groundwater aquifers—water quantity and quality; population—characteristics, trends, and implications for water use; water-use statistics—by sub-basin, use category, and water source; water supply and water treatment issues; wastewater management; water-related diseases and health; and water-use forecasting.

A Water Atlas for the Rio Grande/Rio Bravo (forthcoming).

Includes tables, figures, and maps illustrating water quantity, water availability, water quality, water use, and information on water and wastewater treatment along the Texas/Mexico border.

OTHER WATER-RELATED PUBLICATIONS OF THE LBJ SCHOOL

Impact of the Safe Drinking Water Act on Texas (PRP Report No. 21, 1978).

Explores the legal, technical, financial, and administrative implications of the Safe Drinking Water Act for water suppliers in Texas. Includes results of a survey of the attitudes and expectations of selected operators and managers of drinking water systems.

8 1/2 x 11", 189 pp., paper, \$4.00.

Colonias in the Lower Rio Grande Valley of South Texas (PRP No. 18, 1977).

Summarizes research findings on the water-related problems of the colonias of the Lower Rio Grande Valley of South Texas, focusing primarily on institutional alternatives for water supply and sewage treatment, and on land-use controls.

8 1/2 x 11", 25 pp., paper, \$3.00.

To order or to obtain a complete list of publications, write the Office of Publications, LBJ School of Public Affairs, University of Texas at Austin, Austin, TX 78712.