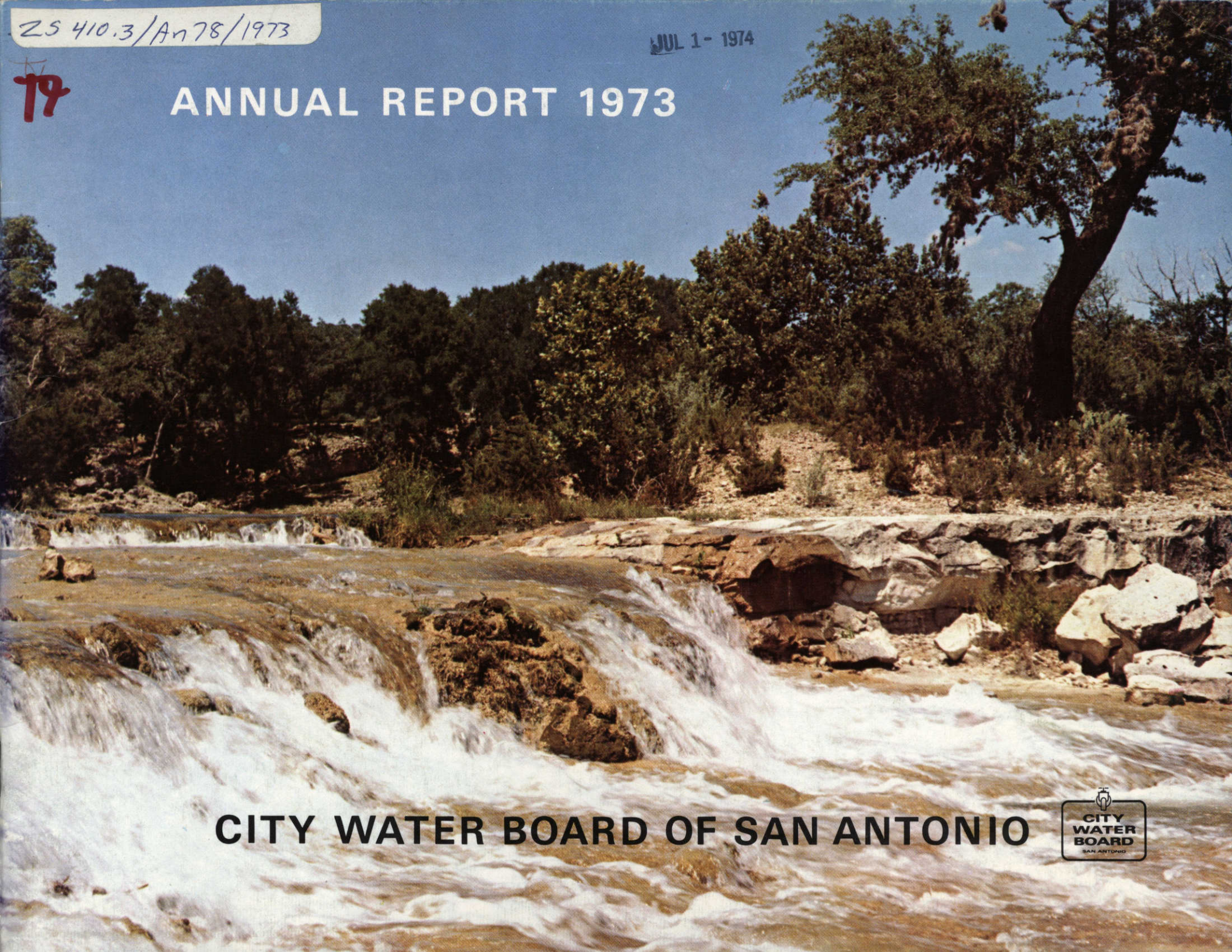


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# ANNUAL REPORT 1973



**CITY WATER BOARD OF SAN ANTONIO**



# Resolution

OF THE WATER WORKS BOARD OF TRUSTEES IN RECOGNITION OF OUTSTANDING COMMUNITY SERVICES RENDERED BY

## Roland C. Bremer

WHEREAS, Roland C. Bremer passed away on February 25, 1974 in San Antonio, Texas; and

WHEREAS, he had been a member of the Water Works Board of Trustees since January 1970, and more recently had served as Vice-Chairman of the Board; and

WHEREAS, his wise counsel, keen judgement, and executive ability have been a major factor in the successful operation and management of the City Water Board; and

WHEREAS, the Board wishes to recognize officially that his integrity, loyalty, dedication, and personal sacrifice to this organization went far beyond the ordinary; and

WHEREAS, the Board wishes to strongly express its deep appreciation for his public spirited dedication and contribution to this organization and its recognition of his loss to the Board, his family, his friends, and the community which he so ably served.

NOW, THEREFORE, BE IT RESOLVED BY THE WATER WORKS BOARD OF TRUSTEES OF SAN ANTONIO that the Secretary of the Board be, and she is hereby directed to spread upon the official Minutes of this Board this Resolution in tribute to Roland C. Bremer.

PASSED AND APPROVED this 13th day of March, 1974.

*D. Leo Galindo, M.D.*  
D. Leo Galindo, M.D., Chairman

ATTEST:

*Martha L. Hawkins*  
Martha L. Hawkins, Secretary

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## HIGHLIGHTS OF 1973

	<u>1972</u>	<u>1973</u>
REVENUE INCREASED FROM .....	\$11,071,491	to \$12,868,775
OPERATING COST INCREASED FROM .....	\$ 5,348,196	to \$ 5,578,621
CONSTRUCTION FROM REVENUE INCREASED FROM .....	\$ 2,584,654	to \$ 5,005,719
MUNICIPAL EQUITY ROSE FROM .....	\$66,842,868	to \$72,652,227
DEBT COVERAGE DECREASED FROM .....	2.35	to 2.28
OPERATING COST PER CUSTOMER INCREASED FROM .....	\$ 34.61	to \$ 35.30
INVESTMENT IN GROSS UTILITY PLANT PER CUSTOMER INCREASED FROM .....	\$ 693	to \$ 760
MILES OF MAIN IN USE WENT UP FROM .....	2,090	to 2,167
FIRE HYDRANTS IN SERVICE INCREASED FROM .....	8,676	to 9,038
NEW SERVICES INSTALLED INCREASED FROM .....	4,797	to 7,503
NUMBER OF CUSTOMERS INCREASED FROM .....	154,513	to 158,033
NUMBER OF BUDGETED EMPLOYEES INCREASED FROM .....	642	to 682

### FRONT COVER

Streams such as this one in the Texas Hill Country north and west of San Antonio seep into the Edwards limestone formation to provide the City Water Board's bountiful source of high quality water.

# BOARD OF TRUSTEES



Robert L. Boubel

Hayden Grona

Rev. S. H. James  
Vice-Chairman

John M. Schaefer  
Chairman

Charles L. Becker  
Mayor



Dr. D. Leo Galindo presents a bronze plaque to retiring Chairman Jack Kaufman (right) expressing gratitude and appreciation for his dedicated service to the people of San Antonio.

## A Message from the Board of Trustees to the Citizens of San Antonio

The San Antonio Water Works Board of Trustees has resolved to acquire water at the time and in the amount needed at the lowest possible cost to the citizens of San Antonio.

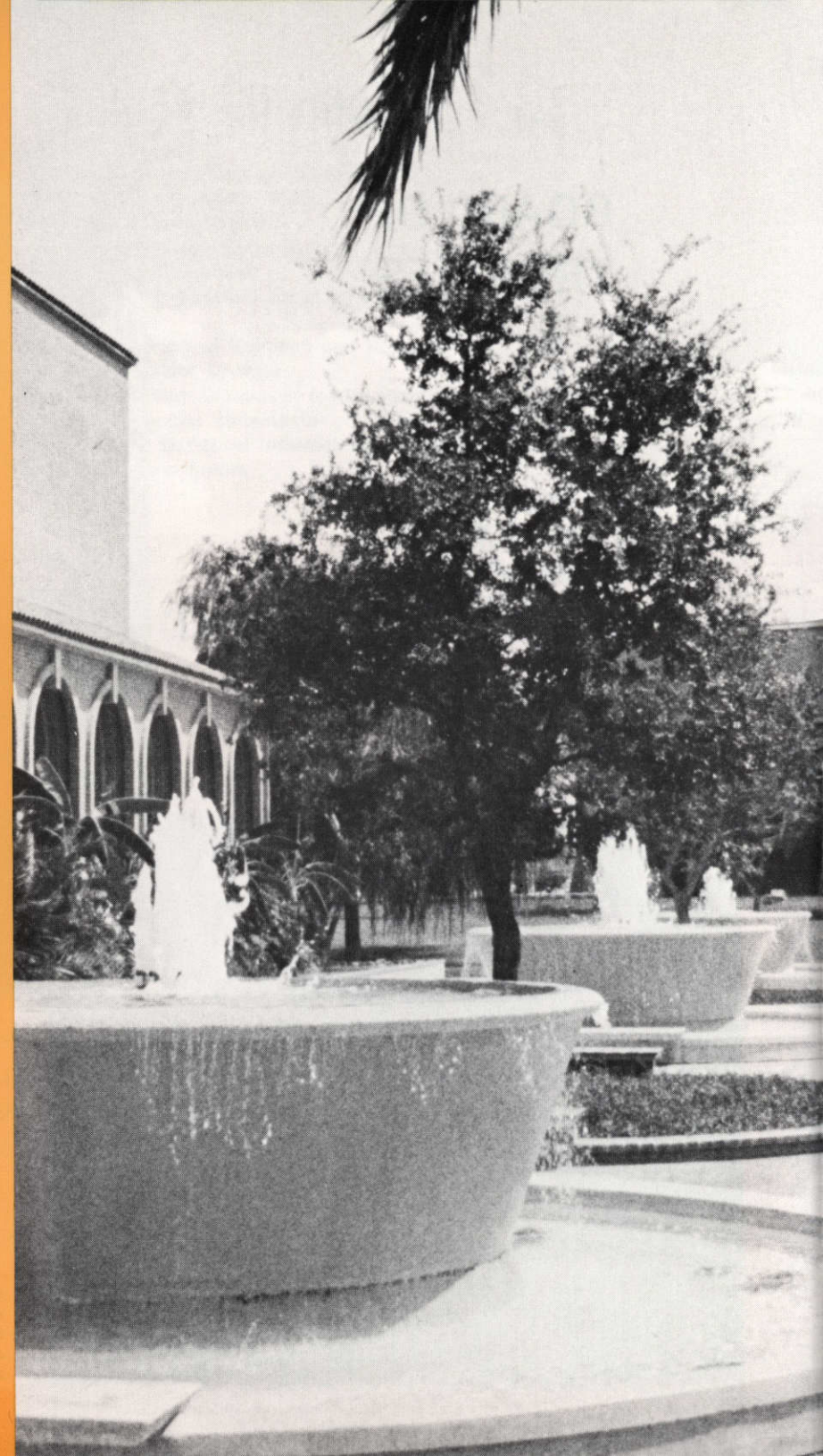
Those of us who live in San Antonio are most fortunate in that we are the beneficiaries of one of the world's most bountiful sources of good, clean, high quality water — the famous Edwards Underground Reservoir. The Water Works Board of Trustees of San Antonio has the grave responsibility of protecting this underground water supply and at the same time developing a utility system that will meet the water needs of its citizens efficiently and adequately not only for the present, but the future as well.

To meet this responsibility the Board has developed a long-range MASTER PLAN calling for orderly expansion of the system's production, distribution, and storage facilities to provide for San Antonio's projected needs into the 1990's. The Board has embarked on the first stages of putting in place a monitoring system to monitor any possible pollution to the Edwards in order to provide treatment facilities if and when needed. In addition, the initial phase of this long-range Master Plan will provide insurance against the day when usage of the Edwards' supply exceeds what water engineers consider the safe maximum yield. Since all water users in the Greater San Antonio area will benefit from this supplementary surface water supply, measures must be taken to assure that the burden of the increased cost is shared equitably by all.

Aided by a dedicated loyal and professional staff, and backed by the cooperation and support of the City Council and our citizen-customers, the Water Works Board of Trustees is confident it will meet adequately and on time San Antonio's water needs into the 21st Century.



*John M. Schaefer*  
John M. Schaefer, Chairman  
Water Works Board of Trustees



# BETTER WATER FOR PEOPLE WEEK...



An appreciation of the Edwards Underground Reservoir and its meaning to all residents of the San Antonio area who derive their water supply from this vast underground natural resource was the basis of the City Water Board's 1973 observance of "Better Water for People Week."

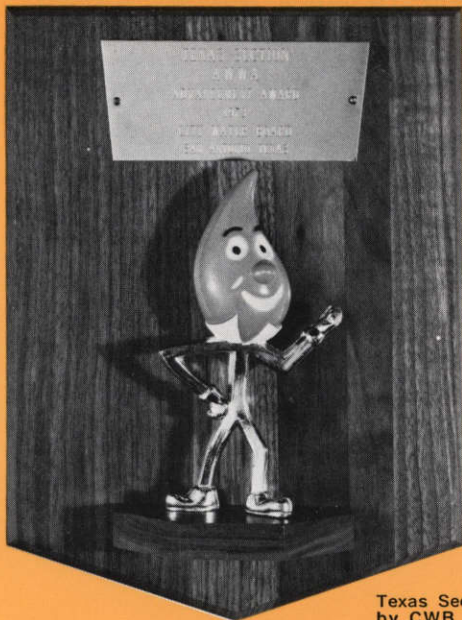
Both Gov. Dolph Briscoe and San Antonio Mayor Charles Becker issued proclamations designating August 12-19 Better Water Week. Community leaders from a six-county area attended a Greater Chamber of Commerce luncheon saluting the Edwards; City Water Board officials appeared on television; public service announcements were aired; displays of City Water Board Activities appeared in shopping malls, and CWB employees participated in a contest to guess the amount of water the utility would pump during the special week.

For its promotion of "Better Water for People Week", City Water Board was awarded the 1973 Community Relations award of the Texas Section of the American Water Works Association.

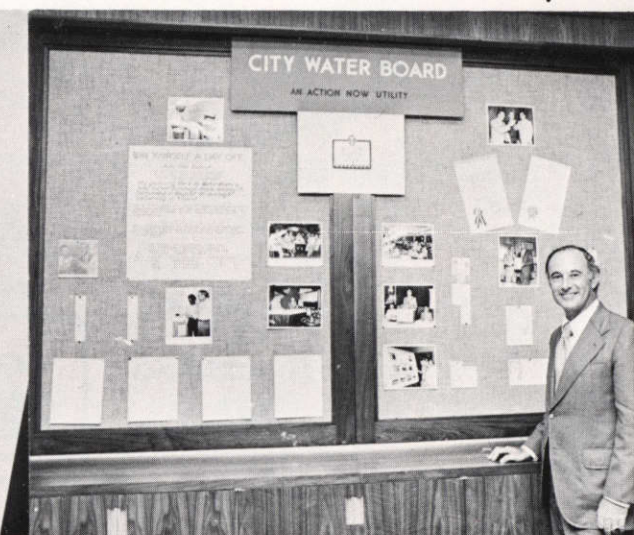
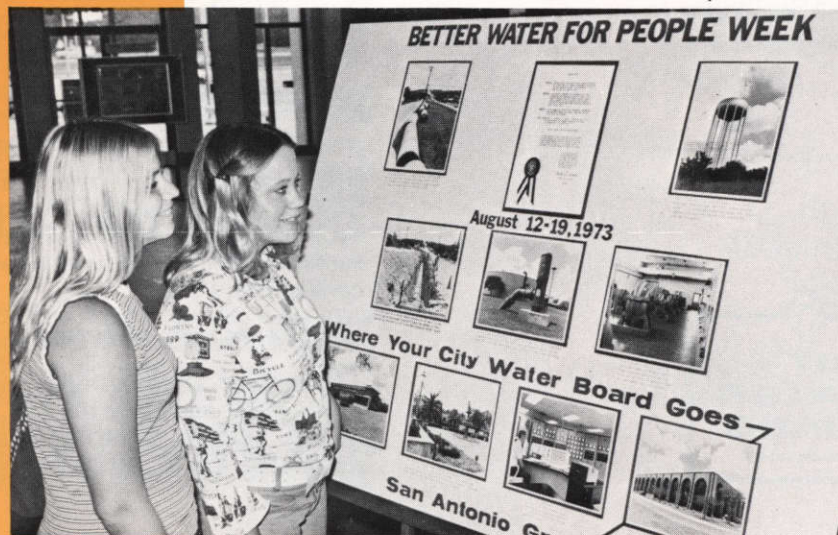
Gov. Dolph Briscoe presents statewide Better Water Week proclamation to General Manager Robert P. Van Dyke.

Displays greeted Shopping Mall visitors.

Former Board Chairman Jack Kaufman shown with some of results of week's activities.



Texas Section, AWWA, plaque won by CWB for Better Water Week promotion.



# A REPORT FROM THE GENERAL MANAGER



**Robert P. Van Dyke**  
General Manager



**T**he City Water Board by the end of 1973 had a value 17 times the \$7,000,000 the City of San Antonio originally paid for the utility system back in 1925.

It is significant to note that the water utility's financial growth has been generated entirely from operating revenues since the Board receives no tax monies or other funds from the City of San Antonio.

## REVENUE

Total revenues for 1973 were \$12,868,775, an increase of \$1,797,284 over the previous year.

Revenues included interest earned on time deposits and investments, which amounted to \$1,155,467, exceeding the previous year's earnings by \$334,675.

The average revenue per customer was \$81.43 compared with \$71.65 for 1972, an increase of \$9.78.

Operating expenses rose slightly in 1973 totaling \$5,578,621, as compared with \$5,348,196 in 1972. Operating cost per customer increased from \$34.61 in 1972 to \$35.30 for last year.

The Board gained 3,520 customers during 1973, bringing the total served at the end of the year to 158,033.

## PUMPAGE AND RAINFALL

Excessive rainfall in 1973 resulted in a 7 per cent decrease in water pumped this past year compared to 1972. Pumpage totaled 36,699 million gallons compared to 1971's all-time record high of 40,745 million gallons. Total rainfall this past year set an all-time record of 52.3 inches, which was 88 per cent above normal and 66 per cent above 1972.

## UTILITY PLANT ADDITIONS

Another all-time record was set in 1973 when expenditures for utility plant additions hit \$12,945,116. Revenues provided \$5,005,719 of this amount, contributions from single customers and developers accounted for \$2,740,036 and bond funds provided \$5,199,361.

Total gross value of utility plant, including construction in progress at the end of the year, amounted to \$120,176,666. The municipal equity, including reserves, increased from \$66,842,868 at the end of 1972 to \$72,652,227 at the close of 1973, an increase of 8.7 per cent.

### COMPUTER FACILITIES

Substantially improving service to citizens, the City Water Board's computer facilities and equipment were enhanced during 1973 to meet the increased needs of the Board, the City of San Antonio, Bexar County and other governmental agencies by upgrading to two large IBM Systems 370 Model 145 computers.

These computers, together with random access storage devices capable of storing two billion characters of information and other peripheral equipment, support 127 teleprocessing terminals. These terminals reduce the need for internal working papers, but the backbone of the system is still the printing of water bills, tax bills and financial reports.

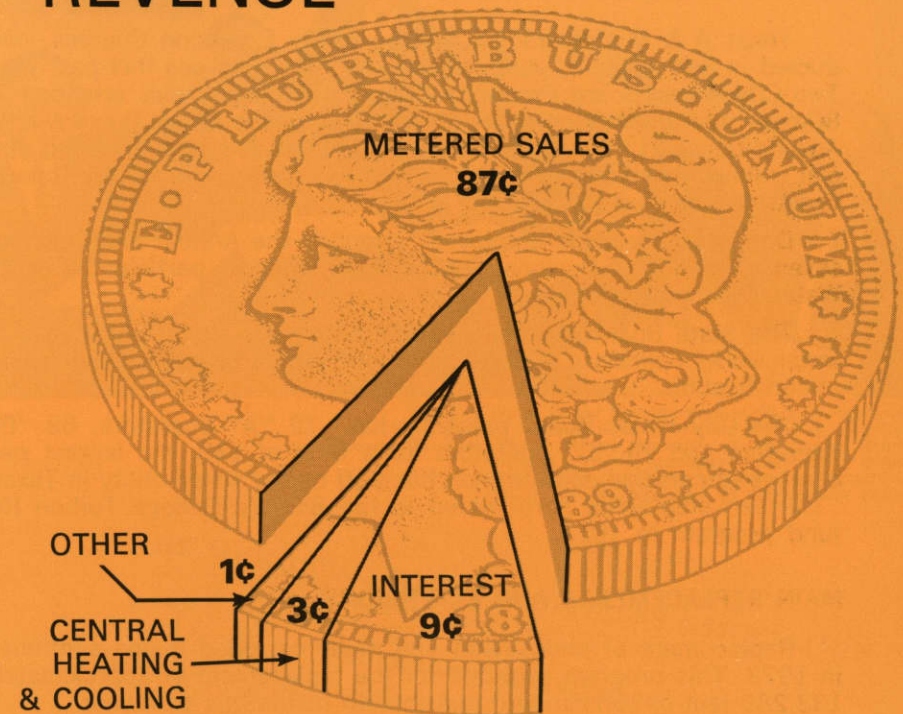
The computer center's outstanding achievement this past year was the design and implementation of the first phase of the Bexar County/San Antonio Area Wide Criminal Justice Information System.

Funded in part by the Texas Criminal Justice Council, this system uses 68 teleprocessing terminals to perform a variety of functions for the law enforcement and criminal justice community in Bexar County. Some of the benefits being derived are reduced jail population, prompt dissemination of pertinent information concerning subjects, and improved scheduling of subjects in the jail and through the courts.

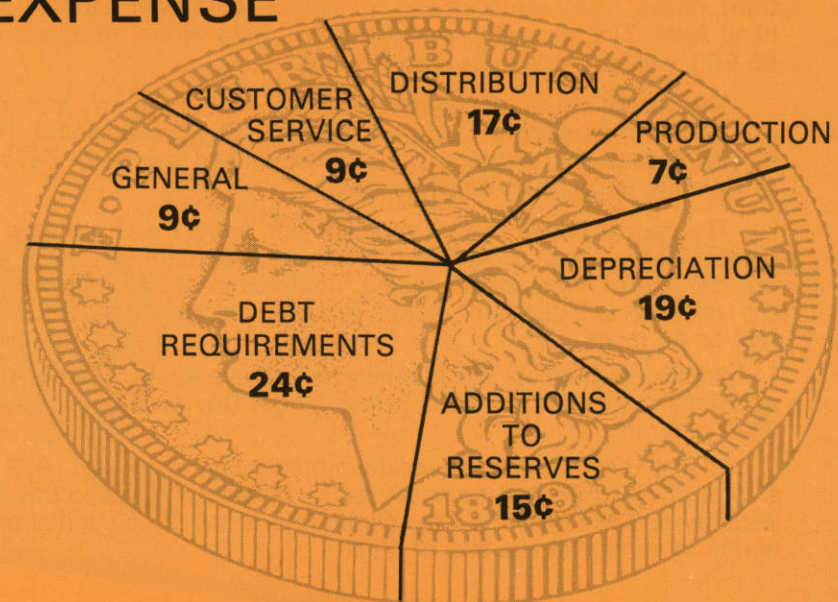
### SAFETY RECORD

Three safety awards were received by the Board for its successful efforts to maintain safe working conditions and for the strict adherence of Board employees to rules of safety. These awards were the "Award of Merit" from the National Safety Council, the "Award of Honor" from the American Water Works Association, and a first place Industrial Safety Award from the Texas Safety Association. The AWWA and the Texas Safety awards marked the 16th year the Board has won recognition from these two groups.

## REVENUE



## EXPENSE



## EMPLOYEE EDUCATION AND TRAINING

Texas A & M University's regular Utility Extension Courses, conducted in San Antonio, were attended by 84 employees this past year. Two City Water Board Production Department employees attended an 80-hour instrumentation short school also conducted by Texas A & M. An additional 21 City Water Board equipment operators received special training in machine operations and maintenance in another course conducted by Texas A & M.

During the year six employees attended the Annual Short School, seven attended the Regional Short School, and two participated in the Water Technology Course.

The State Board of Health certified 17 more Board employees as water works operators in 1973, and four others upgraded their levels of certification.

The City Water Board presently has 12 "A" operators, 62 "B" operators and 74 "C" operators for a total of 148, the largest percentage of certified operators on the staff of any water utility in Texas. Thirteen employees participated in the Board's College Tuition Refund program in 1973.

## MAIN REPLACEMENTS AND EXTENSIONS

Replacement of under-sized and badly corroded mains continued in 1973. This program provided for the replacement of approximately 133,289 feet of substandard distribution mains this past year.

The most significant replacement project was the completion of the third phase main replacement project in the Model Cities Neighborhood Area. This project provided for the replacement of approximately 55,800 feet of inadequate water mains.

The Model Cities Water Main Replacement Program was initiated in 1970 with funds provided jointly by the City Water Board, the City of San Antonio Department of Model Cities and the U. S. Department of Housing and Urban Development.

The fourth phase of this replacement project was initiated in the Model Cities area, providing for the replacement of an additional 35,400 feet of substandard mains. Completion of this phase will bring the total of substandard mains replaced to approximately 235,000 feet or 44 miles.

Additional projects are planned for the eventual replacement of an additional 18 miles of mains in the Model City area to complete this vital program.

Miscellaneous main extension projects completed in 1973 added a total of 541,396 feet of water mains of various sizes to the system. With these additions, the City Water Board had 2,167 miles of water mains in service at the end of 1973.

In keeping with the continued area expansion and population growth of San Antonio, the Board approved 146 water system main extension projects for the new subdivisions last year. These projects were accomplished by developers to serve new subdivisions and contributed greatly to the overall expansion of the Board's system.

During this past year, 7,503 new water service applications were processed, and fire protection was improved in business and residential areas by the installation of 362 additional fire hydrants.

## SYSTEM GROWTH

The growth of San Antonio and adjacent areas made it imperative that the planning, design and construction of water production, distribution and storage facilities continue at an accelerated pace in 1973.

A contract was awarded for the conversion of the Wurzbach Pump Station to a primary pump station. The project will be completed in 1974 and will provide for an increase in well capacity of 40 MGD, a 7.5 MG ground storage reservoir and a 39 MGD high service pump capacity.

Design was initiated on a primary pump station to be constructed on Marbach Road in accordance with the Board's Master Plan. This initial stage of the project when completed will have two wells, a 5 MG reservoir and three 12 MGD high service pumps with associated chlorination, piping and electrical equipment. Construction of this important facility is scheduled to get under way in 1974.

Construction was substantially completed during 1973 of the new University Booster Station to serve the new University of Texas-San Antonio complex and other related developments in the area.

A large number of major transmission main projects from 20 through 42 inch sizes were placed under construction or completed during 1973. These included 24 and 42 inch transmission mains extending north on Babcock Road to provide an essentially-needed second feed to the UTSA area. Mains of 24, 30 and 36 inch sizes also were installed during the year in the newly annexed areas in southwest San Antonio.

In addition, a total of 71,900 feet of 12 and 16 inch mains were also installed, many extending into recently annexed areas of the city. These major projects were in accordance with the Board's long-range Master Plan and will enable the Board to meet the increasing water demands in various sections of the city.

During 1973 negotiations were completed for the purchase of eight private water companies which have been or are in the process of being connected to the Board's system. These acquisitions resulted in a significant number of new connections to the system and are in accordance with the Board's policy of providing a dependable, high quality water service to all citizens of San Antonio and adjacent areas.

I wish to acknowledge with sincere appreciation the outstanding




leadership and wise counsel provided by the Board of Trustees throughout this past year, and certainly also the loyal and dedicated service of all of our employees without which the City Water Board's achievements could not have been attained.

I especially wish to recognize with deep gratitude the many contributions and services provided to the City Water Board and all of the citizens of San Antonio by Mr. Jack Kaufman, who retired as Chairman of the Board of Trustees on December 31, 1973.

All of us are deeply indebted to Mr. Kaufman for his long and faithful service, for his wise leadership, continuous encouragement and for his deep personal interest in and the devotion to the City Water Board, its employees and their families.

It was with regret that Mr. Kaufman's successor as Chairman, Dr. D. Leo Galindo tendered his resignation from the Board this past March due to the press of personal business. Another serious loss was the untimely death of Vice-Chairman Roland C. Bremer on February 25, 1974. Their wisdom and unflagging interest in the progress and betterment of San Antonio were a constant benefit to all of us who were associated with them.

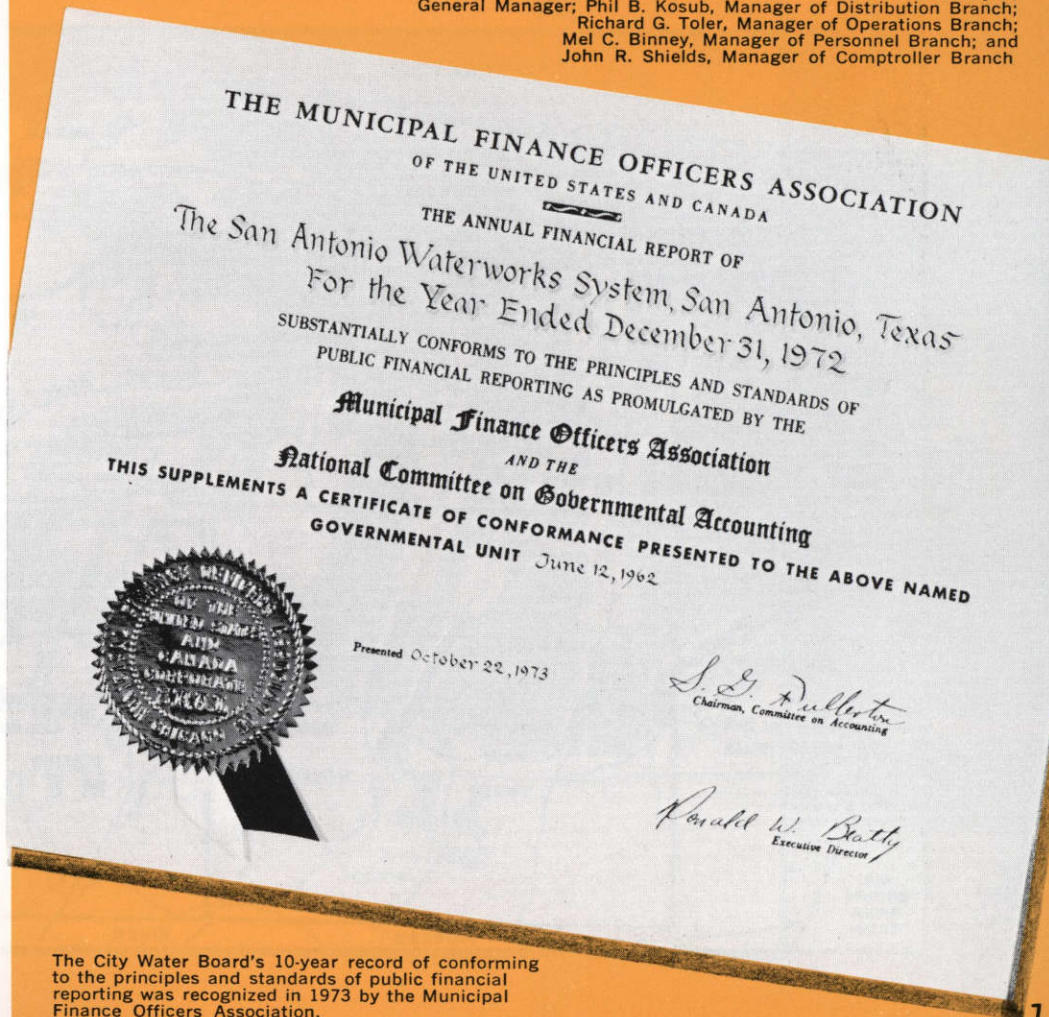
Sincere appreciation is also extended to the City Administration and to the citizens of San Antonio and Bexar County for their continued support and understanding. It was a privilege for your City Water Board to serve its citizen-customers in the Greater San Antonio area during the past year.



**Robert P. Van Dyke**  
General Manager



The City Water Board Management staff: J. W. Musgrave, Manager of Customer Service Branch; Robert P. Van Dyke, General Manager; Phil B. Kosub, Manager of Distribution Branch; Richard G. Toler, Manager of Operations Branch; Mel C. Binney, Manager of Personnel Branch; and John R. Shields, Manager of Comptroller Branch



The City Water Board's 10-year record of conforming to the principles and standards of public financial reporting was recognized in 1973 by the Municipal Finance Officers Association.

# ASSURING SAN ANTONIO'S CONTINUING

Few cities in the nation or the world are so favorably located above an extensive natural reservoir of high-quality water as San Antonio.

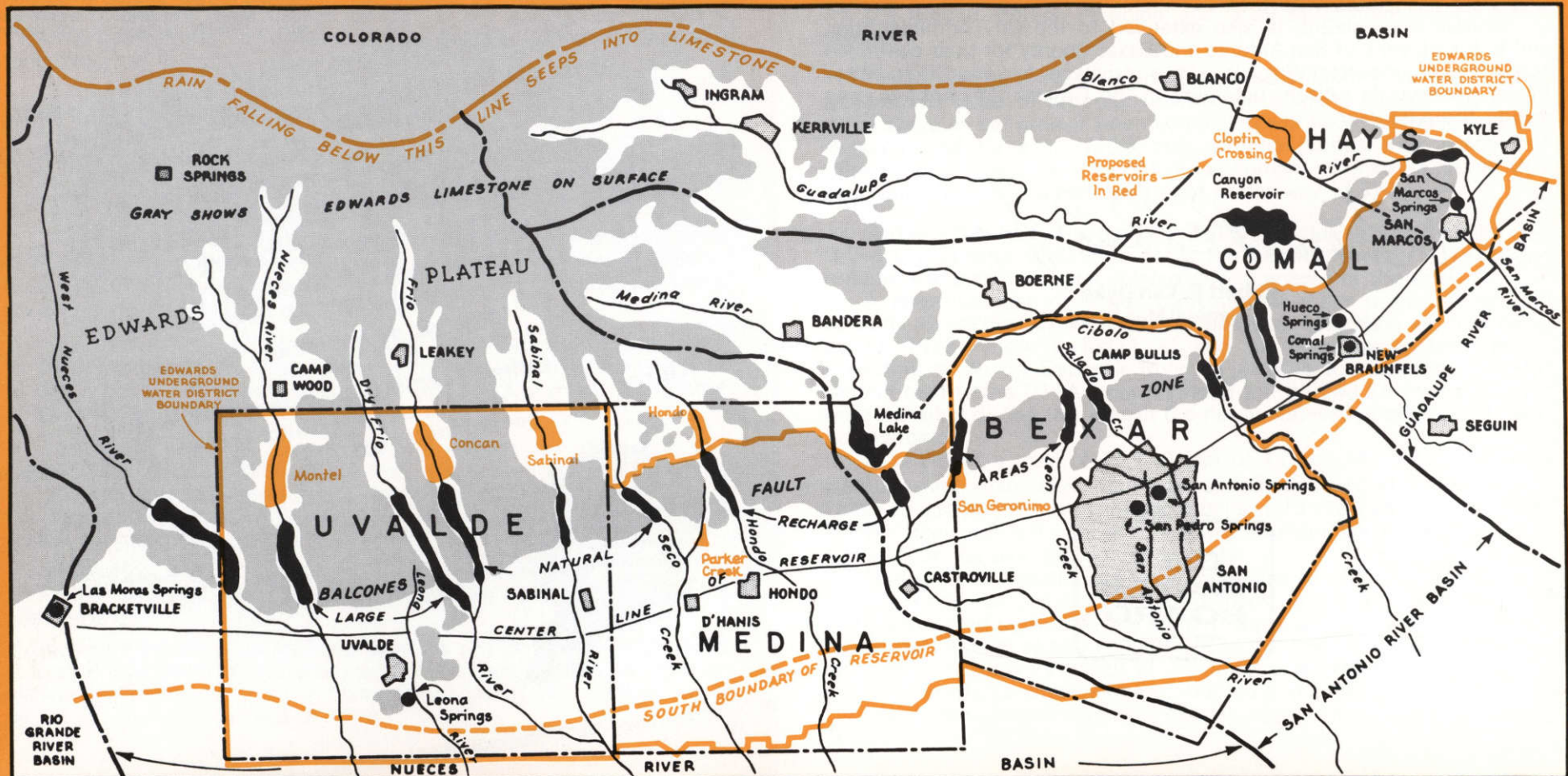
Known as the Edwards Underground Water Reservoir, this vast subterranean formation extends for more than 150 miles from Bracketville in Kinney County to Kyle in Hays County, and varies in width from 10 to 25 miles, as shown on map below. Historically, the Edwards has been the sole source of water for San Antonio and a score of other communities situated over the formation.

The reservoir is unique in that down through the years the water level, although dropping as low as 612 feet during periods of drought, almost

miraculously recharges itself during normal periods by seepage from streams and rain falling directly on honeycombed outcroppings above the formation.

The annual recharge has varied from as little as 100 thousand acre-feet per year to as much as 1,700 thousand acre-feet. Careful studies of the formation's recharge capabilities have now determined that the minimum "safe" annual yield from the reservoir on a sustained basis should not exceed 400 thousand acre-feet.

The City Water Board is considering as potential supplemental surface water sources for San Antonio the Guadalupe River, the Colorado River, the



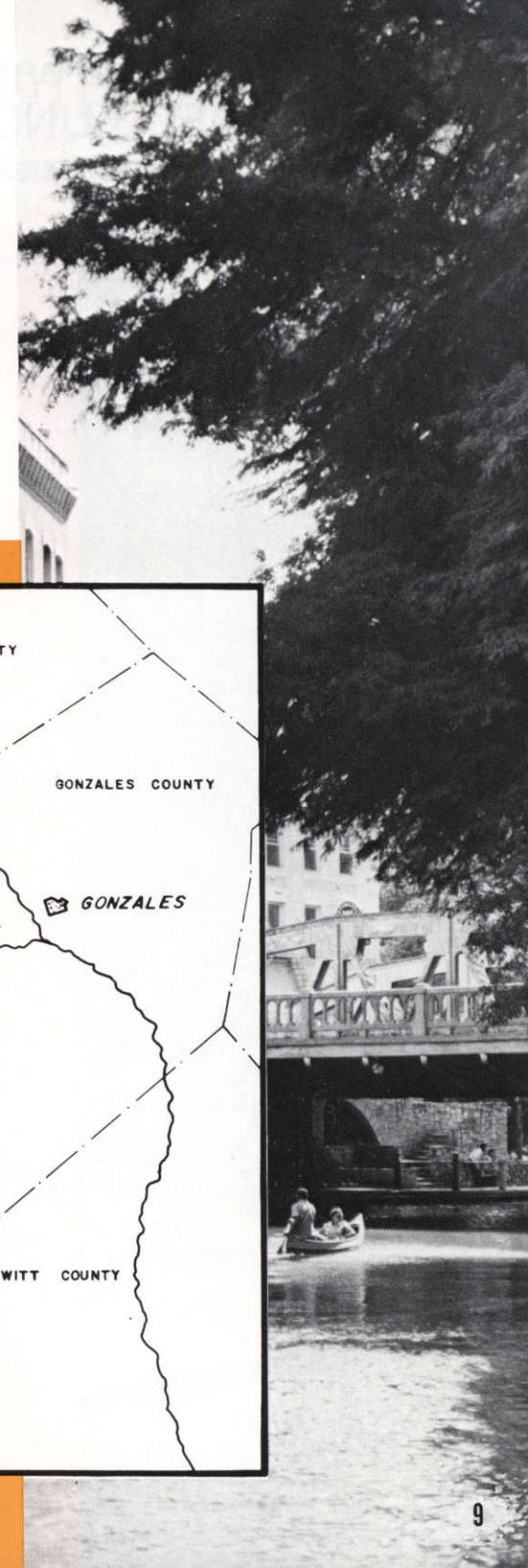
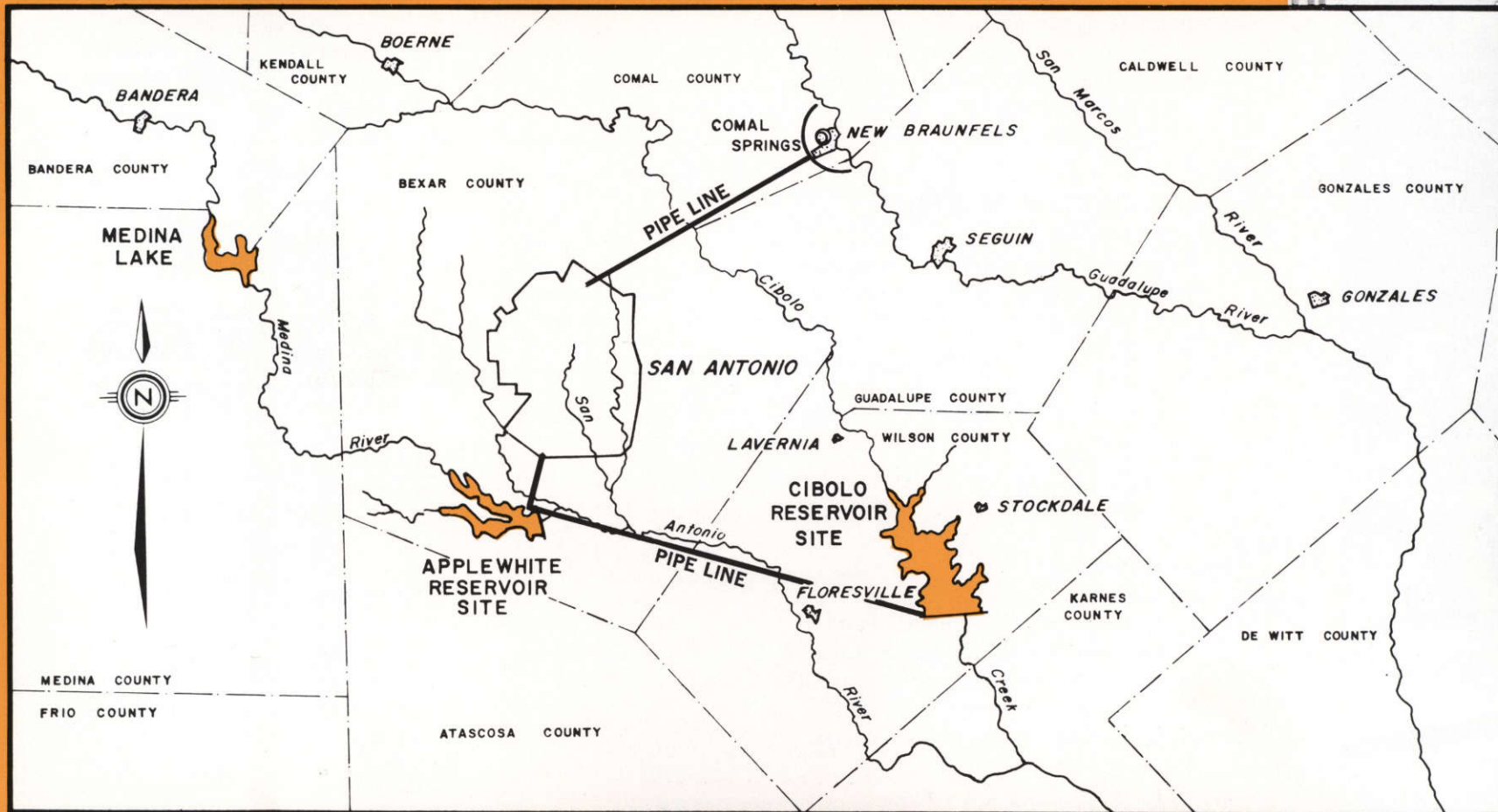
# WATER SUPPLY.

Applewhite Reservoir on the Medina River and the Cibolo Reservoir on Cibolo Creek. These potential sources are being evaluated individually from the standpoint of the cost of the water and its availability in sufficient quantity when required to meet the needs of our community. The Board's goal is to provide water at the most reasonable cost possible to San Antonio's citizens.

The Board and the San Antonio River Authority have worked together since 1970 investigating the feasibility of constructing the Applewhite and Cibolo

Reservoirs. Studied also by the Board as a source of supply is the Guadalupe River in the vicinity of New Braunfels with the water moved by pipeline to a contemplated surface water treatment plant in northeast San Antonio.

San Antonio's water supply presently requires only chlorination, but the Board plans to initiate a monitoring program which will detect any future change in the quality of Edward's water calling for additional treatment well in advance of its needs.



CITY WATER BOARD OF SAN ANTONIO  
**COMBINED FUNDS**

Statement of Revenues and Their Disposition Compared to Budget, Year Ended December 31, 1973



REVENUES	ACTUAL	BUDGETED
Operating revenues		
Metered water sales .....	\$11,215,059	\$11,754,000
Customers' penalties .....	323,213	343,000
Central heating and cooling sales .....	436,097	450,000
Fire protection charges .....	55,695	55,000
Other operating revenues .....	72,287	70,000
	<u>12,102,351</u>	<u>12,672,000</u>
Deduct services provided to the City of San Antonio .....	408,179	314,000
Total operating revenues .....	<u>11,694,172</u>	<u>12,358,000</u>
Non-operating revenues		
Interest on time deposits and investments .....	1,155,467	1,244,000
Unclassified non-operating revenues .....	19,136	2,000
Total non-operating revenues .....	<u>1,174,603</u>	<u>1,246,000</u>
<b>TOTAL REVENUES .....</b>	<b><u>\$12,868,775</u></b>	<b><u>\$13,604,000</u></b>
<b>DISPOSITION OF REVENUES</b>		
Operating expense		
Maintenance and Operation Fund expense .....	\$ 5,647,346	\$ 5,650,260
Working Capital Fund expense or (gain) .....	(77,078)	—
Data Processing Fund expense or (gain) .....	8,353	—
Depreciation .....	2,453,633	2,522,200
Loss (gain) on sale of assets .....	(78,726)	—
Total operating expense .....	<u>7,953,528</u>	<u>8,172,460</u>
Interest on bonds .....	1,500,101	1,758,782
Total expenses .....	<u>9,453,629</u>	<u>9,931,242</u>
<b>NET REVENUE .....</b>	<b><u>3,415,146</u></b>	<b><u>3,672,758</u></b>
Other requirements		
Retirement of bonds .....	1,173,333	1,173,333
Improvement and Contingency Fund		
Minimum of 15% of gross revenue .....	1,991,543	2,087,700
Reserve Fund Addition .....	358,741	417,525
	<u>3,523,617</u>	<u>3,678,558</u>
Additions to (deductions from) reserves .....	(108,471)	(5,800)
	<u>\$12,868,775</u>	<u>\$13,604,000</u>

The accompanying notes are an integral part of this statement.

CITY WATER BOARD OF SAN ANTONIO  
**COMBINED STATEMENT  
 OF CHANGES IN FINANCIAL POSITION**

YEAR ENDED DECEMBER 31, 1973



**FUNDS PROVIDED**

Net Revenue .....		\$ 3,415,146
Add Depreciation Expense Not Requiring Outlay of Working Capital .....		2,699,331
		<u>6,114,477</u>
Deduct Gain on Sale of Assets .....		78,726
Net Working Capital Provided from Operations .....		6,035,751
Increase in Long-Term Liability to the City of San Antonio .....		724,397
Increase in Contributions in Aid of Construction .....		2,740,036
Increase in Customer Deposits .....		97,872
Decrease in Reserve for Improvement and Contingency .....		791,187
Gain on Sale of Assets .....	\$ 78,726	
Book Value of Assets Disposed Of and Retired .....	81,389	160,115
Bond Issue — Series 1973:		
Bond Construction Fund .....	\$ 8,000,000	
Community Water Development Fund .....	6,000,000	14,000,000
Decrease in Working Capital .....		190,387
Total Funds Provided .....		<u>\$24,739,745</u>

**FUNDS APPLIED**

Additions to Utility Plant in Service .....	\$18,931,293	
Less Construction in Progress Capitalized .....	4,641,337	\$14,289,956
Retirement of Long-Term Indebtedness .....		1,152,666
Interest on Assumed Indebtedness (W.C.&I.D.'s) .....		42,974
Interest on Community Water Development Fund Bonds .....		212,508
Increase in Reserves:		
Retirement of Bonds and Interest .....	\$ 553,032	
Reserve for Bond Construction .....	3,564,697	
Reserve for Community Water Development .....	4,822,135	8,939,864
Increase in Deferred Charges .....		3,905
Increase in Time Deposits and Interfund Receivables .....		97,872
Total Funds Applied .....		<u>\$24,739,745</u>

**DECREASE IN WORKING CAPITAL**

Increase (Decrease) in Current Assets		
Cash .....	\$ (1,189,433)	
Receivables — Net .....	504,216	
Material and Supplies Inventory .....	105,551	
Prepaid Expense .....	(45,381)	
Interfund Receivables .....	(1,177,792)	\$(1,802,839)
Increase (Decrease) in Current Liabilities		
Current Maturities of Long-Term Debt .....	\$ 22,857	
Sewer Service Charges Payable .....	232,948	
Vouchers Payable .....	576,490	
Sundry Payables and Accruals .....	46,387	
Interfund Payables .....	(2,491,134)	(1,612,452)
Decrease in Working Capital .....		<u>\$ 190,387</u>

The accompanying notes are an integral part of this statement.

## COMBINED FUNDS BALANCE SHEET

DECEMBER 31, 1973 and 1972



ASSETS	1973	1972
<b>CURRENT ASSETS:</b>		
Cash .....	\$ 567,876	\$ 1,757,309
Accounts Receivable (Net) (Note B) .....	1,634,739	1,130,523
Materials and Supplies Inventory .....	692,303	586,752
Accrued Interest Receivable .....	53,536	53,536
Prepaid Expenses .....	50,125	95,506
Interfund Receivables (Note A) .....	2,030,675	3,208,467
Total Current Assets .....	<u>5,029,254</u>	<u>6,832,093</u>
Deferred Charges .....	<u>51,562</u>	<u>47,657</u>
<b>RESTRICTED ASSETS: (Note A)</b>		
Maintenance and Operation Fund (Note C)		
Cash-Customer Account Deposits .....	605,615	860,944
Pledge State Department of Public Welfare .....	240,000	240,000
Interfund Receivable .....	353,201	—
Interest and Sinking Fund — Cash (Note D) .....	1,130,932	934,082
Reserve Fund (Note F)		
Cash .....	433,708	—
Investment — Net .....	2,494,000	2,552,000
Improvement and Contingency Fund (Note E)		
Cash .....	3,458,250	2,778,600
Reimbursements Receivable .....	21,091	1,283
Interfund Receivable .....	125,092	1,475,138
Deferred Charges .....	47,593	44,000
Bond Construction Fund (Note H)		
Cash .....	9,065,000	6,154,000
Deferred Expenses .....	66,014	29,315
Interfund Receivable .....	598,467	361,419
Community Water Development Fund (Note G)		
Cash .....	5,589,113	—
	<u>24,228,076</u>	<u>15,430,781</u>
<b>UTILITY PLANT:</b>		
Utility Plant in Service (Note I) .....	107,545,004	102,317,066
Construction in Progress .....	12,631,662	4,693,753
	<u>120,176,666</u>	<u>107,010,819</u>
Less Accumulated Depreciation .....	25,884,430	24,227,819
	<u>94,292,236</u>	<u>82,783,000</u>
	<u>\$123,601,128</u>	<u>\$105,093,531</u>

Notes referred to above are covered in Notes to Financial Statements on pages 20 and 21.

**LIABILITIES, RESERVES, CONTRIBUTIONS AND RETAINED EARNINGS**

**CURRENT LIABILITIES:**

	1973	1972
Note Payable for Water Well .....	\$ —	\$ 4,600
Due City for Acquisition of Water District .....	39,193	11,736
Sewer Service Charges Due to City and Others .....	479,741	246,793
Vouchers Payable .....	958,485	381,995
Sundry Payables and Accruals .....	275,773	229,386
Interfund Payables (Note A) .....	1,716,662	4,207,796
	<u>3,469,854</u>	<u>5,082,306</u>

**LIABILITIES OF RESTRICTED FUNDS: (Note A)**

Maintenance and Operation Fund		
Customer Deposits .....	958,816	860,944
Improvement and Contingency Fund		
Advance for Construction .....	17,402	76,808
Maximum Refundable to Developers .....	120,952	87,521
Interfund Payable .....	623,727	453,560
Bond Construction Fund		
Interfund Payable .....	68	380,018
Revenue Bonds Payable Within One Year .....	1,215,000	1,090,000
Accrued Interest on Long Term Debt .....	320,932	207,415
Reserve Fund		
Interfund Payable .....	—	3,650
Community Water Development Fund		
Interfund Payable .....	766,978	—
	<u>4,023,875</u>	<u>3,159,916</u>

**LONG-TERM LIABILITIES: (Note J)**

Revenue Bonds Payable After One Year .....	42,475,000	29,690,000
Due to City For Acquisition of Water Districts .....	980,172	318,441
	<u>43,455,172</u>	<u>30,008,441</u>

**RESERVES:**

Retirement of Bonds and Interest .....	3,828,049	3,275,017
Construction .....	17,441,493	9,845,848
Pledge for Social Security Payments .....	240,000	240,000
	<u>21,509,542</u>	<u>13,360,865</u>
Contributions in Aid of Construction .....	24,421,421	21,681,385

**RETAINED EARNINGS:**

Invested in Working Capital .....	1,559,400	1,749,787
Invested in Plant and Other Assets .....	25,161,864	30,050,831
	<u>26,721,264</u>	<u>31,800,618</u>
	<u>\$123,601,128</u>	<u>\$105,093,531</u>



# COMBINED STATEMENT OF CHANGES IN RETAINED EARNINGS AND RESERVES



	RETAINED EARNINGS	RESERVES
<b>BALANCES, January 1, 1973</b>	<b>\$31,800,618</b>	<b>\$13,568,280</b>
<b>ADDITIONS and (deductions)</b>		
Total revenues .....	12,868,775	
Expenditures for plant additions by		
Improvement and Contingency Fund .....	7,745,755	(7,745,755)
Bond Fund .....	4,435,303	(4,435,303)
Community Water Development Fund .....	764,058	(764,058)
Bond principal retired by Interest and Sinking Fund .....	1,090,000	(1,090,000)
Contributions for construction by developers .....	(2,740,036)	2,740,036
Excess (deficiency) of billings over cost		
Working Capital Fund .....	77,078	
Data Processing Fund .....	(8,353)	
Gain on Sale of Fixed Assets .....	78,726	
Water Revenue Bond Issue — Series 1973 .....	(14,000,000)	14,000,000
Accrued interest on sale of bonds .....	—	46,173
	<u>\$42,111,924</u>	<u>\$16,319,373</u>
<b>(DEDUCTIONS) and additions</b>		
Operating expenditures .....	(5,647,346)	
Depreciation .....	(2,453,633)	
Interest on bonds .....	—	(1,645,265)
Interest on acquisition of plant .....	—	(42,974)
Fund transfers for requirements of restricted funds		
Interest and Sinking Fund .....	(2,673,434)	2,673,434
Reserve Fund .....	(358,741)	358,741
Improvement and Contingency Fund .....	(4,257,506)	4,257,506
Decrease in market value of investment .....	—	(90,341)
	<u>\$26,721,264</u>	<u>\$21,830,474</u>
<b>BALANCES, December 31, 1973</b>	<b>\$26,721,264</b>	<b>\$21,830,474</b>

The accompanying notes are an integral part of this statement.

CITY WATER BOARD OF SAN ANTONIO

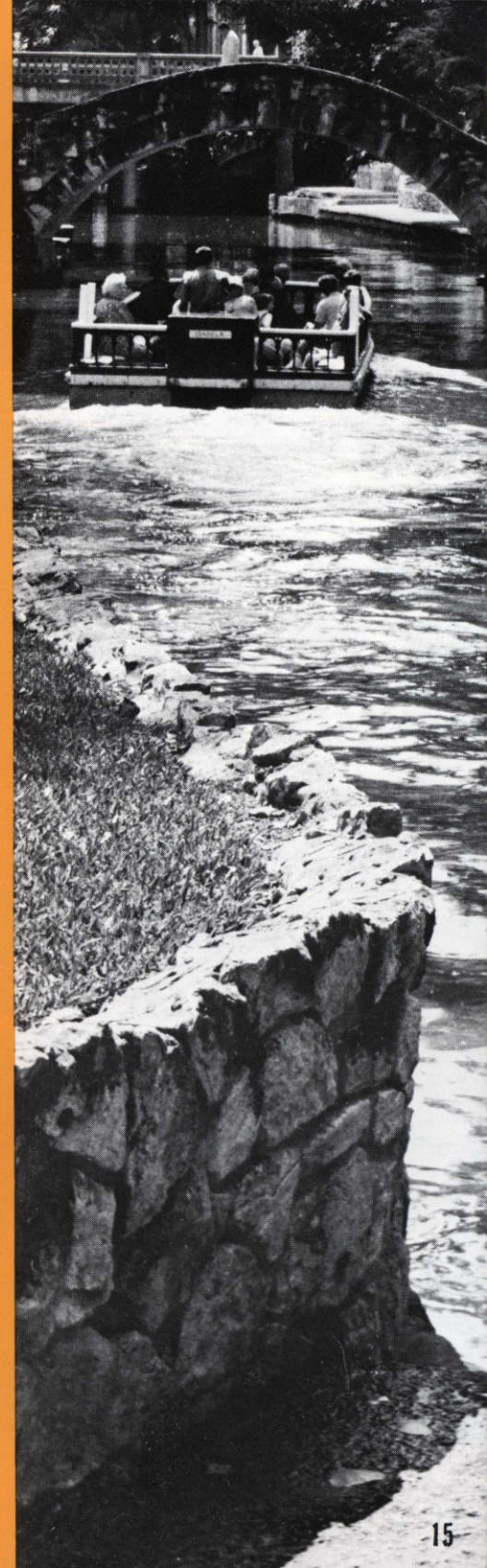


# SUMMARY OF DEBT CHARGES UNTIL MATURITY

	ANNUAL REQUIREMENTS TO RETIRE			Principal Balance Outstanding
	Total	Interest	Principal	
Balance 12-31-74				\$43,690,000
1974	\$ 3,116,519	\$ 1,901,519	\$ 1,215,000	42,475,000
1975	3,278,506	1,848,506	1,430,000	41,045,000
1976	3,250,278	1,790,278	1,460,000	39,585,000
1977	3,265,191	1,730,191	1,535,000	38,050,000
1978	3,272,180	1,667,180	1,605,000	36,445,000
1979	3,247,053	1,602,053	1,645,000	34,800,000
1980	3,244,975	1,534,975	1,710,000	33,090,000
1981	3,260,452	1,465,452	1,795,000	31,295,000
1982	3,332,205	1,392,205	1,940,000	29,355,000
1983	3,295,364	1,315,364	1,980,000	27,375,000
1984	3,305,131	1,235,131	2,070,000	25,305,000
1985	3,302,312	1,147,312	2,155,000	23,150,000
1986	3,307,188	1,052,188	2,255,000	20,895,000
1987	3,316,969	951,969	2,365,000	18,530,000
1988	3,286,219	846,219	2,440,000	16,090,000
1989	3,324,250	734,250	2,590,000	13,500,000
1990	3,216,150	616,150	2,600,000	10,900,000
1991	3,138,325	488,325	2,650,000	8,250,000
1992	3,051,900	351,900	2,700,000	5,550,000
1993	2,962,925	212,925	2,750,000	2,800,000
1994	2,871,400	71,400	2,800,000	None
	<u>\$67,645,492</u>	<u>\$23,955,492</u>	<u>\$43,690,000</u>	

## REVENUE BOND COVERAGE AS DEFINED BY REVENUE BOND ORDINANCE

Calendar Year	Revenues	Operating expenses as defined by the revenue bond ordinances	Revenue available for debt service and other requirements	Average annual debt service requirements	Times debt service
1963	\$ 7,782,993	\$2,916,476	\$4,866,517	\$1,204,842	4.04
1964	7,022,655	2,851,610	4,171,045	1,208,741	3.45
1965	6,934,183	2,837,848	4,096,335	1,213,321	3.38
1966	6,977,093	2,872,291	4,104,802	1,217,591	3.37
1967	9,492,767	2,987,686	6,505,081	1,599,318	4.07
1968	9,119,056	3,409,385	5,709,671	1,593,885	3.58
1969	9,479,574	3,863,165	5,616,409	1,587,721	3.54
1970	9,970,966	4,343,638	5,627,328	1,577,298	3.57
1971	11,924,401	5,028,557	6,895,844	2,417,539	2.85
1972	11,071,491	5,348,196	5,723,295	2,432,264	2.35
1973	12,868,775	5,578,621	7,290,154	3,199,125	2.28





Various programs are available to City Water Board employees to help them develop new skills, greater job opportunities and personal advancement.

Upper left — a video tape recorder helps (from left) Richard Gonzales, Martin Sojourner, Henry Scarnato and John Obadal learn new techniques in meter maintenance and repair.

Center left — Paul Garza teaches a course in defensive driving enabling employees to qualify for a 10 per cent reduction of their auto insurance premiums.

Below left — Larry McMahan participates in a class on improving writing skills.

Below — Osmond Brynie (left) receives the congratulations of fellow employees Henry H. Bell (center) and Dino Rangel for earning his class "A" water utility operator's certificate. With 148 certified operators in Classes A, B and



C, the City Water Board has a higher percentage of certified operators than any other city in Texas.

Upper right — Developed by the City Water Board's Consolidated Processing Center, the Bexar County/San Antonio Criminal Justice Information System goes "on line". Viewing the new system are (from left) San Antonio Police Chief Emil Peters, Sheriff W. B. (Bill) Hauck, CWB General Manager Robert P. Van Dyke and Police Lt. J. W. Hardy.

Below right — Negotiations were initiated in 1973 for the San Antonio Junior Chamber of Commerce to take over the famed Yturri House located on City Water Board land as JC Headquarters and also as tourist attraction and information center.

Below — New pay-by-mail return envelopes in special Customer Packets were introduced by the Board in 1973 and met with enthusiastic customer approval. Examining the first mailing of the packets are (from left) Sylvia Guzman, Sandra Holmes and Cynthia Whistler.





CITY WATER BOARD OF SAN ANTONIO

FIXED ASSETS AND ALLOWANCES FOR DEPRECIATION

UTILITY PLANT

	BALANCES 1-1-73	ADDITIONS	DEDUCTIONS
Land .....	\$ 903,549	\$ -0-	\$ -0-
Structures and improvements .....	12,546,492	490,925	72,213
Pumping equipment .....	4,593,248	196,539	-0-
Purification equipment .....	135,524	9,490	13,616
Distribution mains and accessories .....	57,061,982	3,398,407	404,555
Services .....	9,951,813	872,632	83,123
Meters .....	6,966,805	569,706	364,699
Hydrants .....	2,309,401	229,201	10,656
Office furniture and equipment .....	319,238	40,832	19,086
Miscellaneous equipment .....	437,169	57,057	-0-
	<u>95,225,221</u>	<u>5,864,789</u>	<u>967,948</u>
Central Heating and Cooling Plant:			
Land, structures and improvements .....	1,770,950	-0-	-0-
Heating and cooling equipment .....	1,754,339	-0-	-0-
Mains and metering devices .....	1,548,763	4,818	-0-
Furniture and equipment .....	324,290	-0-	-0-
	<u>5,398,342</u>	<u>4,818</u>	<u>-0-</u>
Working Capital Fund—equipment and vehicles .....	1,505,687	518,965	207,543
Data Processing equipment .....	187,816	15,181	324
Revenue Construction in progress .....	3,017,751	7,253,306	3,527,566
Bond construction in progress .....	1,676,002	4,561,882	1,113,771
Community Water Development construction in progress .....	-0-	764,058	-0-
	<u>6,387,256</u>	<u>13,113,392</u>	<u>4,849,204</u>
	<u>\$107,010,819</u>	<u>\$18,982,999</u>	<u>\$5,817,152</u>

Note: At the time of retirement of property, the allowance for depreciation is charged with the original cost of the property and the cost of removal.

JANUARY 1, 1973 to DECEMBER 31, 1973

ALLOWANCES FOR DEPRECIATION

BALANCES 12-31-73	BALANCES 1-1-73	ADDITIONS	DEDUCTIONS	BALANCES 12-31-73	BOOK VALUE	YEARS OF LIFE
\$ 903,549	\$ -0-	\$ -0-	\$ -0-	\$ -0-	\$ 903,549	—
12,965,204	2,590,114	256,211	72,204	2,774,121	10,191,083	50
4,789,787	963,232	93,873	-0-	1,057,105	3,732,682	25-50
131,398	135,524	475	13,617	122,382	9,016	10
60,055,834	11,006,570	1,167,267	291,257	11,882,580	48,173,254	50
10,741,322	3,914,232	411,774	103,939	4,222,067	6,519,255	25
7,171,812	3,402,334	280,792	383,756	3,299,370	3,872,442	25
2,527,946	281,830	48,089	15,387	314,532	2,213,414	50
340,984	168,868	16,609	14,739	170,738	170,246	20
494,226	215,562	22,592	-0-	238,154	256,072	10
<u>100,122,062</u>	<u>22,678,266</u>	<u>2,297,682</u>	<u>894,899</u>	<u>24,081,049</u>	<u>76,041,013</u>	
1,770,950	140,666	31,306	-0-	171,972	1,598,978	0-50
1,754,339	315,238	70,174	-0-	385,412	1,368,927	25
1,553,581	122,792	33,101	-0-	155,893	1,397,688	25-50
324,290	95,119	21,370	-0-	116,489	207,801	15-20
<u>5,403,160</u>	<u>673,815</u>	<u>155,951</u>	<u>-0-</u>	<u>829,766</u>	<u>4,573,394</u>	
1,817,109	849,794	225,049	147,569	927,274	889,835	3-10
202,673	25,944	20,649	252	46,341	156,332	5-20
6,743,491	-0-	-0-	-0-	-0-	6,743,491	—
5,124,113	-0-	-0-	-0-	-0-	5,124,113	—
764,058	-0-	-0-	-0-	-0-	764,058	—
<u>14,651,444</u>	<u>875,738</u>	<u>245,698</u>	<u>147,821</u>	<u>973,615</u>	<u>13,677,829</u>	
<u>\$120,176,666</u>	<u>\$24,227,819</u>	<u>\$2,699,331</u>	<u>\$1,042,720</u>	<u>\$25,884,430</u>	<u>\$94,292,236</u>	



# NOTES TO FINANCIAL STATEMENTS December 31, 1973

## NOTE A — SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The fund structure of accounting is required under City Ordinance No. 24819 of April 4, 1957. It specifically requires the use of a System Fund, Maintenance and Operation Fund, Interest and Sinking Fund, Reserve Fund, Improvement and Contingency Fund, and a Surplus Fund. The fund names specified in Ordinance 24819 have been used in this report.

In addition to these funds, the City Water Board has added other funds which are used for internal management purposes. These funds are the Working Capital Fund, Data Processing Fund, Bond Fund, Community Water Development Fund and Central Heating and Cooling Plant Fund. The latter fund is combined with the Maintenance and Operation Fund in these statements.

The accounting for all funds is on the accrual basis.

The principles followed in combining the funds for the combined funds balance sheet consist of combining the assets and liabilities of all the funds into two categories of restricted funds and nonrestricted funds. Interfund receivable and payable accounts are not offset in this statement.

The City Water Board has consistently expensed interest charges during construction of plant additions.

## NOTE B — ACCOUNT RECEIVABLE — CITY OF SAN ANTONIO

It has been the practice of the City Water Board to charge the City of San Antonio for water sales as required by the bond ordinance. The City Water Board subsequently writes off this account if the requirements of the bond ordinance funds are met.

## NOTE C — MAINTENANCE AND OPERATION FUND

The bond ordinance requires that on or before the 10th day of each month while any bonds are outstanding, there shall be withdrawn from the System Fund and deposited in this fund an amount of money estimated by the Board to be sufficient to pay reasonable expenses of operation and maintenance of the System for the next succeeding month.

## NOTE D — INTEREST AND SINKING FUND

The bond ordinance requires that on or before the 10th day of each month and thereafter until paid, the Board of Trustees shall withdraw from the System Fund, and deposit in the Interest and Sinking Fund, an amount of money not less than the total of: 1/12th of the next

maturing installment of principal of the bonds outstanding payable from the revenues of the System and; 1/6th of the next semi-annual installment of interest on the bonds outstanding. The monies shall be used solely for the purpose of paying interest and principal of the bonds. When the total amount of money in this fund is equal to the aggregate principal amount of the bonds outstanding, plus all unpaid coupons pertaining thereto, no further payments need be made into the Interest and Sinking Fund.

## NOTE E — IMPROVEMENT AND CONTINGENCY FUND

The bond ordinance requires that after all of the requirements have been met for the Maintenance and Operation Fund, Interest and Sinking Fund and Reserve Fund, the Board shall transfer from the System Fund to this fund to the extent money is available a sum equal to not less than 15% of the gross revenue of the System which may be used for the following purposes: (a) extensions and improvements to the System, (b) to meet contingencies of any kind in connection with the operation and maintenance of the System and (c) the payment of interest or principal, or both, of bonds when other funds of the Board are insufficient for such purpose. After setting aside of said minimum amount of 15% of gross revenues in this fund, there shall be paid out of the monies remaining in the System Fund after the end of each operating year to the General Fund of the City or to such other fund of the City as the Council may direct, a sum sufficient to reimburse the City for all money which has been paid by the City to the Board during such year for services rendered by the Board to the City for municipal purposes during such operating year.

## NOTE F — RESERVE FUND

The bond ordinance requires that there shall be deposited monthly into the Reserve Fund an amount equal to an amount not less than 20% of the amounts so deposited in the Interest and Sinking Fund until there has been accumulated in the Reserve Fund an amount of money equal to the highest total amount of principal and interest to become due in any future twelve months period on all bonds outstanding. As the result of the water revenue bond issue — Series 1973 in the amount of \$14,000,000.00, the mandatory requirements for the reserves for the retirement of bonds and interest in the Reserve Fund increased in the amount of \$693,514.00. Of this amount, \$379,358.00 of funds were transferred in 1973 and \$314,156.00 of funds are to be transferred subsequent to 1973.

## NOTE G — COMMUNITY WATER DEVELOPMENT FUND

In 1973, the City Water Board created a separate revolving fund entitled the "Community Water Development Fund" to be used for financial participation of the Board with Single-Customers and Developer-Customers in the construction of water main extensions in accordance with the Board's then current regulations for Water Service, System Extension and Service Line Installation to the extent funds were avail-

able. The Fund was initially funded by \$6,000,000.00 of the 1973 bond issue of \$14,000,000.00 and additional water revenue bond issues may be required in the future to maintain the integrity of the Fund. The added requirements of the Reserve Fund and interest charges during the first three years on the \$6,000,000.00 bond proceeds are to be borne by the Fund.

#### NOTE H— BOND FUND

These are the unexpended funds of the water revenue bond issues — Series 1971 and Series 1973.

#### NOTE I— UTILITY PLANT IN SERVICE

Fixed assets acquired by the City Water Board through contributions, such as from land developers, are capitalized and recorded in the plant records.

All depreciation is on a straight-line method. Useful lives are reflected in statements included with this report.

#### NOTE J— BONDS PAYABLE

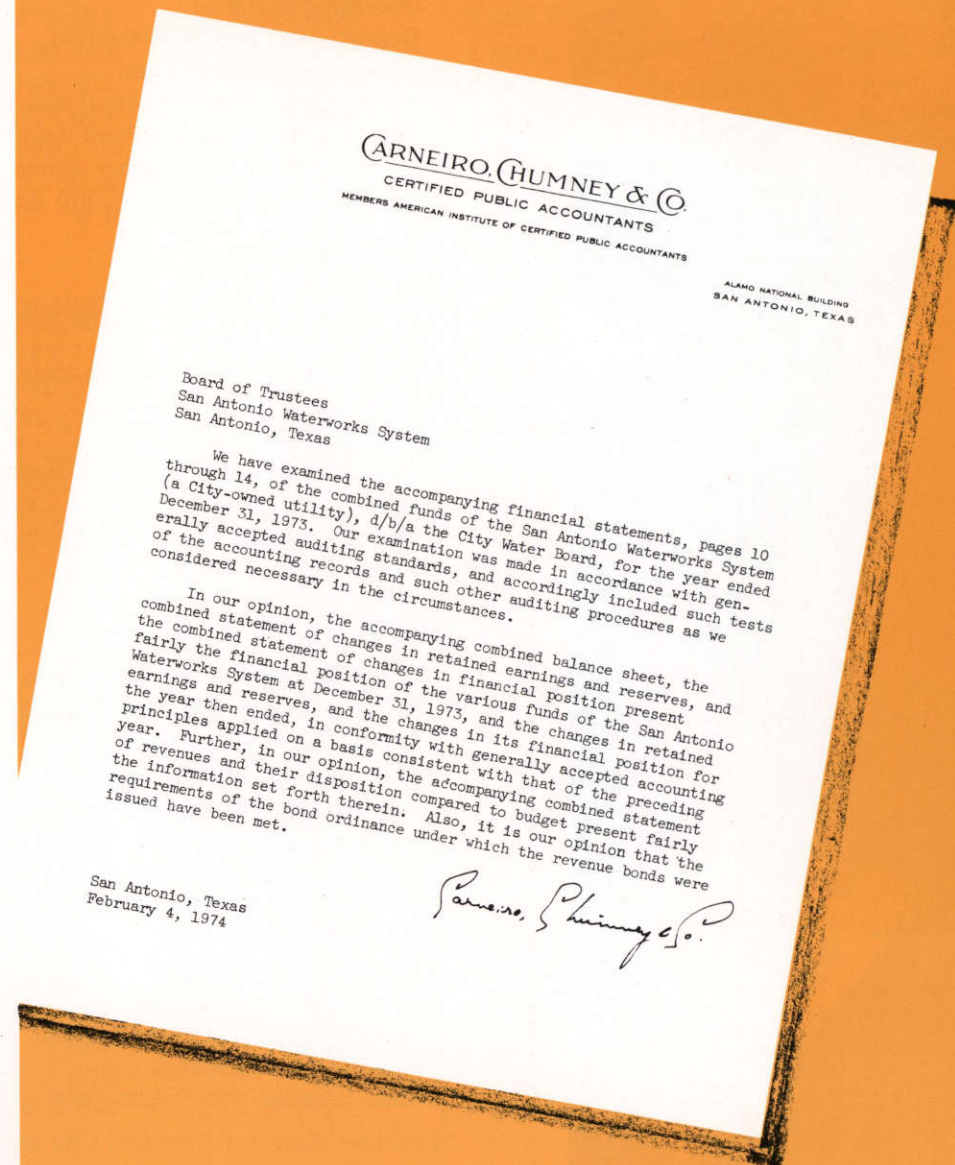
These bonds are secured by an irrevocable first lien on and pledge of the income and revenues derived and to be derived from the operation of the System after deduction therefrom of the amount necessary to pay all operating, maintenance, replacement and betterment charges of the System as required by applicable statutes of the State of Texas.

The System is also required to maintain rates sufficient (a) to pay all maintenance, depreciation, replacement, betterment and interest charges and (b) to establish and maintain the Interest and Sinking Fund and the Reserve Fund and (c) to pay in addition all outstanding indebtedness against the System other than bonds as and when due and (d) to provide for the payments into the Improvement and Contingency Fund.

#### NOTE K— PENSION AND RETIREMENT PLANS

The City Water Board's Retirement Program includes benefits provided by Social Security and the Texas Municipal Retirement System (T.M.R.S.) supplemented by a contract (GA 5477) with Bankers Life Company. Provision of the program apply to regular full time employees after six months of service. The Bankers Life portion of the plan has a Spouses Annuity provision (GA 7999) to cover employees with ten years service or more who have been married one year or more.

The total pension expense for the year was \$145,551, which includes as to certain of the plans, amortization deposits of prior service costs over a period of twelve to twenty years. The actuarially computed value of vested benefits as of December 31, 1973 was not determinable.



# FINANCIAL AND STATISTICAL INFORMATION



## OPERATING RESULTS

	1973	1972	1971
Total Revenue*	\$ 12,868,775	\$ 11,071,491	\$ 11,924,401
Operating Expense	5,578,621	5,348,196	5,028,557
Depreciation and Amortization	2,453,633	2,309,440	2,168,666
Interest on Bonded Debt	1,712,609	1,258,065	1,190,475
Provision for Bond Principal and Reserve	1,532,074	1,128,508	1,675,320
Revenue Available for Plant Additions	\$ 1,591,838	\$ 1,027,282	\$ 1,861,383
Revenue Per 1,000 Gallons Pumped — Cents	35.1	28.0	29.3
Operating Expense Per 1,000 Gallons Pumped — Cents	15.2	13.5	12.3

## FINANCIAL DATA

Expenditures for Plant Additions	\$ 12,945,116	\$ 7,300,742	\$ 6,313,329
Total Utility Plant	120,176,666	107,010,819	100,651,576
Accumulated Allowances for Depreciation	25,884,430	24,227,819	23,065,483
Inventory	692,303	586,752	576,102
Bonded Debt	43,690,000	30,780,000	31,845,000
Municipal Equity (including Reserves)	72,652,227	66,842,868	62,874,316
Total Revenue less Operating Expense	7,290,154	5,723,295	6,895,844
Average Annual Debt Requirements	\$ 3,199,125	\$ 2,432,264	\$ 2,417,539
Times Debt Coverage	2.28	2.35	2.85

## OTHER STATISTICS

Water Pumped — Million Gallons	36,699	39,476	40,745
Metered Usage — Million Gallons	34,359	33,003	35,005
Annual Rainfall — Inches	52.28	31.48	31.80
Customers at End of Year	158,033	154,513	151,200
Average Use Per Customer — Thousands of Gallons	217.4	213.6	231.4
Average Revenue Per Customer	\$ 81.43	\$ 71.65	\$ 78.87
Miles of Main Installed	102.54	78.58	72.70
Miles of Main Replaced and Abandoned	25.25	22.92	19.82
Miles of Main in Place	2,167.35	2,090.06	2,034.40
New Services Installed	7,503	4,797	5,423
Fire Hydrants Installed	362	329	282
Fire Hydrants in Place	9,038	8,676	8,347
Number of Employees	682	642	608
Total Salaries and Wages Paid	\$ 4,991,929	\$ 4,512,077	\$ 4,007,117

\*Excludes Services Provided City of San Antonio  
Which Amounted To

	\$ 408,179	\$ 309,946	\$ 303,712
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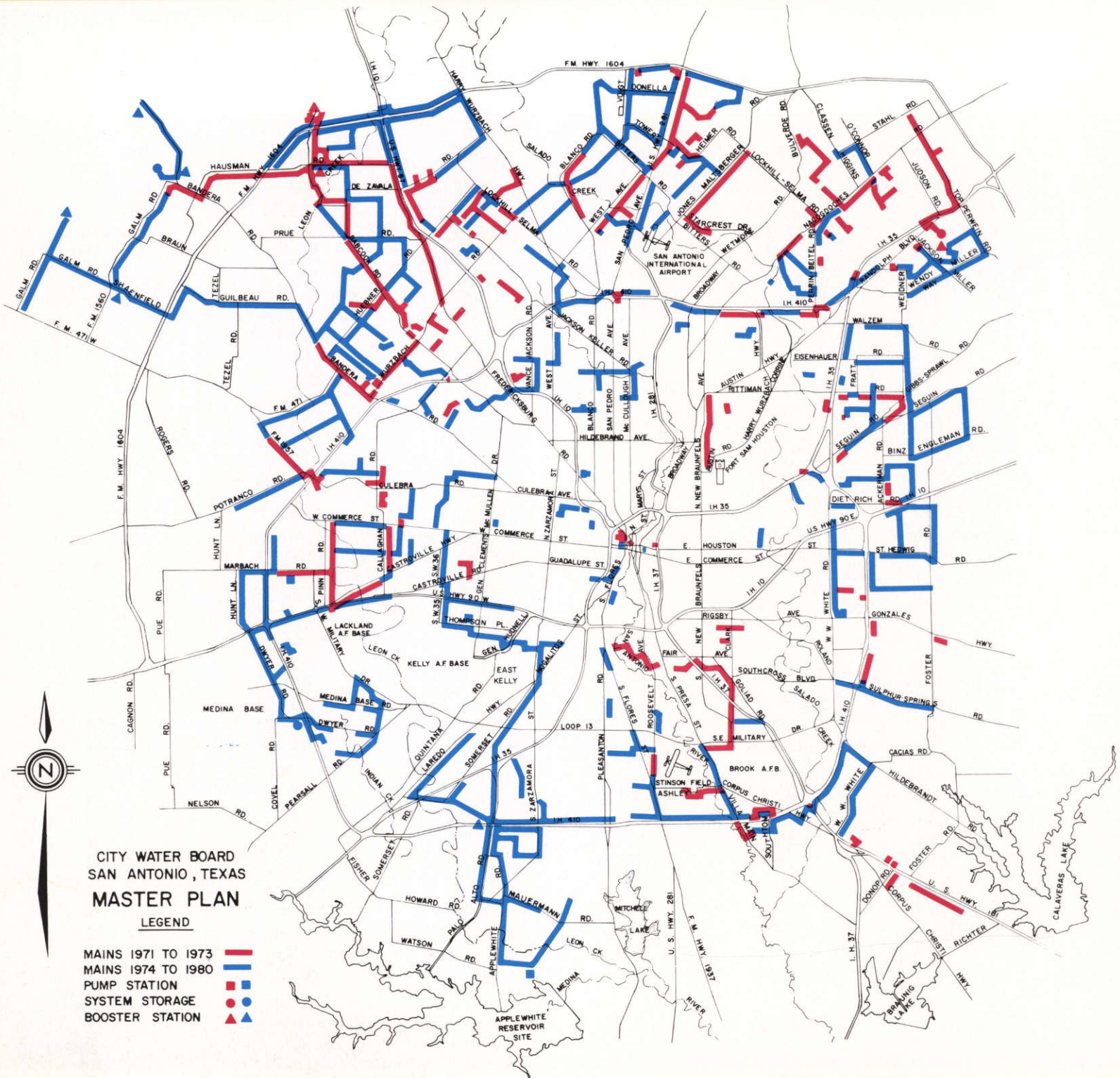
1970	1969	1968	1967	1966	1965	1964	1963
\$ 9,970,966	\$ 9,479,574	\$ 9,119,056	\$ 9,492,768	\$ 6,977,094	\$ 6,934,184	\$ 7,022,656	\$ 7,782,993
4,343,638	3,863,165	3,409,385	2,987,687	2,872,292	2,837,848	2,851,611	2,916,476
2,082,923	1,995,885	1,819,214	1,668,810	1,590,363	1,495,754	1,393,805	1,309,439
870,955	905,717	939,431	969,432	785,302	774,788	792,487	808,803
783,418	1,192,245	858,334	1,026,094	807,961	619,551	521,831	513,094
\$ 1,890,032	\$ 1,522,562	\$ 2,092,692	\$ 2,840,745	\$ 921,176	\$ 1,206,243	\$ 1,462,922	\$ 2,235,181
28.8	28.0	29.6	27.2	23.6	24.1	23.7	23.9
12.5	11.4	11.1	8.6	9.7	9.9	9.6	9.0
\$ 4,312,835	\$ 6,068,765	\$ 6,512,713	\$ 8,208,918	\$ 4,566,969	\$ 5,083,408	\$ 4,996,017	\$ 4,554,048
94,542,414	90,492,550	84,804,487	78,929,855	71,347,711	67,614,106	63,534,640	59,230,517
21,160,443	19,405,427	17,907,237	16,640,528	15,485,257	14,755,150	14,143,130	13,279,767
458,533	475,240	467,888	363,657	355,344	402,525	311,353	382,953
22,795,000	23,705,000	24,600,000	25,385,000	26,135,000	20,885,000	21,218,000	21,517,000
57,409,423	53,868,335	49,325,945	45,476,898	40,850,355	37,756,828	34,815,490	32,013,349
5,627,328	5,616,409	5,709,671	6,505,081	4,104,802	4,096,336	4,171,045	4,866,517
\$ 1,577,298	\$ 1,587,721	\$ 1,593,885	\$ 1,599,318	\$ 1,217,591	\$ 1,213,322	\$ 1,208,741	\$ 1,204,843
3.57	3.54	3.58	4.07	3.37	3.38	3.45	4.04
34,633	33,829	30,758	34,868	29,538	28,721	29,631	32,549
31,553	29,608	26,365	30,402	24,768	25,430	25,577	28,861
22.74	31.42	30.39	29.26	21.44	36.65	31.88	18.65
148,452	146,089	144,335	141,138	138,498	136,902	134,724	132,181
212.5	202.7	182.7	215.4	178.8	185.8	189.8	220.7
\$ 67.17	\$ 64.88	\$ 63.17	\$ 67.26	\$ 50.38	\$ 50.65	\$ 52.13	\$ 58.88
45.95	69.14	75.46	48.14	93.40	86.82	95.76	66.91
22.38	26.88	30.28	25.72	41.25	51.85	52.88	18.83
1,981.52	1,957.95	1,915.68	1,870.50	1,848.07	1,795.92	1,760.95	1,718.07
2,914	3,136	3,441	3,126	3,310	3,534	3,192	3,237
161	228	415	281	435	574	508	307
8,065	7,904	7,676	7,381	7,207	6,879	6,563	6,279
589	568	557	536	537	527	532	536
\$ 3,609,922	\$ 3,226,248	\$ 2,903,808	\$ 2,599,033	\$ 2,378,744	\$ 2,330,274	\$ 2,220,369	\$ 2,124,314
\$ 290,907	\$ 309,363	\$ 288,041	\$ 268,705	\$ 194,749	\$ 200,619	\$ 197,129	\$ 189,119



CITY WATER BOARD  
SAN ANTONIO, TEXAS  
MASTER PLAN

LEGEND

- MAINS 1971 TO 1973 —
- MAINS 1974 TO 1980 —
- PUMP STATION ■
- SYSTEM STORAGE ● ●
- BOOSTER STATION ▲ ▲



# PLANNING FOR THE FUTURE

**P**redicting San Antonio's growth with any degree of accuracy is a hazardous occupation at best, but such projections must be arrived at if the City Water Board is to meet adequately and on time the future needs of its citizens.

The City Water Board's Master Plan is a thoroughly researched, well-grounded 25-year program for water works improvements, which is revised every five years to meet significant changes in San Antonio's growth and development.

The Master Plan is based on estimated population projections for San Antonio of 890,000 by 1980; 1,050,000 by 1990 and 1,200,000 by the year 2000. The present plan was updated in 1971, and is scheduled to be revised again in 1975 projecting water works improvements into the 21st century.

Patterns of growth are studied, and such factors as the University of Texas at San Antonio, Federal Housing programs and the continued expansion of major highways in and around the city are considered to determine where future growth can be expected.

Although the City has expanded in every direction, greater growth has been experienced in the northern half of the study area, and this pattern is expected to continue, according to findings of the Master Plan.

Capital improvements programs are authorized by the Water Works Board of Trustees based on the Master Plan. During 1974, for example, the Board authorized expenditures for capital improvements

totaling \$3,620,000. The approved 1974 program as well as proposed projects through 1980 are shown in blue on the Master Plan map on the opposite page.

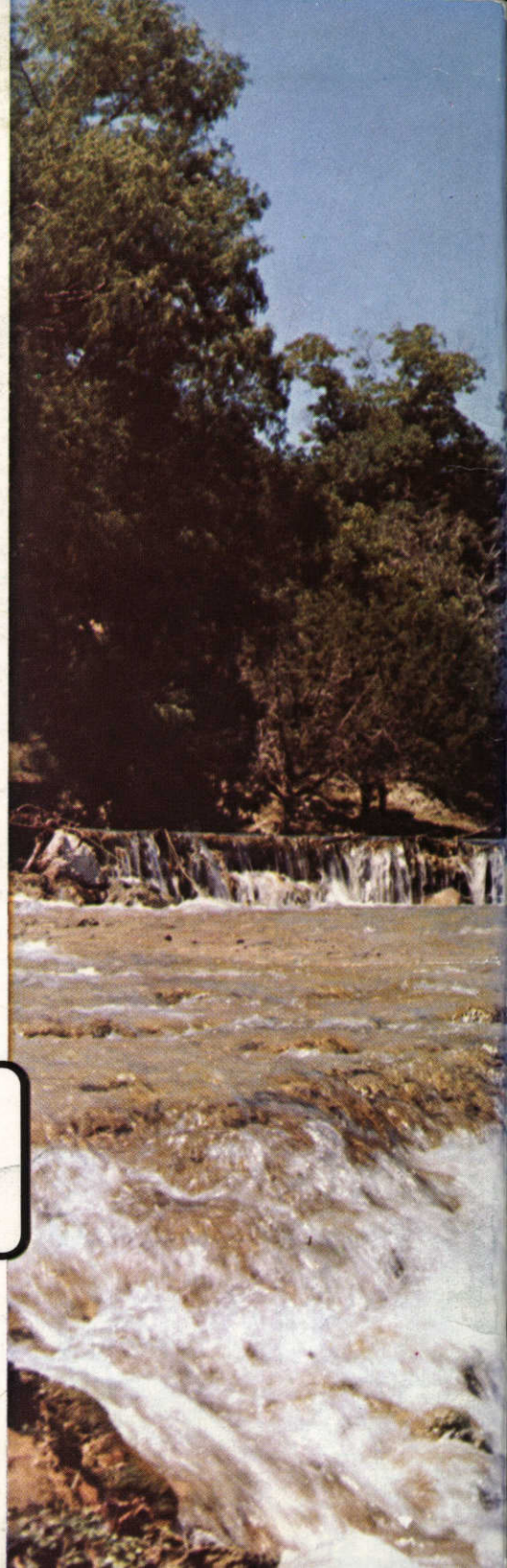
Significant projects in the 1974 program include construction of 24 and 30 inch water transmission mains extending from the University of Texas to the Helotes area. The program also includes construction of the Marbach pump station, near Marbach Road and Loop 410 and the Helotes Ranch reservoir and booster station.

Proposed capital improvements for 1975 call for expenditures of \$5,294,750 of which \$4,169,750 will be required for major transmission mains and an estimated \$1,125,000 for completing the Marbach pump station. The 1975 program provides for the construction of approximately 40 miles of water transmission lines, varying from 12 to 42 inches in size.

Capital improvements for the five-year period following 1975 will approximate \$60,000,000 of which \$40,000,000 will be spent for major transmission and distribution mains and the balance for production facilities such as wells, pumps and reservoirs, all noted in blue on the Master Plan map.

While always subject to change, the Master Plan already has taken into consideration San Antonio's need for surface water. Capital improvements for 1979 and 1980 call for expenditures of approximately \$25,000,000 for this purpose.





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