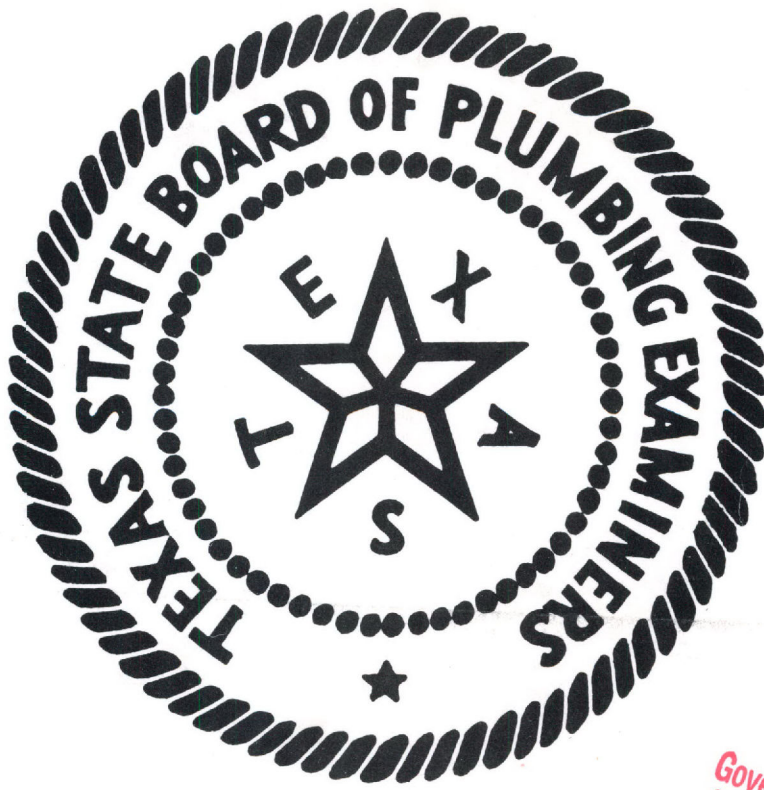


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ANNUAL REPORT

1986

Austin, Texas

ANNUAL REPORT

TEXAS STATE BOARD

OF

PLUMBING EXAMINERS

Austin, Texas

Year ended August 31, 1986

LYNN BROWN
ADMINISTRATOR

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TEXAS STATE BOARD OF PLUMBING EXAMINERS

929 EAST 41ST STREET
P. O. BOX 4200
AUSTIN, TEXAS 78765
512/458-2145

LYNN BROWN
ADMINISTRATOR

E. L. SMITH
CHAIRMAN
SAN ANTONIO

EDWARD A. TSCHOEPE
VICE-CHAIRMAN
SAN ANTONIO

WILLIAM G. WHEELER
SECRETARY
VICTORIA

STANLEY J. BRIERS
MEMBER
SEABROOK

J. L. DRYMALLA
MEMBER
COLUMBUS

W. D. "BILL" PICKENS
MEMBER
HOUSTON

MARIO ESTRADA
MEMBER
SAN ANTONIO

JOE W. CAMPBELL
MEMBER
PASADENA

RONALD G. GOODNIGHT
MEMBER
KILLEEN

December 1, 1986

Mr. Lawrence F. Alwin, CPA
State Auditor
Room 409, J. H. Reagan Building
P. O. Box 12067
Austin, Texas 78711

Dear Mr. Alwin:

As required by House Bill 20, Regular Session, 69th
Legislature, we hereby submit the Annual Report as of
August 31, 1986, for the Texas State Board of Plumbing
Examiners.

Yours truly,

A handwritten signature in cursive script that reads "Lynn Brown".

Lynn Brown, Administrator

LB:m11

B O A R D M E M B E R S

<u>NAME</u>	<u>TITLE</u>	<u>CITY</u>
E. L. SMITH	CHAIRMAN	SAN ANTONIO
EDWARD A. TSCHOEPE	VICE-CHAIRMAN	SAN ANTONIO
WILLIAM G. WHEELER	SECRETARY	VICTORIA
STANLEY J. BRIERS	MEMBER	SEABROOK
J. L. DRYMALLA	MEMBER	COLUMBUS
MARIO ESTRADA	MEMBER	SAN ANTONIO
RONALD G. GOODNIGHT	MEMBER	KILLEEN
JOE W. CAMPBELL	MEMBER	HOUSTON
W. D. "BILL" PICKENS	MEMBER	HOUSTON

LYNN BROWN

ADMINISTRATOR

STAFF MEMBERS

DONALD A. NELSON

CHIEF EXAMINER

C. W. LINDLEY

CHIEF FIELD REPRESENTATIVE

VIOLA EKENSTAM

ACCOUNTANT

ADMINISTRATION

The Texas State Board of Plumbing Examiners was created by the 50th Legislature, Regular Session and became effective 90 days after June 6, 1947. It was amended by the 67th Legislature, Regular Session, as a result of the Sunset Review process and continued in existence until 1993. It may be cited as "The Plumbing License Law".

The Board's purpose is twofold: (1) to protect the public health through an efficient and equitable system of licensing; (2) to administer a uniform examination to all persons who qualify and desire to be plumbers by providing a fair and equal opportunity to practice their trade.

Today it is common knowledge that diseases can be transmitted and spread by water. Public health officials have strongly supported licensing and minimum plumbing codes as a deterrent to the spread of water borne diseases such as typhoid fever, diarrhea, cholera, amoebic and bacillary dysentary. The relationship between properly designed and installed plumbing systems and the public health is an established fact.

The Board is composed of nine members, all appointed by the Governor and confirmed by the Senate. Membership consists of one Plumbing Contractor; one Master Plumber; one Journeyman Plumber; one Plumbing Inspector; one Sanitary Engineer; one Home Builder; one Commercial Builder; and two Public Members. The Board had full membership as of the close of this report.

<u>NAME</u>	<u>CITY</u>	<u>REPRESENTATION</u>	<u>TERM EXPIRES SEPTEMBER 5</u>
Edward Lee Smith Chairman	San Antonio	Master Plumber	1987
Edward A. Tschoepe Vice-Chairman	San Antonio	Sanitary Engineer	1987
William G. Wheeler Secretary	Victoria	Plumbing Inspector	1987
Stanley J. Briers	Seabrook	Plumbing Contractor	1991
J. L. Drymalla	Columbus	Commercial Builder Contractor	1989
Mario Estrada	San Antonio	Public Member	1989
Ronald G. Goodnight	Killeen	Home Builder Contractor	1989
Joe W. Campbell	Houston	Public Member	1991
W. D. "Bill" Pickens	Houston	Journeyman Plumber	1991

Section 6 of the Plumbing License Law provides that each member of the Board is entitled to per diem as set by legislative appropriations for each day that the member engages in business of the Board. The appropriation for the Plumbing Board sets the rate of compensatory per diem at \$30 per day.

The Board is a policy making body and delegates the actual administration of the examinations to a full time staff. Examinations are conducted daily at its office in Austin.

Insurance

An insurance policy on the Board's seven vehicles provided the Board protection in the amount of \$100,000.00-\$300,000.00 for bodily injury liability and \$15,000.00 for property damage liability.

Each of the Board's employees was covered by a public employees' honesty blanket position bond with the Trinity Company to the extent of \$10,000.00. The following employees are bonded:

Lynn Brown	Administrator
Viola M. Ekenstam	Accountant III
Vernon H. Emken	Occupational Education Specialist II
Raymond G. Fullerton	Occupational Education Specialist II
Francisco Gonzales	Occupational Education Sepcialist II
Yolanda Hernandez	Administrative Technician III
Christopher A. Hoag	Stock Clerk II
Mary B. Lewandowski	Key Entry Supervisor II
C. W. Lindley	Director Special Programs
William J. Marks	Occupational Education Specialist II
Mary P. McCallister	Administrative Technician II
Don A. Nelson	Director Special Programs
Elneeta M. Prewitt	Key Entry Operator III
Patsy M. Russell	Administrative Technician IV
Mary Jo Sewell	Administrative Technician II
Charles R. Silguero	Translator, Spanish
Ruby M. Stiba	Accounting Clerk III
J. H. Walker	Occupational Education Specialist II
Bertis R. Ward	Occupational Education Specialist II
Larry Decker Wilson	Occupational Education Specialist II

The Texas State Board of Plumbing Examiners is committed to a lease agreement for its office and examination space through January 31, 1991. The lease may be cancelled by the Board if funds are not appropriated by the Legislature. The lease is subject to a consumer price index escalation clause.

This Board occupies 15,477 square feet of space at 929 East 41st Street in Austin, Texas. This space is divided as follows: office 5,787 sq.ft.; storage 1,247 sq.ft.; and 8,443 sq.ft. for examination facilities. This space costs 56.87¢ per sq.ft.; \$8,802.46 per month; or \$105,629.52 per year. The space is leased under the terms of Lease and Rental contract PE 7925-E-Austin on file with the State Purchasing and General Services Commission. The space is leased from J. Byron Smith, 1023 Shook Av., San Antonio 78212. The Board does not occupy any space

in State owned buildings, or space in any other location.

During this reporting period the Board purchased the following vehicles:

Two 1986 Chevrolet Celebrity 4 door sedans for \$9,254.30 each. These cars are used by the Field Department to check licenses on construction job sites over the state. They are fuel efficiency rated by the manufacturer for 19 miles per gallon in city travel and 27 miles per gallon in highway travel.

One Chevrolet Suburban for \$18,690.00. This vehicle is required for the conveyance of special equipment in conducting training seminars for City Plumbing Inspectors and licensed plumbers in special training conferences attended by 10 to 100 persons. Fuel efficiency rating is not applicable to this vehicle.

In FY-1986 the total number of licenses, of all categories, decreased by 11.9%. A breakdown of this figure is shown in the License Activity Report under General Information on page 7.

A statement of Receipts and Disbursements, as required by law, is shown on page 24.

Under Field Service Activity it is seen that 307 cities were visited during FY-1986, resulting in 2,144 field visits. A total of 1,725 plumbers were challenged on the job for licenses; approximately 70.6% were in compliance with the law. A total of 86 registered apprentices were also contacted on the job and 333 apprentice application forms were given to those not previously registered. A complete breakdown is shown under Field Service Activity.

During the year the Board participated in numerous conferences, seminars, training sessions and industry meetings. The Field Service

Department and the Chief Examiner were directly involved in this activity. Our participation was by invitation from cities, trade associations, A&M Extension Service, individual Plumbing Inspectors, State Plumbing Inspectors Association and Building Officials Association of Texas.

The danger of cross connections in plumbing systems has been graphically revealed in the two films produced for the Board by the University of Texas at Austin. These films depict the various ways in which the public water supply can be contaminated by back siphonage and back flow. Cross connections in plumbing systems are wide spread and occur at an unbelievable rate.

Another film produced by the University of Texas at Austin shows the Board's facilities for administering the examination. A typical applicant is followed through each phase of the day long examination.

All of these films have received wide circulation and viewing both in and out of the State.

The Board has continued its service to small towns in the State encouraging them to adopt a modern, adequate plumbing code. The Texas League of Municipalities has continued to participate in a cooperative effort with the Board to make copies of the model code available to any city needing such service.

Apprentice permit cards are available to any person learning the trade. A total of 769 Apprentice plumbers were registered in FY-1986 bringing the total to 14,636 since the inception of registration in 1972.

All applicants for examination must certify that they have three years of experience working at the trade or a combination of work

experience and academic training in plumbing to equal three years. In addition, the Board requires a one year waiting period between Journeyman licensure and the Master examination.

A minimum age of 18 has been established for the Master plumber and Plumbing Inspector licenses.

The City Plumbing Inspector must pass a comprehensive qualifying examination in order to obtain his Plumbing Inspector's license. This examination covers a two day period.

The Board conducted a total of 2,813 examinations during the year. The overall failure rate was 26.2%. A further breakdown of the examination figures is shown in the Examination Activity section.

The Board maintains a library of plumbing reference books which are available to persons needing to study for the examination. This Film and Book Library is used extensively during the year. See the applicable section in the body of the report for a complete listing of this activity.

The most recent request from the Board to destroy obsolete records was dated August 28, 1985.

Four Board meetings were held during this reporting period.

GENERAL INFORMATION

License Activity Report

A total of 22,850 licenses were issued by the Board during the year; 10,830 of these were Master licenses; 10,961 were Journeyman licenses; and 1,059 were Plumbing Inspector licenses. This represented a total decrease* of 3,085 licenses for the year, or approximately 11%. Broken down by category, the Master licenses decreased 10.4%; Journeyman licenses decreased 14.8%; and Plumbing Inspector licenses increased 7.6%.

Licenses are granted by renewal of a previously held license or by successful completion of the examination. Table I shows the manner in which the 22,850 licenses issued in 1986 were obtained.

TABLE IReport of Licenses Issued
by the State Plumbing Board*

	<u>By Renewal</u>	<u>By Examination</u>	<u>Total</u>
Master	10,059	771	10,830
Journeyman	9,710	1,251	10,961
Inspector	<u>912</u>	<u>147</u>	<u>1,059</u>
Total	20,681	2,169	22,850

- * - The renewal figures for the period December, 1984, through August 31, 1985, as shown in the 1985 Annual Report, are inflated. This is due to our licensing procedure being computerized as required by the 67th Texas Legislature Regular Session and the Sunset Advisory Commission. The computer staggered the license renewal dates from 6 months to 18 months, causing some licensees to have two renewals come due during the period February 1, 1985 through August 31, 1985. The inflation of the 1985 figure is partially responsible for the 11% decrease in total licenses issued for the 1986 Annual Report as compared to the 1985 Annual Report.

Table II shows the total number of licenses issued annually since the creation of the Board. The yearly total is broken down according to classification of license issued.

TABLE II

Comparative Summary of Licenses
Issued Annually by
State Plumbing Board

	<u>Masters</u>	<u>Journeyman</u>	<u>Inspectors</u>	<u>Total</u>
1948	2,875	4,491	354	7,720
1949	3,001	4,891	383	8,275
1950	3,239	5,269	422	8,930
1951	3,232	5,382	440	9,054
1952	3,383	5,564	450	9,397
1953	3,519	5,679	436	9,634
1954	3,556	5,746	431	9,733
1955	3,711	5,996	450	10,157
1956	3,794	6,073	462	10,329
1957	3,835	6,093	457	10,385
1958	3,878	6,222	481	10,581
1959	3,986	6,457	500	10,943
1960	4,120	6,516	506	11,142
1961	4,147	6,510	512	11,169
1962	4,223	6,596	518	11,337
1963	4,322	6,794	554	11,670
1964	4,447	7,023	559	12,029

TABLE II - continued

	<u>Masters</u>	<u>Journeyman</u>	<u>Inspectors</u>	<u>Total</u>
1965	4,561	7,048	581	12,265
1966	4,605	7,050	610	12,265
1967	4,612	7,187	633	12,432
1968	4,718	7,489	650	12,857
1969	4,892	7,902	654	13,448
1970	5,036	8,177	662	13,875
1971	5,268	8,623	677	14,568
1972	5,687	9,204	756	15,647
1973	6,034	9,506	779	16,319
1974	6,271	9,687	754	16,712
1975	6,459	9,952	747	17,158
1976	6,735	10,010	756	17,501
1977	7,027	10,232	758	18,017
1978	7,487	10,574	776	18,837
1979	7,932	11,229	796	19,957
1980	8,247	11,382	817	20,446
1981	8,367	11,267	831	20,465
1982	8,875	10,183	818	19,876
1983	9,808	10,712	890	21,410
1984	10,273	11,341	946	22,560
1985	12,092	12,859	984	25,935
1986	10,830	10,961	1,059	22,850

TEXAS STATE BOARD OF PLUMBING EXAMINERS
Austin, Texas

EXHIBIT I

COMBINED BALANCE SHEET
ALL GOVERNMENTAL FUND TYPE AND ACCOUNT GROUPS
August 31, 1986
(With Comparative Memorandum Totals at August 31, 1985)

	Account Groups			
	Governmental Fund Type- Special Revenue \$	General Fixed Assets \$	General Long-Term Debt \$	Memorandum Totals August 31, 1986 1985 \$ \$
<u>ASSETS AND OTHER DEBITS</u>				
<u>Current Assets</u>				
Cash on Hand	10,748.95			10,748.95 4,428.00
Cash in State Treasury-				
Operating Fund	1,660,570.10			1,660,570.10 1,389,611.33
Suspense Account	8,897.25			8,897.25 14,836.55
Accounts Receivable	-0-			-0- 3,810.72
Consumable Inventories	15,523.80			15,523.80 19,144.46
	<u>1,695,740.10</u>	<u>-</u>	<u>-</u>	<u>1,695,740.10</u> <u>1,431,831.06</u>
<u>Fixed Assets</u>				
Furniture & Equipment	-	281,275.85	-	281,275.85 257,271.34
<u>Other Debits</u>				
Resources to be Provided in Future Years	-	-	50,473.75	50,473.75 43,943.79
	<u>1,695,740.10</u>	<u>281,275.85</u>	<u>50,573.75</u>	<u>2,027,489.70</u> <u>1,733,046.19</u>

The accompanying Notes to the Financial Statements are an integral part of this exhibit.

TEXAS STATE BOARD OF PLUMBING EXAMINERS
Austin, Texas

EXHIBIT I

COMBINED BALANCE SHEET
ALL GOVERNMENTAL FUND TYPE AND ACCOUNT GROUPS
August 31, 1986
(With Comparative Memorandum Totals at August 31, 1985)

	Account Groups			
	Governmental			
	Fund Type- Special Revenue \$	General Fixed Assets \$	General Long-Term Debts \$	Memorandum Totals August 31, 1986 1985 \$
<u>LIABILITIES AND FUND EQUITY</u>				
<u>Current Liabilities</u>				
Accounts Payable	8,255.44			8,255.44 18,707.86
Undistributed Cash on Hand	10,748.95			10,748.95 4,428.00
Suspense	8,897.25			8,897.25 14,836.55
Total Current Liabilities	27,901.64	-	-	27,901.64 37,972.41
<u>Long-Term Liabilities</u>				
Employees' Compensable Leave Balances			50,473.75	50,473.75 43,943.79
Total Liabilities	27,901.64	-	50,473.75	78,375.39 81,916.20
<u>Fund Equity</u>				
Investment in General Fixed Assets		281,275.85		281,275.85 257,271.34
Fund Balances:				
Reserved For-				
Encumbrances-(Exh. III)	25,306.90			25,306.90 16,906.77
Unencumbered Legislative Appropriations -				
Subject to Lapse	58,947.61			58,947.61 92,291.11
Consumable Inventories	15,523.80			15,523.80 19,144.46
Unreserved- Undesignated	1,568,060.15			1,568,060.15 1,265,516.31
Total Fund Equity	1,667,838.46	281,275.85	-	1,949,114.31 1,651,129.99
Total Liabilities and Fund Equity	<u>1,695,740.10</u>	<u>281,275.85</u>	<u>50,473.75</u>	<u>2,027,489.70</u> <u>1,733,046.19</u>

The accompanying Notes to the Financial Statements are an integral part of this exhibit.

Exhibit II

STATEMENT OF REVENUES, EXPENDITURES AND
CHANGES IN FUND BALANCES - SPECIAL REVENUE FUND
Year Ended August 31, 1986
(With Comparative Totals - Year Ended August 31, 1985)

	Year ended August 31,	
	1986	1985
Revenues:	\$	\$
Licenses:		
Master	793,716.50	877,171.63
Journeyman	258,641.00	298,327.07
Inspector	52,650.00	49,100.00
Total License Fee	<u>1,105,007.50</u>	<u>1,224,598.70</u>
Examination Fees:		
Master	61,575.00	83,625.00
Journeyman	90,075.00	107,000.00
Inspector	3,825.00	3,975.00
Total Examination Fee	<u>155,475.00</u>	<u>194,600.00</u>
Late Fees	98,553.75	93,687.25
Other Sale	3,582.61	6,326.10
Total Revenue	<u>1,362,618.86</u>	<u>1,519,212.05</u>
Expenditures		
Current Operating:		
Salaries and Wages	554,694.01	543,334.35
Payroll Related Costs -		
Retirement Contributions and Related Costs	41,118.00	43,149.10
Employees' Group Insurance Contributions	36,033.35	35,756.24
Social Security Contributions	57,291.71	55,491.87
Professional Fees and Services	5,660.00	8,611.78
Travel	26,338.22	25,557.08
Materials and Supplies	38,698.10	39,907.17
Communication and Utilities	25,664.57	28,612.35
Repairs and Maintenance	681.62	5,392.40
Rentals and Leases	106,466.48	105,134.34
Printing and Reproduction	23,768.92	24,504.92
Other	133,863.04	155,161.84
Total Current Operating Expenditures	<u>1,050,278.02</u>	<u>1,070,613.44</u>
Capital Outlays	34,740.37	33,725.33
Total Expenditures (Exh. III)	<u>1,085,018.39</u>	<u>1,104,338.77</u>
Excess of Revenues over Expenditures	277,600.47	414,873.28
Other Financing Sources (Uses)		
Increase (Decrease) in Reserve for Consumable Inventories	<u>(3,620.66)</u>	<u>(4,870.77)</u>
Excess (Deficit) of Revenues and Other Financing Sources over Expenditures and Other Financing Uses	273,979.81	410,002.51
<u>Fund Balances - Beginning</u>	<u>1,393,858.65</u>	<u>983,856.14</u>
<u>Fund Balances - Ending</u>	<u>1,667,838.46</u>	<u>1,393,858.65</u>

The accompanying Notes to the Financial Statements are an integral part of this exhibit.

TEXAS STATE BOARD OF PLUMBING EXAMINERS

Exhibit III

COMPARISON OF FUNDS BUDGETED TO FUNDS APPLIED
AND ENCUMBERED - SPECIAL REVENUE FUND
Year Ended August 31, 1986

Activity	Funds Budgeted			Totals
	Legislative Appropriations Original	Additional Appropriation & Appropriated Revenue	Transfers Between Appropriations	
	\$	\$	\$	\$
Current Year Appropriations -				
Per Diem Board Members	6,030.00			6,030.00
Administrator	52,900.00	1,587.00		54,487.00
Other Administration	280,534.00	9,066.90		289,600.90
Licensing and Examination	391,825.00	9,546.78		401,371.78
Field Services	149,441.00	2,870.16		152,311.16
Computer Services	53,296.00	-0-		53,296.00
Total Current Year Appropriation	934,026.00	23,070.84		957,096.84
Other Appropriations -				
Retirement		41,118.00		41,118.00
Social Security Contributions		57,291.71		57,291.71
Insurance Contributions		36,033.35		36,033.35
State Auditor's Fee		-0-		-0-
General Revenue Service		46,197.00		46,197.00
Attorney General Service		15,000.00		15,000.00
Prior Year Appropriation Activities	109,197.88			109,197.88
Total Appropriated Activities	<u>1,043,223.88</u>	<u>218,710.90</u>	<u>=====</u>	<u>1,261,934.78</u>

The accompanying Notes to the Financial Statement are an integral part of this exhibit.

Funds Applied and Encumbered

<u>Expenditures</u>	<u>Appropriations Lapsed</u>	<u>Encumbrances</u>	<u>Totals</u>	<u>Variance</u>
\$	\$	\$	\$	\$
1,500.00			1,500.00	4,530.00
54,487.00			54,487.00	-0-
252,041.85		16,700.00	268,741.85	20,859.05
366,001.64		8,606.90	374,608.54	26,763.24
145,515.84			145,515.84	6,795.32
53,296.00			53,296.00	-0-
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
872,842.33		25,306.90	898,149.23	58,947.61
41,118.00			41,118.00	
57,291.71			57,291.71	
36,033.35			36,033.35	
-0-			-0-	
46,197.00			46,197.00	
15,000.00			15,000.00	
16,536.00	92,661.88		109,197.88	
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
<u>1,085,018.39</u>	<u>92,661.88</u>	<u>25,306.90</u>	<u>1,202,987.17</u>	<u>58,947.61</u>

(Exh. II)

(Exh. I)

TEXAS STATE BOARD OF PLUMBING EXAMINERSNOTES TO THE FINANCIAL STATEMENTSNOTE 1: SIGNIFICANT ACCOUNTING POLICIESA. Entity

The Texas State Board of Plumbing Examiners operates under the authority of the Plumbing License Law, Tex. Rev. Civ. Stat. Ann. art. 6243-101 (Vernon's Supp. 1984). The function of the Board is to examine, license and regulate persons engaged in plumbing as a primary occupation and any person acting in the capacity of a City Plumbing Inspector.

B. Basis of Presentation

The accompanying financial statements have been prepared in conformity with generally accepted accounting principles as established by the Governmental Accounting Standards Board. The comparative memorandum total amounts presented in the combined statements are included for supplemental analysis purposes. This data is not necessary to an understanding of the statements. It is not comparable to a consolidation and should not be thought of as presenting financial position or results of operations in conformity with generally accepted accounting principles.

C. Fund Structure

The accounts of the Agency are organized on the basis of funds and account groups, each of which is considered a separate accounting entity. The operations of each fund

are accounted for with a complete set of self balancing accounts that comprise its assets, liabilities, fund equity, revenues and expenditures or expenses. The funds and account groups used to reflect the Agency's transactions are as follows:

Governmental Fund Types

Special Revenue Funds - The Board's current Special Revenue Fund, entitled the Plumbing Examiners Fund, is a fund in the State Treasury established by statutory amendment effective September 1, 1981. As provided in the current statutes, the Board is provided appropriations out of the Plumbing Examiners Fund, in amounts established by the Legislature, in support of its activities. Examination and licensing fees received by the Board are deposited as unappropriated revenues to the Plumbing Examiners Fund.

Account Groups

General Fixed Assets - Fixed assets used in governmental fund type operations, such as the Board's Funds, are accounted for by means of a General Fixed Assets Accounts Group rather than in the fund itself. Purchases of fixed assets are included in fund expenditures, and the assets purchased are usually capitalized at cost in the General Fixed Assets Account Group, with an offsetting addition to an invested fund equity account. An exception to this practice occurs when assets are acquired from another state agency, in which case the assets are capitalized at the carrying value used by the agency from which acquired.

There is no provision in the accounts for depreciation of assets.

General Long-Term Obligations - Liabilities expected to be financed from governmental funds in future periods are accounted for by means of a General Long-Term Obligations Account Group. Such noncurrent liabilities do not affect the measurement of results of operations, with which governmental funds are concerned, and are therefore reflected in this account group, the focus of which is the measurement of financial position. Included in the General Long-Term Obligations Account Group of the Board are liabilities for compensable annual and compensatory leave balances of employees discussed in Note 3B.

D. Basis of Accounting

As a governmental fund type, the Board's Funds are accounted for using the modified accrual basis of accounting. Under the modified accrual basis, revenues are recognized in the accounting period in which they become available and measurable as net current assets.

Expenditures are recognized in the accounting period in which the fund liability is incurred, except expenditures for compensated annual leave and compensatory leave, which are not recognized until events occur which make payment necessary (see also Note 3B).

E. Budgets and Budgetary Accounting

The Board's legal spending limits are those passed by the Legislature in General Appropriations Acts and other

spending legislation. The budgetary data presented in the Statement of Funds Budgeted vs. Funds Applied and Encumbered - Special Revenue Fund was prepared on the modified accrual basis of accounting in the format adopted by the Legislature. The beginning balance of the prior year's appropriations, as reported in that statement, is the sum of the unencumbered balances of the Plumbing Examiners Fund appropriations and the reserve for encumbrances as of the end of the previous fiscal year.

F. Assets, Liabilities and Fund Equity

Consumable Inventories

Purchases of supplies and postage have been included in expenditures in the period acquired. Consumable inventories of supplies and postage on hand at year-end, stated at cost, have been recorded in the current assets section of the balance sheet, with an offset to a fund balance reserve, which indicates that these assets do not constitute available spendable resources.

Fixed Assets

Purchases of fixed assets by governmental or similar trust funds are reported as expenditures. They are capitalized at cost or, if not purchased, at appraised value on the date of acquisition. There is no provision for depreciation or obsolescence of these fixed assets since replacements are financed from current resources.

Liabilities

Accounts Payable represents the liability for the value of

assets or services received at the balance sheet date for which payment is pending.

Employee Compensable Leave Balances Not Funded by Current Resources represents the liability that the Agency will be required to liquidate in the future and arises from the accumulated compensable leave due employees as of August 31, 1986.

Fund Equity

Reserved for Encumbrances represents commitments of the value of contracts awarded or assets ordered prior to year-end but not received as of that date. Encumbrances are not included with expenditures or liabilities. They represent current resources designated for specific expenditures in subsequent operating periods.

Reserved for Unencumbered Appropriations represents those unexpended appropriations which are subject to lapse or statutory redistribution, and those for which future period expenditure authority is established.

- G. Interfund Transactions include contributions to the Employees Retirement System and reimbursement to the State Purchasing and General Services Commission for the cost of services rendered. Additionally, transfers from the Plumbing Examiners Fund to the State's General Revenue Fund are made to compensate for services rendered by agencies funded by that source.

NOTE 2: INDIRECT COSTS

In addition to the direct expenditures as shown in Exhibit II,

certain costs were paid on behalf of employees from appropriations of the Plumbing Examiners Fund. Listed below are these indirect costs:

	<u>Year Ended August 31,</u>	
	<u>1986</u>	<u>1985</u>
Retirement Contributions and Related Costs:	\$	\$
Employees Retirement System	41,118.00	43,149.10
Social Security Contributions:		
Payments by State on Behalf of Employees	18,477.67	17,902.23
Regular Social Security Contributions	38,814.04	37,589.64
State Contributions for Group Insurance:		
Active Employees*	26,415.93	26,281.27
Retired Employees	9,617.42	9,474.97
Totals	<u>134,443.06</u>	<u>134,397.21</u>

* - Included in the amounts are \$574.00 and \$584.00 paid in 1986 and 1985 respectively, by the Employees Retirement System on behalf of employees for group insurance premiums from the Employee Life, Accident and Health Insurance and Benefits Account.

NOTE 3: DETAIL NOTES ON ACCOUNT GROUPS

A. General Fixed Assets

A summary of changes in General Fixed Assets for fiscal year 1986 follows:

	<u>Balances</u> <u>September 1, 1985</u>	<u>Additions</u>	<u>Deductions</u>	<u>Balances</u> <u>August 31, 1986</u>
Furniture and	\$	\$	\$	\$
Equipment	215,446.34	541.77	45.86	215,942.25
Vehicles	41,825.00	37,198.60	13,690.00	65,333.60
Totals	<u>257,271.34</u>	<u>37,740.37*</u>	<u>13,735.86</u>	<u>281,275.85</u>

* - Capital outlay \$34,740.37 plus \$3,000.00 trade-in allowances on vehicles.

B. General Long-Term Debt

Compensable Absences

The following is a summary of changes in employees' compensable leave balances, which reflect employees' accrued rights to future compensated absences. Changes and balances are stated in terms of hours:

	Annual Leave	FLSA Com- pensatory Time	State Com- pensatory Time	Totals
Compensable Leave Hours- September 1, 1985	3,174.5	-	60.0	3,234.5
Leave Hours Earned	2,505.0	-	125.0	2,630.0
Leave Hours Compensated:				
By Time Off	(1,999.5)	-	(140.0)	(2,139.5)
By Monetary Payment, Including Accounts Payable	-	-	-	-
Leave Hours Lost or Cancelled:				
Accumulated Hours in Excess of Maximum Balances	(493.5)	-	-	(493.5)
Other Changes or Adjustments	-	-	-	-
Compensable Leave Hours - August 31, 1986	<u>3,186.5</u>	<u>-</u>	<u>45.0</u>	<u>3,231.5</u>

The Texas State Board of Plumbing Examiners' monetary liabilities for compensable future absences as of August 31, 1986, as computed by multiplying the above ending balances times the year-end average hourly salary rate for all employees, were as follows:

Annual Leave	\$ 49,864.00
FLSA Compensatory Time	-0-
State Compensatory Time	609.75
Total (Exh. I)	<u>\$ 50,473.75</u>

NOTE 4: OPERATING LEASE OBLIGATIONS

Included in the expenditures or expenses reported in the financial statements are the following amounts of rent paid or due under operating leases:

Fund Type	Year ended August 31,	
	1986	1985
Special Revenue Funds	\$ 105,974.68	\$ 104,594.04
Totals - Memorandum Only	<u>105,974.68</u>	<u>104,594.04</u>

NOTE 5: EMPLOYEES RETIREMENT PLANS

The State has joint contributory retirement plans for

substantially all its employees. The Agency participates in the plans administered by the Employees Retirement System of Texas. Future pension costs are the liabilities of the Retirement System. The System does not account for each State Agency separately. Annual financial reports prepared by the System include audited financial statements and actuarial assumptions and conclusions.

At August 31, 1986, the actuarially computed value of pension liability for the Employees Retirement System exceeded total assets of the System. According to the independent actuary, the contribution rates of employees (6%) and the State (7.4%), as set by the State Legislature, will amortize the unfunded liability over a period of 18.8 years if contribution rates remain the same and actuarial assumptions in the aggregate prove to be reasonable.

Total cost to the State, related to the Agency for the year ended August 31, 1986, was \$41,118.00.

NOTE 6: At August 31, 1986, no employees of the Agency were participating in the State's Deferred Compensation Program.

NOTE 7: CONTINGENT LIABILITIES

A. Sick Leave

Sick Leave, the accumulation of which is unlimited, is earned at the rate of eight hours per month and is paid to the employee only in the case of illness or to the employee's estate in the event of his/her death while employed by the Agency. The maximum sick leave that may be paid an employee's estate is one-half of the employee's

accumulated entitlement, or 336 hours, whichever is less. The Agency's policy is to recognize the cost of any sick leave when paid. No liability is recorded in the General Long-Term Debt Account Group since experience indicates the probability of a material effect on any given year's operation, as a result of death or abnormally high rate of illness, is minimal.

NOTE 8: CONTINUANCE SUBJECT TO REVIEW

Under the provisions of the Texas Sunset Act, the Texas State Board of Plumbing Examiners will be abolished effective September 1, 1993, unless continued in existence by the Seventy-third Legislature as provided by the Act. If abolished, the Texas State Board of Plumbing Examiners may continue until September 1, 1994, to close out its operation.

NOTE 9: MISCELLANEOUS COMMENTS

The professional fees are payments for consultant services. A summary of payments follows:

	<u>Year ended August 31,</u>	
	<u>1986</u>	<u>1985</u>
	\$	\$
Charles L. Davis - Consultant Services	1,800.00	1,800.00
William H. Lalla - Consultant Services	1,050.00	-0-
Frank Boyd - Consultant Services	<u>2,810.00</u>	<u>1,925.00</u>
Total (Exh. II)	5,660.00	3,725.00
	=====	=====

TEXAS STATE BOARD OF PLUMBING EXAMINERS

SUPPLEMENTARY SCHEDULE

STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS
Years Ended August 31, 1986 and 1985

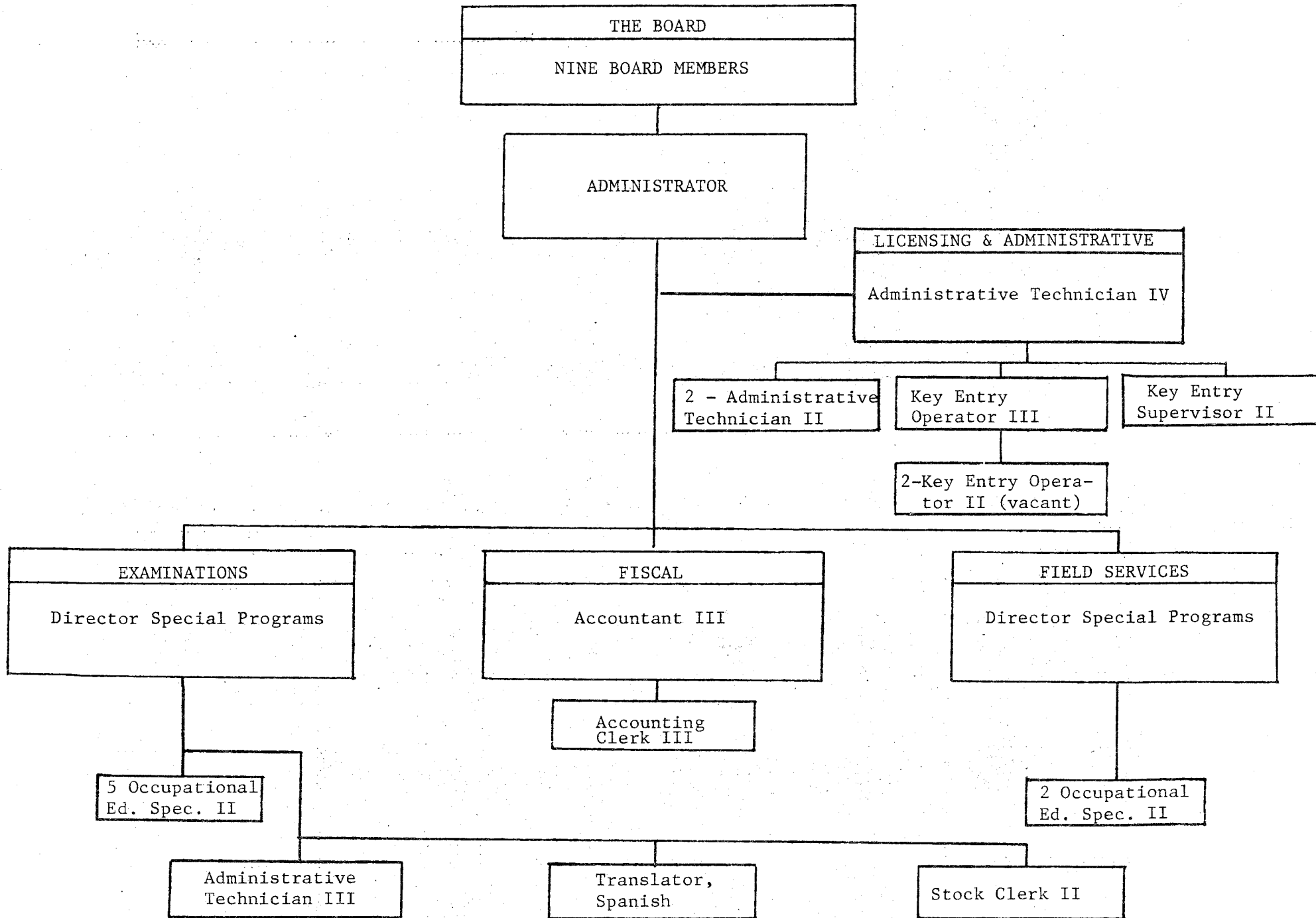
	Year Ended August 31, 1986	Year Ended August 31, 1985
	\$	\$
<u>Receipts</u>		
Licenses:		
Master	793,716.50	877,171.63
Journeyman	258,641.00	298,327.07
Inspector	52,650.00	49,100.00
Total License Fee	<u>1,105,007.50</u>	<u>1,224,598.70</u>
Examination Fees:		
Master	61,575.00	83,625.00
Journeyman	90,075.00	107,000.00
Inspector	3,825.00	3,975.00
Total Examination Fee	<u>155,475.00</u>	<u>194,600.00</u>
Late Fees	98,553.75	93,687.25
Other Sale	<u>3,582.61</u>	<u>2,515.38</u>
Total Receipts	<u>1,362,618.86</u>	<u>1,515,401.33</u>
<u>Disbursements</u>		
Salaries and Wages	542,774.01	527,714.35
Salaries Contract	513.50	7,774.56
Longevity	10,420.00	10,220.00
Per Diem - Board Members	1,500.00	5,400.00
Professional Fees & Services	4,960.00	3,725.00
Printing, Office Supplies and Services	40,987.53	110,911.08
Fees - Membership and Registration	1,965.00	1,520.00
Postage	12,630.77	11,346.00
Rent	105,974.68	104,594.04
Utilities	24,782.38	28,920.40
Janitorial Services	5,880.00	5,880.00
Travel Expense - Administrative	22,382.44	16,880.12
Travel Expense - Board Members	2,929.70	8,252.02
Travel Expense - Automobiles	6,914.43	6,211.20
Computer Service	53,235.04	-0-
Insurance	4,139.26	3,154.00
Materials - Examination	9,408.80	12,205.30
Supplies - Examination	7,184.19	6,850.78
Employer's Retirement Contribution	42,275.70	41,991.40
Social Security	57,291.71	55,491.87
Employer's Group Insurance	36,033.35	35,756.24
Audit Fee	-0-	4,886.78
General Revenue Service	46,197.00	50,788.00
Attorney General Services	15,000.00	-0-
Total Disbursements	<u>1,055,379.49</u>	<u>1,060,473.14</u>

TEXAS STATE BOARD OF PLUMBING EXAMINERS

SUPPLEMENTARY SCHEDULE

STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS
Years Ended August 31, 1986 and 1985
 (concluded)

	Year Ended <u>August 31, 1986</u> \$	Year Ended <u>August 31, 1985</u> \$
<u>Disbursements (concluded)</u>		
Purchases of Fixed Assets		
Furniture and Equipment	<u>40,091.32</u>	<u>28,415.29</u>
Total Disbursements	<u>1,095,470.81</u>	<u>1,088,888.43</u>
Excess of Receipts over Disbursements	<u><u>267,148.05</u></u>	<u><u>426,512.90</u></u>



Requests for Information

Each year the Board receives requests from other states concerning its operations, examinations and other procedures. The Board is happy to supply any helpful information to another state or political subdivision concerning its licensing or examining procedures.

California

Mailed one copy of the Board's License Law as requested by Mr. Dan McCoy, Sacramento.

Florida

Letter from Executive Director, Construction Trades Qualifying Board, Jacksonville, requesting information on James M. Alexander, Texas Master.

Telephone call from Wykoff Plumbing, Inc., requesting information on Robert L. Holman who is applying for a Journeyman license in Florida.

Illinois

Letter from Mr. Roger Bauer, Plumbing Inspector, Hanover Park, requesting a copy of the pamphlet "Typical Facilities, Cross-Connection or Water Uses Which May Endanger the Public Water System".

Kentucky

Letter from Mr. Carl VanCleve, Director, Division of Plumbing, Department of Housing, Buildings and Construction, Frankfort, requesting information about our plumbing examinations.

New York

Letter from Mr. Robert I. Harris, Attorney for the State Fire Prevention and Building Code Council, Division of Housing and Community Renewal, New York City, requesting information on plumbing codes in Texas as they apply to the use of polybutylene pipe.

Letter from Mr. Joseph C. Lavalley, Contracting Plumbers Association of Greater New York, Inc., Howard Beach, requesting information on the Texas Journeyman Plumber's examination and license.

Ohio

Inquiry from Mr. G. David Schiering, Taft, Stettinius and Hollister, Cincinnati, relative to one of his clients who plans to market a water treatment device in the state of Texas.

Tennessee

Letter from Ms. Anita McLaughlin, Secretary, Plumbing Contractors, Inc., Collierville, inquiring whether Jerry Taylor, Texas plumber, has to be bonded when he renews his license.

Virginia

Letter from Mr. Thomas B. Gray, P.E., Assistant Chief of Technical Services, Bureau of Water Supply Engineering, Richmond, regarding the possibility of taking the Board's cross-connection display unit to Virginia.

FIELD SERVICE ACTIVITY

The Field Service Activities are grouped as follows:

1. Field Visits
2. License Compliance Checks
3. Meetings, Conferences, Seminars, and Training Seminars
4. Plumbing Code Activity

Field Visits

307 cities and towns were visited during FY-1986. As a result of these 307 trips, 2,144 field visits were made. The visits included license compliance checks; contacts with Plumbing Inspectors; contacts with Master and Journeyman plumbers; association officials; contacts with city councils and city officials, such as City Managers and City Attorneys. In the course of investigating complaints, many contacts were made with consumers. Board representatives attended and participated at other meetings and short schools.

License Compliance Checks

A total of 336 license compliance checks were made in 307 cities at least one or more times during the year. A total of 1,218 plumbers were found working on jobs and an additional 507 unlicensed persons doing plumbing work. 70.6% of the persons contacted were in compliance with the Licensing Law. 180 of the 507 found to be unlicensed subsequently obtained their license. 78 have been or will be scheduled for examination. 35 failed the examination and will be re-scheduled for examination after the expiration of the prescribed waiting period. Also, a total of 86 registered apprentice plumbers were found working on jobs and a total of 333 applications for registration as an apprentice plumber were given to apprentices. Most cities of 5,000 or more population were visited one or more times during the year. Every city, regardless of size, requesting assistance was visited and offered the full services of the Board.

The following table shows the frequency of visits to the 15 larger cities, (100,000 population or more according to the 1980 census) number of plumbers contacted on jobs and the number who were unlicensed. In each of the cities listed below one, two, or three representatives were assigned for the time necessary to conduct a license compliance check.

TABLE III

Compliance Checks

<u>City</u>	<u>Number Visits</u>	<u>Number Persons Contacted</u>	<u>Number Persons Unlicensed</u>	<u>Percent Unlicensed</u>
Amarillo	1	15	3	20.0
Arlington	3	35	9	25.7
Austin	4	186	69	37.1
Beaumont	1	4	0	00.0
Corpus Christi	4	107	22	20.6
Dallas	5	157	56	35.7
El Paso	4	135	44	32.6
Ft. Worth	5	84	22	26.2
Garland	1	3	0	00.0
Houston	6	97	31	32.0
Irving	2	17	7	41.2
Lubbock	2	23	5	21.8
Pasadena	2	11	2	18.2
San Antonio	5	112	39	34.8
Waco	1	5	1	20.0

COMPLAINTS

Forty complaints and requests for assistance were received during the reporting period. All but two were resolved. One of the defendants cannot be located and the remaining one is being investigated.

Most of the complaints involved alleged overcharges; failure to have a written contract or a clear understanding of the work to be performed; and inferior workmanship.

MEETINGS, CONFERENCES, AND SEMINARS

Date	Location	Type of Meeting	Purpose/Subject	Participants and Number Attending				Number
				Trade Ass'n	Consumer	Gen'l Public	Agency	
9-22-85	Ft. Worth	Code Seminar	Attend seminar on code revision and update enforcement practices	Intl. Assoc. of Plumbing and Mechanical Officials				350
9-30-85	Austin	Plumbing Seminar	Conduct seminar on cross-connection and State Plumbing License Law and show cross-connection films			Watts Regulators		22
10-27-85	Corpus Christi	Plumbing Seminar	Attend seminar on code revision and update enforcement practices and to conduct seminar on cross-connection, proper drain, waste and vent installation and to show cross-connection films	Southern Building Code Congress International				625
10-29-85	Corpus Christi	Plumbing Seminar	Conduct seminar on good plumbing practices, on proper drain, waste and vent installation and on the State Plumbing License Law				Del Mar College	10
10-8-85	Las Vegas Nevada	Plumbing Seminar	Conduct seminar on good plumbing practices, on cross-connection and on proper drain, waste and vent installation	Association of Plumbing, Heating and Cooling Contractors				192
10-18-85	San Antonio	License Law Seminar	Conduct seminar on State Plumbing License Law				Department of Labor & Standards	31
1-7-85	College Station	Plumbing Seminar	Conduct seminar on good plumbing practices				Texas A&M University	9

MEETINGS, CONFERENCES, AND SEMINARS

Date	Location	Type of Meeting	Purpose/Subject	Participants and Number Attending				
				Trade Ass'n	Consumer	Gen'l Public	Agency	Number
1-15-86	Carrollton	Cross-connection Seminar	Conduct seminar on cross-connection			Independent American Management Association		32
1-16-86	Arlington	Cross-Connection Seminar	Conduct seminar on cross-connection				City Health Department	169
1-29-86	Pampa	Plumbing Seminar	Conduct seminar on good plumbing practices, on cross-connection, on proper drain, waste and vent installation and to show cross-connection films				City	25
1-31-86	Austin	Plumbing Seminar	Conduct seminar on cross-connection, State Plumbing License Law and to explain the examination				Lee High School, San Antonio	42
2-25-86	Corpus Christi	Plumbing Seminar	Conduct seminar on good plumbing practices, on cross-connection, on proper drain, waste and vent installation, explain examination and show cross-connection films				Del Mar College	16
2-25-86	Nassau Bay	Cross-Connection Seminar	Conduct seminar on cross-connection				Texas A&M University	14
3-4-86	Austin	Cross Connection Seminar	Conduct seminar on cross-connection			Armstrong Plumbing Supply		13
3-13-86	New Orleans, Louisiana	Cross-connection Seminar	Conduct seminar on cross-connection and show cross-connection films				Health Department	43

MEETINGS, CONFERENCES, AND SEMINARS

Date	Location	Type of Meeting	Purpose/Subject	Participants and Number Attending				
				Trade Ass'n	Consumer	Gen'l Public	Agency	Number
4-3-86	Killeen	Cross-connection Seminar	Conduct seminar on cross-connection and show cross-connection films				Central Texas College	48
4-21-86	Denver, Colorado	Cross-connection Seminar	Conduct seminar on cross-connection and show cross-connection films	American Backflow Prevention Association				85
4-28-86	Arlington	Plumbing & License Law Seminar	Conduct seminar on proper drain, waste and vent installation and on State Plumbing License Law				Texas A&M University	31
5-3-86	South Padre Island	Plumbing Seminar	Conduct seminar on good plumbing practices	Valley Building Officials Association				13
5-5-86	San Antonio	Plumbing & License Law Seminar	Conduct seminar on good plumbing practices and on State Plumbing License Law				Texas A&M University	28
5-12-86	El Paso	Plumbing Seminar	Conduct seminar on good plumbing practices and on State Plumbing License Law and show cross-connection films				Texas A&M University	13
5-12-86	Temple	Cross-connection Seminar	Conduct seminar on cross-connection and show cross-connection films				City	38
5-19-86	San Antonio	Cross-connection	Conduct seminar on cross-connection and show cross-connection films				Texas A&M University	14
6-16-86	San Antonio	Plumbing Seminar	Conduct seminar on good plumbing practices, on proper drain, waste and vent installation, on State Plumbing License Law and on inspection practices	Texas State Association of Plumbing Inspectors				70

MEETINGS, CONFERENCES, AND SEMINARS

Date	Location	Type of Meeting	Purpose/Subject	Participants and Number Attending				
				Trade Ass'n	Consumer	Gen'l Public	Agency	Number
6-20-86	San Antonio	Plumbing Seminar	Conduct seminar on good plumbing practices	Associated Plumbing, Heating and Cooling Contractors				104
7-14-86	Longview	Cross-connection Seminar	Conduct seminar on cross-connection and show cross-connection films				Texas A&M University	18
7-17-86	Austin	Cross-connection Seminar	Show cross-connection films				U.S. Food and Drug Administration	62
8-4-86	College Station	Plumbing Seminar	Conduct seminar on good plumbing practices, on code revision and update enforcement practices and show cross-connection films				Texas A&M University	18

Plumbing Code Activity

The Board has continued its assistance and encouragement to small cities in adopting adequate plumbing codes. During the year numerous cities have adopted the Texas Municipal League Plumbing Code. The Board's representatives have favored the adoption of this code and a large number of cities have requested copies. Many of them are currently in the process of adopting the code while others are considering minor changes or revision before its adoption. This code is gradually becoming the standard code for the smaller cities. The Texas Municipal League is to be commended for publishing this code for its member cities.

EXAMINATION ACTIVITY

Examination Report

The Board conducted 2,813 examinations in FY-1986. 834 were Master examinations, 1,826 were Journeyman examinations, and 153 were Inspector's examinations. Of the 2,813 examined, a total of 2,076 or 73.8 percent, qualified for their licenses.

A breakdown by category shows that 834 Master Plumber candidates were examined and of that number 723, or 86.7 percent, passed. 1,826 Journeyman Plumber candidates were examined and 1,206 or 66.0 percent, passed. 153 Inspector candidates were examined and 147 or 96.1 percent, passed.

The monthly breakdown of the Master examinations, showing the number given and the number passing or failing, is shown in Table IV.

The monthly breakdown of Journeyman examinations is shown in Table V.

Table VI shows the number of examinations given by month for the reporting period by category. The passing and failure rate for each is also shown.

Table VII shows the number of Master examinations conducted each year since the Board's inception. It also reveals the number passing and failing along with the percentage of passes and failures.

Table VIII is the same information shown in the same manner on the Journeyman examinations since 1947.

Table IX shows the number of examinations given by category for each year of the Board's operation.

TABLE IVMonthly Distribution of
Master Examinations for FY-1986

	<u>No. Exams</u>	<u>Passed</u>	<u>Failed</u>
September	70	59	11
October	57	48	9
November	70	63	7
December	51	44	7
January	86	77	9
February	100	86	14
March	85	76	9
April	76	64	12
May	77	67	10
June	54	45	9
July	51	49	2
August	<u>57</u>	<u>45</u>	<u>12</u>
Total	834	723	111

TABLE VMonthly Distribution of
Journeyman Examinations for FY-1986

	<u>No. Exams</u>	<u>Passed</u>	<u>Failed</u>
September	130	76	54
October	121	84	37
November	144	98	46
December	135	87	48
January	182	121	61
February	154	117	37
March	154	110	44
April	170	113	57
May	194	114	80
June	155	100	55
July	166	110	56
August	<u>121</u>	<u>76</u>	<u>45</u>
Total	1,826	1,206	620

TABLE VI

Monthly Distribution of
Master and Journeyman Examinations
for FY-1986

	<u>No.</u> <u>Exam'd</u>	<u>Passed</u>	<u>Percent</u>	<u>Failed</u>	<u>Percent</u>
September	200	135	67.5	65	32.5
October	178	132	74.2	46	25.8
November	214	161	75.2	53	24.8
December	186	131	70.4	55	29.6
January	268	198	73.9	70	26.1
February	254	203	80.0	51	20.0
March	239	186	77.8	53	22.2
April	246	177	72.0	69	28.0
May	271	181	66.8	90	33.2
June	209	145	69.4	64	30.6
July	217	159	73.3	58	26.7
August	<u>178</u>	<u>121</u>	<u>68.0</u>	<u>57</u>	<u>32.0</u>
Total	2,660	1,929	72.5	731	27.5

TABLE VII

Comparative Analysis of Master Examinations
Given Annually by State Plumbing Board

	<u>Examined</u>	<u>Passed</u>	<u>Percent Passed</u>	<u>Failed</u>	<u>Percent Failed</u>	<u>Total Examined</u>
1947	35	32	91.4	3	8.6	35
1948	338	313	92.6	25	7.4	373
1949	429	370	86.2	59	13.8	802
1950	426	374	87.7	52	12.3	1,228
1951	278	176	63.6	102	36.4	1,506
1952	419	293	69.9	126	30.1	1,925
1953	356	292	82.0	64	18.0	2,281
1954	311	234	75.3	77	24.7	2,592
1955	345	268	77.8	77	22.2	2,937
1956	331	259	78.0	72	22.0	3,268
1957	308	240	77.8	68	22.2	3,576
1958	303	238	78.5	65	21.5	3,879
1959	354	248	70.0	106	30.0	4,233
1960	389	291	74.8	98	25.2	4,622
1961	332	248	74.4	84	25.6	4,954
1962	349	270	77.3	79	22.7	5,303
1963	353	262	74.2	91	25.8	5,656
1964	424	310	73.1	114	26.9	6,080
1965	419	299	71.4	120	28.6	6,499
1966	307	223	72.7	84	27.3	6,806
1967	311	225	72.4	86	27.6	7,117

TABLE VII - continued

	<u>Examined</u>	<u>Passed</u>	<u>Percent Passed</u>	<u>Failed</u>	<u>Percent Failed</u>	<u>Total Examined</u>
1968	354	264	74.6	90	25.4	7,471
1969	424	316	74.5	108	25.5	7,895
1970	412	300	73.0	112	27.0	8,307
1971	501	386	74.1	115	23.0	8,808
1972	726	557	76.6	169	23.4	9,534
1973	623	505	81.0	118	19.0	10,157
1974	543	454	83.6	89	16.4	10,700
1975	500	431	86.2	69	13.8	11,200
1976	544	472	86.8	72	13.2	11,744
1977	679	590	86.9	89	13.1	12,423
1978	780	680	87.2	100	12.8	13,203
1979	816	722	88.5	94	11.5	14,019
1980	716	629	87.8	87	12.2	14,735
1981	616	540	87.7	76	12.3	15,351
1982	899	789	87.8	110	12.2	16,250
1983	950	803	84.5	147	15.5	17,200
1984	971	822	84.7	149	15.3	18,171
1985	1,123	947	84.3	176	15.7	19,294
1986	834	723	86.7	111	13.3	20,128

TABLE VIII

Comparative Analysis of Journeyman Examinations
Given Annually by State Plumbing Board

	<u>Examined</u>	<u>Passed</u>	<u>Percent Passed</u>	<u>Failed</u>	<u>Percent Failed</u>	<u>Total Examined</u>
1947	86	68	79.0	18	21.0	86
1948	1,196	926	77.4	270	22.6	1,282
1949	936	751	80.2	185	19.8	2,218
1950	1,051	690	65.6	361	34.4	3,269
1951	751	421	56.0	330	44.0	4,020
1952	725	415	57.3	310	42.7	4,745
1953	625	414	66.2	211	33.8	5,370
1954	664	410	61.7	254	38.3	6,034
1955	760	544	71.6	216	28.4	6,794
1956	605	417	69.0	188	31.0	7,399
1957	455	323	71.0	132	29.0	7,854
1958	623	432	69.3	191	30.7	8,477
1959	757	528	69.9	229	30.1	9,234
1960	579	413	71.3	166	28.7	9,813
1961	500	379	75.9	121	24.1	10,313
1962	615	463	75.3	152	24.7	10,928
1963	751	585	77.9	166	22.1	11,679
1964	780	588	75.4	192	24.6	12,459
1965	728	442	60.7	286	39.3	13,187
1966	640	390	61.0	250	39.0	13,827
1967	696	459	65.8	237	34.2	14,523

TABLE VIII - continued

	<u>Examined</u>	<u>Passed</u>	<u>Percent Passed</u>	<u>Failed</u>	<u>Percent Failed</u>	<u>Total Examined</u>
1968	956	550	57.5	406	42.5	15,479
1969	1,161	575	65.8	404	34.2	16,640
1970	979	626	64.0	353	36.0	17,619
1971	1,122	817	72.8	305	27.2	18,741
1972	1,568	1,030	69.1	538	34.3	20,309
1973	1,221	861	70.5	360	29.5	21,530
1974	1,128	863	76.5	265	23.5	22,658
1975	987	857	86.8	130	13.2	23,645
1976	1,137	909	80.0	228	20.0	24,782
1977	1,419	1,062	74.8	357	25.2	26,201
1978	1,558	1,164	74.7	394	25.3	27,759
1979	1,900	1,460	76.8	440	23.3	29,659
1980	1,740	1,188	68.3	552	31.7	31,399
1981	1,210	894	73.9	316	26.1	32,609
1982	1,401	990	70.7	411	29.3	34,010
1983	1,668	1,142	68.5	526	31.5	35,678
1984	2,089	1,458	69.8	631	30.2	37,767
1985	2,145	1,526	71.1	619	28.9	39,912
1986	1,826	1,206	66.1	620	33.9	41,738

TABLE IX

Comparative Summary of Examinations
Given Annually by State Plumbing Board

	<u>Master</u>	<u>Journeyman</u>	<u>Inspector</u>	<u>Total</u>
1947	35	86	0	121
1948	338	1,196	37	1,571
1949	429	936	66	1,431
1950	426	1,051	45	1,522
1951	278	751	55	1,084
1952	419	725	49	1,193
1953	356	625	58	1,039
1954	311	664	48	1,023
1955	345	760	46	1,151
1956	331	605	58	994
1957	308	455	54	817
1958	303	623	64	990
1959	354	757	53	1,164
1960	389	579	59	1,027
1961	332	500	52	884
1962	349	615	29	993
1963	353	751	78	1,182
1964	424	780	62	1,266
1965	419	728	63	1,210
1966	307	640	83	1,030
1967	311	696	80	1,087

TABLE IX - continued

	<u>Master</u>	<u>Journeyman</u>	<u>Inspector</u>	<u>Total</u>
1968	354	956	82	1,392
1969	424	1,161	68	1,653
1970	412	979	65	1,456
1971	501	1,122	80	1,703
1972	726	1,568	129	2,423
1973	623	1,221	105	1,949
1974	543	1,128	93	1,764
1975	500	987	77	1,564
1976	544	1,137	95	1,776
1977	679	1,419	123	2,221
1978	780	1,558	123	2,461
1979	816	1,900	108	2,824
1980	716	1,740	105	2,561
1981	616	1,210	79	1,905
1982	899	1,401	106	2,406
1983	950	1,668	128	2,746
1984	971	2,089	138	3,198
1985	1,123	2,145	158	3,426
1986	834	1,826	153	2,813

EDUCATIONAL FACILITIES

OF

THE EXAMINATION CENTER

The Examination Center is visited each year by several groups of students, health officers, inspectors and others. Among the visiting groups this year were members of St. Philip's College (San Antonio), Texas Department of Health (Water Hygiene Division), San Antonio Area Vocational High School Students.

The Director of Special Programs attended the Southern Building Pre-Code Conference (Birmingham, Alabama) and Code Change Conference (Corpus Christi), International Association of Plumbing and Mechanical Officials, Change Committee Meeting (Fort Worth), Valley Building Officials Association (South Padre Island), Municipal Inspectors Training School (College Station), Inspectors Association Short School and Conference (San Antonio), Texas A & M University sponsored Cross Connection Backflow Prevention Device Testing Certification School (San Antonio), State Department of Health (Amarillo, Dallas, Austin), Arkansas Inspectors Association Annual Training Conference (Fort Smith, Arkansas), National Association of Plumbing, Heating, Cooling Contractors National Conference (Las Vegas, Nevada), Independent American Management Co. (Dallas), Food and Drug Administration (F.D.A.) Food and Drug Conference (New Orleans, Louisiana), Austin Master Plumbers Association (Austin), Central Texas College (Killeen), American Backflow Prevention Association (Denver, Colorado) and Temple Association of Master Plumbers (Temple).

Book Library Activity

The Board maintains a library of technical books on sanitary plumbing practices which it loans, upon request, to persons wishing to study for the examination.

There were 180 copies of the Model Code sent to applicants for the examination who had requested them as well as to other parties who manifested an interest. A total of 163 copies of the Model Code were loaned to City Plumbing Inspectors at various times.

Film Library Activity

The Board also maintains a library of educational films for use by schools, trade groups, inspection meetings, and other public institutions.

3 different films were used 105 times for various types of meetings.

The following tabulation shows the use of the films:

1. Cross-Connections: The Unseen Hazard

Mr. Neville Bryant, Chief Plumbing Inspector	Abilene
Mr. Robert A. Packheiser, McComis & Foster Inspections, Inc. (2)	Austin
Mr. John Steele, Texas Department of Labor and Standards	Austin
Mr. Mark D. Taylor, Christianson Plumbing Co.	Austin
Mr. Sinoel B. Contreras, Plumbing Inspector	Bishop
Mr. Jeff Hardin, Mechanical Engineer, U.S. Army Corps of Engineers	Carswell AFB
Mr. Bill Meador	Cedar Hill
Mr. Bill Sanders	Crane
Mr. Toni Cryer, Cryer Master Repair Plumbing, Inc.	Fort Worth
Mr. John Dill, Harlingen High School	Harlingen
Mr. Robert L. Boyles, Chief Plumbing Inspector	Humble
Mr. Robert Loving, Angelina Water Supply	Lufkin
Mr. Ben P. Torrez, Jr., City Office	Plano
Mr. Dewey Cooper, ALCOA	Rockdale
Mr. Darrell Riding, Building Official	Saginaw
Mr. B. L. Skaggs, Local No. 237	Texarkana
Mr. Mark A. Hardin, City of Terrell	Terrell
Mr. John Pratt, Texas State Technical Institute	Waco
Ms. Sally Claw, Associated Plumbing, Heating, Cooling Contractor of Jefferson County	Birmingham AL
Mr. Daniel I. Smith, Jr., Academy Plumbing	San Diego CA
Mr. Paul Borden, City Construction Inspector	Tutusville FL
Mr. John Jackson, Gwinnett County Water Authority	Buford GA
Mr. Jeff Robinson, Water Quality Supervisor, Indiana Vocational Technical College	Bloomington IN
Mr. C. Neil Ott, Howard Consultants, Inc.	Pittsboro IN
Mr. Harold Garrison, Kentucky-American Water Co.	Lexington KY
Mr. Rickey D. Lanier, Association of Mechanical Contractors of Lake Charles & Vicinity	Lake Charles LA
Mr. John Phillips, Washington Suburban Sanitary Commission	Laurel MD

Mr. Glen D. Thomas, City of Enid
 Mr. Robert Lashlee, Tennessee Division of Water
 Supply
 Mr. Emory Britt, Codes and Compliance

Enid OK
 Nashville TN
 Newport News VA

Uses by Plumbing Board Field Men and Chief Examiner:

Texas Department of Health
 Texas A&M University (Mechanical Seminar)
 Del Mar College
 Texas A&M University (Mechanical Seminar)
 Texas A&M University (Back Flow Seminar)
 Texas A&M University (Plumbing Seminar)

Austin
 College Station
 Corpus Christi
 El Paso
 Longview
 Pampa

2. Anybody Can Do It?

Mr. Neville H. Bryant, Chief Plumbing Inspector
 Mr. Roy Fewell, International Conference of
 Building Officials
 Mr. Robert A. Packheiser, McComis and Foster
 Inspections, Inc. (2)
 Mr. Mark D. Taylor, Christianson Plumbing Co.
 Mr. Sinoel B. Contreras, Director of Public Works
 Mr. Jeff Hardin, Mechanical Engineer, U.S. Army
 Corps of Engineers
 Mr. Bill Meador
 Mr. Bill Sanders
 Mr. Toni Cryer, Cryer Master Repair Plumbing, Inc.
 Mr. John Dill, Harlingen High School
 Texas Allied Marketing
 Mr. Robert L. Boyles, Chief Plumbing Inspector
 Mr. R. F. (Bob) Morris, Environmental Health
 and Safety
 Mr. Robert Loving, Angelina Water Supply
 Mr. Ben P. Torrez, Jr., City of Plano
 Mr. Dewey Cooper, ALCOA
 Ms. Renee Fife, Williamson County MUD #2
 Mr. Darrell Riding, Building Official
 Armstrong Plumbing Co.
 Mr. J. Bryson, City of Sherman
 Mr. Mark A. Hardin, City of Terrell
 Mr. B. L. Skaggs, Local No. 237
 Mr. John Pratt, Texas State Technical Institute

Ms. Sally Claw, Associated Plumbing, Heating
 Cooling Contractors of Jefferson County
 Mr. Daniel L. Smith, Jr., Academy Plumbing
 Mr. Al Kilpatrick
 Mr. Victor Fox, Plumbers' Local
 Mr. Paul Borden, Construction Inspector
 Mr. Jeff Robinson, Water Quality Supervisor,
 Indiana Vocational Technical College
 Mr. C. Neil Ott, Howard Consultants

Abilene
 Austin
 Austin
 Austin
 Bishop
 Carswell AFB
 Cedar Hill
 Crane
 Fort Worth
 Harlingen
 Houston
 Humble
 Lubbock
 Lufkin
 Plano
 Rockdale
 Round Rock
 Saginaw
 San Antonio
 Sherman
 Terrell
 Texarkana
 Waco

Birmingham AL
 San Diego CA
 Lakewood CO
 Miami Lakes FL
 Titusville FL
 Bloomington IN
 Pittsboro IN

Mr. Harold Garrison, Kentucky-American Water Co.	Lexington KY
Mr. Rickey D. Lanier, Assoc. Mech. Contractors of Lake Charles and vicinity	Lake Charles LA
Mr. John Phillips, Washington Suburban Sanitary Commission	Laurel MD
Mr. Glen D. Thomas, City of Enid (2)	Enid OK
Mr. Ardith J. Regdon, Allegheny County Health Dept.	Pittsburgh PA
Mr. John Ekman	Madison WI

Uses by Plumbing Board Field Men and Chief Examiner:

Watt's Regulator Company, Mr. Joe Hall	Austin
San Antonio Lee High School, (Vocational students)	Austin
Armstrong Plumbing Supply Company, (Austin Area Plumbers)	Austin
Texas Department of Health	Austin
Texas A&M (Mechanical Seminar)	College Station
Southern Building Code Congress International, (Annual Business Training Conference)	Corpus Christi
Del Mar College	Corpus Christi
Central Texas College	Killeen
Texas A&M University (Backflow Seminar)	Longview
Texas A&M Extension Service Class	San Antonio
Temple Plumbers and Apprentices	Temple
American Backflow Prevention Association	Denver CO
Department of Health and Human Services	New Orleans LA

3. All In A Day's Work

Mr. Robert A. Packheiser, McComis & Foster Inspections, Inc.	Austin
Mr. Mark D. Taylor, Christianson Plumbing Company	Austin
Mr. Bill Sanders	Crane
Mr. Toni Cryer, Cryer Master Repair Plumbing, Inc.	Fort Worth
Mr. John Dill, Harlingen High School	Harlingen
Mr. John Mireles, Chief Plumbing Inspector Armstrong Plumbing Company	Pleasanton
Mr. B. L. Skaggs, Local No. 237	San Antonio
	Texarkana
Associated Plumbing, Heating and Cooling Contractors of Jefferson County	Birmingham AL
Mr. Paul Borden, Construction Inspector	Titusville FL
Mr. Carl VanCleve, Director, Department of Housing, Buildings and Construction	Frankfort KY
Mr. Rickey D. Lanier	Lake Charles LA
Mr. Glen D. Thomas, Building Official	Enid OK

Uses by Plumbing Board Field Men and Chief Examiner:

Watt's Regulator Company	Austin
Del Mar College(2)	Corpus Christi
Southern Building Code Congress International (Annual Business Training Conference)	Corpus Christi

