

# Texas Municipal Retirement System

Actuarial Valuation Report  
as of December 31, 2019





May 28, 2020

Board of Trustees  
Texas Municipal Retirement System  
Austin, Texas

Dear Members of the Board:

**Subject: Actuarial Valuation Report (“our Report”) of the Texas Municipal Retirement System (“TMRS”) as of December 31, 2019**

This is the December 31, 2019 actuarial valuation of the Texas Municipal Retirement System (“TMRS” or the “System”) which determines the contribution rates for the calendar year beginning January 1, 2021. This report describes the current actuarial condition of TMRS, determines recommended employer contribution rates, and analyzes changes in these contribution rates. The results presented herein may not be applicable for other purposes. This report reflects the benefit provisions and contribution rates in effect for each of the 888 separate employer plans participating in TMRS. Separate liabilities and contribution rates are determined for each of the member cities. Valuations are prepared annually as of December 31<sup>st</sup>, the last day of the plan year.

The employer contribution rates for the units participating in TMRS are certified annually by the Board of Trustees (the “Board”), which is the intended user of this report. These rates are determined actuarially, based on the plan provisions in effect as of the valuation date and the actuarial assumptions and methodology adopted by the Board. The Board’s current policy is that the contribution rates determined by a given actuarial valuation become effective one (1) year after the valuation date. For example, the rates determined by this December 31, 2019 actuarial valuation will be applicable for the calendar year beginning January 1, 2021 and ending December 31, 2021.

#### **Financing objectives and funding policy**

The actuarial cost method and the amortization periods are set by Board policy. Contribution rates and liabilities are computed using the Entry Age Normal actuarial cost method. In TMRS, a city’s actuarially determined contribution rate consists of two components: the employer normal cost contribution rate and the prior service contribution rate, which is the amortization of any unfunded actuarial accrued liability. Both rates are determined as a percentage of active member payroll. In addition, a supplemental death benefit rate is determined annually for each participating employer, if applicable. These supplemental death benefit rates are listed in Section 5 of our Report.

### **Progress toward realization of financing objectives**

The funded ratio (the ratio of the actuarial value of assets to the actuarial accrued liability) is a standard measure of a plan's funded status. Given the plan's contribution allocation procedure, if all actuarial assumptions are met (including the assumption of the plan earning 6.75% on the actuarial valuation of assets) and absent future benefit changes, it is expected that:

1. The employer normal cost as a percentage of payroll will remain level,
2. The unfunded actuarial accrued liability will be fully amortized over the remaining amortization period of each city, and
3. The funded status of each city will converge gradually towards a 100% funded ratio.

The funded ratio of TMRS as a whole is 88.0% and increased from 87.1% in the prior valuation. This increase in the funded ratio from the prior valuation is primarily due to a gain from the investment return on the actuarial value of assets of 6.94% which is greater than the assumed rate of 6.75%, positive amortization on a system-wide basis, benefit decreases adopted during the year, as well as the upcoming COLA being less than assumed. (Please note that each city is responsible for its own assets and liabilities and will have its own funded ratio.) Absent the impact of the assumption changes discussed later in this report, the funded ratio would have increased to 88.2%. On a market value of assets basis, the funded ratio of TMRS as a whole is 89.4% compared to 82.1% in the prior valuation.

Unless otherwise indicated, each funded status measurement presented in this report is based upon the actuarial accrued liability and the actuarial value of assets. Unless otherwise indicated, with regards to any funded status measurements presented in this report:

1. The measurement is inappropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations.
2. The measurement would produce a different result if the market value of assets were used instead of the actuarial value of assets.

### **Benefit provisions and changes**

The benefit provisions reflected in this valuation are those which were in effect as of April 1, 2020. In addition to the 878 plans that are actively participating in TMRS, there are another ten (10) plans that are in inactive status. No new plan provisions occurred during 2019 that impacted the valuation results, other than individual changes adopted by the various municipalities.

Of the 878 active cities, 589 (67%) have adopted annually repeating updated service credits. In addition, 462 (53%) of the cities have adopted annually repeating annuity increases.

However, the larger participating employers have almost all adopted annually repeating benefits. Therefore, of the 114,384 actively contributing members, 90% are covered under an annually repeating



updated service credit benefit structure and 71% are covered under an annually repeating annuity increase structure.

One municipality began participation in the System during 2019. Exhibit VI in Section 1 of our Report shows this city, the number of contributing members, total payroll, and the 2021 retirement rates.

There were 62 cities which modified their pension benefit provisions since the prior valuation. Of these municipalities, 60 adopted changes which increased benefits, while 2 cities adopted changes which decreased benefits. A summary of these changes is provided in Section 7 of our Report, and the impact on each city's calculated retirement rate is shown in Section 3. The aggregate benefit changes and one new city decreased the overall liability of the System by \$35.1 million.

### **Assumptions and methods**

All actuarial assumptions and methods are described under Section 6 of our Report. Except for healthy post-retirement mortality and the mortality assumption used to develop certain Annuity Purchase Rates (APRs), the current actuarial assumptions were developed from the actuarial investigation of the experience of TMRS over the four year period from December 31, 2014 to December 31, 2018. These assumptions were adopted in 2019 and were first used in the current valuation. Please see the Actuarial Experience Investigation Study report dated October 15, 2019 for a detailed discussion of the analysis and changes to assumptions. The APRs currently used by the System to annuitize members' account balances at retirement were updated based on the mortality experience investigation study dated December 31, 2013, but, as part of the most recent experience study, the valuation assumes the mortality used for APRs and for valuation purposes will be equivalent over the longer term.

The results of the actuarial valuation are dependent on the actuarial assumptions used. Actual results can and almost certainly will differ, as actual experience deviates from the assumptions. Even seemingly minor changes in the assumptions can materially change the liabilities, calculated contribution rates and funding periods. The actuarial calculations presented in our Report are intended to provide information for rational decision making. The actuarial assumptions and methods used in our Report comply with the actuarial standards of practice (ASOPs) and the parameters for disclosure that appear in Governmental Accounting Standards Board Statement Number 67.

### **Data**

The TMRS staff supplied data for retired, active and inactive members as of December 31, 2019. We did not audit this data, but we did apply a number of tests to the data, and we concluded that it was reasonable and consistent with the prior year's data. The TMRS staff also supplied asset and financial information as of December 31, 2019.



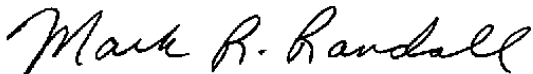
**Actuarial Certification**

This report is a summary of the actuarial valuation results. Additional detailed results are provided in the TMRS Comprehensive Annual Financial Report (CAFR). All of our work conforms with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board. In our opinion, our calculations also comply with the requirements of the TMRS Act and, where applicable, the Internal Revenue Code and the Statements of the Governmental Accounting Standards Board.

The undersigned are independent actuaries. They all are Members of the American Academy of Actuaries, meet all of the Qualification Standards of the American Academy of Actuaries, and are experienced in performing valuations for large public retirement systems.

Respectfully submitted,

**Gabriel, Roeder, Smith & Company**



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# SECTION 1

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## EXECUTIVE SUMMARY

## Executive Summary Pension Trust

Item	2019	2018
Membership		
• Member cities	888	887
• Number of		
- Active members	114,384	111,851
- Retirees and beneficiaries	69,625	66,051
- Inactive members	<u>65,560</u>	<u>62,465</u>
- Total	249,569	240,367
• Valuation Payroll (Projected next year)	\$ 6.985 billion	\$ 6.664 billion
• Prior Year Payroll	\$ 6.791 billion	\$ 6.444 billion
Minimum Contribution Rates	FY 2021	FY 2020
• Straight average	9.06%	8.96%
• Dollar weighted average	13.65%	13.58%
Assets		
• Market value	\$ 31.814 billion	\$ 27.684 billion
• Estimated yield on market value	15.4%	-3.1%
• Member contributions	\$ 453.6 million	\$ 427.8 million
• Employer contributions	930.2 million	881.5 million
• Benefit, refund, and expense payments	1,533.2 million	1,417.0 million
• Net external cash flow	(149.4) million	(107.7) million
Actuarial Information - Pension Trust		
• Actuarial accrued liability (AAL)	\$ 35.585 billion	\$ 33.731 billion
• Unfunded actuarial accrued liability (UAAL)	\$ 4.271 billion	\$ 4.346 billion
• UAAL as % of pay	62.9%	67.4%
• Funded ratio	88.0%	87.1%
• Employer normal cost % - Aggregate	8.72%	8.61%
• Actuarially Determined Employer Contribution -	13.65%	13.58%
• Equivalent Single Amortization Period	17.2 years	18.2 years
Number of Member Cities with:		
• Increase in Full Rate	413	408
• Decrease in Full Rate	439	435
• No change in Full Rate	25	31
• New cities	1	5
• Benefit changes (retirement only)	62	64
Changes in the UAAL		
• Interest	\$ 293.4 million	\$ 269.9 million
• Amortization payments	(340.1) million	(303.6) million
• Asset experience	(55.6) million	189.1 million
• Assumption/Methods changes	85.1 million	0.0 million
• Liability experience	(3.5) million	(48.8) million
• Benefit modifications/New Cities	(35.1) million	281.4 million
• Contributions different than actuarially calculated	(19.5) million	(39.7) million
• Total	\$ (75.3) million	\$ 348.3 million



## Executive Summary

### Supplemental Death Trust

Item	2019	2018
<b>Membership (TMRS Active Cities)</b>		
• Cities with only active coverage	3	3
- Number of members with active only coverage	453	447
- Valuation Payroll (Projected next year)	\$ 33.301 million	\$ 32.466 million
- Prior Year Payroll	\$ 32.389 million	\$ 30.757 million
• Cities with active and retiree coverage	763	765
- Number of members covered		
- Active members	76,500	74,588
- Retirees	32,039	30,453
- Inactive members	<u>9,957</u>	<u>9,555</u>
- Total	118,496	114,596
- Valuation Payroll (Projected next year)	\$ 4.648 billion	\$ 4.420 billion
- Prior Year Payroll	\$ 4.527 billion	\$ 4.279 billion
<b>Average Contribution Rates For Participating Cities</b>		
	FY 2021	FY 2020
• Straight Average		
- Active coverage	0.12%	0.17%
- Retiree coverage	0.16%	0.06%
• Dollar Weighted Average		
- Active coverage	0.10%	0.14%
- Retiree coverage	0.12%	0.04%
<b>Actuarial Information - OPEB</b>		
• Actuarial accrued liability (AAL)	\$ 185.9 million	\$ 187.0 million
• Fund Value of Assets	<u>14.1 million</u>	<u>17.3 million</u>
• Unfunded actuarial accrued liability (UAAL)	\$ 171.8 million	\$ 169.7 million
• UAAL as % of pay	3.8%	4.0%
• Funded ratio	7.6%	9.3%

**Exhibit I**  
**Summary of Systemwide Actuarial Valuation Results**

	<u>December 31, 2019</u>	<u>December 31, 2018</u>
<u>I. Valuation Results for Employer Plans</u>		
1. Actuarial accrued liability (AAL)		
a. Contributing Members	\$ 17,105,734,827	\$ 16,457,149,932
b. Noncontributing Members	3,011,206,330	2,870,775,962
c. Annuitants	<u>15,467,547,832</u>	<u>14,403,099,618</u>
d. Total AAL	\$ 35,584,488,989	\$ 33,731,025,512
2. Actuarial value of assets (AVA)		
a. Benefit Accumulation Fund (Smoothed)	\$ 30,946,277,182	\$ 29,055,971,226
b. Interest Reserve Account	337,766,129	296,780,871
c. Perpetual Endowment	24,261,288	22,069,330
d. Expense Fund	<u>5,152,398</u>	<u>9,884,037</u>
e. Total AVA	\$ 31,313,456,997	\$ 29,384,705,464
3. Total unfunded actuarial accrued liability (UAAL) [1d - 2e]	\$ 4,271,031,992	\$ 4,346,320,048
4. Funded Ratio [2 / 1]	88.0%	87.1%
<u>II. Valuation Results for Pooled Benefits</u>		
1. Actuarial present value of future benefits from the Supplemental Disability Benefits Fund for annuities in effect	\$ 390,393	\$ 425,555
2. Actuarial value of assets of the Supplemental Disability Benefits Fund	<u>\$ 348,960</u>	<u>\$ 390,771</u>
3. Unfunded/(overfunded) actuarial accrued liability [UAAL/(OAAL)] in Supplemental Disability Benefits Fund [1 - 2]	\$ 41,433	\$ 34,784
4. Funded Ratio [2 / 1]	89.4%	91.8%

**Exhibit II**  
**Plan Net Assets - Pension Trust**  
**(Assets at Market Value)**

	Valuation of	
	December 31, 2019	December 31, 2018
1. Market value of assets at beginning of year	\$ 27,683,629,439	\$ 28,649,374,617
2. Revenue for the year		
a. Contributions		
i. Employee	\$ 453,608,174	\$ 427,808,238
ii. Employer	930,236,155	881,531,535
iii. Total Contributions	\$ 1,383,844,329	\$ 1,309,339,773
b. Net investment income		
i. Interest and dividends	\$ 564,325,566	\$ 560,741,408
ii. Net apprec/(deprec) in fair value of investmen	3,757,666,033	(1,370,878,016)
iii. Net securities lending income	-	-
iv. Investment expenses	(42,506,302)	(47,986,353)
v. Net investment income	\$ 4,279,485,297	\$ (858,122,961)
c. Miscellaneous	\$ 32,880	\$ 18,501
d. Total revenue	\$ 5,663,362,506	\$ 451,235,313
3. Expenditures for the year		
a. Benefit payments		
i. Retirement benefits	\$ (1,247,542,653)	\$ (1,159,702,957)
ii. Disability benefits	(17,080,384)	(17,060,303)
iii. Partial lump sum payments	(180,929,339)	(158,490,461)
iv. Total benefit payments	\$ (1,445,552,376)	\$ (1,335,253,721)
b. Refund of contributions	\$ (62,685,940)	\$ (64,255,860)
c. Administrative expenses	(24,183,038)	(16,585,866)
d. Allocation to supplemental death benefits fund	(759,316)	(885,044)
e. Total expenditures	\$ (1,533,180,670)	\$ (1,416,980,491)
4. Increase in net assets (Item 2d + Item 3e)	\$ 4,130,181,836	\$ (965,745,178)
5. Market value of assets at end of year (Item 1 + Item 4)	\$ 31,813,811,275	\$ 27,683,629,439

**Exhibit III**  
**Development of Actuarial Value of Assets**  
**Benefit Accumulation Fund (BAF) Only**

	Year Ending December 31, 2019					
1. Actuarial value of assets at January 1	\$ 29,055,971,226					
2. Net external cash flow						
a. Employer and employee contributions	\$ 1,382,340,440					
b. Benefits and refunds paid	<u>(1,508,868,688)</u>					
c. Subtotal	\$ (126,528,248)					
3. Assumed rate of investment return for 2019	6.75%					
4. Expected investment return for 2019 (Item 1 x Item 3)	\$ 1,961,278,058					
5. Expected actuarial value of assets at December 31 (Item 1+ Item 2c + Item 4)	\$ 30,890,721,036					
6. Market value of assets at December 31	\$ 31,446,282,500					
7. Difference (Item 6 - Item 5)	\$ 555,561,464					
8. Development of amounts to be recognized at December 31, 2019:						
Remaining Deferrals						
Fiscal Year End	of Excess (Shortfall)	Offsetting of	Net Deferrals	Years	Recognized for	Remaining after
	of Investment	Gains/(Losses)	Remaining	Remaining	this valuation	this valuation
	Income					
	(1)	(2)	(3) = (1) + (2)	(4)	(5) = (3) / (4)	(6) = (3) - (5)
2015	\$ 0	\$ 0	\$ 0	6	\$ 0	\$ 0
2016	0	0	0	7	0	0
2017	0	0	0	8	0	0
2018	(1,701,466,796)	1,701,466,796	0	9	0	0
2019	<u>2,257,028,260</u>	<u>(1,701,466,796)</u>	<u>555,561,464</u>	<u>10</u>	<u>55,556,146</u>	<u>500,005,318</u>
Total	\$ 555,561,464	\$ 0	\$ 555,561,464		\$ 55,556,146	\$ 500,005,318
9. Preliminary Actuarial value of assets at December 31 (Item 6 - Item 8)	\$ 30,946,277,182					
10. Corridor Limits						
a. 88% of market value	\$ 27,672,728,600					
b. 112% of market value	35,219,836,400					
c. 33% adjustment back to corridor limits (if applicable)	-					
11. Final actuarial value of assets at December 31 (Item 9 + Item 10c)	<b>\$ 30,946,277,182</b>					
12. Asset gain (loss) for year (Item 11 - Item 5)	\$ 55,556,146					
13. Return on the Actuarial Value of Assets	6.94%					
14. Ratio of actuarial value to market value	98.4%					

Notes: Remaining deferrals in Column (1) for prior years are from last year's report column (6). The number in the current year is the difference between the remaining deferrals in for prior years and the total Excess/(Shortfall) return shown in Item 7. Column 2 is a direct offset of the current year's excess/(shortfall) return against prior years' excess/(shortfall) of the opposite type.



**EXHIBIT IV**

**Texas Municipal Retirement System**

CHANGES IN CONTRIBUTION RATES FROM 2020 TO 2021,  
WITHOUT IMPACT OF STATUTORY MAXIMUM OR PHASE-IN  
CITIES WITH 500 OR MORE CONTRIBUTING MEMBERS

CITY NAME	RETIREMENT PLAN CONTRIBUTION RATES ONLY				TOTAL CHANGE
	NORMAL COST		PRIOR SERVICE		
	2020	2021	2020	2021	
Abilene	7.63%	7.63%	3.42%	3.34%	-0.08%
Allen	10.43%	10.68%	3.57%	3.70%	0.38%
Amarillo	7.12%	7.37%	5.09%	4.95%	0.11%
Arlington	9.26%	9.56%	6.87%	7.26%	0.69%
Baytown	9.86%	10.15%	7.47%	7.52%	0.34%
Beaumont	9.70%	9.92%	9.71%	9.92%	0.43%
Brownsville	10.56%	10.77%	6.30%	6.23%	0.14%
Brownsville PUB	10.18%	10.25%	7.03%	7.32%	0.36%
Bryan	8.86%	9.05%	6.33%	6.33%	0.19%
Carrollton	8.33%	8.43%	3.79%	3.41%	-0.28%
College Station	8.53%	8.57%	4.66%	4.73%	0.11%
Corpus Christi	8.41%	8.61%	10.28%	9.34%	-0.74%
Denton	10.03%	10.37%	7.26%	7.24%	0.32%
Edinburg	8.67%	8.67%	5.65%	5.81%	0.16%
Flower Mound	7.90%	8.07%	2.87%	3.22%	0.52%
Frisco	11.16%	11.48%	2.91%	2.96%	0.37%
Garland	8.51%	8.59%	2.52%	2.60%	0.16%
Georgetown	9.08%	9.42%	3.05%	3.03%	0.32%
Grand Prairie	10.67%	11.00%	6.16%	6.24%	0.41%
Grapevine	11.48%	11.72%	7.05%	7.10%	0.29%
Irving	9.46%	9.71%	5.00%	5.00%	0.25%
Killeen	5.77%	5.46%	5.86%	5.87%	-0.30%
Laredo	9.96%	10.29%	10.81%	10.74%	0.26%
League City	9.35%	9.64%	5.37%	5.04%	-0.04%
Lewisville	10.25%	10.45%	6.32%	6.26%	0.14%
Longview	7.19%	7.42%	3.67%	3.78%	0.34%
Lubbock	9.92%	10.01%	7.65%	7.46%	-0.10%
Mansfield	10.88%	11.38%	4.51%	4.67%	0.66%
McAllen	4.83%	4.47%	3.83%	3.72%	-0.47%
McKinney	11.51%	11.48%	3.39%	3.45%	0.03%
Mesquite	8.14%	8.42%	9.09%	9.22%	0.41%
Midland	8.61%	8.25%	5.80%	6.28%	0.12%
Mission	6.45%	6.71%	2.07%	2.04%	0.23%
New Braunfels	11.22%	11.11%	5.63%	5.81%	0.07%
North Richland Hills	10.98%	11.32%	5.36%	5.51%	0.49%
Odessa	7.90%	8.19%	5.54%	5.68%	0.43%
Pasadena	9.23%	9.50%	4.23%	3.74%	-0.22%
Pearland	10.02%	9.88%	3.12%	3.22%	-0.04%
Pharr	5.30%	5.09%	2.56%	2.38%	-0.39%
Plano	11.33%	11.50%	5.38%	5.18%	-0.03%
Port Arthur	6.99%	7.22%	6.75%	6.70%	0.18%
Richardson	7.97%	7.98%	6.75%	6.82%	0.08%
Round Rock	10.78%	10.99%	4.57%	4.85%	0.49%
San Angelo	8.39%	8.18%	9.04%	9.15%	-0.10%
San Antonio	6.78%	7.05%	5.16%	4.93%	0.04%
San Antonio Water System	2.04%	2.11%	1.60%	1.63%	0.10%
San Marcos	10.31%	10.67%	6.98%	7.32%	0.70%
Sugar Land	11.03%	10.84%	3.57%	3.59%	-0.17%
Temple	10.12%	10.47%	6.79%	6.58%	0.14%
Tyler	9.23%	9.42%	11.76%	11.63%	0.06%
Victoria	7.61%	7.66%	8.69%	8.66%	0.02%
Waco	7.50%	7.70%	6.83%	6.99%	0.36%
Wichita Falls	6.92%	6.91%	9.40%	9.66%	0.25%
Average - 53 Cities	8.87%	9.01%	5.76%	5.77%	0.15%



## EXHIBIT V

### TEXAS MUNICIPAL RETIREMENT SYSTEM

CITIES WITH THE 2021 RETIREMENT RATE (INCLUDING PHASE-IN, IF APPLICABLE)  
AT THE STATUTORY MAXIMUM, BASED ON THE DECEMBER 31, 2019 VALUATION

CITY NAME	<u>2020 RETIREMENT PLAN ONLY</u>		<u>2021 RETIREMENT PLAN ONLY</u>		RATE LIMITED TO STATUTORY MAXIMUM
	FULL RATE	PHASE IN MINIMUM	FULL RATE	PHASE IN MINIMUM	
Blooming Grove	10.78%	10.78%	11.77%	11.77%	11.50%
Hickory Creek	11.95%	11.95%	13.69%	13.69%	13.50%
Hooks	13.46%	13.46%	13.52%	13.52%	13.50%
Shavano Park	13.35%	13.35%	13.74%	13.74%	13.50%
Sunset Valley	13.18%	13.18%	13.97%	13.97%	13.50%

## EXHIBIT VI

### TEXAS MUNICIPAL RETIREMENT SYSTEM

#### CITIES BEGINNING PARTICIPATION IN 2019

CITY NUMBER	CITY NAME	PARTICIPATION DATE	CONTRIBUTING MEMBERS	ANNUAL COMPENSATION	NORMAL COST	PRIOR SERVICE	TOTAL
00749	Lindsay	02-19	4	\$ 154,734	4.27%	0.59%	4.86%

## **SECTION 2**

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### **2021 CONTRIBUTION RATES, INCLUDING A COMPARISON WITH 2020 RATES**



**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
4	Abernathy	16	17	2.64%	1.21%	3.85%	0.27%	4.12%	2.62%	1.08%	3.70%	0.20%	3.90%	-0.22%	3.90%	7.50%
6	Abilene	1,026	1,043	7.63%	3.42%	11.05%	0.25%	11.30%	7.63%	3.34%	10.97%	0.36%	11.33%	0.03%	11.33%	NO MAX
7	Addison	263	270	8.43%	2.63%	11.06%	0.16%	11.22%	8.57%	2.81%	11.38%	0.18%	11.56%	0.34%	11.56%	15.50%
8	Agua Dulce	4	3	2.13%	5.64%	7.77%	0.16%	7.93%	2.13%	5.51%	7.64%	0.14%	7.78%	-0.15%	7.78%	NO MAX
10	Alamo	147	143	4.99%	1.31%	6.30%	0.19%	6.49%	4.87%	1.33%	6.20%	0.20%	6.40%	-0.09%	6.40%	9.50%
12	Alamo Heights	97	97	9.88%	7.03%	16.91%	0.22%	17.13%	9.69%	6.78%	16.47%	0.24%	16.71%	-0.42%	16.71%	NO MAX
14	Alba	5	5	4.80%	7.80%	12.60%	0.21%	12.81%	4.58%	9.18%	13.76%	0.15%	13.91%	1.10%	13.91%	NO MAX
16	Albany	16	17	4.06%	1.42%	5.48%	0.44%	5.92%	4.07%	1.43%	5.50%	0.45%	5.95%	0.03%	5.95%	9.50%
17	Aledo	13	14	10.05%	3.05%	13.10%	0.17%	13.27%	10.19%	3.60%	13.79%	0.27%	14.06%	0.79%	14.06%	NO MAX
18	Alice	206	202	5.22%	-0.42%	4.80%	0.00%	4.80%	5.13%	-0.55%	4.58%	0.00%	4.58%	-0.22%	4.58%	11.50%
19	Allen	751	774	10.43%	3.57%	14.00%	0.15%	14.15%	10.68%	3.70%	14.38%	0.13%	14.51%	0.36%	14.51%	NO MAX
20	Alpine	79	82	3.51%	-2.63%	0.88%	0.19%	1.07%	3.61%	-1.60%	2.01%	0.23%	2.24%	1.17%	1.87%	11.50%
22	Alto	14	13	9.85%	0.90%	10.75%	0.22%	10.97%	10.75%	1.03%	11.78%	0.45%	12.23%	1.26%	12.23%	13.50%
23	Alton	83	85	12.36%	0.98%	13.34%	0.16%	13.50%	10.14%	0.96%	11.10%	0.14%	11.24%	-2.26%	11.24%	13.50%
24	Alvarado	64	61	4.75%	0.61%	5.36%	0.15%	5.51%	4.58%	0.76%	5.34%	0.13%	5.47%	-0.04%	5.47%	NO MAX
26	Alvin	214	216	9.86%	7.14%	17.00%	0.16%	17.16%	9.76%	7.57%	17.33%	0.21%	17.54%	0.38%	17.54%	NO MAX
28	Alvord	7	7	4.98%	0.80%	5.78%	0.30%	6.08%	5.28%	0.34%	5.62%	0.50%	6.12%	0.04%	6.12%	NO MAX
30	Amarillo	1,831	1,825	7.12%	5.09%	12.21%	0.00%	12.21%	7.37%	4.95%	12.32%	0.00%	12.32%	0.11%	12.32%	NO MAX
32	Amherst	3	5	4.33%	-4.33%	0.00%	0.00%	0.00%	4.07%	-4.07%	0.00%	0.00%	0.00%	0.00%	0.00%	NO MAX
34	Anahuac	11	10	7.04%	1.62%	8.66%	0.15%	8.81%	7.20%	1.39%	8.59%	0.27%	8.86%	0.05%	8.86%	NO MAX
36	Andrews	70	77	8.72%	7.26%	15.98%	0.00%	15.98%	8.89%	7.29%	16.18%	0.00%	16.18%	0.20%	16.18%	NO MAX
38	Angleton	124	129	8.53%	3.68%	12.21%	0.23%	12.44%	8.37%	3.68%	12.05%	0.23%	12.28%	-0.16%	12.28%	NO MAX
40	Anna	76	89	12.78%	1.31%	14.09%	0.13%	14.22%	12.49%	1.60%	14.09%	0.09%	14.18%	-0.04%	14.18%	NO MAX
41	Annetta	2	2	8.60%	0.22%	8.82%	0.10%	8.92%	8.72%	0.73%	9.45%	0.09%	9.54%	0.62%	9.54%	NO MAX
44	Anson	25	25	1.14%	-0.57%	0.57%	0.22%	0.79%	1.19%	-0.48%	0.71%	0.28%	0.99%	0.20%	0.99%	7.50%
45	Anthony	31	35	1.44%	1.75%	3.19%	0.15%	3.34%	1.23%	1.65%	2.88%	0.13%	3.01%	-0.33%	3.01%	NO MAX
48	Aransas Pass	108	110	7.21%	2.58%	9.79%	0.21%	10.00%	7.42%	2.45%	9.87%	0.23%	10.10%	0.10%	10.10%	NO MAX
50	Archer City	18	18	3.63%	0.62%	4.25%	0.34%	4.59%	3.46%	0.61%	4.07%	0.38%	4.45%	-0.14%	4.45%	9.50%
49	Arcola	14	15	2.09%	1.96%	4.05%	0.18%	4.23%	2.16%	1.77%	3.93%	0.14%	4.07%	-0.16%	4.07%	NO MAX
51	Argyle	26	27	11.56%	1.86%	13.42%	0.00%	13.42%	11.97%	0.91%	12.88%	0.00%	12.88%	-0.54%	12.88%	NO MAX
52	Arlington	2,551	2,578	9.26%	6.87%	16.13%	0.16%	16.29%	9.56%	7.26%	16.82%	0.19%	17.01%	0.72%	16.87%	NO MAX
54	Arp	7	10	2.41%	-1.27%	1.14%	0.12%	1.26%	2.57%	-0.81%	1.76%	0.21%	1.97%	0.71%	1.92%	7.50%
60	Aspermont	6	7	1.41%	-1.41%	0.00%	0.20%	0.20%	1.31%	-1.31%	0.00%	0.28%	0.28%	0.08%	0.28%	7.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
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CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
62	Athens	121	116	9.05%	6.41%	15.46%	0.16%	15.62%	9.16%	7.29%	16.45%	0.21%	16.66%	1.04%	16.66%	NO MAX
64	Atlanta	41	41	5.38%	1.69%	7.07%	0.23%	7.30%	5.31%	1.66%	6.97%	0.26%	7.23%	-0.07%	7.23%	9.50%
66	Aubrey	63	67	5.62%	0.29%	5.91%	0.15%	6.06%	5.54%	0.10%	5.64%	0.11%	5.75%	-0.31%	5.75%	13.50%
74	Avinger	2	2	3.01%	-0.99%	2.02%	0.22%	2.24%	2.74%	-0.61%	2.13%	0.15%	2.28%	0.04%	2.28%	9.50%
75	Azle	126	128	8.68%	3.82%	12.50%	0.17%	12.67%	8.40%	3.78%	12.18%	0.19%	12.37%	-0.30%	12.37%	12.50%
77	Baird	11	11	1.71%	-0.63%	1.08%	0.17%	1.25%	1.76%	-0.63%	1.13%	0.16%	1.29%	0.04%	1.29%	NO MAX
78	Balch Springs	176	176	9.30%	4.30%	13.60%	0.16%	13.76%	9.22%	4.20%	13.42%	0.18%	13.60%	-0.16%	13.60%	NO MAX
79	Balcones Heights	53	52	8.61%	-0.69%	7.92%	0.21%	8.13%	8.65%	-0.82%	7.83%	0.25%	8.08%	-0.05%	8.08%	NO MAX
80	Ballinger	40	35	3.21%	0.35%	3.56%	0.29%	3.85%	3.12%	0.06%	3.18%	0.37%	3.55%	-0.30%	3.55%	7.50%
82	Balморhea	1	1	1.66%	-1.66%	0.00%	0.08%	0.08%	1.73%	-1.73%	0.00%	0.06%	0.06%	-0.02%	0.06%	NO MAX
83	Bandera	21	19	11.16%	-0.34%	10.82%	0.26%	11.08%	11.59%	-0.28%	11.31%	0.57%	11.88%	0.80%	11.88%	NO MAX
84	Bangs	12	12	10.71%	1.62%	12.33%	0.33%	12.66%	10.74%	1.22%	11.96%	0.26%	12.22%	-0.44%	12.22%	NO MAX
90	Bartlett	12	12	9.25%	-1.03%	8.22%	0.33%	8.55%	8.29%	-1.31%	6.98%	0.44%	7.42%	-1.13%	7.42%	11.50%
91	Bartonville	7	7	7.16%	8.39%	15.55%	0.11%	15.66%	7.14%	8.88%	16.02%	0.16%	16.18%	0.52%	16.13%	NO MAX
92	Bastrop	131	131	8.46%	2.83%	11.29%	0.18%	11.47%	8.59%	2.88%	11.47%	0.17%	11.64%	0.17%	11.64%	12.50%
94	Bay City	159	157	5.68%	3.94%	9.62%	0.22%	9.84%	5.71%	4.05%	9.76%	0.32%	10.08%	0.24%	10.08%	11.50%
93	Bayou Vista	8	7	3.35%	-0.69%	2.66%	0.13%	2.79%	3.27%	-0.61%	2.66%	0.20%	2.86%	0.07%	2.86%	NO MAX
96	Baytown	834	855	9.86%	7.47%	17.33%	0.15%	17.48%	10.15%	7.52%	17.67%	0.16%	17.83%	0.35%	17.83%	NO MAX
98	Beaumont	1,000	1,003	9.70%	9.71%	19.41%	0.00%	19.41%	9.92%	9.92%	19.84%	0.00%	19.84%	0.43%	19.84%	NO MAX
100	Bedford	343	339	5.59%	3.33%	8.92%	0.00%	8.92%	5.48%	3.37%	8.85%	0.00%	8.85%	-0.07%	8.85%	NO MAX
101	Bee Cave	44	46	8.21%	0.76%	8.97%	0.15%	9.12%	7.99%	1.15%	9.14%	0.14%	9.28%	0.16%	9.28%	13.50%
102	Beeville	97	101	3.63%	-3.20%	0.43%	0.00%	0.43%	3.41%	-2.15%	1.26%	0.00%	1.26%	0.83%	0.93%	11.50%
106	Bellaire	153	159	11.23%	8.97%	20.20%	0.21%	20.41%	11.12%	9.02%	20.14%	0.24%	20.38%	-0.03%	20.38%	NO MAX
109	Bellmead	74	74	8.60%	0.03%	8.63%	0.19%	8.82%	8.73%	-0.80%	7.93%	0.21%	8.14%	-0.68%	8.14%	12.50%
110	Bells	10	11	4.46%	-1.58%	2.88%	0.11%	2.99%	4.35%	-0.92%	3.43%	0.17%	3.60%	0.61%	3.55%	NO MAX
112	Bellville	50	50	6.35%	9.43%	15.78%	0.27%	16.05%	6.70%	9.92%	16.62%	0.40%	17.02%	0.97%	17.02%	NO MAX
114	Belton	170	168	6.56%	1.55%	8.11%	0.17%	8.28%	6.40%	1.72%	8.12%	0.22%	8.34%	0.06%	8.34%	12.50%
118	Benbrook	121	126	11.60%	4.84%	16.44%	0.15%	16.59%	11.63%	4.95%	16.58%	0.16%	16.74%	0.15%	16.74%	NO MAX
121	Berryville	2	3	3.79%	-0.40%	3.39%	0.44%	3.83%	4.05%	-0.28%	3.77%	0.92%	4.69%	0.86%	4.69%	9.50%
123	Bertram	13	14	4.57%	0.33%	4.90%	0.00%	4.90%	4.20%	0.08%	4.28%	0.00%	4.28%	-0.62%	4.28%	11.50%
124	Big Lake	26	23	6.98%	10.53%	17.51%	0.25%	17.76%	7.49%	11.01%	18.50%	0.28%	18.78%	1.02%	18.54%	NO MAX
126	Big Sandy	10	11	1.36%	1.13%	2.49%	0.22%	2.71%	1.47%	1.56%	3.03%	0.36%	3.39%	0.68%	3.39%	7.50%
128	Big Spring	175	177	8.86%	8.58%	17.44%	0.30%	17.74%	8.75%	9.23%	17.98%	0.46%	18.44%	0.70%	18.40%	NO MAX

**SECTION 2**  
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		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
132	Bishop	23	21	2.98%	0.54%	3.52%	0.25%	3.77%	3.02%	0.00%	3.02%	0.36%	3.38%	-0.39%	3.38%	11.50%
134	Blanco	21	23	6.07%	0.48%	6.55%	0.18%	6.73%	5.72%	0.55%	6.27%	0.21%	6.48%	-0.25%	6.48%	13.50%
140	Blooming Grove	5	4	6.65%	4.13%	10.78%	0.15%	10.93%	6.92%	4.85%	11.77%	0.26%	12.03%	1.10%	12.03%	11.50%
142	Blossom	4	4	5.81%	-1.70%	4.11%	0.58%	4.69%	5.61%	-0.91%	4.70%	0.93%	5.63%	0.94%	5.63%	11.50%
143	Blue Mound	23	22	4.49%	0.19%	4.68%	0.10%	4.78%	4.41%	0.07%	4.48%	0.14%	4.62%	-0.16%	4.62%	NO MAX
144	Blue Ridge	5	6	2.99%	-1.20%	1.79%	0.19%	1.98%	2.84%	-0.83%	2.01%	0.36%	2.37%	0.39%	2.37%	NO MAX
148	Boerne	259	264	11.49%	6.86%	18.35%	0.17%	18.52%	11.73%	7.02%	18.75%	0.17%	18.92%	0.40%	18.92%	NO MAX
150	Bogata	10	10	1.48%	-1.34%	0.14%	0.16%	0.30%	1.43%	-0.81%	0.62%	0.21%	0.83%	0.53%	0.83%	7.50%
152	Bonham	111	107	6.33%	2.29%	8.62%	0.00%	8.62%	6.34%	2.97%	9.31%	0.00%	9.31%	0.69%	9.31%	12.50%
154	Booker	10	10	5.64%	0.00%	5.64%	0.34%	5.98%	5.54%	0.21%	5.75%	0.29%	6.04%	0.06%	6.04%	9.50%
156	Borger	170	166	9.18%	4.69%	13.87%	0.19%	14.06%	8.88%	4.27%	13.15%	0.30%	13.45%	-0.61%	13.45%	NO MAX
158	Bovina	11	10	1.19%	-0.96%	0.23%	0.19%	0.42%	1.24%	-0.53%	0.71%	0.44%	1.15%	0.73%	1.15%	7.50%
160	Bowie	80	82	7.04%	2.53%	9.57%	0.25%	9.82%	7.20%	2.28%	9.48%	0.34%	9.82%	0.00%	9.82%	11.50%
162	Boyd	16	17	4.29%	-0.19%	4.10%	0.00%	4.10%	3.79%	-0.09%	3.70%	0.00%	3.70%	-0.40%	3.70%	11.50%
166	Brady	98	97	8.41%	1.42%	9.83%	0.26%	10.09%	8.39%	1.24%	9.63%	0.27%	9.90%	-0.19%	9.90%	12.50%
170	Brazoria	28	28	5.78%	-0.14%	5.64%	0.21%	5.85%	6.11%	-0.11%	6.00%	0.31%	6.31%	0.46%	6.31%	11.50%
172	Breckenridge	66	65	4.69%	2.24%	6.93%	0.28%	7.21%	4.70%	2.26%	6.96%	0.38%	7.34%	0.13%	7.34%	NO MAX
174	Bremond	6	7	5.67%	10.30%	15.97%	0.31%	16.28%	6.32%	8.23%	14.55%	0.56%	15.11%	-1.17%	15.11%	NO MAX
176	Brenham	206	202	5.02%	4.92%	9.94%	0.00%	9.94%	4.91%	5.10%	10.01%	0.00%	10.01%	0.07%	10.01%	NO MAX
177	Bridge City	58	58	9.34%	5.79%	15.13%	0.28%	15.41%	9.81%	4.95%	14.76%	0.29%	15.05%	-0.36%	15.05%	NO MAX
178	Bridgeport	57	66	9.20%	4.47%	13.67%	0.20%	13.87%	9.02%	4.62%	13.64%	0.24%	13.88%	0.01%	13.88%	NO MAX
180	Bronte	3	3	2.58%	10.51%	13.09%	0.24%	13.33%	2.56%	10.17%	12.73%	0.23%	12.96%	-0.37%	12.96%	NO MAX
182	Brookshire	40	39	6.87%	1.81%	8.68%	0.19%	8.87%	7.05%	1.80%	8.85%	0.15%	9.00%	0.13%	9.00%	12.50%
184	Brownfield	91	86	5.38%	-1.46%	3.92%	0.00%	3.92%	5.51%	-1.47%	4.04%	0.00%	4.04%	0.12%	4.04%	NO MAX
186	Brownsboro	9	9	1.82%	8.59%	10.41%	0.41%	10.82%	1.64%	9.18%	10.82%	0.28%	11.10%	0.28%	11.10%	NO MAX
10188	Brownsville	1,144	1,102	10.56%	6.30%	16.86%	0.18%	17.04%	10.77%	6.23%	17.00%	0.24%	17.24%	0.20%	17.24%	NO MAX
20188	Brownsville PUB	585	579	10.18%	7.03%	17.21%	0.21%	17.42%	10.25%	7.32%	17.57%	0.27%	17.84%	0.42%	17.84%	NO MAX
10190	Brownwood	227	228	8.54%	4.83%	13.37%	0.00%	13.37%	8.49%	4.62%	13.11%	0.00%	13.11%	-0.26%	13.11%	NO MAX
30190	Brownwood Health Dept.	11	12	7.94%	2.70%	10.64%	0.00%	10.64%	7.87%	3.80%	11.67%	0.00%	11.67%	1.03%	11.53%	NO MAX
20190	Brownwood Public Library	10	10	5.37%	-0.93%	4.44%	0.00%	4.44%	5.25%	-0.60%	4.65%	0.00%	4.65%	0.21%	4.65%	11.50%
195	Bruceville-Eddy	17	15	5.89%	-0.17%	5.72%	0.17%	5.89%	5.62%	-0.52%	5.10%	0.30%	5.40%	-0.49%	5.40%	11.50%
192	Bryan	877	889	8.86%	6.33%	15.19%	0.00%	15.19%	9.05%	6.33%	15.38%	0.00%	15.38%	0.19%	15.38%	NO MAX
193	Bryson	3	3	6.37%	-6.37%	0.00%	0.00%	0.00%	6.35%	-6.29%	0.06%	0.00%	0.06%	0.06%	0.06%	13.50%

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		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
194	Buda	108	113	11.75%	2.01%	13.76%	0.17%	13.93%	11.78%	1.98%	13.76%	0.14%	13.90%	-0.03%	13.90%	NO MAX
196	Buffalo	17	20	4.77%	0.05%	4.82%	0.42%	5.24%	4.41%	-0.18%	4.23%	0.42%	4.65%	-0.59%	4.65%	11.50%
198	Bullard	27	26	7.06%	2.87%	9.93%	0.19%	10.12%	7.10%	3.42%	10.52%	0.18%	10.70%	0.58%	10.70%	12.50%
203	Bulverde	27	27	8.52%	1.48%	10.00%	0.14%	10.14%	8.45%	0.81%	9.26%	0.11%	9.37%	-0.77%	9.37%	NO MAX
199	Bunker Hill Village	8	8	9.52%	0.66%	10.18%	0.20%	10.38%	9.53%	1.19%	10.72%	0.24%	10.96%	0.58%	10.96%	NO MAX
200	Burkburnett	72	74	6.47%	3.81%	10.28%	0.27%	10.55%	6.79%	3.41%	10.20%	0.41%	10.61%	0.06%	10.61%	NO MAX
202	Burleson	335	347	10.45%	5.02%	15.47%	0.14%	15.61%	10.87%	5.16%	16.03%	0.13%	16.16%	0.55%	16.12%	NO MAX
204	Burnet	116	119	9.23%	3.77%	13.00%	0.16%	13.16%	9.31%	3.53%	12.84%	0.18%	13.02%	-0.14%	13.02%	13.50%
207	Cactus	39	41	5.15%	0.03%	5.18%	0.15%	5.33%	4.87%	0.16%	5.03%	0.22%	5.25%	-0.08%	5.25%	13.50%
208	Caddo Mills	12	15	5.44%	0.35%	5.79%	0.15%	5.94%	5.15%	0.39%	5.54%	0.14%	5.68%	-0.26%	5.68%	NO MAX
210	Caldwell	58	54	5.84%	2.29%	8.13%	0.39%	8.52%	5.75%	1.47%	7.22%	0.45%	7.67%	-0.85%	7.67%	11.50%
212	Calvert	11	10	2.05%	-0.89%	1.16%	0.33%	1.49%	2.05%	-0.65%	1.40%	0.35%	1.75%	0.26%	1.75%	NO MAX
214	Cameron	41	43	5.39%	4.90%	10.29%	0.26%	10.55%	5.37%	4.89%	10.26%	0.32%	10.58%	0.03%	10.58%	NO MAX
216	Campbell	2	2	1.70%	40.05%	41.75%	0.22%	41.97%	1.50%	39.59%	41.09%	0.17%	41.26%	-0.71%	41.26%	NO MAX
220	Canadian	20	20	9.55%	7.55%	17.10%	0.20%	17.30%	9.73%	8.27%	18.00%	0.24%	18.24%	0.94%	18.04%	NO MAX
221	Caney City	4	2	1.81%	-0.38%	1.43%	0.08%	1.51%	2.94%	-0.32%	2.62%	0.14%	2.76%	1.25%	2.76%	NO MAX
222	Canton	66	70	8.08%	3.53%	11.61%	0.23%	11.84%	8.22%	3.56%	11.78%	0.24%	12.02%	0.18%	12.02%	NO MAX
224	Canyon	100	96	10.35%	3.77%	14.12%	0.20%	14.32%	10.04%	3.81%	13.85%	0.21%	14.06%	-0.26%	14.06%	NO MAX
227	Carmine	2	2	2.68%	-0.73%	1.95%	0.08%	2.03%	2.81%	-2.60%	0.21%	0.05%	0.26%	-1.77%	0.26%	7.50%
228	Carrizo Springs	40	49	4.81%	0.52%	5.33%	0.30%	5.63%	4.70%	0.33%	5.03%	0.40%	5.43%	-0.20%	5.43%	9.50%
230	Carrollton	802	817	8.33%	3.79%	12.12%	0.00%	12.12%	8.43%	3.41%	11.84%	0.00%	11.84%	-0.28%	11.84%	NO MAX
232	Carthage	73	73	9.00%	8.97%	17.97%	0.28%	18.25%	9.20%	9.42%	18.62%	0.34%	18.96%	0.71%	18.88%	NO MAX
231	Castle Hills	60	60	8.46%	3.92%	12.38%	0.17%	12.55%	8.43%	4.40%	12.83%	0.26%	13.09%	0.54%	13.09%	NO MAX
234	Castroville	42	41	7.24%	1.51%	8.75%	0.30%	9.05%	6.99%	1.55%	8.54%	0.43%	8.97%	-0.08%	8.97%	11.50%
238	Cedar Hill	340	342	9.68%	4.11%	13.79%	0.15%	13.94%	9.88%	4.21%	14.09%	0.16%	14.25%	0.31%	14.25%	NO MAX
239	Cedar Park	473	482	9.65%	4.71%	14.36%	0.12%	14.48%	9.75%	4.74%	14.49%	0.12%	14.61%	0.13%	14.61%	NO MAX
240	Celeste	2	4	3.04%	5.89%	8.93%	0.46%	9.39%	2.85%	2.45%	5.30%	0.37%	5.67%	-3.72%	5.67%	NO MAX
242	Celina	147	159	6.55%	-0.08%	6.47%	0.15%	6.62%	6.30%	-0.03%	6.27%	0.11%	6.38%	-0.24%	6.38%	13.50%
244	Center	69	73	9.83%	2.57%	12.40%	0.18%	12.58%	9.71%	2.36%	12.07%	0.23%	12.30%	-0.28%	12.30%	NO MAX
246	Centerville	5	5	6.84%	15.29%	22.13%	0.00%	22.13%	6.56%	13.71%	20.27%	0.00%	20.27%	-1.86%	20.27%	NO MAX
247	Chandler	26	26	3.64%	2.50%	6.14%	0.23%	6.37%	3.51%	2.62%	6.13%	0.24%	6.37%	0.00%	6.37%	NO MAX
248	Charlotte	8	9	4.66%	-0.87%	3.79%	0.18%	3.97%	4.56%	-1.67%	2.89%	0.15%	3.04%	-0.93%	3.04%	9.50%
249	Chester	2	2	6.91%	-6.29%	0.62%	0.95%	1.57%	5.97%	-5.77%	0.20%	0.65%	0.85%	-0.72%	0.85%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES					2021 RATES					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	WITHOUT MAXIMUM OR PHASE-IN					WITHOUT MAXIMUM OR PHASE-IN							
				RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST			PRIOR SERVICE	TOTAL						
245	Chico	7	6	2.23%	2.03%	4.26%	0.45%	4.71%	2.32%	0.92%	3.24%	0.83%	4.07%	-0.64%	4.07%	NO MAX
250	Childress	60	56	9.17%	6.34%	15.51%	0.31%	15.82%	9.09%	6.93%	16.02%	0.39%	16.41%	0.59%	16.41%	NO MAX
251	Chillicothe	6	6	2.18%	5.15%	7.33%	0.20%	7.53%	2.03%	5.28%	7.31%	0.15%	7.46%	-0.07%	7.46%	NO MAX
253	Chireno	6	6	9.69%	11.39%	21.08%	0.26%	21.34%	10.08%	12.19%	22.27%	0.53%	22.80%	1.46%	22.66%	NO MAX
254	Christine	1	1	0.71%	-0.71%	0.00%	0.00%	0.00%	0.76%	-0.76%	0.00%	0.00%	0.00%	0.00%	0.00%	NO MAX
255	Cibolo	127	138	10.75%	1.74%	12.49%	0.16%	12.65%	10.53%	1.97%	12.50%	0.12%	12.62%	-0.03%	12.62%	13.50%
256	Cisco	37	37	6.24%	0.15%	6.39%	0.21%	6.60%	6.27%	0.07%	6.34%	0.13%	6.47%	-0.13%	6.47%	11.50%
258	Clarendon	16	17	2.70%	-1.31%	1.39%	0.57%	1.96%	2.42%	-1.00%	1.42%	0.51%	1.93%	-0.03%	1.93%	9.50%
259	Clarksville	26	25	6.74%	-5.18%	1.56%	0.23%	1.79%	6.91%	-3.21%	3.70%	0.28%	3.98%	2.19%	2.58%	11.50%
260	Clarksville City	4	4	5.23%	-0.83%	4.40%	0.20%	4.60%	5.50%	-1.61%	3.89%	0.47%	4.36%	-0.24%	4.36%	NO MAX
263	Clear Lake Shores	18	17	9.01%	1.64%	10.65%	0.14%	10.79%	9.06%	1.71%	10.77%	0.13%	10.90%	0.11%	10.90%	12.50%
264	Cleburne	286	291	8.17%	7.89%	16.06%	0.22%	16.28%	7.92%	8.15%	16.07%	0.31%	16.38%	0.10%	16.38%	NO MAX
266	Cleveland	83	86	6.54%	3.99%	10.53%	0.23%	10.76%	6.58%	3.92%	10.50%	0.31%	10.81%	0.05%	10.81%	11.50%
268	Clifton	27	25	1.97%	-0.04%	1.93%	0.38%	2.31%	2.09%	-0.32%	1.77%	0.39%	2.16%	-0.15%	2.16%	7.50%
271	Clute	94	93	9.73%	0.56%	10.29%	0.16%	10.45%	9.82%	0.70%	10.52%	0.19%	10.71%	0.26%	10.71%	13.50%
272	Clyde	33	33	9.80%	3.18%	12.98%	0.22%	13.20%	9.95%	3.11%	13.06%	0.34%	13.40%	0.20%	13.40%	13.50%
274	Coahoma	5	5	6.50%	-0.23%	6.27%	0.25%	6.52%	6.60%	-0.12%	6.48%	0.40%	6.88%	0.36%	6.88%	11.50%
276	Cockrell Hill	31	32	9.60%	-1.52%	8.08%	0.20%	8.28%	9.70%	-0.58%	9.12%	0.22%	9.34%	1.06%	9.34%	13.50%
278	Coleman	67	56	9.27%	7.62%	16.89%	0.00%	16.89%	9.63%	7.29%	16.92%	0.00%	16.92%	0.03%	16.92%	NO MAX
280	College Station	908	922	8.53%	4.66%	13.19%	0.00%	13.19%	8.57%	4.73%	13.30%	0.00%	13.30%	0.11%	13.30%	NO MAX
281	Colleyville	177	187	8.61%	0.33%	8.94%	0.16%	9.10%	8.55%	0.84%	9.39%	0.18%	9.57%	0.47%	9.57%	13.50%
282	Collinsville	8	8	5.30%	0.13%	5.43%	0.25%	5.68%	5.02%	0.33%	5.35%	0.28%	5.63%	-0.05%	5.63%	12.50%
283	Colmesneil	4	4	3.70%	5.35%	9.05%	0.09%	9.14%	3.73%	5.53%	9.26%	0.08%	9.34%	0.20%	9.34%	NO MAX
284	Colorado City	45	43	8.28%	-0.24%	8.04%	0.43%	8.47%	7.96%	-0.33%	7.63%	0.67%	8.30%	-0.17%	8.30%	12.50%
286	Columbus	38	37	7.81%	4.65%	12.46%	0.25%	12.71%	7.64%	4.33%	11.97%	0.34%	12.31%	-0.40%	12.31%	NO MAX
288	Comanche	25	30	3.28%	1.69%	4.97%	0.34%	5.31%	3.10%	1.74%	4.84%	0.44%	5.28%	-0.03%	5.28%	7.50%
289	Combes	17	17	1.57%	5.35%	6.92%	0.24%	7.16%	1.46%	5.26%	6.72%	0.00%	6.72%	-0.44%	6.72%	NO MAX
290	Commerce	75	74	6.78%	1.72%	8.50%	0.23%	8.73%	6.49%	1.41%	7.90%	0.39%	8.29%	-0.44%	8.29%	11.50%
294	Conroe	430	474	9.68%	6.56%	16.24%	0.00%	16.24%	10.02%	6.28%	16.30%	0.00%	16.30%	0.06%	16.30%	NO MAX
295	Converse	165	173	9.55%	4.17%	13.72%	0.13%	13.85%	9.73%	4.28%	14.01%	0.15%	14.16%	0.31%	14.16%	NO MAX
298	Cooper	13	13	3.20%	1.82%	5.02%	0.27%	5.29%	3.21%	2.20%	5.41%	0.30%	5.71%	0.42%	5.71%	8.50%
299	Coppell	379	395	10.86%	4.71%	15.57%	0.15%	15.72%	11.24%	4.91%	16.15%	0.15%	16.30%	0.58%	16.30%	NO MAX
297	Copper Canyon	3	3	10.70%	2.59%	13.29%	0.55%	13.84%	9.44%	2.86%	12.30%	0.29%	12.59%	-1.25%	12.51%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
300	Copperas Cove	244	266	8.17%	3.89%	12.06%	0.20%	12.26%	8.29%	4.28%	12.57%	0.30%	12.87%	0.61%	12.87%	NO MAX
301	Corinth	144	163	11.33%	4.01%	15.34%	0.13%	15.47%	11.52%	3.93%	15.45%	0.15%	15.60%	0.13%	15.60%	NO MAX
302	Corpus Christi	2,419	2,455	8.41%	10.28%	18.69%	0.00%	18.69%	8.61%	9.34%	17.95%	0.00%	17.95%	-0.74%	17.95%	NO MAX
304	Corrigan	26	30	4.08%	-0.11%	3.97%	0.25%	4.22%	3.52%	-0.09%	3.43%	0.29%	3.72%	-0.50%	3.72%	11.50%
306	Corsicana	176	167	7.96%	7.41%	15.37%	0.23%	15.60%	7.74%	7.03%	14.77%	0.35%	15.12%	-0.48%	15.12%	NO MAX
308	Cotulla	39	42	4.76%	1.85%	6.61%	0.32%	6.93%	4.61%	1.84%	6.45%	0.32%	6.77%	-0.16%	6.77%	11.50%
310	Crandall	30	29	11.03%	-0.35%	10.68%	0.17%	10.85%	11.19%	-0.15%	11.04%	0.18%	11.22%	0.37%	11.22%	13.50%
312	Crane	25	24	9.72%	-1.71%	8.01%	0.20%	8.21%	9.43%	-1.31%	8.12%	0.31%	8.43%	0.22%	8.43%	15.50%
314	Crawford	5	6	1.23%	-0.44%	0.79%	0.00%	0.79%	1.20%	-0.22%	0.98%	0.00%	0.98%	0.19%	0.98%	7.50%
316	Crockett	52	56	6.54%	1.55%	8.09%	0.33%	8.42%	6.44%	2.16%	8.60%	0.47%	9.07%	0.65%	9.07%	11.50%
318	Crosbyton	10	9	5.43%	-0.41%	5.02%	0.77%	5.79%	5.69%	-1.54%	4.15%	1.62%	5.77%	-0.02%	5.77%	10.50%
320	Cross Plains	8	8	5.21%	2.95%	8.16%	0.18%	8.34%	5.28%	1.87%	7.15%	0.21%	7.36%	-0.98%	7.36%	9.50%
321	Cross Roads	11	11	7.10%	0.45%	7.55%	0.08%	7.63%	6.88%	0.58%	7.46%	0.07%	7.53%	-0.10%	7.53%	NO MAX
322	Crowell	8	7	1.59%	3.94%	5.53%	0.28%	5.81%	1.37%	4.53%	5.90%	0.10%	6.00%	0.19%	6.00%	NO MAX
323	Crowley	115	114	8.27%	2.68%	10.95%	0.14%	11.09%	8.24%	3.09%	11.33%	0.14%	11.47%	0.38%	11.47%	12.50%
324	Crystal City	51	52	4.08%	-3.47%	0.61%	0.00%	0.61%	3.87%	-1.97%	1.90%	0.00%	1.90%	1.29%	1.40%	13.50%
326	Cuero	90	85	6.98%	3.50%	10.48%	0.26%	10.74%	7.03%	3.63%	10.66%	0.30%	10.96%	0.22%	10.96%	11.50%
328	Cumby	10	10	1.33%	0.58%	1.91%	0.13%	2.04%	1.14%	0.53%	1.67%	0.11%	1.78%	-0.26%	1.78%	NO MAX
332	Daingerfield	18	18	5.65%	-0.05%	5.60%	0.00%	5.60%	5.71%	-0.06%	5.65%	0.00%	5.65%	0.05%	5.65%	9.50%
334	Daisetta	7	6	2.29%	-1.37%	0.92%	0.42%	1.34%	1.92%	-1.04%	0.88%	0.46%	1.34%	0.00%	1.34%	NO MAX
336	Dalhart	67	66	4.61%	0.17%	4.78%	0.20%	4.98%	4.80%	0.19%	4.99%	0.27%	5.26%	0.28%	5.26%	11.50%
339	Dalworthington Gardens	26	26	11.57%	9.42%	20.99%	0.13%	21.12%	12.34%	10.88%	23.22%	0.15%	23.37%	2.25%	22.79%	NO MAX
340	Danbury	9	7	4.66%	1.08%	5.74%	0.19%	5.93%	4.86%	1.18%	6.04%	0.19%	6.23%	0.30%	6.23%	NO MAX
341	Darrouzett	3	3	2.87%	1.26%	4.13%	0.34%	4.47%	3.93%	1.41%	5.34%	0.32%	5.66%	1.19%	5.66%	NO MAX
344	Dayton	97	106	5.74%	1.25%	6.99%	0.16%	7.15%	5.62%	0.96%	6.58%	0.18%	6.76%	-0.39%	6.76%	13.50%
352	De Leon	11	13	1.67%	0.09%	1.76%	0.28%	2.04%	1.84%	0.22%	2.06%	0.42%	2.48%	0.44%	2.48%	7.50%
10366	DeSoto	341	343	9.35%	1.59%	10.94%	0.19%	11.13%	9.30%	1.76%	11.06%	0.21%	11.27%	0.14%	11.27%	NO MAX
346	Decatur	114	116	10.73%	3.57%	14.30%	0.25%	14.55%	10.46%	3.38%	13.84%	0.25%	14.09%	-0.46%	14.09%	NO MAX
348	Deer Park	305	311	10.30%	3.48%	13.78%	0.20%	13.98%	10.39%	3.19%	13.58%	0.22%	13.80%	-0.18%	13.80%	NO MAX
350	Dekalb	14	16	3.67%	-1.24%	2.43%	0.20%	2.63%	3.62%	-0.64%	2.98%	0.23%	3.21%	0.58%	3.16%	9.50%
354	Del Rio	477	492	3.69%	3.76%	7.45%	0.22%	7.67%	3.41%	3.79%	7.20%	0.23%	7.43%	-0.24%	7.43%	NO MAX
353	Dell City	2	1	5.42%	3.75%	9.17%	0.20%	9.37%	4.75%	8.07%	12.82%	0.78%	13.60%	4.23%	13.60%	NO MAX
356	Denison	228	237	8.36%	3.80%	12.16%	0.00%	12.16%	7.99%	3.65%	11.64%	0.00%	11.64%	-0.52%	11.64%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES					2021 RATES					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	WITHOUT MAXIMUM OR PHASE-IN					WITHOUT MAXIMUM OR PHASE-IN							
				RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST			PRIOR SERVICE	TOTAL						
358	Denton	1,265	1,322	10.03%	7.26%	17.29%	0.17%	17.46%	10.37%	7.24%	17.61%	0.18%	17.79%	0.33%	17.79%	NO MAX
360	Denver City	24	31	6.59%	4.58%	11.17%	0.24%	11.41%	6.74%	3.39%	10.13%	0.30%	10.43%	-0.98%	10.43%	NO MAX
362	Deport	3	3	1.60%	0.28%	1.88%	0.14%	2.02%	1.57%	0.78%	2.35%	0.21%	2.56%	0.54%	2.56%	NO MAX
370	Devine	45	45	5.99%	10.63%	16.62%	0.16%	16.78%	6.11%	10.06%	16.17%	0.21%	16.38%	-0.40%	16.38%	NO MAX
371	Diboll	39	38	10.01%	4.66%	14.67%	0.19%	14.86%	10.31%	5.05%	15.36%	0.31%	15.67%	0.81%	15.56%	NO MAX
372	Dickens	2	2	2.82%	-0.85%	1.97%	0.07%	2.04%	2.91%	-0.55%	2.36%	0.06%	2.42%	0.38%	2.42%	NO MAX
373	Dickinson	92	97	7.67%	1.82%	9.49%	0.19%	9.68%	7.61%	2.16%	9.77%	0.18%	9.95%	0.27%	9.95%	13.50%
374	Dilley	37	40	6.91%	3.23%	10.14%	0.18%	10.32%	6.65%	2.76%	9.41%	0.22%	9.63%	-0.69%	9.63%	12.50%
376	Dimmitt	28	26	7.39%	-3.37%	4.02%	0.00%	4.02%	7.51%	-2.22%	5.29%	0.00%	5.29%	1.27%	4.52%	12.50%
382	Donna	138	144	7.49%	3.57%	11.06%	0.00%	11.06%	7.29%	3.82%	11.11%	0.00%	11.11%	0.05%	11.11%	13.50%
379	Double Oak	11	11	7.58%	0.70%	8.28%	0.33%	8.61%	7.02%	0.90%	7.92%	0.29%	8.21%	-0.40%	8.21%	NO MAX
383	Dripping Springs	24	26	5.22%	0.75%	5.97%	0.11%	6.08%	5.25%	0.63%	5.88%	0.12%	6.00%	-0.08%	6.00%	NO MAX
385	Driscoll	7	5	1.95%	0.00%	1.95%	0.29%	2.24%	1.97%	-0.07%	1.90%	0.35%	2.25%	0.01%	2.25%	NO MAX
384	Dublin	43	48	9.35%	3.08%	12.43%	0.21%	12.64%	9.53%	3.06%	12.59%	0.24%	12.83%	0.19%	12.83%	NO MAX
386	Dumas	111	114	8.31%	4.54%	12.85%	0.20%	13.05%	8.14%	4.78%	12.92%	0.21%	13.13%	0.08%	13.13%	NO MAX
388	Duncanville	257	263	5.66%	2.01%	7.67%	0.00%	7.67%	5.24%	1.88%	7.12%	0.00%	7.12%	-0.55%	7.12%	NO MAX
394	Eagle Lake	24	26	8.33%	1.59%	9.92%	0.31%	10.23%	8.23%	1.42%	9.65%	0.39%	10.04%	-0.19%	10.04%	12.50%
396	Eagle Pass	412	415	6.84%	1.70%	8.54%	0.21%	8.75%	6.69%	1.94%	8.63%	0.28%	8.91%	0.16%	8.91%	11.50%
397	Early	27	30	3.78%	-0.56%	3.22%	0.14%	3.36%	3.74%	-0.15%	3.59%	0.19%	3.78%	0.42%	3.78%	9.50%
399	Earth	5	7	2.15%	2.94%	5.09%	0.38%	5.47%	1.99%	4.43%	6.42%	0.49%	6.91%	1.44%	6.91%	NO MAX
393	East Bernard	5	5	3.46%	1.56%	5.02%	0.19%	5.21%	3.50%	1.81%	5.31%	0.17%	5.48%	0.27%	5.48%	NO MAX
401	East Mountain	1	1	13.89%	-0.81%	13.08%	0.28%	13.36%	14.59%	-0.26%	14.33%	0.44%	14.77%	1.41%	14.15%	NO MAX
395	East Tawakoni	9	10	5.90%	-0.63%	5.27%	0.23%	5.50%	6.53%	-0.31%	6.22%	0.33%	6.55%	1.05%	6.55%	NO MAX
398	Eastland	40	40	7.13%	1.85%	8.98%	0.31%	9.29%	7.29%	1.71%	9.00%	0.31%	9.31%	0.02%	9.31%	11.50%
402	Ector	4	4	2.23%	-0.29%	1.94%	0.40%	2.34%	1.94%	-0.24%	1.70%	0.25%	1.95%	-0.39%	1.95%	NO MAX
406	Eden	9	7	3.36%	-0.42%	2.94%	0.34%	3.28%	3.69%	-0.39%	3.30%	0.60%	3.90%	0.62%	3.90%	7.50%
408	Edgewood	11	11	4.89%	1.20%	6.09%	0.32%	6.41%	4.58%	1.23%	5.81%	0.41%	6.22%	-0.19%	6.22%	NO MAX
410	Edinburg	792	854	8.67%	5.65%	14.32%	0.15%	14.47%	8.67%	5.81%	14.48%	0.17%	14.65%	0.18%	14.65%	NO MAX
412	Edna	36	33	5.86%	4.81%	10.67%	0.29%	10.96%	5.73%	4.50%	10.23%	0.41%	10.64%	-0.32%	10.64%	NO MAX
414	El Campo	109	118	7.29%	6.44%	13.73%	0.20%	13.93%	7.07%	6.90%	13.97%	0.25%	14.22%	0.29%	14.22%	NO MAX
416	Eldorado	21	22	5.05%	2.16%	7.21%	0.36%	7.57%	5.09%	2.36%	7.45%	0.62%	8.07%	0.50%	8.07%	10.50%
418	Electra	26	28	1.60%	0.75%	2.35%	0.29%	2.64%	1.38%	0.50%	1.88%	0.43%	2.31%	-0.33%	2.31%	7.50%
420	Elgin	84	91	9.79%	3.97%	13.76%	0.27%	14.03%	9.89%	3.92%	13.81%	0.24%	14.05%	0.02%	14.05%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
422	Elkhart	7	9	3.40%	1.83%	5.23%	0.00%	5.23%	3.88%	0.41%	4.29%	0.00%	4.29%	-0.94%	4.29%	NO MAX
427	Elmendorf	16	17	1.49%	0.09%	1.58%	0.11%	1.69%	1.37%	0.10%	1.47%	0.14%	1.61%	-0.08%	1.61%	NO MAX
432	Emory	24	24	6.52%	0.22%	6.74%	0.20%	6.94%	6.29%	0.31%	6.60%	0.24%	6.84%	-0.10%	6.84%	13.50%
436	Ennis	193	190	11.77%	4.94%	16.71%	0.18%	16.89%	11.92%	4.81%	16.73%	0.25%	16.98%	0.09%	16.98%	NO MAX
439	Eules	382	383	11.15%	6.55%	17.70%	0.00%	17.70%	11.44%	6.58%	18.02%	0.00%	18.02%	0.32%	18.02%	NO MAX
440	Eustace	7	11	5.80%	4.83%	10.63%	0.24%	10.87%	5.82%	4.05%	9.87%	0.27%	10.14%	-0.73%	10.14%	13.50%
441	Everman	48	50	7.20%	2.19%	9.39%	0.31%	9.70%	7.04%	0.94%	7.98%	0.19%	8.17%	-1.53%	8.17%	11.50%
443	Fair Oaks Ranch	62	65	10.38%	1.33%	11.71%	0.14%	11.85%	10.34%	1.23%	11.57%	0.14%	11.71%	-0.14%	11.71%	13.50%
442	Fairfield	31	37	8.03%	-0.86%	7.17%	0.27%	7.44%	7.78%	-0.50%	7.28%	0.32%	7.60%	0.16%	7.60%	13.50%
445	Fairview	71	72	9.42%	1.35%	10.77%	0.17%	10.94%	9.45%	1.63%	11.08%	0.13%	11.21%	0.27%	11.21%	NO MAX
20444	Falfurrias	42	37	2.52%	0.81%	3.33%	0.22%	3.55%	2.48%	0.52%	3.00%	0.29%	3.29%	-0.26%	3.29%	9.50%
446	Falls City	4	4	5.18%	2.67%	7.85%	0.21%	8.06%	5.09%	2.36%	7.45%	0.15%	7.60%	-0.46%	7.60%	NO MAX
448	Farmers Branch	398	403	10.07%	8.93%	19.00%	0.14%	19.14%	10.08%	9.04%	19.12%	0.10%	19.22%	0.08%	19.22%	NO MAX
450	Farmersville	33	35	6.94%	1.80%	8.74%	0.23%	8.97%	6.86%	1.43%	8.29%	0.21%	8.50%	-0.47%	8.50%	NO MAX
451	Farwell	7	6	11.58%	4.15%	15.73%	0.16%	15.89%	12.08%	4.76%	16.84%	0.15%	16.99%	1.10%	16.92%	NO MAX
452	Fate	46	53	10.46%	0.28%	10.74%	0.11%	10.85%	10.11%	0.10%	10.21%	0.09%	10.30%	-0.55%	10.30%	NO MAX
454	Fayetteville	4	4	2.02%	1.20%	3.22%	0.00%	3.22%	1.95%	1.22%	3.17%	0.00%	3.17%	-0.05%	3.17%	NO MAX
456	Ferris	42	46	5.02%	0.43%	5.45%	0.20%	5.65%	5.22%	-0.03%	5.19%	0.32%	5.51%	-0.14%	5.51%	9.50%
458	Flatonia	20	20	10.17%	5.77%	15.94%	0.19%	16.13%	10.59%	5.18%	15.77%	0.24%	16.01%	-0.12%	16.01%	NO MAX
460	Florence	11	11	4.82%	-0.48%	4.34%	0.18%	4.52%	4.50%	-0.20%	4.30%	0.14%	4.44%	-0.08%	4.44%	NO MAX
20462	Floresville	64	66	6.57%	3.69%	10.26%	0.00%	10.26%	6.79%	2.60%	9.39%	0.00%	9.39%	-0.87%	9.39%	11.50%
463	Flower Mound	586	609	7.90%	2.87%	10.77%	0.14%	10.91%	8.07%	3.22%	11.29%	0.12%	11.41%	0.50%	11.41%	13.50%
464	Floydada	21	22	6.63%	3.37%	10.00%	0.26%	10.26%	6.67%	3.30%	9.97%	0.37%	10.34%	0.08%	10.34%	NO MAX
468	Forest Hill	85	88	9.83%	2.99%	12.82%	0.14%	12.96%	10.43%	2.41%	12.84%	0.14%	12.98%	0.02%	12.98%	13.50%
470	Forney	153	158	11.26%	2.54%	13.80%	0.13%	13.93%	11.18%	2.98%	14.16%	0.10%	14.26%	0.33%	14.26%	NO MAX
472	Fort Stockton	126	116	6.36%	3.28%	9.64%	0.27%	9.91%	6.17%	3.49%	9.66%	0.47%	10.13%	0.22%	10.13%	11.50%
476	Franklin	12	15	3.74%	-0.63%	3.11%	0.00%	3.11%	3.61%	-0.30%	3.31%	0.00%	3.31%	0.20%	3.31%	11.50%
478	Frankston	13	12	1.66%	-0.21%	1.45%	0.18%	1.63%	1.55%	-0.11%	1.44%	0.21%	1.65%	0.02%	1.65%	NO MAX
480	Fredericksburg	160	167	8.36%	7.86%	16.22%	0.23%	16.45%	8.58%	8.34%	16.92%	0.24%	17.16%	0.71%	17.16%	NO MAX
482	Freeport	120	124	9.06%	5.24%	14.30%	0.17%	14.47%	9.14%	5.07%	14.21%	0.20%	14.41%	-0.06%	14.41%	NO MAX
481	Freer	18	19	3.53%	3.47%	7.00%	0.37%	7.37%	3.42%	3.15%	6.57%	0.37%	6.94%	-0.43%	6.94%	NO MAX
483	Friendswood	208	211	10.94%	4.90%	15.84%	0.19%	16.03%	11.01%	5.54%	16.55%	0.19%	16.74%	0.71%	16.74%	NO MAX
484	Friona	23	25	6.20%	2.86%	9.06%	0.18%	9.24%	6.34%	2.83%	9.17%	0.27%	9.44%	0.20%	9.44%	NO MAX



**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES					2021 RATES					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	WITHOUT MAXIMUM OR PHASE-IN					WITHOUT MAXIMUM OR PHASE-IN							
				RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST			PRIOR SERVICE	TOTAL						
486	Frisco	1,205	1,270	11.16%	2.91%	14.07%	0.13%	14.20%	11.48%	2.96%	14.44%	0.10%	14.54%	0.34%	14.54%	NO MAX
487	Fritch	19	18	7.35%	-5.57%	1.78%	0.15%	1.93%	7.35%	-3.58%	3.77%	0.28%	4.05%	2.12%	2.56%	13.50%
488	Frost	3	4	3.37%	3.61%	6.98%	0.00%	6.98%	3.00%	3.47%	6.47%	0.00%	6.47%	-0.51%	6.47%	7.50%
491	Fulshear	46	56	7.17%	0.52%	7.69%	0.14%	7.83%	6.79%	0.47%	7.26%	0.10%	7.36%	-0.47%	7.36%	NO MAX
493	Fulton	5	4	6.82%	15.77%	22.59%	0.27%	22.86%	6.16%	16.73%	22.89%	0.45%	23.34%	0.48%	23.34%	NO MAX
492	Gainesville	219	214	5.45%	6.72%	12.17%	0.19%	12.36%	5.42%	6.43%	11.85%	0.27%	12.12%	-0.24%	12.12%	NO MAX
494	Galena Park	82	84	9.07%	3.07%	12.14%	0.21%	12.35%	8.87%	1.88%	10.75%	0.29%	11.04%	-1.31%	11.04%	NO MAX
498	Ganado	10	10	12.00%	1.16%	13.16%	0.44%	13.60%	11.95%	0.01%	11.96%	0.75%	12.71%	-0.89%	12.71%	NO MAX
499	Garden Ridge	27	29	5.94%	1.45%	7.39%	0.23%	7.62%	6.00%	1.54%	7.54%	0.22%	7.76%	0.14%	7.76%	11.50%
500	Garland	2,037	2,051	8.51%	2.52%	11.03%	0.21%	11.24%	8.59%	2.60%	11.19%	0.25%	11.44%	0.20%	11.44%	NO MAX
502	Garrison	8	9	11.07%	5.43%	16.50%	0.14%	16.64%	11.07%	4.01%	15.08%	0.16%	15.24%	-1.40%	15.24%	NO MAX
503	Gary	4	4	3.78%	3.44%	7.22%	0.00%	7.22%	3.67%	1.92%	5.59%	0.00%	5.59%	-1.63%	5.59%	7.50%
504	Gatesville	77	80	9.29%	5.59%	14.88%	0.23%	15.11%	9.50%	5.20%	14.70%	0.27%	14.97%	-0.14%	14.97%	NO MAX
505	George West	32	35	4.42%	1.37%	5.79%	0.19%	5.98%	4.28%	1.09%	5.37%	0.18%	5.55%	-0.43%	5.55%	NO MAX
506	Georgetown	685	697	9.08%	3.05%	12.13%	0.13%	12.26%	9.42%	3.03%	12.45%	0.13%	12.58%	0.32%	12.58%	13.50%
510	Giddings	68	64	9.18%	9.01%	18.19%	0.28%	18.47%	9.12%	9.05%	18.17%	0.35%	18.52%	0.05%	18.52%	NO MAX
512	Gilmer	51	50	8.68%	4.66%	13.34%	0.22%	13.56%	8.76%	4.63%	13.39%	0.26%	13.65%	0.09%	13.65%	NO MAX
514	Gladewater	57	59	7.23%	1.39%	8.62%	0.20%	8.82%	7.28%	1.02%	8.30%	0.24%	8.54%	-0.28%	8.54%	11.50%
516	Glen Rose	25	28	11.62%	2.98%	14.60%	0.27%	14.87%	10.94%	3.35%	14.29%	0.32%	14.61%	-0.26%	14.61%	NO MAX
517	Glenn Heights	79	85	4.84%	-1.97%	2.87%	0.14%	3.01%	4.86%	-1.30%	3.56%	0.13%	3.69%	0.68%	3.52%	12.50%
518	Godley	11	12	1.69%	0.94%	2.63%	0.19%	2.82%	1.79%	0.62%	2.41%	0.25%	2.66%	-0.16%	2.66%	8.50%
519	Goldsmith	4	5	1.63%	1.57%	3.20%	0.43%	3.63%	1.39%	0.65%	2.04%	0.29%	2.33%	-1.30%	2.33%	7.50%
520	Goldthwaite	11	11	10.37%	13.13%	23.50%	0.26%	23.76%	10.49%	13.71%	24.20%	0.27%	24.47%	0.71%	24.27%	NO MAX
522	Goliad	14	16	7.00%	-2.01%	4.99%	0.26%	5.25%	6.96%	-1.27%	5.69%	0.29%	5.98%	0.73%	5.98%	NO MAX
524	Gonzales	99	101	6.28%	4.17%	10.45%	0.26%	10.71%	6.05%	4.33%	10.38%	0.38%	10.76%	0.05%	10.76%	NO MAX
527	Gordon	3	4	1.83%	0.90%	2.73%	0.11%	2.84%	1.57%	0.71%	2.28%	0.07%	2.35%	-0.49%	2.35%	NO MAX
530	Gorman	7	7	2.06%	7.11%	9.17%	0.44%	9.61%	1.84%	7.24%	9.08%	0.35%	9.43%	-0.18%	9.43%	NO MAX
532	Graford	3	3	2.07%	0.80%	2.87%	0.27%	3.14%	1.89%	0.88%	2.77%	0.18%	2.95%	-0.19%	2.95%	NO MAX
10534	Graham	88	88	6.85%	3.50%	10.35%	0.31%	10.66%	6.75%	3.94%	10.69%	0.44%	11.13%	0.47%	11.13%	NO MAX
536	Granbury	165	175	9.99%	5.68%	15.67%	0.21%	15.88%	9.87%	6.05%	15.92%	0.26%	16.18%	0.30%	16.18%	NO MAX
540	Grand Prairie	1,337	1,386	10.67%	6.16%	16.83%	0.17%	17.00%	11.00%	6.24%	17.24%	0.20%	17.44%	0.44%	17.44%	NO MAX
542	Grand Saline	25	26	7.09%	0.24%	7.33%	0.24%	7.57%	6.99%	0.45%	7.44%	0.37%	7.81%	0.24%	7.81%	11.50%
544	Grandview	16	15	7.22%	-0.72%	6.50%	0.00%	6.50%	6.95%	-0.79%	6.16%	0.00%	6.16%	-0.34%	6.16%	11.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES					2021 RATES					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	WITHOUT MAXIMUM OR PHASE-IN					WITHOUT MAXIMUM OR PHASE-IN							
				RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST			PRIOR SERVICE	TOTAL						
546	Granger	10	11	7.82%	-1.24%	6.58%	0.00%	6.58%	6.98%	-0.65%	6.33%	0.00%	6.33%	-0.25%	6.33%	13.50%
547	Granite Shoals	32	36	4.65%	0.15%	4.80%	0.24%	5.04%	4.42%	-0.09%	4.33%	0.26%	4.59%	-0.45%	4.59%	NO MAX
548	Grapeland	7	9	3.77%	0.33%	4.10%	0.00%	4.10%	3.44%	0.61%	4.05%	0.00%	4.05%	-0.05%	4.05%	7.50%
550	Grapevine	586	590	11.48%	7.05%	18.53%	0.00%	18.53%	11.72%	7.10%	18.82%	0.00%	18.82%	0.29%	18.82%	NO MAX
552	Greenville	321	332	7.27%	3.73%	11.00%	0.25%	11.25%	7.34%	3.98%	11.32%	0.28%	11.60%	0.35%	11.60%	NO MAX
551	Gregory	12	11	6.37%	-2.41%	3.96%	0.27%	4.23%	6.06%	-1.54%	4.52%	0.30%	4.82%	0.59%	4.76%	9.50%
553	Grey Forest	38	38	9.43%	6.33%	15.76%	0.20%	15.96%	9.68%	6.85%	16.53%	0.21%	16.74%	0.78%	16.66%	NO MAX
556	Groesbeck	30	31	1.30%	1.20%	2.50%	0.23%	2.73%	1.15%	1.34%	2.49%	0.27%	2.76%	0.03%	2.76%	NO MAX
558	Groom	5	5	3.02%	-0.31%	2.71%	0.00%	2.71%	3.06%	-0.08%	2.98%	0.00%	2.98%	0.27%	2.98%	7.50%
559	Groves	101	103	6.87%	2.26%	9.13%	0.00%	9.13%	6.89%	2.00%	8.89%	0.00%	8.89%	-0.24%	8.89%	NO MAX
560	Groveton	11	10	2.12%	-0.09%	2.03%	0.39%	2.42%	1.99%	-0.04%	1.95%	0.57%	2.52%	0.10%	2.52%	7.50%
562	Gruver	5	5	7.74%	6.75%	14.49%	0.00%	14.49%	8.36%	6.49%	14.85%	0.00%	14.85%	0.36%	14.85%	NO MAX
563	Gun Barrel City	39	40	5.53%	-0.83%	4.70%	0.20%	4.90%	5.67%	-0.82%	4.85%	0.24%	5.09%	0.19%	5.09%	11.50%
564	Gunter	9	11	5.37%	-1.23%	4.14%	0.17%	4.31%	5.20%	-0.62%	4.58%	0.14%	4.72%	0.41%	4.72%	NO MAX
568	Hale Center	11	9	3.47%	1.40%	4.87%	0.25%	5.12%	3.32%	0.93%	4.25%	0.13%	4.38%	-0.74%	4.38%	NO MAX
570	Hallettsville	35	32	6.89%	4.95%	11.84%	0.28%	12.12%	7.05%	5.37%	12.42%	0.39%	12.81%	0.69%	12.81%	NO MAX
572	Hallsville	20	19	1.79%	1.14%	2.93%	0.23%	3.16%	1.68%	1.12%	2.80%	0.20%	3.00%	-0.16%	3.00%	NO MAX
574	Haltom City	254	266	10.62%	8.43%	19.05%	0.19%	19.24%	10.48%	8.53%	19.01%	0.22%	19.23%	-0.01%	19.23%	NO MAX
576	Hamilton	30	28	9.85%	5.25%	15.10%	0.27%	15.37%	9.20%	4.67%	13.87%	0.42%	14.29%	-1.08%	14.29%	NO MAX
578	Hamlin	15	17	3.54%	1.20%	4.74%	0.30%	5.04%	3.60%	0.57%	4.17%	0.62%	4.79%	-0.25%	4.79%	NO MAX
580	Happy	2	2	8.36%	-0.21%	8.15%	0.40%	8.55%	8.51%	-0.55%	7.96%	0.87%	8.83%	0.28%	8.83%	NO MAX
581	Harker Heights	213	219	9.97%	4.80%	14.77%	0.15%	14.92%	10.08%	4.73%	14.81%	0.15%	14.96%	0.04%	14.96%	NO MAX
10582	Harlingen	167	150	4.97%	6.69%	11.66%	0.37%	12.03%	4.76%	5.56%	10.32%	0.72%	11.04%	-0.99%	11.04%	15.50%
20582	Harlingen Waterworks Sys	135	112	2.02%	-0.10%	1.92%	0.26%	2.18%	1.96%	-0.26%	1.70%	0.50%	2.20%	0.02%	2.20%	9.50%
583	Hart	5	5	1.12%	2.85%	3.97%	0.00%	3.97%	1.09%	2.82%	3.91%	0.00%	3.91%	-0.06%	3.91%	NO MAX
586	Haskell	18	18	2.01%	-2.01%	0.00%	0.19%	0.19%	1.90%	-1.90%	0.00%	0.29%	0.29%	0.10%	0.29%	9.50%
587	Haslet	25	25	8.82%	-0.19%	8.63%	0.20%	8.83%	8.63%	0.16%	8.79%	0.17%	8.96%	0.13%	8.96%	15.50%
588	Hawkins	8	9	8.74%	-2.68%	6.06%	0.21%	6.27%	8.69%	-1.87%	6.82%	0.22%	7.04%	0.77%	6.78%	NO MAX
585	Hays	1	1	10.08%	-1.65%	8.43%	0.34%	8.77%	9.94%	-0.50%	9.44%	0.63%	10.07%	1.30%	10.07%	NO MAX
590	Hearne	53	54	9.12%	5.86%	14.98%	0.27%	15.25%	9.12%	5.80%	14.92%	0.35%	15.27%	0.02%	15.27%	NO MAX
591	Heath	49	51	9.69%	1.86%	11.55%	0.20%	11.75%	9.85%	2.15%	12.00%	0.15%	12.15%	0.40%	12.15%	13.50%
592	Hedley	1	2	5.44%	-2.99%	2.45%	0.74%	3.19%	5.25%	-2.06%	3.19%	1.08%	4.27%	1.08%	4.03%	11.50%
595	Hedwig Village	29	28	4.99%	2.34%	7.33%	0.25%	7.58%	4.54%	2.07%	6.61%	0.22%	6.83%	-0.75%	6.83%	NO MAX

**SECTION 2**  
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CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
593	Helotes	70	68	6.02%	1.56%	7.58%	0.13%	7.71%	5.76%	1.38%	7.14%	0.13%	7.27%	-0.44%	7.27%	13.50%
594	Hemphill	24	26	4.60%	2.73%	7.33%	0.35%	7.68%	4.70%	2.79%	7.49%	0.39%	7.88%	0.20%	7.88%	11.50%
596	Hempstead	70	69	6.28%	1.50%	7.78%	0.25%	8.03%	6.16%	1.58%	7.74%	0.23%	7.97%	-0.06%	7.97%	NO MAX
598	Henderson	122	124	9.49%	6.62%	16.11%	0.16%	16.27%	10.08%	6.66%	16.74%	0.23%	16.97%	0.70%	16.84%	NO MAX
600	Henrietta	17	17	9.96%	4.78%	14.74%	0.24%	14.98%	9.97%	5.08%	15.05%	0.29%	15.34%	0.36%	15.34%	NO MAX
602	Hereford	92	96	6.50%	3.84%	10.34%	0.24%	10.58%	6.63%	3.82%	10.45%	0.30%	10.75%	0.17%	10.75%	11.50%
605	Hewitt	91	93	10.51%	4.97%	15.48%	0.12%	15.60%	11.11%	5.33%	16.44%	0.14%	16.58%	0.98%	16.55%	NO MAX
609	Hickory Creek	19	21	10.05%	1.90%	11.95%	0.11%	12.06%	10.20%	3.49%	13.69%	0.10%	13.79%	1.73%	13.79%	13.50%
606	Hico	14	13	7.89%	0.41%	8.30%	0.19%	8.49%	8.21%	0.28%	8.49%	0.43%	8.92%	0.43%	8.92%	13.50%
607	Hidalgo	148	147	9.46%	3.20%	12.66%	0.00%	12.66%	8.84%	3.67%	12.51%	0.00%	12.51%	-0.15%	12.51%	13.50%
608	Higgins	2	3	4.71%	-0.64%	4.07%	0.39%	4.46%	4.29%	-0.34%	3.95%	0.34%	4.29%	-0.17%	4.29%	NO MAX
610	Highland Park	120	124	6.28%	3.08%	9.36%	0.00%	9.36%	6.10%	3.23%	9.33%	0.00%	9.33%	-0.03%	9.33%	NO MAX
611	Highland Village	150	151	10.47%	2.84%	13.31%	0.15%	13.46%	10.42%	3.14%	13.56%	0.16%	13.72%	0.26%	13.72%	NO MAX
613	Hill Country Village	15	14	4.21%	-0.42%	3.79%	0.14%	3.93%	4.10%	-0.25%	3.85%	0.11%	3.96%	0.03%	3.96%	11.50%
612	Hillsboro	105	105	6.17%	5.11%	11.28%	0.00%	11.28%	6.08%	5.20%	11.28%	0.00%	11.28%	0.00%	11.28%	NO MAX
619	Hilshire Village	2	2	5.62%	5.36%	10.98%	0.24%	11.22%	5.37%	4.38%	9.75%	0.22%	9.97%	-1.25%	9.97%	NO MAX
614	Hitchcock	41	40	4.12%	0.06%	4.18%	0.23%	4.41%	4.35%	-0.22%	4.13%	0.20%	4.33%	-0.08%	4.33%	11.50%
615	Holland	8	8	6.06%	1.02%	7.08%	0.54%	7.62%	5.76%	-0.01%	5.75%	0.64%	6.39%	-1.23%	6.39%	10.50%
616	Holliday	9	9	2.87%	-0.23%	2.64%	0.00%	2.64%	2.80%	-0.23%	2.57%	0.00%	2.57%	-0.07%	2.57%	9.50%
617	Hollywood Park	38	38	6.77%	2.04%	8.81%	0.20%	9.01%	6.76%	2.26%	9.02%	0.20%	9.22%	0.21%	9.22%	10.50%
618	Hondo	109	114	6.80%	1.42%	8.22%	0.18%	8.40%	6.74%	1.61%	8.35%	0.21%	8.56%	0.16%	8.56%	11.50%
620	Honey Grove	10	9	6.85%	0.44%	7.29%	0.34%	7.63%	5.89%	0.75%	6.64%	0.49%	7.13%	-0.50%	7.13%	9.50%
622	Hooks	14	13	7.94%	5.52%	13.46%	0.18%	13.64%	7.60%	5.92%	13.52%	0.23%	13.75%	0.11%	13.75%	13.50%
623	Horizon City	73	73	2.81%	3.08%	5.89%	0.12%	6.01%	2.70%	3.05%	5.75%	0.09%	5.84%	-0.17%	5.84%	NO MAX
626	Howe	16	17	5.59%	-0.34%	5.25%	0.34%	5.59%	5.25%	-0.38%	4.87%	0.45%	5.32%	-0.27%	5.32%	11.50%
627	Hubbard	12	12	3.39%	-0.49%	2.90%	0.26%	3.16%	3.01%	-0.14%	2.87%	0.15%	3.02%	-0.14%	3.02%	NO MAX
628	Hudson	15	12	3.95%	0.22%	4.17%	0.19%	4.36%	3.82%	0.26%	4.08%	0.20%	4.28%	-0.08%	4.28%	NO MAX
629	Hudson Oaks	22	24	9.84%	2.36%	12.20%	0.13%	12.33%	9.43%	2.69%	12.12%	0.12%	12.24%	-0.09%	12.24%	13.50%
630	Hughes Springs	12	12	10.45%	-1.82%	8.63%	0.33%	8.96%	10.45%	-2.09%	8.36%	0.22%	8.58%	-0.38%	8.58%	NO MAX
632	Humble	200	202	9.56%	4.05%	13.61%	0.17%	13.78%	9.43%	3.88%	13.31%	0.17%	13.48%	-0.30%	13.48%	NO MAX
633	Hunters Creek Village	8	8	9.07%	8.08%	17.15%	0.36%	17.51%	9.55%	9.02%	18.57%	0.48%	19.05%	1.54%	19.05%	NO MAX
634	Huntington	20	18	9.86%	4.41%	14.27%	0.21%	14.48%	10.40%	4.92%	15.32%	0.26%	15.58%	1.10%	15.58%	NO MAX
636	Huntsville	252	255	8.16%	10.42%	18.58%	0.22%	18.80%	7.80%	10.49%	18.29%	0.25%	18.54%	-0.26%	18.54%	NO MAX

**SECTION 2**  
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		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
637	Hurst	398	397	7.96%	3.26%	11.22%	0.00%	11.22%	8.24%	3.44%	11.68%	0.00%	11.68%	0.46%	11.68%	NO MAX
638	Hutchins	67	71	7.63%	1.44%	9.07%	0.13%	9.20%	7.79%	1.26%	9.05%	0.13%	9.18%	-0.02%	9.18%	11.50%
640	Hutto	137	171	11.88%	0.16%	12.04%	0.11%	12.15%	11.98%	0.19%	12.17%	0.10%	12.27%	0.12%	12.27%	NO MAX
641	Huxley	10	10	3.09%	-2.19%	0.90%	0.26%	1.16%	2.34%	-1.56%	0.78%	0.33%	1.11%	-0.05%	1.11%	9.50%
642	Idalou	14	12	3.73%	0.32%	4.05%	0.06%	4.11%	3.96%	0.14%	4.10%	0.06%	4.16%	0.05%	4.16%	NO MAX
643	Ingleside	78	89	7.23%	1.64%	8.87%	0.31%	9.18%	7.35%	-0.03%	7.32%	0.30%	7.62%	-1.56%	7.62%	11.50%
646	Ingram	12	13	6.50%	1.77%	8.27%	0.00%	8.27%	6.16%	1.77%	7.93%	0.00%	7.93%	-0.34%	7.93%	11.50%
647	Iowa Colony	8	11	5.43%	8.72%	14.15%	0.49%	14.64%	4.83%	3.47%	8.30%	0.13%	8.43%	-6.21%	8.43%	NO MAX
644	Iowa Park	44	44	7.09%	7.67%	14.76%	0.23%	14.99%	7.29%	5.96%	13.25%	0.28%	13.53%	-1.46%	13.53%	NO MAX
645	Iraan	6	6	6.61%	10.97%	17.58%	0.51%	18.09%	6.24%	11.99%	18.23%	0.28%	18.51%	0.42%	18.51%	NO MAX
648	Irving	1,486	1,514	9.46%	5.00%	14.46%	0.18%	14.64%	9.71%	5.00%	14.71%	0.22%	14.93%	0.29%	14.93%	NO MAX
650	Italy	18	18	1.85%	1.14%	2.99%	0.26%	3.25%	1.80%	1.19%	2.99%	0.26%	3.25%	0.00%	3.25%	NO MAX
652	Itasca	19	16	12.06%	-1.36%	10.70%	0.26%	10.96%	11.79%	-0.78%	11.01%	0.27%	11.28%	0.32%	11.28%	13.50%
654	Jacinto City	57	72	4.58%	3.39%	7.97%	0.34%	8.31%	4.90%	2.63%	7.53%	0.31%	7.84%	-0.47%	7.84%	9.50%
656	Jacksboro	40	41	10.49%	4.43%	14.92%	0.21%	15.13%	10.19%	4.32%	14.51%	0.31%	14.82%	-0.31%	14.82%	NO MAX
658	Jacksonville	127	118	7.35%	3.26%	10.61%	0.19%	10.80%	7.11%	3.57%	10.68%	0.31%	10.99%	0.19%	10.99%	NO MAX
660	Jasper	117	122	5.29%	3.80%	9.09%	0.27%	9.36%	5.25%	3.43%	8.68%	0.32%	9.00%	-0.36%	9.00%	15.50%
664	Jefferson	19	17	2.39%	-1.50%	0.89%	0.34%	1.23%	2.14%	-1.22%	0.92%	0.40%	1.32%	0.09%	1.32%	NO MAX
665	Jersey Village	92	95	10.20%	3.85%	14.05%	0.19%	14.24%	9.85%	3.90%	13.75%	0.22%	13.97%	-0.27%	13.97%	NO MAX
666	Jewett	5	5	4.80%	5.80%	10.60%	0.15%	10.75%	5.20%	8.54%	13.74%	0.17%	13.91%	3.16%	12.62%	NO MAX
668	Joaquin	7	7	1.89%	2.67%	4.56%	0.40%	4.96%	2.00%	2.57%	4.57%	0.57%	5.14%	0.18%	5.14%	NO MAX
670	Johnson City	15	14	6.59%	3.19%	9.78%	0.18%	9.96%	6.37%	3.31%	9.68%	0.14%	9.82%	-0.14%	9.82%	10.50%
673	Jones Creek	8	9	2.90%	3.12%	6.02%	0.21%	6.23%	3.06%	2.49%	5.55%	0.30%	5.85%	-0.38%	5.85%	NO MAX
675	Jonestown	27	27	6.58%	0.74%	7.32%	0.22%	7.54%	6.69%	0.83%	7.52%	0.28%	7.80%	0.26%	7.80%	NO MAX
677	Josephine	8	12	5.92%	0.03%	5.95%	0.09%	6.04%	5.95%	-0.04%	5.91%	0.06%	5.97%	-0.07%	5.97%	NO MAX
671	Joshua	36	35	5.97%	-0.27%	5.70%	0.10%	5.80%	5.95%	-0.19%	5.76%	0.10%	5.86%	0.06%	5.86%	13.50%
672	Jourdanton	39	38	5.42%	0.66%	6.08%	0.33%	6.41%	5.36%	0.42%	5.78%	0.44%	6.22%	-0.19%	6.22%	9.50%
674	Junction	24	24	10.31%	4.22%	14.53%	0.24%	14.77%	10.67%	4.28%	14.95%	0.31%	15.26%	0.49%	15.26%	NO MAX
676	Justin	32	39	6.44%	0.99%	7.43%	0.00%	7.43%	6.47%	1.10%	7.57%	0.00%	7.57%	0.14%	7.57%	13.50%
678	Karnes City	28	25	5.80%	2.94%	8.74%	0.16%	8.90%	5.91%	2.86%	8.77%	0.19%	8.96%	0.06%	8.96%	NO MAX
680	Katy	232	250	11.35%	2.27%	13.62%	0.15%	13.77%	11.48%	2.26%	13.74%	0.15%	13.89%	0.12%	13.89%	NO MAX
682	Kaufman	55	63	9.92%	4.86%	14.78%	0.22%	15.00%	10.00%	4.86%	14.86%	0.23%	15.09%	0.09%	15.09%	NO MAX
683	Keene	46	45	9.71%	3.30%	13.01%	0.17%	13.18%	8.91%	3.36%	12.27%	0.29%	12.56%	-0.62%	12.56%	NO MAX

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		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
681	Keller	285	289	10.15%	5.68%	15.83%	0.13%	15.96%	10.02%	6.05%	16.07%	0.15%	16.22%	0.26%	16.22%	NO MAX
685	Kemah	35	35	6.42%	0.51%	6.93%	0.18%	7.11%	5.87%	0.41%	6.28%	0.17%	6.45%	-0.66%	6.45%	NO MAX
684	Kemp	19	21	6.02%	-0.23%	5.79%	0.00%	5.79%	5.84%	-0.17%	5.67%	0.00%	5.67%	-0.12%	5.67%	11.50%
686	Kenedy	49	51	3.08%	0.85%	3.93%	0.17%	4.10%	2.88%	0.52%	3.40%	0.13%	3.53%	-0.57%	3.53%	7.50%
688	Kennedale	72	71	10.58%	2.99%	13.57%	0.23%	13.80%	10.65%	2.74%	13.39%	0.25%	13.64%	-0.16%	13.64%	NO MAX
690	Kerens	11	11	5.91%	6.42%	12.33%	0.18%	12.51%	5.88%	6.17%	12.05%	0.14%	12.19%	-0.32%	12.19%	NO MAX
692	Kermit	52	56	9.04%	6.67%	15.71%	0.26%	15.97%	9.00%	6.66%	15.66%	0.31%	15.97%	0.00%	15.97%	NO MAX
10694	Kerrville	305	307	7.61%	2.52%	10.13%	0.19%	10.32%	7.79%	2.68%	10.47%	0.26%	10.73%	0.41%	10.73%	15.50%
20694	Kerrville PUB	53	53	8.74%	3.32%	12.06%	0.17%	12.23%	8.77%	3.19%	11.96%	0.23%	12.19%	-0.04%	12.19%	NO MAX
10696	Kilgore	155	160	9.95%	3.83%	13.78%	0.25%	14.03%	9.87%	3.97%	13.84%	0.32%	14.16%	0.13%	14.16%	NO MAX
698	Killeen	956	917	5.77%	5.86%	11.63%	0.18%	11.81%	5.46%	5.87%	11.33%	0.22%	11.55%	-0.26%	11.55%	13.50%
700	Kingsville	260	265	6.58%	2.22%	8.80%	0.00%	8.80%	6.56%	1.81%	8.37%	0.00%	8.37%	-0.43%	8.37%	NO MAX
701	Kirby	59	59	11.03%	3.74%	14.77%	0.12%	14.89%	11.08%	3.41%	14.49%	0.15%	14.64%	-0.25%	14.64%	NO MAX
702	Kirbyville	24	25	3.19%	2.63%	5.82%	0.38%	6.20%	3.30%	2.61%	5.91%	0.60%	6.51%	0.31%	6.51%	7.50%
704	Knox City	8	9	3.91%	-1.54%	2.37%	0.45%	2.82%	3.78%	-1.05%	2.73%	0.41%	3.14%	0.32%	3.14%	9.50%
706	Kosse	4	5	2.00%	3.36%	5.36%	0.20%	5.56%	1.85%	2.63%	4.48%	0.12%	4.60%	-0.96%	4.60%	NO MAX
708	Kountze	25	24	1.28%	0.10%	1.38%	0.15%	1.53%	1.44%	0.16%	1.60%	0.21%	1.81%	0.28%	1.81%	NO MAX
709	Kress	1	1	2.91%	-2.91%	0.00%	0.00%	0.00%	3.25%	-3.25%	0.00%	0.00%	0.00%	0.00%	0.00%	NO MAX
699	Krugerville	9	8	7.71%	0.46%	8.17%	0.12%	8.29%	7.43%	0.31%	7.74%	0.11%	7.85%	-0.44%	7.85%	NO MAX
707	Krum	37	41	6.57%	0.00%	6.57%	0.14%	6.71%	6.40%	-0.02%	6.38%	0.11%	6.49%	-0.22%	6.49%	13.50%
710	Kyle	200	222	10.56%	1.96%	12.52%	0.12%	12.64%	10.80%	2.19%	12.99%	0.11%	13.10%	0.46%	13.10%	13.50%
725	La Coste	8	9	2.43%	-0.65%	1.78%	0.00%	1.78%	2.19%	-0.39%	1.80%	0.00%	1.80%	0.02%	1.80%	8.50%
714	La Feria	55	60	7.91%	8.08%	15.99%	0.24%	16.23%	7.81%	7.90%	15.71%	0.34%	16.05%	-0.18%	16.05%	NO MAX
716	La Grange	66	65	9.32%	4.74%	14.06%	0.28%	14.34%	9.35%	4.65%	14.00%	0.31%	14.31%	-0.03%	14.31%	NO MAX
723	La Grulla	24	18	6.81%	-1.68%	5.13%	0.19%	5.32%	7.04%	-1.65%	5.39%	0.43%	5.82%	0.50%	5.82%	11.50%
732	La Joya	36	37	1.53%	5.30%	6.83%	0.25%	7.08%	1.50%	5.39%	6.89%	0.25%	7.14%	0.06%	7.14%	NO MAX
721	La Marque	114	128	9.56%	4.36%	13.92%	0.16%	14.08%	9.78%	4.77%	14.55%	0.21%	14.76%	0.68%	14.76%	NO MAX
728	La Porte	370	373	9.28%	6.10%	15.38%	0.17%	15.55%	9.10%	6.24%	15.34%	0.20%	15.54%	-0.01%	15.54%	NO MAX
731	La Vernia	21	21	4.49%	1.29%	5.78%	0.15%	5.93%	4.40%	1.12%	5.52%	0.16%	5.68%	-0.25%	5.68%	NO MAX
711	Lacy-Lakeview	50	51	9.43%	4.97%	14.40%	0.21%	14.61%	9.67%	5.19%	14.86%	0.23%	15.09%	0.48%	15.09%	NO MAX
712	Ladonia	2	2	7.87%	-4.61%	3.26%	0.37%	3.63%	6.86%	-2.40%	4.46%	0.43%	4.89%	1.26%	4.28%	NO MAX
713	Lago Vista	90	96	6.80%	1.32%	8.12%	0.24%	8.36%	6.61%	1.25%	7.86%	0.21%	8.07%	-0.29%	8.07%	12.50%
705	Laguna Vista	17	17	4.80%	-0.48%	4.32%	0.17%	4.49%	4.60%	-0.52%	4.08%	0.12%	4.20%	-0.29%	4.20%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
717	Lake Dallas	31	35	10.43%	2.63%	13.06%	0.18%	13.24%	10.77%	2.70%	13.47%	0.23%	13.70%	0.46%	13.70%	13.50%
718	Lake Jackson	221	234	8.08%	3.96%	12.04%	0.21%	12.25%	7.93%	3.48%	11.41%	0.24%	11.65%	-0.60%	11.65%	NO MAX
719	Lake Worth	97	99	10.44%	5.61%	16.05%	0.15%	16.20%	10.56%	5.80%	16.36%	0.18%	16.54%	0.34%	16.54%	NO MAX
727	Lakeport	6	6	2.84%	-2.84%	0.00%	0.10%	0.10%	2.71%	-2.39%	0.32%	0.14%	0.46%	0.36%	0.46%	NO MAX
715	Lakeside	16	18	8.80%	2.32%	11.12%	0.34%	11.46%	8.35%	2.56%	10.91%	0.30%	11.21%	-0.25%	11.21%	13.50%
729	Lakeside City	5	5	2.07%	0.01%	2.08%	0.27%	2.35%	1.76%	0.09%	1.85%	0.30%	2.15%	-0.20%	2.15%	NO MAX
720	Lakeway	109	113	10.12%	3.78%	13.90%	0.17%	14.07%	9.82%	3.81%	13.63%	0.18%	13.81%	-0.26%	13.81%	15.50%
722	Lamesa	75	75	5.05%	-0.29%	4.76%	0.00%	4.76%	4.90%	-0.26%	4.64%	0.00%	4.64%	-0.12%	4.64%	13.50%
724	Lampasas	116	119	9.65%	5.90%	15.55%	0.20%	15.75%	9.90%	5.64%	15.54%	0.28%	15.82%	0.07%	15.82%	NO MAX
726	Lancaster	265	264	8.61%	4.84%	13.45%	0.14%	13.59%	8.81%	5.09%	13.90%	0.17%	14.07%	0.48%	14.07%	NO MAX
730	Laredo	2,136	2,273	9.96%	10.81%	20.77%	0.21%	20.98%	10.29%	10.74%	21.03%	0.24%	21.27%	0.29%	21.27%	NO MAX
733	Lavon	18	19	7.13%	0.50%	7.63%	0.17%	7.80%	6.76%	0.54%	7.30%	0.14%	7.44%	-0.36%	7.44%	NO MAX
736	League City	518	556	9.35%	5.37%	14.72%	0.17%	14.89%	9.64%	5.04%	14.68%	0.17%	14.85%	-0.04%	14.85%	15.50%
737	Leander	289	315	9.80%	2.24%	12.04%	0.14%	12.18%	9.76%	2.26%	12.02%	0.12%	12.14%	-0.04%	12.14%	13.50%
735	Lefors	4	4	1.68%	2.37%	4.05%	0.09%	4.14%	1.27%	2.38%	3.65%	0.05%	3.70%	-0.44%	3.70%	NO MAX
739	Leon Valley	107	115	10.84%	6.28%	17.12%	0.20%	17.32%	11.05%	6.60%	17.65%	0.25%	17.90%	0.58%	17.90%	NO MAX
738	Leonard	16	15	1.94%	-0.79%	1.15%	0.17%	1.32%	1.50%	-0.62%	0.88%	0.25%	1.13%	-0.19%	1.13%	9.50%
740	Levelland	90	95	8.77%	2.67%	11.44%	0.19%	11.63%	8.77%	1.83%	10.60%	0.21%	10.81%	-0.82%	10.81%	NO MAX
742	Lewisville	776	805	10.25%	6.32%	16.57%	0.00%	16.57%	10.45%	6.26%	16.71%	0.00%	16.71%	0.14%	16.71%	NO MAX
744	Lexington	11	12	6.34%	2.48%	8.82%	0.00%	8.82%	6.86%	2.96%	9.82%	0.00%	9.82%	1.00%	9.82%	NO MAX
746	Liberty	96	102	5.39%	12.09%	17.48%	0.00%	17.48%	5.32%	11.21%	16.53%	0.00%	16.53%	-0.95%	16.53%	NO MAX
745	Liberty Hill	31	42	6.89%	0.19%	7.08%	0.20%	7.28%	6.80%	0.23%	7.03%	0.12%	7.15%	-0.13%	7.15%	NO MAX
748	Lindale	54	54	8.32%	6.47%	14.79%	0.00%	14.79%	8.37%	6.79%	15.16%	0.00%	15.16%	0.37%	15.16%	NO MAX
750	Linden	15	16	1.92%	-0.64%	1.28%	0.30%	1.58%	1.40%	-0.39%	1.01%	0.34%	1.35%	-0.23%	1.35%	7.50%
749	Lindsay	N/A	4	4.28%	0.43%	4.71%	0.15%	4.86%	4.27%	0.59%	4.86%	0.13%	4.99%	0.13%	4.99%	NO MAX
755	Lipan	4	4	1.87%	0.59%	2.46%	0.27%	2.73%	1.76%	0.56%	2.32%	0.18%	2.50%	-0.23%	2.50%	NO MAX
751	Little Elm	245	270	11.13%	2.34%	13.47%	0.12%	13.59%	11.00%	2.42%	13.42%	0.11%	13.53%	-0.06%	13.53%	13.50%
752	Littlefield	57	57	6.48%	2.45%	8.93%	0.26%	9.19%	6.37%	1.52%	7.89%	0.38%	8.27%	-0.92%	8.27%	11.50%
753	Live Oak	109	115	10.56%	7.70%	18.26%	0.19%	18.45%	10.61%	7.53%	18.14%	0.21%	18.35%	-0.10%	18.35%	NO MAX
757	Liverpool	5	5	1.82%	0.12%	1.94%	0.20%	2.14%	1.74%	0.09%	1.83%	0.14%	1.97%	-0.17%	1.97%	NO MAX
754	Livingston	79	84	8.69%	6.87%	15.56%	0.23%	15.79%	8.96%	7.24%	16.20%	0.26%	16.46%	0.67%	16.43%	NO MAX
756	Llano	47	47	7.64%	6.95%	14.59%	0.29%	14.88%	7.69%	5.76%	13.45%	0.46%	13.91%	-0.97%	13.91%	NO MAX
758	Lockhart	136	138	7.35%	5.46%	12.81%	0.24%	13.05%	7.19%	5.28%	12.47%	0.27%	12.74%	-0.31%	12.74%	NO MAX

**SECTION 2**  
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CITY NUMBER	CITY NAME	Contributing Members		2020 RATES					2021 RATES					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	WITHOUT MAXIMUM OR PHASE-IN					WITHOUT MAXIMUM OR PHASE-IN							
				RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST			PRIOR SERVICE	TOTAL						
760	Lockney	7	7	2.61%	-2.61%	0.00%	0.32%	0.32%	2.54%	-2.54%	0.00%	0.24%	0.24%	-0.08%	0.24%	7.50%
765	Lone Star	11	10	3.18%	-0.64%	2.54%	0.18%	2.72%	3.19%	-0.98%	2.21%	0.27%	2.48%	-0.24%	2.48%	7.50%
766	Longview	648	652	7.19%	3.67%	10.86%	0.22%	11.08%	7.42%	3.78%	11.20%	0.31%	11.51%	0.43%	11.51%	15.50%
768	Loraine	2	3	4.08%	-0.69%	3.39%	0.14%	3.53%	3.21%	-0.52%	2.69%	0.07%	2.76%	-0.77%	2.76%	NO MAX
769	Lorena	19	19	9.04%	1.74%	10.78%	0.20%	10.98%	8.77%	1.77%	10.54%	0.18%	10.72%	-0.26%	10.72%	12.50%
770	Lorenzo	9	6	5.29%	-3.04%	2.25%	0.00%	2.25%	5.60%	-3.66%	1.94%	0.00%	1.94%	-0.31%	1.94%	9.50%
771	Los Fresnos	54	59	4.98%	2.36%	7.34%	0.19%	7.53%	4.84%	2.41%	7.25%	0.19%	7.44%	-0.09%	7.44%	11.50%
773	Lott	7	8	1.48%	-0.24%	1.24%	0.10%	1.34%	1.50%	-0.17%	1.33%	0.12%	1.45%	0.11%	1.45%	NO MAX
774	Lovelady	3	3	6.23%	1.42%	7.65%	0.13%	7.78%	6.16%	1.46%	7.62%	0.21%	7.83%	0.05%	7.83%	NO MAX
778	Lubbock	1,758	1,819	9.92%	7.65%	17.57%	0.00%	17.57%	10.01%	7.46%	17.47%	0.00%	17.47%	-0.10%	17.47%	NO MAX
779	Lucas	39	39	10.68%	1.82%	12.50%	0.13%	12.63%	10.61%	2.08%	12.69%	0.10%	12.79%	0.16%	12.79%	15.50%
782	Lufkin	356	354	8.46%	7.71%	16.17%	0.22%	16.39%	8.67%	7.73%	16.40%	0.29%	16.69%	0.30%	16.69%	NO MAX
784	Luling	85	90	5.81%	2.79%	8.60%	0.30%	8.90%	5.85%	0.48%	6.33%	0.40%	6.73%	-2.17%	6.73%	11.50%
785	Lumberton	42	43	10.48%	5.50%	15.98%	0.23%	16.21%	10.30%	5.44%	15.74%	0.28%	16.02%	-0.19%	16.02%	NO MAX
786	Lyford	17	13	1.31%	2.76%	4.07%	0.00%	4.07%	1.25%	1.58%	2.83%	0.00%	2.83%	-1.24%	2.83%	NO MAX
787	Lytle	23	24	6.30%	3.93%	10.23%	0.20%	10.43%	6.56%	4.03%	10.59%	0.16%	10.75%	0.32%	10.75%	11.50%
790	Madisonville	38	36	6.69%	2.80%	9.49%	0.31%	9.80%	6.62%	2.66%	9.28%	0.44%	9.72%	-0.08%	9.72%	11.50%
791	Magnolia	30	31	5.53%	-0.13%	5.40%	0.34%	5.74%	4.97%	-0.16%	4.81%	0.21%	5.02%	-0.72%	5.02%	12.50%
792	Malakoff	26	26	6.16%	1.48%	7.64%	0.25%	7.89%	5.95%	1.49%	7.44%	0.27%	7.71%	-0.18%	7.71%	13.50%
796	Manor	71	79	5.69%	3.42%	9.11%	0.12%	9.23%	5.70%	3.06%	8.76%	0.09%	8.85%	-0.38%	8.85%	NO MAX
798	Mansfield	486	509	10.88%	4.51%	15.39%	0.16%	15.55%	11.38%	4.67%	16.05%	0.14%	16.19%	0.64%	16.19%	NO MAX
799	Manvel	49	54	6.02%	4.68%	10.70%	0.11%	10.81%	5.96%	4.01%	9.97%	0.12%	10.09%	-0.72%	10.09%	13.50%
800	Marble Falls	115	118	8.08%	2.87%	10.95%	0.19%	11.14%	7.94%	2.66%	10.60%	0.23%	10.83%	-0.31%	10.83%	13.50%
802	Marfa	39	41	4.25%	-1.04%	3.21%	0.35%	3.56%	3.88%	-0.68%	3.20%	0.37%	3.57%	0.01%	3.57%	11.50%
804	Marion	10	10	5.74%	-2.32%	3.42%	0.43%	3.85%	6.19%	-1.46%	4.73%	0.52%	5.25%	1.40%	4.98%	11.50%
806	Marlin	54	48	6.84%	1.87%	8.71%	0.27%	8.98%	6.59%	1.44%	8.03%	0.49%	8.52%	-0.46%	8.52%	11.50%
808	Marquez	3	3	2.21%	16.60%	18.81%	0.25%	19.06%	2.09%	16.00%	18.09%	0.17%	18.26%	-0.80%	18.26%	NO MAX
810	Marshall	185	194	9.95%	6.17%	16.12%	0.24%	16.36%	10.00%	6.23%	16.23%	0.38%	16.61%	0.25%	16.61%	NO MAX
812	Mart	14	14	5.17%	-3.14%	2.03%	0.25%	2.28%	5.29%	-2.19%	3.10%	0.39%	3.49%	1.21%	2.92%	9.50%
813	Martindale	3	4	6.03%	5.99%	12.02%	0.19%	12.21%	5.84%	4.46%	10.30%	0.15%	10.45%	-1.76%	10.45%	NO MAX
814	Mason	28	28	4.69%	1.88%	6.57%	0.34%	6.91%	4.36%	1.76%	6.12%	0.41%	6.53%	-0.38%	6.53%	9.50%
816	Matador	3	4	1.78%	6.18%	7.96%	0.36%	8.32%	2.22%	5.21%	7.43%	0.35%	7.78%	-0.54%	7.78%	NO MAX
818	Mathis	47	51	5.53%	-1.89%	3.64%	0.25%	3.89%	5.67%	-1.34%	4.33%	0.36%	4.69%	0.80%	4.58%	13.50%

**SECTION 2**  
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CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
820	Maud	9	7	1.88%	1.59%	3.47%	0.18%	3.65%	2.26%	1.23%	3.49%	0.19%	3.68%	0.03%	3.68%	NO MAX
822	Maypearl	6	4	2.37%	0.32%	2.69%	0.28%	2.97%	1.65%	-0.45%	1.20%	0.24%	1.44%	-1.53%	1.44%	7.50%
824	McAllen	1,584	1,618	4.83%	3.83%	8.66%	0.00%	8.66%	4.47%	3.72%	8.19%	0.00%	8.19%	-0.47%	8.19%	13.50%
826	McCamey	12	13	2.82%	-1.15%	1.67%	0.15%	1.82%	3.01%	-0.65%	2.36%	0.11%	2.47%	0.65%	2.42%	9.50%
828	McGregor	57	56	8.65%	1.00%	9.65%	0.28%	9.93%	8.41%	1.25%	9.66%	0.32%	9.98%	0.05%	9.98%	12.50%
830	McKinney	1,116	1,155	11.51%	3.39%	14.90%	0.13%	15.03%	11.48%	3.45%	14.93%	0.11%	15.04%	0.01%	15.04%	NO MAX
832	McLean	6	5	2.15%	0.43%	2.58%	0.34%	2.92%	1.97%	0.48%	2.45%	0.31%	2.76%	-0.16%	2.76%	NO MAX
833	McLendon-Chisholm	7	7	1.94%	-0.42%	1.52%	0.08%	1.60%	1.91%	-0.34%	1.57%	0.12%	1.69%	0.09%	1.69%	NO MAX
834	Meadow	6	6	1.90%	2.34%	4.24%	0.15%	4.39%	1.76%	2.47%	4.23%	0.10%	4.33%	-0.06%	4.33%	NO MAX
831	Meadowlakes	19	26	2.47%	-0.09%	2.38%	0.21%	2.59%	2.49%	-0.09%	2.40%	0.22%	2.62%	0.03%	2.62%	NO MAX
835	Meadows Place	29	30	5.86%	4.26%	10.12%	0.14%	10.26%	5.86%	4.30%	10.16%	0.18%	10.34%	0.08%	10.34%	13.50%
837	Melissa	54	56	9.36%	3.48%	12.84%	0.16%	13.00%	9.36%	3.27%	12.63%	0.14%	12.77%	-0.23%	12.77%	NO MAX
1501	Memorial Villages PD	43	43	6.46%	5.15%	11.61%	0.18%	11.79%	6.18%	5.13%	11.31%	0.24%	11.55%	-0.24%	11.55%	NO MAX
840	Memphis	18	19	6.63%	2.77%	9.40%	0.25%	9.65%	6.79%	3.67%	10.46%	0.27%	10.73%	1.08%	10.73%	NO MAX
842	Menard	9	9	3.43%	-3.43%	0.00%	0.00%	0.00%	3.50%	-3.50%	0.00%	0.00%	0.00%	0.00%	0.00%	NO MAX
844	Mercedes	106	126	10.83%	7.26%	18.09%	0.19%	18.28%	10.55%	6.18%	16.73%	0.21%	16.94%	-1.34%	16.94%	NO MAX
846	Meridian	10	11	4.08%	-1.12%	2.96%	0.13%	3.09%	4.03%	-0.68%	3.35%	0.13%	3.48%	0.39%	3.48%	11.50%
848	Merkel	14	15	9.47%	4.06%	13.53%	0.15%	13.68%	9.81%	4.06%	13.87%	0.25%	14.12%	0.44%	14.12%	NO MAX
852	Mertzson	5	6	4.74%	7.07%	11.81%	0.17%	11.98%	4.51%	6.55%	11.06%	0.20%	11.26%	-0.72%	11.26%	NO MAX
854	Mesquite	1,117	1,120	8.14%	9.09%	17.23%	0.00%	17.23%	8.42%	9.22%	17.64%	0.00%	17.64%	0.41%	17.64%	NO MAX
856	Mexia	95	97	9.86%	2.25%	12.11%	0.21%	12.32%	9.99%	1.84%	11.83%	0.30%	12.13%	-0.19%	12.13%	13.50%
858	Miami	3	3	2.78%	8.68%	11.46%	0.45%	11.91%	2.52%	8.24%	10.76%	0.29%	11.05%	-0.86%	11.05%	NO MAX
860	Midland	731	751	8.61%	5.80%	14.41%	0.22%	14.63%	8.25%	6.28%	14.53%	0.28%	14.81%	0.18%	14.81%	NO MAX
862	Midlothian	240	261	11.39%	3.37%	14.76%	0.14%	14.90%	11.44%	3.56%	15.00%	0.15%	15.15%	0.25%	15.15%	NO MAX
863	Milano	1	1	3.72%	7.77%	11.49%	0.64%	12.13%	3.34%	8.44%	11.78%	0.41%	12.19%	0.06%	12.19%	NO MAX
864	Miles	3	5	2.43%	-2.43%	0.00%	0.33%	0.33%	2.02%	-2.02%	0.00%	0.16%	0.16%	-0.17%	0.16%	7.50%
865	Milford	7	7	3.41%	5.02%	8.43%	0.15%	8.58%	3.13%	5.41%	8.54%	0.29%	8.83%	0.25%	8.83%	NO MAX
868	Mineola	48	51	5.23%	-0.69%	4.54%	0.17%	4.71%	5.42%	-0.37%	5.05%	0.23%	5.28%	0.57%	5.28%	11.50%
870	Mineral Wells	164	183	6.74%	2.08%	8.82%	0.24%	9.06%	6.47%	2.11%	8.58%	0.32%	8.90%	-0.16%	8.90%	11.50%
874	Mission	693	695	6.45%	2.07%	8.52%	0.15%	8.67%	6.71%	2.04%	8.75%	0.17%	8.92%	0.25%	8.92%	12.50%
875	Missouri City	346	346	5.50%	3.82%	9.32%	0.14%	9.46%	5.26%	3.66%	8.92%	0.15%	9.07%	-0.39%	9.07%	15.50%
876	Monahans	64	64	5.27%	2.09%	7.36%	0.25%	7.61%	5.38%	1.73%	7.11%	0.22%	7.33%	-0.28%	7.33%	NO MAX
887	Mont Belvieu	96	124	10.52%	4.64%	15.16%	0.13%	15.29%	10.60%	3.32%	13.92%	0.12%	14.04%	-1.25%	14.04%	NO MAX



**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES					2021 RATES					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	WITHOUT MAXIMUM OR PHASE-IN					WITHOUT MAXIMUM OR PHASE-IN							
				RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST			PRIOR SERVICE	TOTAL						
877	Montgomery	23	26	6.82%	-0.77%	6.05%	0.00%	6.05%	6.15%	-0.45%	5.70%	0.00%	5.70%	-0.35%	5.70%	13.50%
878	Moody	12	11	1.43%	0.86%	2.29%	0.19%	2.48%	1.35%	0.88%	2.23%	0.24%	2.47%	-0.01%	2.47%	7.50%
883	Morgan's Point	12	13	9.04%	0.98%	10.02%	0.12%	10.14%	9.09%	1.17%	10.26%	0.09%	10.35%	0.21%	10.35%	NO MAX
882	Morgan's Point Resort	30	29	9.74%	2.08%	11.82%	0.17%	11.99%	9.99%	1.86%	11.85%	0.27%	12.12%	0.13%	12.12%	13.50%
884	Morton	9	8	6.66%	-2.63%	4.03%	0.22%	4.25%	6.42%	-2.09%	4.33%	0.25%	4.58%	0.33%	4.58%	NO MAX
886	Moulton	10	11	4.60%	0.13%	4.73%	0.21%	4.94%	4.57%	-0.40%	4.17%	0.27%	4.44%	-0.50%	4.44%	NO MAX
890	Mount Enterprise	1	2	2.17%	0.29%	2.46%	0.19%	2.65%	2.35%	-0.66%	1.69%	0.23%	1.92%	-0.73%	1.92%	NO MAX
892	Mt. Pleasant	160	164	10.01%	4.97%	14.98%	0.17%	15.15%	9.42%	5.21%	14.63%	0.20%	14.83%	-0.32%	14.83%	NO MAX
894	Mt. Vernon	24	24	8.77%	2.63%	11.40%	0.26%	11.66%	8.76%	2.63%	11.39%	0.40%	11.79%	0.13%	11.79%	13.50%
896	Muenster	12	13	5.10%	-3.46%	1.64%	0.00%	1.64%	4.84%	-2.32%	2.52%	0.00%	2.52%	0.88%	2.14%	11.50%
898	Muleshoe	32	32	8.81%	10.29%	19.10%	0.22%	19.32%	9.08%	10.62%	19.70%	0.33%	20.03%	0.71%	19.93%	NO MAX
901	Munday	8	7	1.55%	1.83%	3.38%	0.18%	3.56%	1.50%	1.94%	3.44%	0.30%	3.74%	0.18%	3.74%	NO MAX
903	Murphy	119	120	11.66%	2.32%	13.98%	0.16%	14.14%	11.71%	2.53%	14.24%	0.14%	14.38%	0.24%	14.38%	15.50%
10904	Nacogdoches	309	295	8.34%	5.81%	14.15%	0.20%	14.35%	8.53%	5.78%	14.31%	0.29%	14.60%	0.25%	14.60%	NO MAX
906	Naples	8	9	3.47%	-1.30%	2.17%	0.31%	2.48%	2.92%	-1.53%	1.39%	0.26%	1.65%	-0.83%	1.65%	9.50%
907	Nash	20	20	8.96%	8.58%	17.54%	0.19%	17.73%	9.47%	8.81%	18.28%	0.23%	18.51%	0.78%	18.51%	NO MAX
905	Nassau Bay	40	41	9.49%	6.25%	15.74%	0.18%	15.92%	9.36%	5.64%	15.00%	0.21%	15.21%	-0.71%	15.21%	NO MAX
909	Natalia	10	12	2.13%	1.04%	3.17%	0.26%	3.43%	1.87%	0.90%	2.77%	0.19%	2.96%	-0.47%	2.96%	NO MAX
908	Navasota	72	72	5.87%	1.73%	7.60%	0.22%	7.82%	6.09%	-0.29%	5.80%	0.28%	6.08%	-1.74%	6.08%	11.50%
910	Nederland	120	125	8.14%	-1.67%	6.47%	0.00%	6.47%	8.18%	-0.82%	7.36%	0.00%	7.36%	0.89%	7.22%	NO MAX
912	Needville	18	17	3.76%	0.45%	4.21%	0.48%	4.69%	3.47%	0.45%	3.92%	0.48%	4.40%	-0.29%	4.40%	9.50%
914	New Boston	39	38	3.16%	-1.09%	2.07%	0.23%	2.30%	3.06%	-1.71%	1.35%	0.29%	1.64%	-0.66%	1.64%	7.50%
10916	New Braunfels	612	638	11.22%	5.63%	16.85%	0.15%	17.00%	11.11%	5.81%	16.92%	0.16%	17.08%	0.08%	17.08%	NO MAX
20916	New Braunfels Utilities	292	306	10.02%	7.20%	17.22%	0.15%	17.37%	10.59%	7.27%	17.86%	0.16%	18.02%	0.65%	17.95%	NO MAX
915	New Deal	4	4	2.35%	-1.63%	0.72%	0.00%	0.72%	1.86%	-0.99%	0.87%	0.00%	0.87%	0.15%	0.87%	7.50%
923	New Fairview	1	1	1.05%	9.64%	10.69%	0.13%	10.82%	1.09%	10.24%	11.33%	0.31%	11.64%	0.82%	11.64%	NO MAX
918	New London	8	9	3.77%	-0.38%	3.39%	0.00%	3.39%	3.83%	-0.39%	3.44%	0.00%	3.44%	0.05%	3.44%	7.50%
919	New Summerfield	9	8	7.94%	-0.24%	7.70%	0.00%	7.70%	7.75%	-0.14%	7.61%	0.00%	7.61%	-0.09%	7.61%	13.50%
917	New Waverly	4	4	7.28%	6.16%	13.44%	0.37%	13.81%	7.03%	9.44%	16.47%	0.36%	16.83%	3.02%	16.83%	NO MAX
913	Newark	6	4	1.72%	1.23%	2.95%	0.11%	3.06%	1.71%	0.54%	2.25%	0.08%	2.33%	-0.73%	2.33%	NO MAX
920	Newton	21	22	10.52%	10.62%	21.14%	0.28%	21.42%	10.78%	10.68%	21.46%	0.32%	21.78%	0.36%	21.78%	NO MAX
922	Nixon	19	17	1.24%	-0.60%	0.64%	0.19%	0.83%	1.17%	-0.50%	0.67%	0.26%	0.93%	0.10%	0.93%	NO MAX
924	Nocona	20	21	6.61%	3.50%	10.11%	0.31%	10.42%	6.72%	3.55%	10.27%	0.37%	10.64%	0.22%	10.64%	11.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
925	Nolanville	16	16	1.69%	0.43%	2.12%	0.13%	2.25%	1.51%	0.43%	1.94%	0.08%	2.02%	-0.23%	2.02%	NO MAX
928	Normangee	4	7	4.80%	-3.93%	0.87%	0.20%	1.07%	5.02%	-1.46%	3.56%	0.29%	3.85%	2.78%	3.38%	11.50%
931	North Richland Hills	544	559	10.98%	5.36%	16.34%	0.00%	16.34%	11.32%	5.51%	16.83%	0.00%	16.83%	0.49%	16.83%	NO MAX
930	Northlake	33	44	8.74%	1.23%	9.97%	0.10%	10.07%	8.63%	1.20%	9.83%	0.11%	9.94%	-0.13%	9.94%	NO MAX
935	O'Donnell	3	5	1.67%	5.80%	7.47%	0.20%	7.67%	1.50%	3.59%	5.09%	0.26%	5.35%	-2.32%	5.35%	NO MAX
936	Oak Point	27	33	6.25%	1.24%	7.49%	0.12%	7.61%	6.17%	1.00%	7.17%	0.11%	7.28%	-0.33%	7.28%	NO MAX
937	Oak Ridge North	41	40	8.85%	2.55%	11.40%	0.20%	11.60%	8.95%	2.61%	11.56%	0.18%	11.74%	0.14%	11.74%	NO MAX
942	Odem	15	18	5.26%	4.44%	9.70%	0.36%	10.06%	4.76%	3.41%	8.17%	0.46%	8.63%	-1.43%	8.63%	NO MAX
944	Odessa	692	694	7.90%	5.54%	13.44%	0.20%	13.64%	8.19%	5.68%	13.87%	0.27%	14.14%	0.50%	14.14%	NO MAX
945	Oglesby	2	2	1.11%	-0.04%	1.07%	0.18%	1.25%	1.10%	0.33%	1.43%	0.39%	1.82%	0.57%	1.82%	NO MAX
949	Old River-Winfree	1	1	2.39%	-2.39%	0.00%	0.00%	0.00%	2.35%	-2.35%	0.00%	0.00%	0.00%	0.00%	0.00%	7.50%
950	Olmos Park	36	37	3.82%	-1.17%	2.65%	0.00%	2.65%	3.67%	-0.68%	2.99%	0.00%	2.99%	0.34%	2.99%	11.50%
951	Olney	21	21	6.46%	0.44%	6.90%	0.24%	7.14%	6.19%	0.57%	6.76%	0.23%	6.99%	-0.15%	6.99%	NO MAX
953	Omaha	6	6	1.94%	3.20%	5.14%	0.23%	5.37%	1.78%	3.13%	4.91%	0.18%	5.09%	-0.28%	5.09%	NO MAX
954	Onalaska	12	12	2.98%	-0.89%	2.09%	0.15%	2.24%	3.02%	-0.60%	2.42%	0.20%	2.62%	0.38%	2.62%	9.50%
958	Orange	148	156	10.11%	5.05%	15.16%	0.00%	15.16%	9.98%	4.78%	14.76%	0.00%	14.76%	-0.40%	14.76%	NO MAX
960	Orange Grove	9	11	8.39%	-1.19%	7.20%	0.17%	7.37%	8.88%	-0.76%	8.12%	0.20%	8.32%	0.95%	7.90%	12.50%
959	Ore City	9	10	1.33%	-0.31%	1.02%	0.11%	1.13%	1.39%	-0.26%	1.13%	0.12%	1.25%	0.12%	1.25%	7.50%
962	Overton	21	22	4.70%	-1.54%	3.16%	0.19%	3.35%	4.75%	-0.97%	3.78%	0.24%	4.02%	0.67%	4.02%	12.50%
961	Ovilla	28	25	8.26%	1.57%	9.83%	0.16%	9.99%	8.12%	1.60%	9.72%	0.19%	9.91%	-0.08%	9.91%	13.50%
963	Oyster Creek	23	23	8.20%	2.56%	10.76%	0.22%	10.98%	8.85%	2.34%	11.19%	0.25%	11.44%	0.46%	11.44%	13.50%
964	Paducah	4	8	4.49%	-4.49%	0.00%	0.29%	0.29%	4.74%	-4.74%	0.00%	0.55%	0.55%	0.26%	0.55%	9.50%
966	Palacios	33	37	10.83%	6.44%	17.27%	0.27%	17.54%	10.22%	6.54%	16.76%	0.31%	17.07%	-0.47%	17.07%	NO MAX
968	Palestine	168	164	7.79%	5.79%	13.58%	0.21%	13.79%	7.79%	6.19%	13.98%	0.31%	14.29%	0.50%	14.29%	NO MAX
970	Palmer	23	22	8.93%	2.11%	11.04%	0.11%	11.15%	9.03%	2.03%	11.06%	0.11%	11.17%	0.02%	11.17%	13.50%
969	Palmhurst	25	27	5.64%	0.09%	5.73%	0.11%	5.84%	5.35%	0.18%	5.53%	0.10%	5.63%	-0.21%	5.63%	NO MAX
971	Palmview	67	66	1.16%	0.83%	1.99%	0.09%	2.08%	1.10%	0.62%	1.72%	0.07%	1.79%	-0.29%	1.79%	NO MAX
972	Pampa	151	152	9.13%	12.35%	21.48%	0.25%	21.73%	9.44%	12.35%	21.79%	0.41%	22.20%	0.47%	22.20%	NO MAX
974	Panhandle	18	16	7.09%	4.16%	11.25%	0.00%	11.25%	6.97%	4.07%	11.04%	0.00%	11.04%	-0.21%	11.04%	NO MAX
973	Panorama Village	12	14	6.19%	0.09%	6.28%	0.41%	6.69%	5.27%	-0.02%	5.25%	0.39%	5.64%	-1.05%	5.64%	12.50%
975	Pantego	42	43	10.62%	6.55%	17.17%	0.16%	17.33%	10.76%	5.10%	15.86%	0.19%	16.05%	-1.28%	16.05%	NO MAX
976	Paris	246	246	4.14%	3.04%	7.18%	0.25%	7.43%	3.98%	2.80%	6.78%	0.36%	7.14%	-0.29%	7.14%	NO MAX
977	Parker	25	24	8.19%	4.71%	12.90%	0.17%	13.07%	8.33%	4.90%	13.23%	0.16%	13.39%	0.32%	13.39%	13.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
978	Pasadena	1,020	1,031	9.23%	4.23%	13.46%	0.24%	13.70%	9.50%	3.74%	13.24%	0.30%	13.54%	-0.16%	13.54%	NO MAX
983	Pearland	681	713	10.02%	3.12%	13.14%	0.12%	13.26%	9.88%	3.22%	13.10%	0.11%	13.21%	-0.05%	13.21%	15.50%
984	Pearsall	66	70	3.14%	1.55%	4.69%	0.18%	4.87%	3.14%	1.18%	4.32%	0.22%	4.54%	-0.33%	4.54%	8.50%
988	Pecos City	127	143	5.98%	0.16%	6.14%	0.21%	6.35%	5.97%	0.40%	6.37%	0.20%	6.57%	0.22%	6.57%	11.50%
989	Pelican Bay	15	14	1.39%	2.96%	4.35%	0.09%	4.44%	1.28%	2.85%	4.13%	0.07%	4.20%	-0.24%	4.20%	NO MAX
991	Penitas	36	37	3.17%	0.94%	4.11%	0.09%	4.20%	3.07%	0.90%	3.97%	0.07%	4.04%	-0.16%	4.04%	NO MAX
994	Perryton	80	78	8.00%	6.96%	14.96%	0.27%	15.23%	7.93%	3.93%	11.86%	0.34%	12.20%	-3.03%	12.20%	NO MAX
1000	Pflugerville	345	331	10.04%	3.42%	13.46%	0.14%	13.60%	9.84%	3.45%	13.29%	0.14%	13.43%	-0.17%	13.43%	NO MAX
1002	Pharr	618	613	5.30%	2.56%	7.86%	0.14%	8.00%	5.09%	2.38%	7.47%	0.18%	7.65%	-0.35%	7.65%	NO MAX
1004	Pilot Point	50	55	9.54%	1.96%	11.50%	0.15%	11.65%	9.53%	2.10%	11.63%	0.15%	11.78%	0.13%	11.78%	12.50%
1005	Pinehurst	21	21	11.54%	8.28%	19.82%	0.25%	20.07%	11.51%	8.27%	19.78%	0.36%	20.14%	0.07%	20.14%	NO MAX
1003	Pineland	14	10	5.21%	1.03%	6.24%	0.25%	6.49%	5.62%	-1.62%	4.00%	0.42%	4.42%	-2.07%	4.42%	NO MAX
1001	Piney Point Village	5	6	6.63%	0.29%	6.92%	0.23%	7.15%	6.32%	0.44%	6.76%	0.29%	7.05%	-0.10%	7.05%	NO MAX
1006	Pittsburg	35	36	9.51%	3.85%	13.36%	0.21%	13.57%	9.36%	3.45%	12.81%	0.32%	13.13%	-0.44%	13.13%	NO MAX
1007	Plains	8	9	5.03%	-0.81%	4.22%	0.22%	4.44%	4.98%	-0.39%	4.59%	0.20%	4.79%	0.35%	4.79%	NO MAX
1008	Plainview	137	137	9.28%	2.99%	12.27%	0.00%	12.27%	9.39%	2.42%	11.81%	0.00%	11.81%	-0.46%	11.81%	NO MAX
1010	Plano	2,410	2,428	11.33%	5.38%	16.71%	0.00%	16.71%	11.50%	5.18%	16.68%	0.00%	16.68%	-0.03%	16.68%	NO MAX
1012	Pleasanton	101	112	9.12%	6.10%	15.22%	0.16%	15.38%	8.97%	6.21%	15.18%	0.15%	15.33%	-0.05%	15.33%	NO MAX
1013	Point	11	10	10.51%	2.61%	13.12%	0.00%	13.12%	10.90%	2.02%	12.92%	0.00%	12.92%	-0.20%	12.92%	NO MAX
1017	Ponder	14	15	5.49%	0.73%	6.22%	0.42%	6.64%	5.10%	0.67%	5.77%	0.40%	6.17%	-0.47%	6.17%	NO MAX
1014	Port Aransas	109	116	8.36%	3.31%	11.67%	0.24%	11.91%	8.02%	3.36%	11.38%	0.22%	11.60%	-0.31%	11.60%	12.50%
11016	Port Arthur	556	578	6.99%	6.75%	13.74%	0.25%	13.99%	7.22%	6.70%	13.92%	0.32%	14.24%	0.25%	14.24%	NO MAX
1018	Port Isabel	72	71	4.08%	-0.40%	3.68%	0.17%	3.85%	4.17%	-0.16%	4.01%	0.26%	4.27%	0.42%	4.27%	9.50%
1020	Port Lavaca	84	82	4.61%	1.28%	5.89%	0.25%	6.14%	4.61%	1.15%	5.76%	0.41%	6.17%	0.03%	6.17%	9.50%
1022	Port Neches	95	96	8.96%	4.42%	13.38%	0.00%	13.38%	9.18%	4.75%	13.93%	0.00%	13.93%	0.55%	13.93%	NO MAX
1019	Portland	133	151	8.06%	5.12%	13.18%	0.23%	13.41%	8.24%	4.98%	13.22%	0.23%	13.45%	0.04%	13.45%	NO MAX
1024	Post	20	21	6.70%	7.56%	14.26%	0.43%	14.69%	6.80%	6.98%	13.78%	0.92%	14.70%	0.01%	14.70%	NO MAX
1026	Poteet	26	30	3.73%	-1.59%	2.14%	0.18%	2.32%	3.79%	-0.89%	2.90%	0.21%	3.11%	0.79%	2.96%	9.50%
1028	Poth	10	8	2.34%	1.93%	4.27%	0.34%	4.61%	2.23%	2.38%	4.61%	0.53%	5.14%	0.53%	5.14%	9.50%
1030	Pottsboro	20	21	6.45%	0.30%	6.75%	0.18%	6.93%	6.28%	0.47%	6.75%	0.22%	6.97%	0.04%	6.97%	13.50%
1031	Prairie View	21	22	1.99%	2.29%	4.28%	0.20%	4.48%	1.82%	1.22%	3.04%	0.12%	3.16%	-1.32%	3.16%	NO MAX
1032	Premont	18	18	1.92%	-1.92%	0.00%	0.30%	0.30%	1.65%	-1.65%	0.00%	0.43%	0.43%	0.13%	0.43%	7.50%
1029	Presidio	42	40	1.47%	-0.72%	0.75%	0.22%	0.97%	1.25%	-0.45%	0.80%	0.17%	0.97%	0.00%	0.97%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES					2021 RATES					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	WITHOUT MAXIMUM OR PHASE-IN					WITHOUT MAXIMUM OR PHASE-IN							
				RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST			PRIOR SERVICE	TOTAL						
1033	Primera	18	21	1.15%	-1.15%	0.00%	0.13%	0.13%	1.39%	-0.74%	0.65%	0.11%	0.76%	0.63%	0.76%	7.50%
1034	Princeton	83	98	10.06%	0.69%	10.75%	0.12%	10.87%	10.37%	1.04%	11.41%	0.12%	11.53%	0.66%	11.53%	13.50%
1036	Prosper	189	226	12.16%	1.38%	13.54%	0.00%	13.54%	12.17%	1.57%	13.74%	0.00%	13.74%	0.20%	13.74%	15.50%
1037	Providence Village	8	8	5.70%	1.89%	7.59%	0.20%	7.79%	4.80%	2.11%	6.91%	0.10%	7.01%	-0.78%	7.01%	NO MAX
1042	Quanah	12	12	5.03%	4.05%	9.08%	0.31%	9.39%	5.44%	3.50%	8.94%	0.54%	9.48%	0.09%	9.48%	NO MAX
1045	Queen City	12	14	2.62%	-0.91%	1.71%	0.34%	2.05%	2.42%	-0.82%	1.60%	0.14%	1.74%	-0.31%	1.74%	7.50%
1044	Quinlan	18	17	10.14%	-0.18%	9.96%	0.11%	10.07%	10.18%	-0.49%	9.69%	0.11%	9.80%	-0.27%	9.80%	12.50%
1047	Quintana	3	3	3.36%	0.75%	4.11%	0.17%	4.28%	3.55%	0.68%	4.23%	0.09%	4.32%	0.04%	4.32%	NO MAX
1046	Quitaque	4	4	1.38%	3.22%	4.60%	0.25%	4.85%	1.25%	3.12%	4.37%	0.34%	4.71%	-0.14%	4.71%	NO MAX
1048	Quitman	23	23	6.26%	-0.69%	5.57%	0.23%	5.80%	6.35%	-0.64%	5.71%	0.37%	6.08%	0.28%	6.08%	11.50%
1050	Ralls	11	13	5.72%	2.03%	7.75%	0.57%	8.32%	5.60%	1.75%	7.35%	0.60%	7.95%	-0.37%	7.95%	9.50%
1051	Rancho Viejo	10	11	5.08%	1.63%	6.71%	0.11%	6.82%	5.51%	-0.05%	5.46%	0.11%	5.57%	-1.25%	5.57%	11.50%
1052	Ranger	21	19	8.95%	-1.06%	7.89%	0.00%	7.89%	8.76%	-1.00%	7.76%	0.00%	7.76%	-0.13%	7.76%	12.50%
1054	Rankin	3	5	1.29%	-0.58%	0.71%	0.22%	0.93%	1.20%	-0.24%	0.96%	0.35%	1.31%	0.38%	1.31%	7.50%
1055	Ransom Canyon	12	12	5.17%	10.57%	15.74%	0.25%	15.99%	5.33%	9.06%	14.39%	0.20%	14.59%	-1.40%	14.59%	NO MAX
1058	Raymondville	70	71	4.36%	-3.38%	0.98%	0.26%	1.24%	4.32%	-2.14%	2.18%	0.47%	2.65%	1.41%	1.96%	15.50%
1061	Red Oak	99	105	5.81%	1.29%	7.10%	0.13%	7.23%	5.49%	1.28%	6.77%	0.11%	6.88%	-0.35%	6.88%	13.50%
1062	Redwater	7	8	2.60%	0.59%	3.19%	0.16%	3.35%	2.32%	0.50%	2.82%	0.11%	2.93%	-0.42%	2.93%	NO MAX
1064	Refugio	29	28	1.05%	-1.05%	0.00%	0.00%	0.00%	0.97%	-0.97%	0.00%	0.00%	0.00%	0.00%	0.00%	7.50%
1065	Reklaw	5	5	8.18%	8.58%	16.76%	0.30%	17.06%	8.23%	7.69%	15.92%	0.50%	16.42%	-0.64%	16.42%	NO MAX
1066	Reno (Lamar County)	14	14	5.54%	-1.14%	4.40%	0.10%	4.50%	5.64%	-0.52%	5.12%	0.08%	5.20%	0.70%	5.20%	11.50%
1069	Reno (Parker County)	17	17	4.55%	-0.44%	4.11%	0.20%	4.31%	3.50%	-0.22%	3.28%	0.15%	3.43%	-0.88%	3.43%	NO MAX
1067	Rhome	17	17	6.98%	0.14%	7.12%	0.14%	7.26%	6.91%	-0.49%	6.42%	0.15%	6.57%	-0.69%	6.57%	13.50%
1068	Rice	12	13	1.62%	-0.42%	1.20%	0.13%	1.33%	1.46%	-0.24%	1.22%	0.12%	1.34%	0.01%	1.34%	7.50%
1070	Richardson	991	1,005	7.97%	6.75%	14.72%	0.00%	14.72%	7.98%	6.82%	14.80%	0.00%	14.80%	0.08%	14.80%	NO MAX
1073	Richland Hills	79	76	11.71%	3.92%	15.63%	0.21%	15.84%	11.73%	4.32%	16.05%	0.31%	16.36%	0.52%	16.36%	NO MAX
1076	Richmond	159	159	10.35%	4.28%	14.63%	0.17%	14.80%	10.65%	4.48%	15.13%	0.18%	15.31%	0.51%	15.31%	NO MAX
1077	Richwood	27	23	7.93%	3.16%	11.09%	0.14%	11.23%	7.87%	3.30%	11.17%	0.19%	11.36%	0.13%	11.36%	NO MAX
1072	Riesel	7	8	1.09%	4.74%	5.83%	0.18%	6.01%	1.03%	4.64%	5.67%	0.19%	5.86%	-0.15%	5.86%	NO MAX
1075	Rio Grande City	142	147	5.79%	1.04%	6.83%	0.14%	6.97%	5.93%	1.03%	6.96%	0.12%	7.08%	0.11%	7.08%	NO MAX
1079	Rio Vista	7	9	2.43%	1.90%	4.33%	0.11%	4.44%	2.69%	1.37%	4.06%	0.14%	4.20%	-0.24%	4.20%	NO MAX
1080	Rising Star	7	6	1.88%	-1.82%	0.06%	0.28%	0.34%	1.88%	-1.88%	0.00%	0.54%	0.54%	0.20%	0.54%	NO MAX
1082	River Oaks	56	69	10.31%	4.08%	14.39%	0.28%	14.67%	10.59%	4.22%	14.81%	0.42%	15.23%	0.56%	15.23%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
1084	Roanoke	124	131	12.82%	4.52%	17.34%	0.00%	17.34%	12.96%	4.50%	17.46%	0.00%	17.46%	0.12%	17.46%	NO MAX
1088	Robert Lee	6	6	1.27%	4.26%	5.53%	0.13%	5.66%	0.93%	2.91%	3.84%	0.32%	4.16%	-1.50%	4.16%	NO MAX
1089	Robinson	68	71	8.55%	5.04%	13.59%	0.21%	13.80%	8.56%	4.94%	13.50%	0.20%	13.70%	-0.10%	13.70%	NO MAX
21090	Robstown	98	101	4.38%	1.41%	5.79%	0.13%	5.92%	4.34%	1.18%	5.52%	0.18%	5.70%	-0.22%	5.70%	9.50%
11090	Robstown Utility Systems	43	43	4.98%	7.74%	12.72%	0.30%	13.02%	5.05%	7.44%	12.49%	0.38%	12.87%	-0.15%	12.87%	NO MAX
1092	Roby	2	2	6.37%	-3.11%	3.26%	0.59%	3.85%	6.39%	-1.43%	4.96%	1.59%	6.55%	2.70%	6.21%	NO MAX
1096	Rockdale	47	46	7.01%	1.98%	8.99%	0.37%	9.36%	6.66%	1.59%	8.25%	0.38%	8.63%	-0.73%	8.63%	11.50%
1098	Rockport	114	114	11.32%	6.55%	17.87%	0.26%	18.13%	10.89%	6.46%	17.35%	0.30%	17.65%	-0.48%	17.65%	NO MAX
1100	Rocksprings	7	8	2.48%	-1.17%	1.31%	0.00%	1.31%	2.61%	-1.01%	1.60%	0.00%	1.60%	0.29%	1.60%	NO MAX
1102	Rockwall	273	289	11.87%	3.58%	15.45%	0.15%	15.60%	11.87%	3.37%	15.24%	0.15%	15.39%	-0.21%	15.39%	NO MAX
1104	Rogers	8	6	5.41%	3.27%	8.68%	0.00%	8.68%	5.11%	4.73%	9.84%	0.00%	9.84%	1.16%	9.42%	NO MAX
1105	Rollingwood	16	15	9.13%	2.75%	11.88%	0.28%	12.16%	9.44%	1.86%	11.30%	0.25%	11.55%	-0.61%	11.55%	13.50%
1106	Roma	127	123	6.75%	3.44%	10.19%	0.27%	10.46%	6.83%	3.41%	10.24%	0.35%	10.59%	0.13%	10.59%	11.50%
1109	Roscoe	8	7	2.08%	0.22%	2.30%	0.42%	2.72%	1.96%	-0.08%	1.88%	0.30%	2.18%	-0.54%	2.18%	NO MAX
1112	Rosebud	12	12	2.03%	-0.08%	1.95%	0.31%	2.26%	1.90%	-0.07%	1.83%	0.46%	2.29%	0.03%	2.29%	NO MAX
1114	Rosenberg	251	278	9.79%	6.40%	16.19%	0.12%	16.31%	9.76%	6.53%	16.29%	0.12%	16.41%	0.10%	16.41%	NO MAX
1116	Rotan	6	6	1.40%	-1.40%	0.00%	0.28%	0.28%	1.36%	-1.36%	0.00%	0.48%	0.48%	0.20%	0.48%	NO MAX
1118	Round Rock	947	980	10.78%	4.57%	15.35%	0.14%	15.49%	10.99%	4.85%	15.84%	0.14%	15.98%	0.49%	15.98%	NO MAX
1119	Rowlett	389	408	9.46%	3.59%	13.05%	0.00%	13.05%	9.41%	3.62%	13.03%	0.00%	13.03%	-0.02%	13.03%	NO MAX
1120	Royse City	71	76	12.12%	3.23%	15.35%	0.17%	15.52%	12.07%	3.40%	15.47%	0.15%	15.62%	0.10%	15.62%	NO MAX
1122	Rule	3	3	5.27%	-3.10%	2.17%	0.15%	2.32%	3.67%	-2.08%	1.59%	0.21%	1.80%	-0.52%	1.80%	11.50%
1123	Runaway Bay	18	17	3.32%	-1.59%	1.73%	0.21%	1.94%	3.11%	-0.78%	2.33%	0.25%	2.58%	0.64%	2.58%	9.50%
1124	Runge	3	3	4.44%	14.22%	18.66%	0.54%	19.20%	4.29%	16.77%	21.06%	0.85%	21.91%	2.71%	21.91%	NO MAX
1126	Rusk	38	39	6.59%	-0.58%	6.01%	0.21%	6.22%	6.48%	-0.34%	6.14%	0.21%	6.35%	0.13%	6.35%	10.50%
1128	Sabinal	12	14	3.32%	-0.08%	3.24%	0.42%	3.66%	3.24%	-0.98%	2.26%	0.48%	2.74%	-0.92%	2.74%	9.50%
1129	Sachse	149	155	10.91%	3.73%	14.64%	0.13%	14.77%	11.15%	3.50%	14.65%	0.14%	14.79%	0.02%	14.79%	NO MAX
1131	Saginaw	150	149	11.52%	10.15%	21.67%	0.19%	21.86%	11.56%	9.55%	21.11%	0.17%	21.28%	-0.58%	21.28%	NO MAX
1130	Saint Jo	5	7	6.22%	-3.68%	2.54%	0.33%	2.87%	6.80%	-2.05%	4.75%	0.69%	5.44%	2.57%	4.40%	10.50%
1133	Salado	10	11	6.85%	-1.15%	5.70%	0.22%	5.92%	6.90%	-0.73%	6.17%	0.23%	6.40%	0.48%	6.40%	NO MAX
1132	San Angelo	715	722	8.39%	9.04%	17.43%	0.00%	17.43%	8.18%	9.15%	17.33%	0.00%	17.33%	-0.10%	17.33%	NO MAX
21136	San Antonio	7,028	7,145	6.78%	5.16%	11.94%	0.00%	11.94%	7.05%	4.93%	11.98%	0.00%	11.98%	0.04%	11.98%	NO MAX
11136	San Antonio Water System	1,709	1,716	2.04%	1.60%	3.64%	0.00%	3.64%	2.11%	1.63%	3.74%	0.00%	3.74%	0.10%	3.74%	5.50%
1138	San Augustine	28	29	7.46%	0.73%	8.19%	0.26%	8.45%	7.39%	1.34%	8.73%	0.40%	9.13%	0.68%	9.13%	13.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
1140	San Benito	160	170	3.85%	1.42%	5.27%	0.21%	5.48%	3.69%	1.30%	4.99%	0.33%	5.32%	-0.16%	5.32%	11.50%
1144	San Felipe	4	4	1.79%	2.83%	4.62%	0.20%	4.82%	1.63%	3.42%	5.05%	0.23%	5.28%	0.46%	5.28%	NO MAX
1148	San Juan	213	233	4.56%	0.09%	4.65%	0.17%	4.82%	4.38%	0.01%	4.39%	0.20%	4.59%	-0.23%	4.59%	12.50%
1150	San Marcos	650	664	10.31%	6.98%	17.29%	0.16%	17.45%	10.67%	7.32%	17.99%	0.16%	18.15%	0.70%	18.04%	NO MAX
1152	San Saba	45	43	6.04%	2.42%	8.46%	0.29%	8.75%	6.18%	2.15%	8.33%	0.35%	8.68%	-0.07%	8.68%	10.50%
1146	Sanger	70	66	6.28%	1.88%	8.16%	0.15%	8.31%	6.42%	2.14%	8.56%	0.14%	8.70%	0.39%	8.70%	12.50%
1153	Sansom Park	30	35	7.13%	-1.10%	6.03%	0.13%	6.16%	7.69%	-0.76%	6.93%	0.15%	7.08%	0.92%	6.96%	11.50%
1155	Santa Fe	59	63	6.63%	5.20%	11.83%	0.00%	11.83%	6.62%	5.56%	12.18%	0.00%	12.18%	0.35%	12.18%	NO MAX
1158	Savoy	3	3	4.16%	-4.16%	0.00%	0.25%	0.25%	5.19%	-2.73%	2.46%	0.40%	2.86%	2.61%	1.24%	10.50%
1159	Schertz	328	344	10.35%	5.45%	15.80%	0.12%	15.92%	10.86%	5.46%	16.32%	0.13%	16.45%	0.53%	16.43%	NO MAX
1160	Schulenburg	37	40	9.93%	11.57%	21.50%	0.25%	21.75%	9.52%	10.78%	20.30%	0.28%	20.58%	-1.17%	20.58%	NO MAX
1161	Seabrook	95	109	9.61%	6.27%	15.88%	0.16%	16.04%	9.95%	6.18%	16.13%	0.17%	16.30%	0.26%	16.30%	NO MAX
1162	Seadrift	13	14	1.37%	2.27%	3.64%	0.19%	3.83%	1.26%	2.04%	3.30%	0.17%	3.47%	-0.36%	3.47%	NO MAX
1164	Seagoville	96	103	7.86%	3.08%	10.94%	0.22%	11.16%	8.06%	3.04%	11.10%	0.21%	11.31%	0.15%	11.31%	13.50%
1166	Seagraves	17	19	7.67%	2.55%	10.22%	0.46%	10.68%	7.72%	2.37%	10.09%	0.78%	10.87%	0.19%	10.87%	NO MAX
1167	Sealy	57	64	9.80%	5.06%	14.86%	0.18%	15.04%	9.18%	4.13%	13.31%	0.19%	13.50%	-1.54%	13.50%	NO MAX
1168	Seguin	374	395	10.41%	11.81%	22.22%	0.19%	22.41%	9.92%	12.30%	22.22%	0.28%	22.50%	0.09%	22.50%	NO MAX
1169	Selma	85	85	11.17%	3.47%	14.64%	0.11%	14.75%	11.40%	3.74%	15.14%	0.10%	15.24%	0.49%	15.24%	NO MAX
1170	Seminole	56	57	8.68%	3.35%	12.03%	0.25%	12.28%	8.40%	3.75%	12.15%	0.32%	12.47%	0.19%	12.47%	NO MAX
1171	Seven Points	19	19	9.00%	-7.89%	1.11%	0.20%	1.31%	9.63%	-5.17%	4.46%	0.31%	4.77%	3.46%	1.92%	13.50%
1172	Seymour	32	29	3.47%	3.73%	7.20%	0.39%	7.59%	3.48%	3.92%	7.40%	0.61%	8.01%	0.42%	8.01%	8.50%
1165	Shady Shores	2	2	7.74%	1.77%	9.51%	0.07%	9.58%	7.86%	2.32%	10.18%	0.05%	10.23%	0.65%	10.23%	NO MAX
1177	Shallowater	14	15	4.57%	-0.01%	4.56%	0.16%	4.72%	4.87%	-0.30%	4.57%	0.18%	4.75%	0.03%	4.75%	10.50%
1174	Shamrock	12	14	3.09%	5.66%	8.75%	0.73%	9.48%	3.23%	6.31%	9.54%	1.41%	10.95%	1.47%	10.95%	NO MAX
1173	Shavano Park	49	49	10.79%	2.56%	13.35%	0.14%	13.49%	11.23%	2.51%	13.74%	0.17%	13.91%	0.42%	13.91%	13.50%
1175	Shenandoah	49	52	11.38%	6.86%	18.24%	0.14%	18.38%	11.33%	7.26%	18.59%	0.14%	18.73%	0.35%	18.73%	NO MAX
1181	Shepherd	11	10	4.95%	-2.36%	2.59%	0.21%	2.80%	4.05%	-1.64%	2.41%	0.10%	2.51%	-0.29%	2.51%	11.50%
1176	Sherman	439	452	8.71%	5.63%	14.34%	0.20%	14.54%	9.03%	5.46%	14.49%	0.26%	14.75%	0.21%	14.75%	NO MAX
1178	Shiner	32	31	5.42%	6.60%	12.02%	0.36%	12.38%	5.46%	5.35%	10.81%	0.53%	11.34%	-1.04%	11.34%	NO MAX
1179	Shoreacres	10	10	6.28%	-1.79%	4.49%	0.28%	4.77%	6.20%	-1.27%	4.93%	0.27%	5.20%	0.43%	5.20%	9.50%
1180	Silsbee	63	66	9.83%	9.14%	18.97%	0.00%	18.97%	10.20%	8.45%	18.65%	0.00%	18.65%	-0.32%	18.65%	NO MAX
1182	Silverton	4	4	5.96%	-0.57%	5.39%	0.21%	5.60%	6.02%	-0.47%	5.55%	0.34%	5.89%	0.29%	5.89%	NO MAX
1183	Simonton	2	2	1.55%	0.85%	2.40%	0.04%	2.44%	1.64%	0.91%	2.55%	0.03%	2.58%	0.14%	2.58%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
1184	Sinton	51	51	8.12%	4.21%	12.33%	0.21%	12.54%	8.24%	4.05%	12.29%	0.23%	12.52%	-0.02%	12.52%	NO MAX
1185	Skellytown	6	5	4.27%	-2.36%	1.91%	0.24%	2.15%	3.95%	-1.37%	2.58%	0.10%	2.68%	0.53%	2.51%	9.50%
1186	Slaton	46	45	6.48%	0.31%	6.79%	0.26%	7.05%	6.31%	0.44%	6.75%	0.34%	7.09%	0.04%	7.09%	12.50%
1188	Smithville	62	64	5.00%	1.94%	6.94%	0.27%	7.21%	4.99%	2.07%	7.06%	0.35%	7.41%	0.20%	7.41%	9.50%
1189	Smyer	2	2	5.69%	3.99%	9.68%	0.18%	9.86%	5.38%	5.09%	10.47%	0.14%	10.61%	0.75%	10.61%	13.50%
1190	Snyder	79	83	9.86%	3.77%	13.63%	0.24%	13.87%	9.50%	4.24%	13.74%	0.32%	14.06%	0.19%	14.06%	NO MAX
1191	Somerset	12	12	3.00%	-0.32%	2.68%	0.45%	3.13%	2.71%	-0.37%	2.34%	1.51%	3.85%	0.72%	3.85%	9.50%
1192	Somerville	15	15	5.37%	-1.12%	4.25%	0.37%	4.62%	5.63%	-0.62%	5.01%	0.47%	5.48%	0.86%	5.48%	9.50%
1194	Sonora	31	31	6.46%	1.99%	8.45%	0.28%	8.73%	6.59%	2.33%	8.92%	0.39%	9.31%	0.58%	9.31%	NO MAX
1196	Sour Lake	13	16	6.22%	-0.99%	5.23%	0.24%	5.47%	6.31%	-0.59%	5.72%	0.20%	5.92%	0.45%	5.92%	13.50%
1198	South Houston	115	119	6.36%	3.47%	9.83%	0.28%	10.11%	6.43%	3.24%	9.67%	0.33%	10.00%	-0.11%	10.00%	NO MAX
1199	South Padre Island	168	173	11.18%	1.75%	12.93%	0.16%	13.09%	10.75%	1.80%	12.55%	0.18%	12.73%	-0.36%	12.73%	13.50%
1197	Southlake	345	343	9.54%	2.91%	12.45%	0.13%	12.58%	9.41%	2.98%	12.39%	0.13%	12.52%	-0.06%	12.52%	13.50%
1200	Southmayd	9	8	1.62%	3.55%	5.17%	0.12%	5.29%	1.48%	2.12%	3.60%	0.10%	3.70%	-1.59%	3.70%	NO MAX
1202	Southside Place	23	22	8.49%	3.12%	11.61%	0.22%	11.83%	8.57%	2.78%	11.35%	0.38%	11.73%	-0.10%	11.73%	NO MAX
1204	Spearman	25	26	8.96%	2.42%	11.38%	0.28%	11.66%	9.01%	1.97%	10.98%	0.31%	11.29%	-0.37%	11.29%	13.50%
1201	Splendora	24	26	2.67%	2.92%	5.59%	0.18%	5.77%	2.50%	2.95%	5.45%	0.12%	5.57%	-0.20%	5.57%	NO MAX
1205	Spring Valley Village	40	39	6.15%	0.76%	6.91%	0.16%	7.07%	5.74%	0.93%	6.67%	0.18%	6.85%	-0.22%	6.85%	NO MAX
1203	Springtown	43	47	10.80%	-1.49%	9.31%	0.17%	9.48%	10.66%	-1.17%	9.49%	0.18%	9.67%	0.19%	9.67%	13.50%
1206	Spur	11	10	2.48%	2.69%	5.17%	0.21%	5.38%	2.29%	2.92%	5.21%	0.18%	5.39%	0.01%	5.39%	NO MAX
1207	Stafford	182	187	11.39%	2.74%	14.13%	0.18%	14.31%	11.40%	2.65%	14.05%	0.23%	14.28%	-0.03%	14.28%	NO MAX
1208	Stamford	25	23	5.56%	-0.60%	4.96%	0.39%	5.35%	5.46%	-0.73%	4.73%	0.63%	5.36%	0.01%	5.36%	9.50%
1210	Stanton	21	19	4.61%	3.05%	7.66%	0.20%	7.86%	4.55%	1.14%	5.69%	0.19%	5.88%	-1.98%	5.88%	9.50%
1211	Star Harbor	5	4	7.72%	2.98%	10.70%	0.42%	11.12%	7.70%	2.93%	10.63%	0.86%	11.49%	0.37%	11.49%	NO MAX
1212	Stephenville	155	156	7.40%	-0.73%	6.67%	0.20%	6.87%	7.57%	-0.52%	7.05%	0.26%	7.31%	0.44%	7.31%	NO MAX
1213	Sterling City	6	6	1.15%	-0.04%	1.11%	0.00%	1.11%	1.33%	-0.15%	1.18%	0.00%	1.18%	0.07%	1.18%	7.50%
1214	Stinnett	16	17	2.44%	-2.44%	0.00%	0.21%	0.21%	2.23%	-2.13%	0.10%	0.33%	0.43%	0.22%	0.43%	9.50%
1216	Stockdale	8	8	2.71%	2.82%	5.53%	0.38%	5.91%	2.85%	1.90%	4.75%	0.33%	5.08%	-0.83%	5.08%	NO MAX
1218	Stratford	13	13	5.60%	-0.43%	5.17%	0.31%	5.48%	5.19%	-0.31%	4.88%	0.26%	5.14%	-0.34%	5.14%	NO MAX
1224	Sudan	8	9	1.49%	0.30%	1.79%	0.00%	1.79%	1.56%	-0.52%	1.04%	0.00%	1.04%	-0.75%	1.04%	7.50%
1225	Sugar Land	750	766	11.03%	3.57%	14.60%	0.16%	14.76%	10.84%	3.59%	14.43%	0.14%	14.57%	-0.19%	14.57%	NO MAX
1226	Sulphur Springs	148	145	5.14%	3.04%	8.18%	0.24%	8.42%	4.74%	2.72%	7.46%	0.30%	7.76%	-0.66%	7.76%	NO MAX
1228	Sundown	13	11	7.01%	4.74%	11.75%	0.21%	11.96%	8.08%	4.07%	12.15%	0.38%	12.53%	0.57%	12.53%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES					2021 RATES					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	WITHOUT MAXIMUM OR PHASE-IN					WITHOUT MAXIMUM OR PHASE-IN							
				RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST	PRIOR SERVICE	TOTAL	NORMAL COST			PRIOR SERVICE	TOTAL						
1229	Sunnyvale	45	46	9.73%	1.83%	11.56%	0.21%	11.77%	10.22%	1.75%	11.97%	0.24%	12.21%	0.44%	12.21%	NO MAX
1230	Sunray	8	12	9.44%	5.00%	14.44%	0.33%	14.77%	10.02%	5.08%	15.10%	0.31%	15.41%	0.64%	15.25%	NO MAX
1227	Sunrise Beach Village	10	10	1.42%	-0.08%	1.34%	0.14%	1.48%	1.40%	0.00%	1.40%	0.20%	1.60%	0.12%	1.60%	7.50%
1231	Sunset Valley	31	29	10.57%	2.61%	13.18%	0.12%	13.30%	11.07%	2.90%	13.97%	0.11%	14.08%	0.78%	14.08%	13.50%
1233	Surfside Beach	20	24	2.32%	-0.98%	1.34%	0.26%	1.60%	2.06%	-0.65%	1.41%	0.18%	1.59%	-0.01%	1.59%	9.50%
1232	Sweeny	23	24	9.93%	7.18%	17.11%	0.32%	17.43%	9.38%	6.45%	15.83%	0.46%	16.29%	-1.14%	16.29%	NO MAX
1234	Sweetwater	105	111	9.47%	8.26%	17.73%	0.24%	17.97%	9.24%	7.11%	16.35%	0.26%	16.61%	-1.36%	16.61%	NO MAX
1264	TMRS	114	118	11.17%	4.57%	15.74%	0.19%	15.93%	11.26%	4.24%	15.50%	0.17%	15.67%	-0.26%	15.67%	NO MAX
1236	Taft	22	27	12.96%	4.92%	17.88%	0.31%	18.19%	12.65%	3.87%	16.52%	0.45%	16.97%	-1.22%	16.97%	NO MAX
1238	Tahoka	19	20	3.97%	-3.97%	0.00%	0.29%	0.29%	3.99%	-3.41%	0.58%	0.36%	0.94%	0.65%	0.86%	11.50%
1240	Talty	4	7	6.30%	8.62%	14.92%	0.59%	15.51%	5.84%	8.86%	14.70%	0.36%	15.06%	-0.45%	15.06%	NO MAX
1241	Tatum	10	9	1.42%	0.39%	1.81%	0.17%	1.98%	1.42%	0.39%	1.81%	0.21%	2.02%	0.04%	2.02%	7.50%
1246	Taylor	153	159	9.08%	3.62%	12.70%	0.22%	12.92%	9.13%	4.05%	13.18%	0.28%	13.46%	0.54%	13.46%	NO MAX
1248	Teague	21	21	9.21%	-0.17%	9.04%	0.24%	9.28%	8.78%	-0.52%	8.26%	0.33%	8.59%	-0.69%	8.59%	13.50%
1252	Temple	669	689	10.12%	6.79%	16.91%	0.20%	17.11%	10.47%	6.58%	17.05%	0.29%	17.34%	0.23%	17.34%	NO MAX
1254	Tenaha	10	6	1.62%	-1.32%	0.30%	0.16%	0.46%	1.19%	-0.83%	0.36%	0.50%	0.86%	0.40%	0.86%	7.50%
1256	Terrell	178	190	10.61%	5.28%	15.89%	0.21%	16.10%	10.90%	5.36%	16.26%	0.27%	16.53%	0.43%	16.53%	NO MAX
1258	Terrell Hills	50	48	9.69%	5.69%	15.38%	0.18%	15.56%	9.95%	5.71%	15.66%	0.22%	15.88%	0.32%	15.88%	NO MAX
31263	Tex Municipal League IEBP	141	126	4.26%	1.83%	6.09%	0.21%	6.30%	4.22%	1.49%	5.71%	0.15%	5.86%	-0.44%	5.86%	12.50%
21263	Tex Municipal League IRP	245	250	10.13%	0.38%	10.51%	0.21%	10.72%	10.14%	0.41%	10.55%	0.18%	10.73%	0.01%	10.73%	NO MAX
21260	Texarkana	202	207	9.44%	6.12%	15.56%	0.00%	15.56%	9.11%	6.20%	15.31%	0.00%	15.31%	-0.25%	15.31%	NO MAX
11260	Texarkana Police Dept	87	86	10.24%	4.18%	14.42%	0.00%	14.42%	10.21%	4.55%	14.76%	0.00%	14.76%	0.34%	14.76%	NO MAX
31260	Texarkana Water Utilities	163	161	9.39%	6.73%	16.12%	0.00%	16.12%	9.63%	6.51%	16.14%	0.00%	16.14%	0.02%	16.14%	NO MAX
1262	Texas City	414	424	9.68%	6.56%	16.24%	0.00%	16.24%	9.91%	6.69%	16.60%	0.00%	16.60%	0.36%	16.60%	NO MAX
11263	Texas Municipal League	34	33	7.60%	7.25%	14.85%	0.19%	15.04%	7.78%	6.49%	14.27%	0.25%	14.52%	-0.52%	14.52%	NO MAX
1267	The Colony	344	367	9.66%	3.26%	12.92%	0.14%	13.06%	9.94%	3.55%	13.49%	0.15%	13.64%	0.58%	13.64%	NO MAX
1269	Thompsons	3	3	2.03%	2.28%	4.31%	0.23%	4.54%	1.86%	2.39%	4.25%	0.17%	4.42%	-0.12%	4.42%	NO MAX
1268	Thorndale	7	10	6.40%	1.69%	8.09%	0.34%	8.43%	6.22%	1.06%	7.28%	0.30%	7.58%	-0.85%	7.58%	9.50%
1272	Thrall	4	6	3.95%	3.46%	7.41%	0.45%	7.86%	4.12%	2.57%	6.69%	0.27%	6.96%	-0.90%	6.96%	NO MAX
1274	Three Rivers	41	40	9.94%	12.70%	22.64%	0.34%	22.98%	10.20%	13.66%	23.86%	0.48%	24.34%	1.36%	24.34%	NO MAX
1276	Throckmorton	5	5	5.46%	-0.55%	4.91%	0.22%	5.13%	5.60%	0.75%	6.35%	0.42%	6.77%	1.64%	6.61%	9.50%
1277	Tiki Island	8	8	2.37%	1.39%	3.76%	0.23%	3.99%	2.15%	1.23%	3.38%	0.19%	3.57%	-0.42%	3.57%	NO MAX
1278	Timpson	9	8	2.58%	-0.57%	2.01%	0.46%	2.47%	2.72%	-1.05%	1.67%	0.31%	1.98%	-0.49%	1.98%	7.50%



**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
1280	Tioga	10	10	1.89%	-0.43%	1.46%	0.13%	1.59%	2.03%	-0.30%	1.73%	0.12%	1.85%	0.26%	1.85%	9.50%
1283	Tolar	5	6	7.09%	0.65%	7.74%	0.15%	7.89%	6.84%	-0.12%	6.72%	0.18%	6.90%	-0.99%	6.90%	NO MAX
1286	Tom Bean	8	8	3.89%	-1.21%	2.68%	0.15%	2.83%	3.56%	-0.71%	2.85%	0.14%	2.99%	0.16%	2.99%	10.50%
1284	Tomball	174	177	9.86%	3.63%	13.49%	0.20%	13.69%	9.47%	3.84%	13.31%	0.22%	13.53%	-0.16%	13.53%	NO MAX
1290	Trent	2	2	5.36%	2.52%	7.88%	0.53%	8.41%	4.77%	1.52%	6.29%	0.63%	6.92%	-1.49%	6.92%	11.50%
1292	Trenton	5	6	5.05%	-1.63%	3.42%	0.34%	3.76%	4.83%	-0.79%	4.04%	0.36%	4.40%	0.64%	4.40%	9.50%
1293	Trinidad	5	5	2.12%	0.95%	3.07%	0.42%	3.49%	1.89%	0.16%	2.05%	0.47%	2.52%	-0.97%	2.52%	7.50%
1294	Trinity	25	23	6.18%	0.68%	6.86%	0.30%	7.16%	6.41%	0.43%	6.84%	0.42%	7.26%	0.10%	7.26%	11.50%
1295	Trophy Club	77	77	10.85%	2.24%	13.09%	0.17%	13.26%	11.26%	2.19%	13.45%	0.17%	13.62%	0.36%	13.62%	NO MAX
1296	Troup	23	22	4.68%	0.68%	5.36%	0.31%	5.67%	4.61%	0.53%	5.14%	0.43%	5.57%	-0.10%	5.57%	9.50%
1297	Troy	13	13	9.88%	1.34%	11.22%	0.40%	11.62%	9.73%	0.48%	10.21%	0.42%	10.63%	-0.99%	10.63%	13.50%
1298	Tulia	39	36	8.45%	2.24%	10.69%	0.24%	10.93%	8.16%	1.31%	9.47%	0.29%	9.76%	-1.17%	9.76%	NO MAX
1299	Turkey	4	4	2.19%	2.99%	5.18%	0.41%	5.59%	2.11%	3.01%	5.12%	0.80%	5.92%	0.33%	5.92%	NO MAX
1301	Tye	15	15	4.73%	2.17%	6.90%	0.17%	7.07%	3.82%	1.75%	5.57%	0.18%	5.75%	-1.32%	5.75%	NO MAX
1304	Tyler	665	684	9.23%	11.76%	20.99%	0.24%	21.23%	9.42%	11.63%	21.05%	0.33%	21.38%	0.15%	21.38%	NO MAX
1305	Universal City	132	131	10.24%	8.33%	18.57%	0.18%	18.75%	9.86%	8.52%	18.38%	0.17%	18.55%	-0.20%	18.55%	NO MAX
1306	University Park	215	220	5.98%	3.47%	9.45%	0.00%	9.45%	5.75%	3.05%	8.80%	0.00%	8.80%	-0.65%	8.80%	NO MAX
1308	Uvalde	165	166	4.52%	1.44%	5.96%	0.18%	6.14%	4.40%	1.35%	5.75%	0.25%	6.00%	-0.14%	6.00%	9.50%
1312	Valley Mills	8	9	2.37%	-0.05%	2.32%	0.19%	2.51%	2.29%	-0.15%	2.14%	0.12%	2.26%	-0.25%	2.26%	NO MAX
1313	Valley View	5	5	1.87%	-0.04%	1.83%	0.14%	1.97%	2.00%	-0.09%	1.91%	0.13%	2.04%	0.07%	2.04%	NO MAX
1314	Van	20	20	7.47%	-0.29%	7.18%	0.25%	7.43%	7.51%	-0.23%	7.28%	0.36%	7.64%	0.21%	7.64%	12.50%
1316	Van Alstyne	40	46	7.74%	2.01%	9.75%	0.17%	9.92%	8.19%	1.77%	9.96%	0.18%	10.14%	0.22%	10.14%	12.50%
1318	Van Horn	24	27	4.66%	3.54%	8.20%	0.20%	8.40%	4.72%	3.24%	7.96%	0.22%	8.18%	-0.22%	8.18%	9.50%
1320	Vega	6	6	10.81%	12.48%	23.29%	0.18%	23.47%	10.82%	13.54%	24.36%	0.24%	24.60%	1.13%	24.03%	NO MAX
1324	Venus	23	22	10.25%	0.29%	10.54%	0.00%	10.54%	10.44%	0.18%	10.62%	0.00%	10.62%	0.08%	10.62%	13.50%
1326	Vernon	90	88	7.37%	4.92%	12.29%	0.32%	12.61%	7.44%	4.76%	12.20%	0.54%	12.74%	0.13%	12.74%	NO MAX
1328	Victoria	579	579	7.61%	8.69%	16.30%	0.19%	16.49%	7.66%	8.66%	16.32%	0.30%	16.62%	0.13%	16.62%	NO MAX
1329	Vidor	68	68	9.71%	4.51%	14.22%	0.24%	14.46%	9.09%	5.10%	14.19%	0.37%	14.56%	0.10%	14.56%	NO MAX
1500	Village Fire Department	48	48	3.66%	2.63%	6.29%	0.14%	6.43%	3.42%	1.43%	4.85%	0.14%	4.99%	-1.44%	4.99%	NO MAX
1327	Village of the Hills	1	1	6.42%	0.93%	7.35%	0.06%	7.41%	6.65%	1.34%	7.99%	0.05%	8.04%	0.63%	8.04%	NO MAX
1330	Waco	1,422	1,449	7.50%	6.83%	14.33%	0.00%	14.33%	7.70%	6.99%	14.69%	0.00%	14.69%	0.36%	14.69%	NO MAX
1332	Waelder	19	18	2.28%	0.47%	2.75%	0.25%	3.00%	2.27%	0.28%	2.55%	0.47%	3.02%	0.02%	3.02%	7.50%
1334	Wake Village	27	26	9.30%	3.54%	12.84%	0.23%	13.07%	9.49%	4.11%	13.60%	0.43%	14.03%	0.96%	14.03%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2019**

CITY NUMBER	CITY NAME	Contributing Members		2020 RATES WITHOUT MAXIMUM OR PHASE-IN					2021 RATES WITHOUT MAXIMUM OR PHASE-IN					GRAND TOTAL CHANGE	GRAND TOTAL WITH PHASE-IN	MAX RATE (RET ONLY)
		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
1336	Waller	34	35	4.11%	-0.15%	3.96%	0.34%	4.30%	4.18%	-0.16%	4.02%	0.36%	4.38%	0.08%	4.38%	9.50%
1337	Wallis	16	12	3.06%	-0.66%	2.40%	0.19%	2.59%	2.89%	-0.62%	2.27%	0.21%	2.48%	-0.11%	2.48%	8.50%
1338	Walnut Springs	2	2	1.54%	2.39%	3.93%	0.16%	4.09%	1.54%	2.33%	3.87%	0.22%	4.09%	0.00%	4.09%	NO MAX
1340	Waskom	16	13	3.23%	3.60%	6.83%	0.24%	7.07%	3.14%	3.46%	6.60%	0.29%	6.89%	-0.18%	6.89%	7.50%
1341	Watauga	162	155	10.15%	4.05%	14.20%	0.17%	14.37%	10.09%	4.78%	14.87%	0.18%	15.05%	0.68%	14.97%	NO MAX
1342	Waxahachie	275	293	9.87%	5.49%	15.36%	0.19%	15.55%	10.01%	5.58%	15.59%	0.20%	15.79%	0.24%	15.79%	NO MAX
1344	Weatherford	359	362	9.42%	3.95%	13.37%	0.17%	13.54%	9.71%	4.07%	13.78%	0.21%	13.99%	0.45%	13.99%	NO MAX
1345	Webster	162	159	12.10%	5.60%	17.70%	0.21%	17.91%	12.02%	5.37%	17.39%	0.23%	17.62%	-0.29%	17.62%	NO MAX
1346	Weimar	27	27	9.03%	7.86%	16.89%	0.25%	17.14%	9.15%	5.15%	14.30%	0.36%	14.66%	-2.48%	14.66%	NO MAX
1350	Wellington	13	14	4.81%	-0.54%	4.27%	0.51%	4.78%	4.85%	-1.62%	3.23%	0.44%	3.67%	-1.11%	3.67%	NO MAX
1352	Wells	6	7	3.54%	-0.58%	2.96%	0.00%	2.96%	3.82%	-0.60%	3.22%	0.00%	3.22%	0.26%	3.22%	7.50%
1354	Weslaco	228	240	5.30%	3.22%	8.52%	0.18%	8.70%	5.04%	3.06%	8.10%	0.26%	8.36%	-0.34%	8.36%	NO MAX
1356	West	20	22	5.14%	0.64%	5.78%	0.21%	5.99%	5.19%	0.98%	6.17%	0.28%	6.45%	0.46%	6.45%	11.50%
1358	West Columbia	34	34	5.18%	-1.99%	3.19%	0.00%	3.19%	5.42%	-1.21%	4.21%	0.00%	4.21%	1.02%	3.82%	11.50%
1359	West Lake Hills	23	25	11.61%	4.79%	16.40%	0.27%	16.67%	11.09%	5.31%	16.40%	0.49%	16.89%	0.22%	16.89%	NO MAX
1361	West Orange	24	23	10.00%	10.02%	20.02%	0.00%	20.02%	9.74%	8.69%	18.43%	0.00%	18.43%	-1.59%	18.43%	NO MAX
1365	West Tawakoni	18	14	5.20%	3.86%	9.06%	0.22%	9.28%	5.25%	3.04%	8.29%	0.36%	8.65%	-0.63%	8.65%	NO MAX
1364	West Univ. Place	126	114	8.65%	4.24%	12.89%	0.18%	13.07%	8.44%	4.39%	12.83%	0.23%	13.06%	-0.01%	13.06%	NO MAX
1363	Westlake	43	45	9.44%	2.33%	11.77%	0.19%	11.96%	9.07%	2.70%	11.77%	0.11%	11.88%	-0.08%	11.88%	NO MAX
1362	Westover Hills	24	24	5.89%	0.75%	6.64%	0.30%	6.94%	5.61%	0.56%	6.17%	0.50%	6.67%	-0.27%	6.67%	13.50%
1366	Westworth Village	45	43	10.51%	1.23%	11.74%	0.20%	11.94%	10.52%	1.56%	12.08%	0.20%	12.28%	0.34%	12.28%	13.50%
1368	Wharton	100	98	4.78%	0.92%	5.70%	0.23%	5.93%	4.66%	0.72%	5.38%	0.24%	5.62%	-0.31%	5.62%	9.50%
1370	Wheeler	7	7	7.08%	0.88%	7.96%	0.14%	8.10%	6.90%	2.15%	9.05%	0.21%	9.26%	1.16%	9.07%	NO MAX
1372	White Deer	5	6	3.75%	5.81%	9.56%	0.79%	10.35%	3.85%	6.61%	10.46%	0.99%	11.45%	1.10%	11.21%	NO MAX
1377	White Oak	43	44	11.76%	2.64%	14.40%	0.24%	14.64%	11.85%	2.24%	14.09%	0.29%	14.38%	-0.26%	14.38%	NO MAX
1378	White Settlement	114	119	9.69%	7.38%	17.07%	0.16%	17.23%	9.78%	7.29%	17.07%	0.20%	17.27%	0.04%	17.27%	NO MAX
1374	Whiteface	2	3	5.68%	-4.05%	1.63%	0.47%	2.10%	6.02%	-2.78%	3.24%	1.09%	4.33%	2.23%	3.51%	NO MAX
1375	Whitehouse	44	41	6.67%	1.99%	8.66%	0.17%	8.83%	6.76%	1.73%	8.49%	0.23%	8.72%	-0.11%	8.72%	11.50%
1376	Whitesboro	48	47	4.97%	1.41%	6.38%	0.25%	6.63%	5.16%	1.16%	6.32%	0.30%	6.62%	-0.01%	6.62%	9.50%
1380	Whitewright	20	18	3.74%	-0.61%	3.13%	0.14%	3.27%	3.57%	-0.71%	2.86%	0.28%	3.14%	-0.13%	3.14%	9.50%
1382	Whitney	20	20	3.35%	0.72%	4.07%	0.19%	4.26%	3.41%	0.41%	3.82%	0.21%	4.03%	-0.23%	4.03%	7.50%
1384	Wichita Falls	968	975	6.92%	9.40%	16.32%	0.00%	16.32%	6.91%	9.66%	16.57%	0.00%	16.57%	0.25%	16.57%	NO MAX
1386	Willis	41	40	7.99%	1.47%	9.46%	0.18%	9.64%	8.33%	1.41%	9.74%	0.23%	9.97%	0.33%	9.97%	13.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
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		LAST YEAR	THIS YEAR	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL	RETIREMENT PLAN			SUPPL DEATH	GRAND TOTAL			
				NORMAL COST	PRIOR SERVICE	TOTAL			NORMAL COST	PRIOR SERVICE	TOTAL					
1387	Willow Park	37	40	6.63%	0.78%	7.41%	0.13%	7.54%	6.28%	0.81%	7.09%	0.11%	7.20%	-0.34%	7.20%	NO MAX
1388	Wills Point	29	34	6.29%	5.72%	12.01%	0.21%	12.22%	5.87%	5.59%	11.46%	0.36%	11.82%	-0.40%	11.82%	NO MAX
1390	Wilmer	50	56	4.56%	-0.08%	4.48%	0.11%	4.59%	4.54%	-0.05%	4.49%	0.11%	4.60%	0.01%	4.60%	12.50%
1392	Wimberley	10	9	4.35%	2.21%	6.56%	0.17%	6.73%	4.38%	1.76%	6.14%	0.24%	6.38%	-0.35%	6.38%	NO MAX
1393	Windcrest	65	69	6.55%	0.72%	7.27%	0.21%	7.48%	6.56%	0.41%	6.97%	0.22%	7.19%	-0.29%	7.19%	10.50%
1395	Winfield	2	2	3.15%	0.66%	3.81%	0.36%	4.17%	2.90%	-0.23%	2.67%	0.21%	2.88%	-1.29%	2.88%	NO MAX
1396	Wink	10	11	7.58%	0.27%	7.85%	0.28%	8.13%	6.50%	0.10%	6.60%	0.23%	6.83%	-1.30%	6.83%	NO MAX
1398	Winnsboro	40	40	6.73%	2.37%	9.10%	0.25%	9.35%	6.58%	2.09%	8.67%	0.24%	8.91%	-0.44%	8.91%	11.50%
1399	Winona	5	4	10.60%	-8.66%	1.94%	0.21%	2.15%	12.00%	-6.32%	5.68%	0.48%	6.16%	4.01%	2.92%	13.50%
1400	Winters	15	16	7.87%	2.54%	10.41%	0.34%	10.75%	8.01%	3.07%	11.08%	0.66%	11.74%	0.99%	11.74%	11.50%
1403	Wolfforth	28	37	6.94%	4.55%	11.49%	0.21%	11.70%	6.79%	4.24%	11.03%	0.14%	11.17%	-0.53%	11.17%	NO MAX
1409	Woodcreek	3	3	7.69%	0.34%	8.03%	0.71%	8.74%	7.01%	0.25%	7.26%	0.36%	7.62%	-1.12%	7.62%	NO MAX
1404	Woodsboro	12	10	3.55%	-2.81%	0.74%	0.17%	0.91%	3.53%	-1.87%	1.66%	0.16%	1.82%	0.91%	1.40%	7.50%
1406	Woodville	33	31	9.48%	7.91%	17.39%	0.26%	17.65%	9.99%	6.93%	16.92%	0.29%	17.21%	-0.44%	17.21%	NO MAX
1407	Woodway	85	83	9.20%	7.57%	16.77%	0.16%	16.93%	9.66%	7.61%	17.27%	0.18%	17.45%	0.52%	17.45%	NO MAX
1408	Wortham	8	8	6.20%	-0.84%	5.36%	0.07%	5.43%	6.70%	-0.65%	6.05%	0.09%	6.14%	0.71%	5.95%	12.50%
1410	Wylie	324	334	10.55%	4.20%	14.75%	0.11%	14.86%	10.92%	4.48%	15.40%	0.10%	15.50%	0.64%	15.40%	NO MAX
1412	Yoakum	81	81	8.07%	8.07%	16.14%	0.28%	16.42%	7.71%	8.39%	16.10%	0.33%	16.43%	0.01%	16.43%	NO MAX
1414	Yorktown	9	11	1.17%	-0.32%	0.85%	0.60%	1.45%	1.22%	-0.04%	1.18%	0.65%	1.83%	0.38%	1.83%	7.50%
1415	Zavalla	9	9	3.77%	-3.68%	0.09%	0.00%	0.09%	3.77%	-1.91%	1.86%	0.00%	1.86%	1.77%	0.93%	9.50%

## **SECTION 3**

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### **RECONCILIATION OF FULL CONTRIBUTION RATES FROM PRIOR VALUATION REPORT**

## Section 3

### Texas Municipal Retirement System

#### Changes in Full Retirement Rate from Prior Actuarial Valuation Report

The following Schedule provides detail of the reconciliation in the Full Rate for each participating employer from the prior valuation. Actuarial valuations are based on long term assumptions and actual results in a specific year can and almost certainly will differ, as actual experience deviates from the assumptions. The following is a brief explanation of the most common sources for deviation.

**Benefit Changes** - Shows the increase or decrease in the contribution rate associated with any modifications made to the member city's TMRS plan provisions.

**Assumption & Method Changes** - Shows the increase or decrease in the contribution rate associated with actuarial assumption and method changes made, if any, as of the current valuation date and approved by the Board of Trustees.

**Return on Actuarial Value of Assets** - Shows the change in the contribution rate associated with the return on the Actuarial Value of Assets (AVA) being different than the assumed 6.75%. For the year ending December 31, 2019 the System-wide return on an AVA basis was 6.94%, but the returns will vary by City.

**Contribution Lag/Phase In & Fully Amortized Prior Bases** - Shows the total increase or decrease in the contribution rate associated with the phase in of city contribution rates and any additional contributions above the full rate that the city made to its plan. The effect of the "Contribution Lag" is included here, as well, and refers to the time delay between the actuarial valuation date and the date the contribution rate becomes effective. For TMRS member cities, the "Lag" is one year (i.e. the Actuarial Valuation as of December 31, 2019 set the rate effective for Calendar Year 2021.) The Phase In amount reflects contributing a portion of the full rate increase due to changes in the December 31, 2013 and December 31, 2015 actuarial valuations phased in at a rate of 0.50% per year. In addition, it shows the impact of the bases which became fully amortized as of this valuation, since payments for those bases are no longer part of the calculation of the prior service rate.

**Payroll Growth** - Shows the increase or decrease in the contribution rate associated with larger or lower than expected growth in the member city's overall payroll. The amortization payments are calculated assuming payroll grows at a city's assumed rate each year. For most cities the assumed payroll growth is 3.0% but will decrease to 2.75% going forward. Overall payroll growth in excess of the assumed rate will typically cause a decrease in the amortization rate.

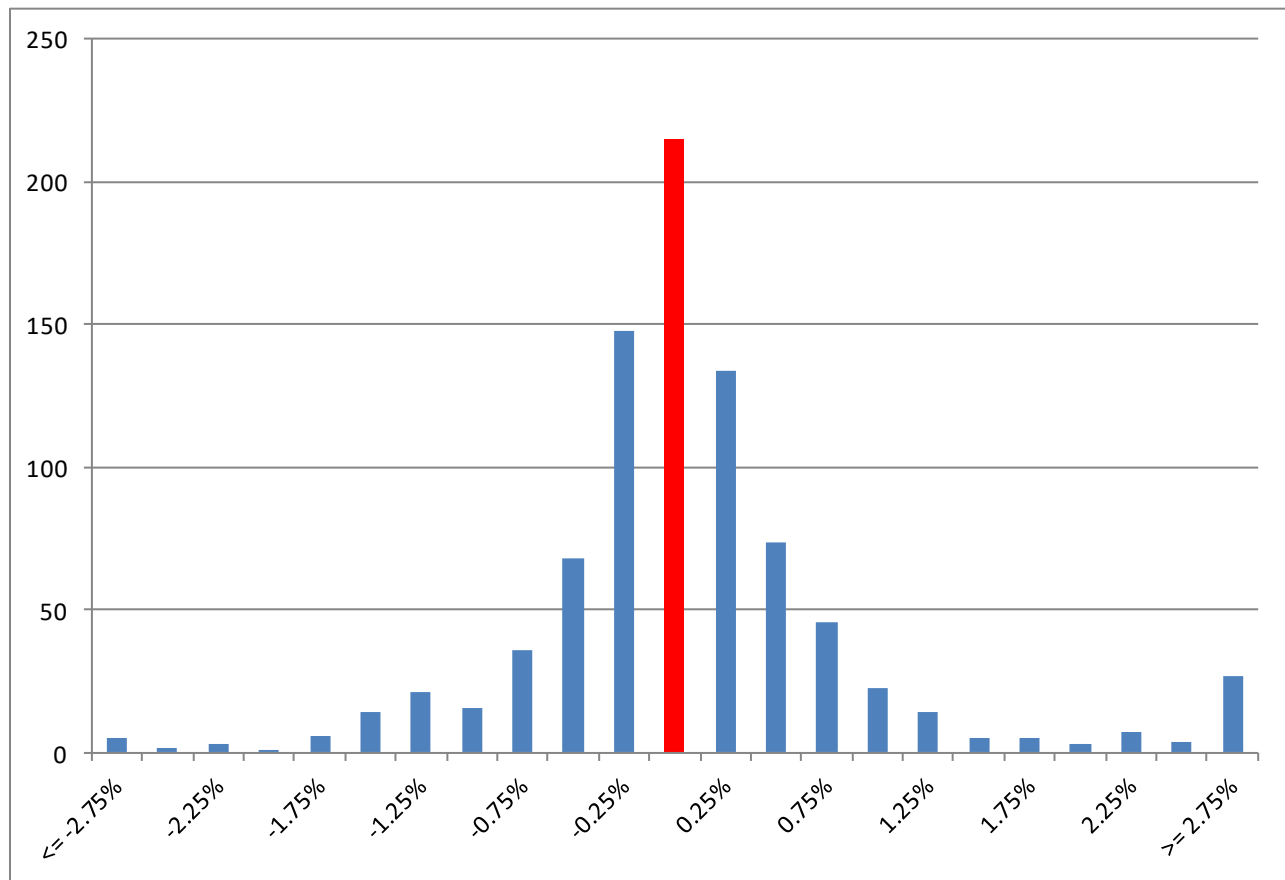
**Normal Cost** - Shows the increase or decrease in the contribution rate associated with changes in the average Normal Cost Rate for the individual city's population. The normal cost rate for an employee is the contribution rate which, if applied to a member's compensation throughout their period of anticipated covered service with the municipality, would be sufficient to meet all benefits payable on their behalf. The normal cost rate for the employer is the pay-weighted average of the individual normal cost rates and will generally increase (decrease) as the average entry age of the group increases (decreases).

**Liability Growth** - Shows the increase or decrease in the contribution rate associated with larger or lower than expected growth in the member city's overall plan liabilities than assumed. The most significant sources for variance will be individual salary increases compared to the assumption and turnover.



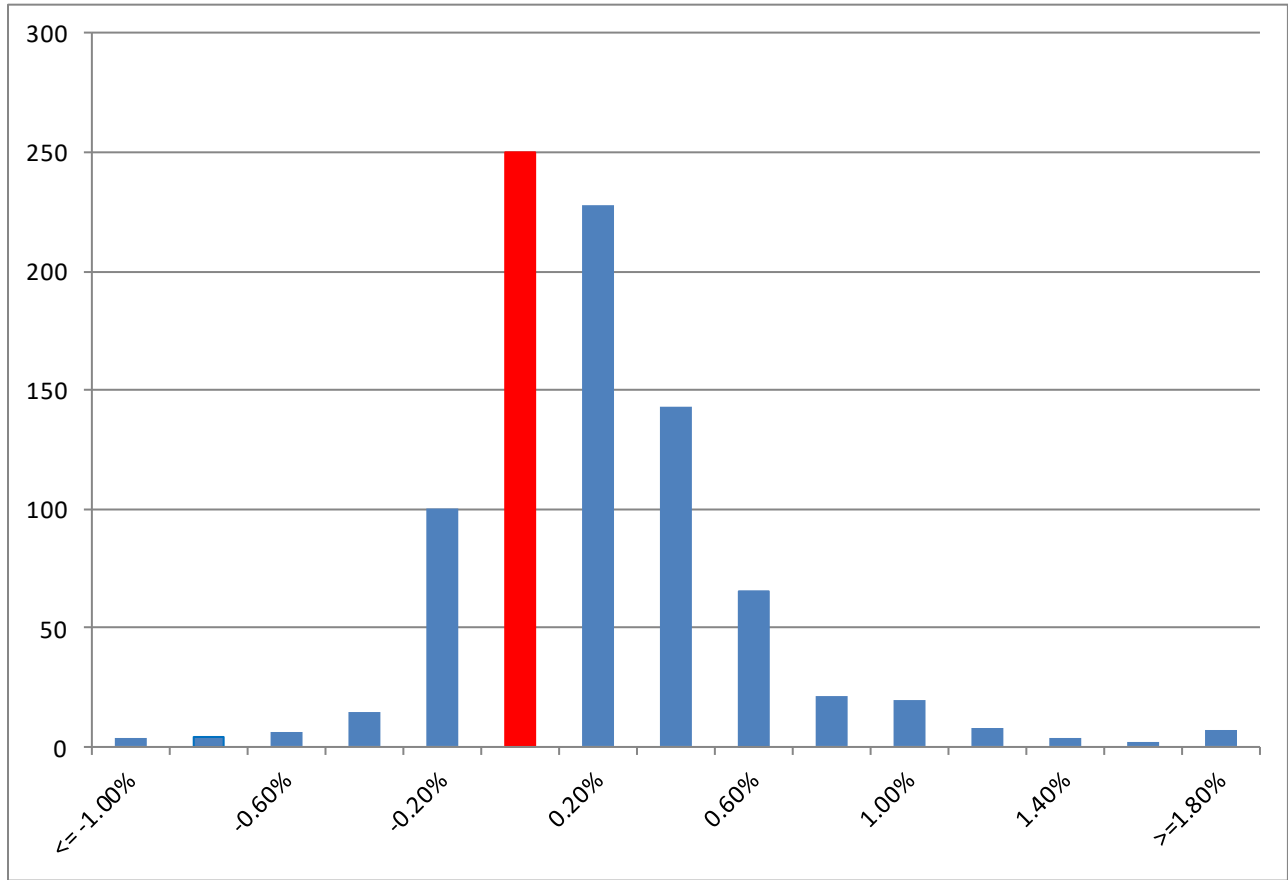
## Distribution of Changes

### Total Changes in Full Retirement Rate



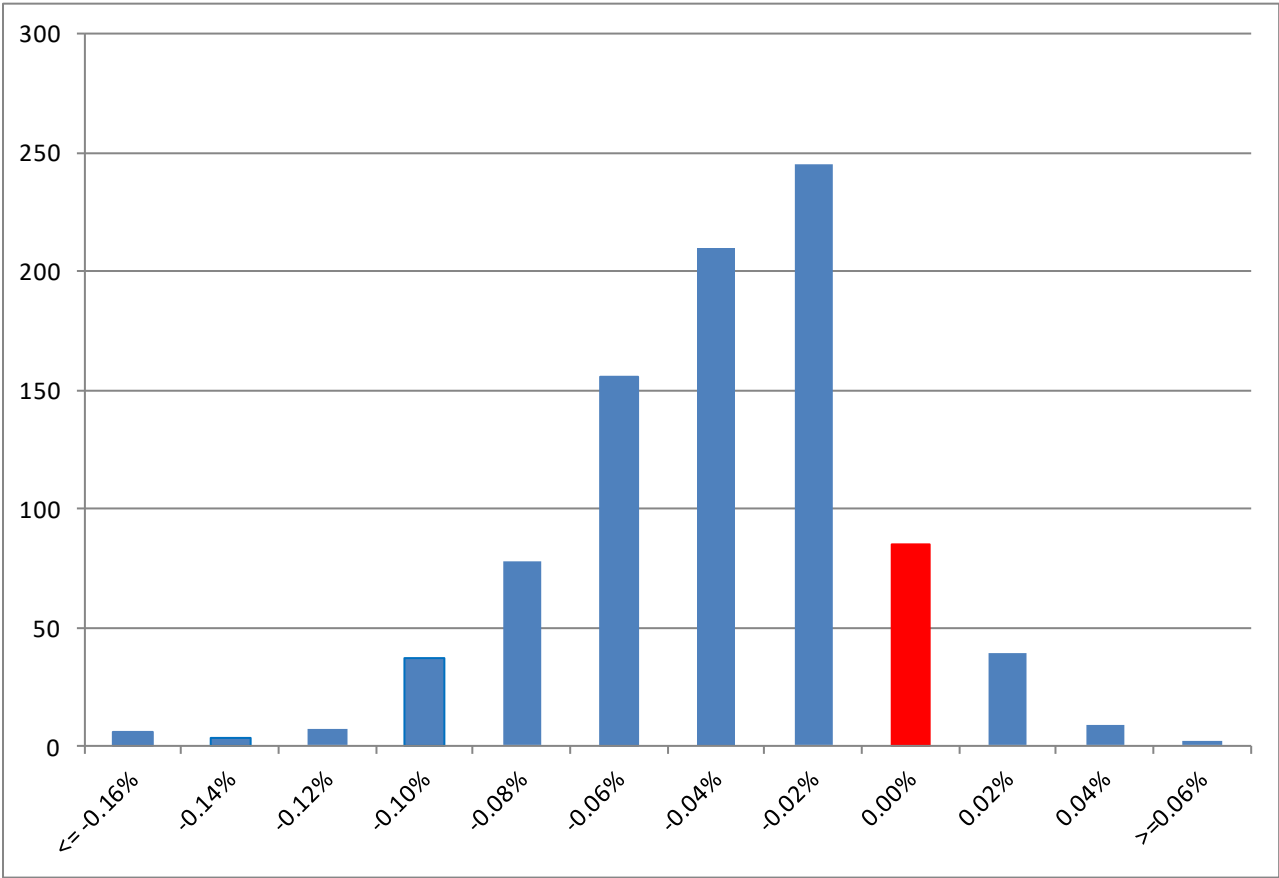
# Distribution of Changes

## Change Due to Assumption Changes



# Distribution of Changes

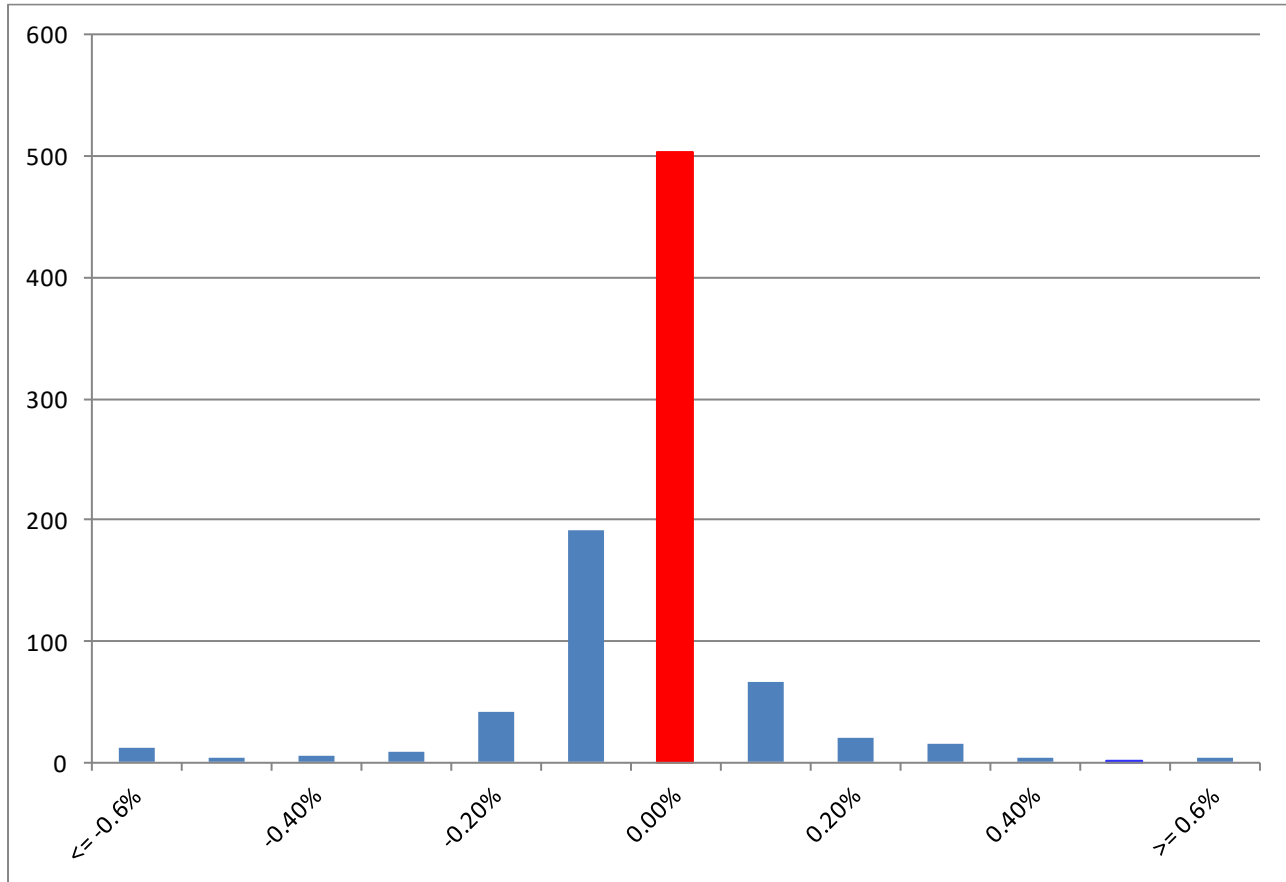
## Change Due to Return on Actuarial Value of Assets





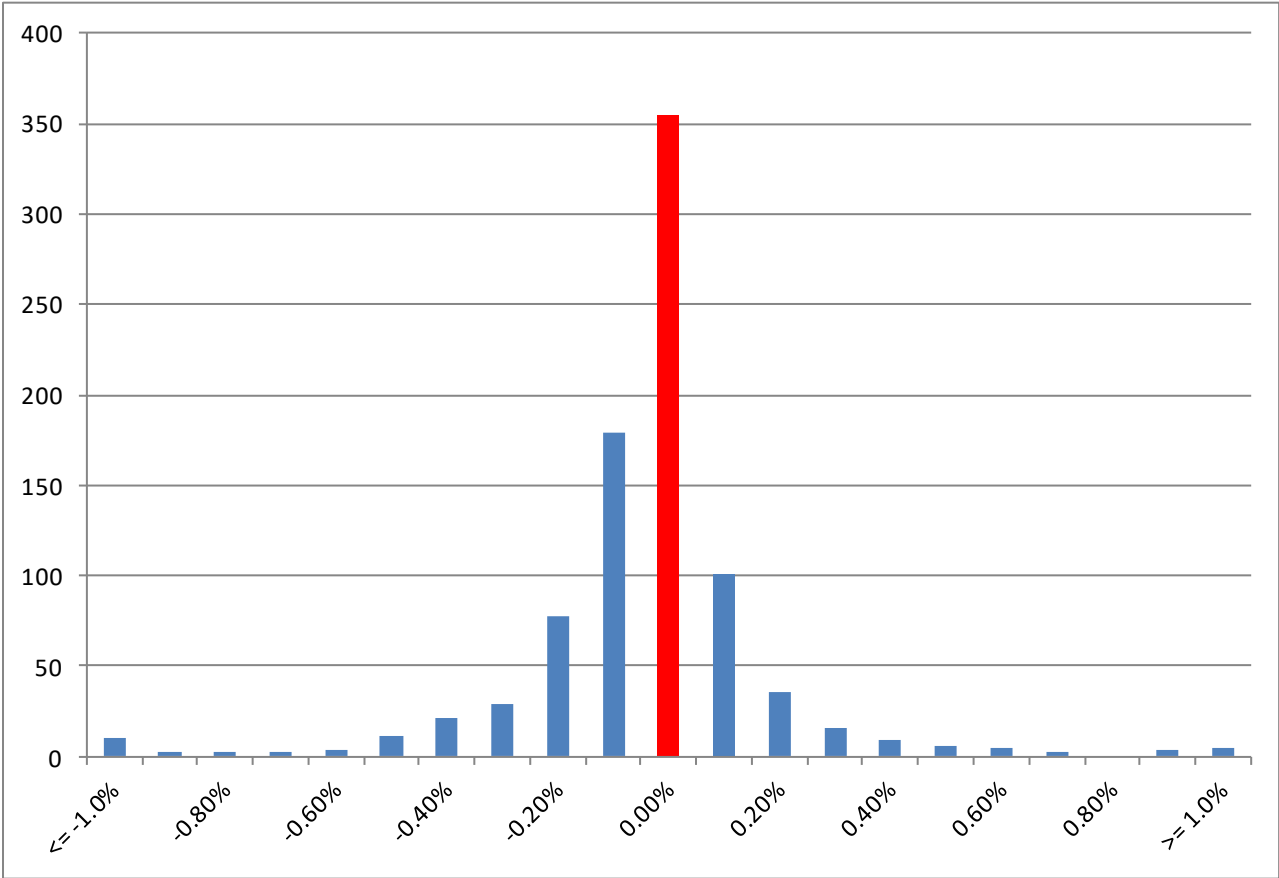
## Distribution of Changes

### Change Due to Contributions Different than Actuarial Rate and/or Fully Amortized Prior Bases



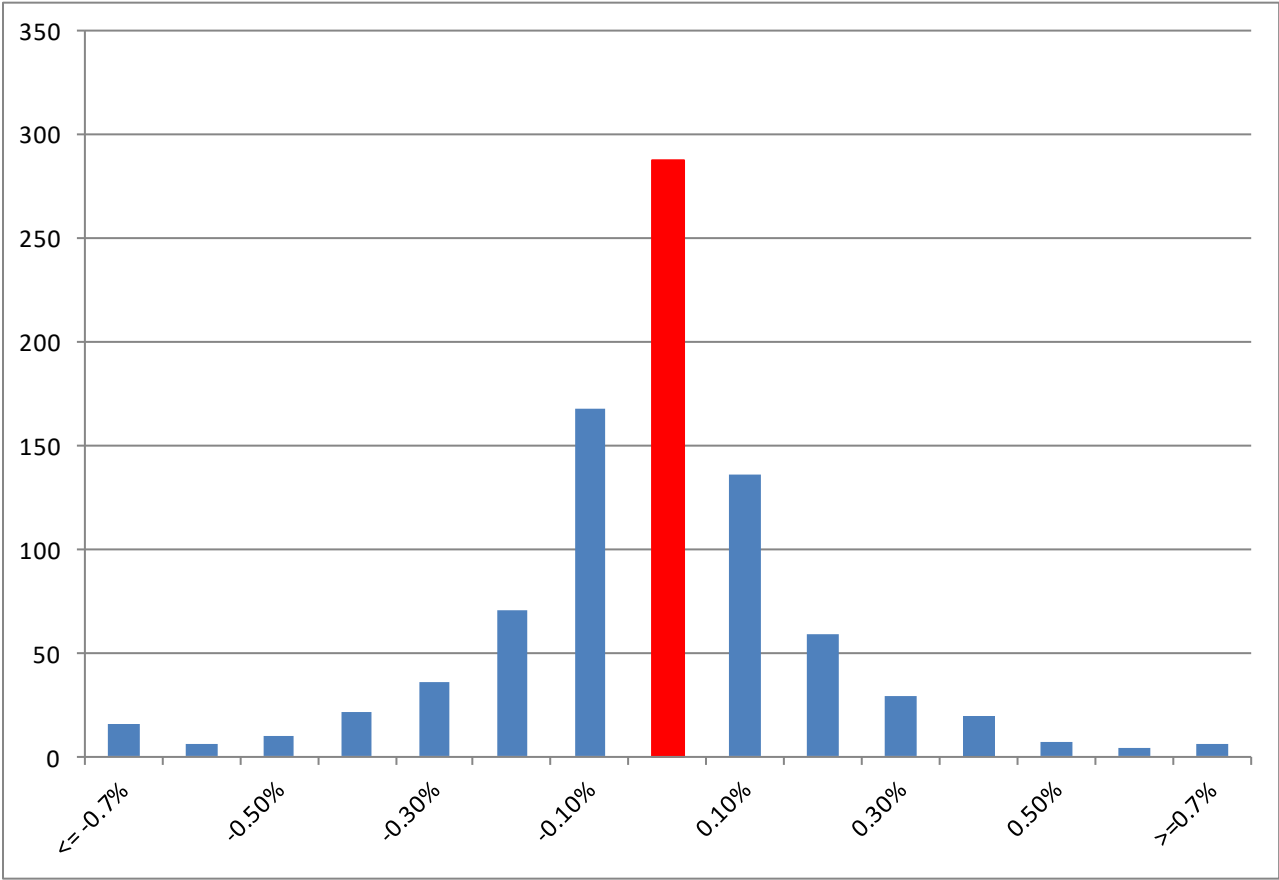
# Distribution of Changes

## Change Due to Payroll Growing Faster or Slower than Expected

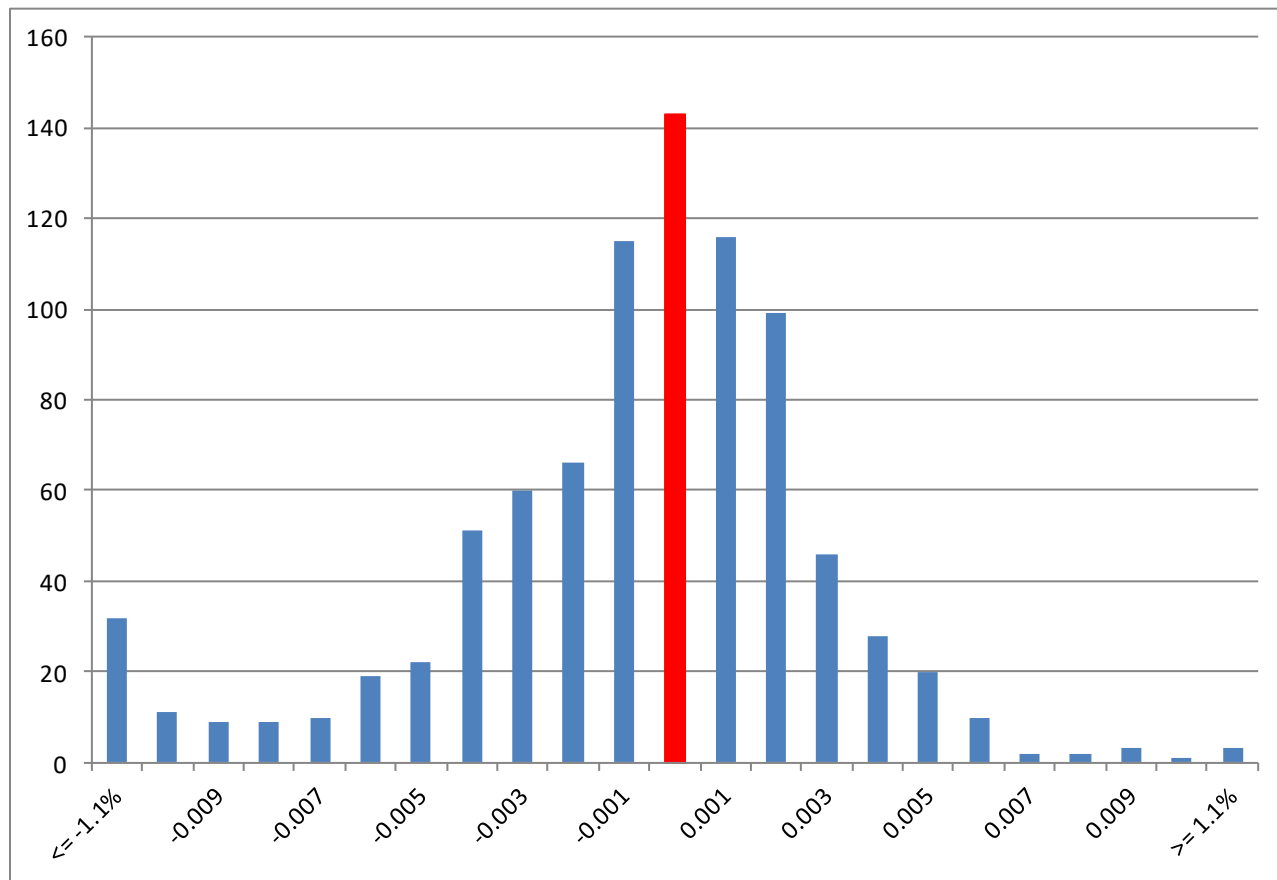


# Distribution of Changes

## Change Normal Cost Rate



## Distribution of Changes Change Due to Liability Experience



**Section 3**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**Changes in Full Retirement Rate from Prior Valuation Report**

CITY NUMBER	CITY NAME	2020 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2021 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
4	Abernathy	3.85%	0.00%	-0.03%	-0.02%	-0.02%	0.01%	0.00%	-0.09%	-0.15%	3.70%
6	Abilene	11.05%	0.00%	0.32%	-0.07%	0.00%	-0.01%	-0.14%	-0.18%	-0.08%	10.97%
7	Addison	11.06%	0.00%	0.17%	-0.08%	0.01%	-0.10%	0.12%	0.20%	0.32%	11.38%
8	Agua Dulce	7.77%	0.00%	-0.18%	0.03%	-0.15%	-0.17%	0.13%	0.21%	-0.13%	7.64%
10	Alamo	6.30%	0.00%	0.06%	-0.02%	-0.03%	-0.01%	-0.07%	-0.03%	-0.10%	6.20%
12	Alamo Heights	16.91%	0.00%	0.15%	-0.03%	-0.02%	-0.13%	-0.12%	-0.29%	-0.44%	16.47%
14	Alba	1.96%	10.64%	-0.13%	-0.02%	0.93%	0.12%	0.00%	0.26%	11.80%	13.76%
16	Albany	5.48%	0.00%	0.00%	-0.01%	0.03%	0.01%	0.00%	-0.01%	0.02%	5.50%
17	Aledo	7.50%	5.60%	0.19%	-0.01%	0.38%	-0.12%	0.21%	0.04%	6.29%	13.79%
18	Alice	4.80%	0.00%	0.24%	-0.06%	0.00%	-0.02%	-0.01%	-0.37%	-0.22%	4.58%
19	Allen	14.00%	0.00%	0.43%	-0.03%	-0.12%	-0.09%	-0.04%	0.23%	0.38%	14.38%
20	Alpine	0.88%	0.00%	0.87%	-0.03%	-0.01%	0.15%	0.14%	0.01%	1.13%	2.01%
22	Alto	10.75%	0.00%	0.29%	-0.02%	-0.04%	-0.05%	0.55%	0.30%	1.03%	11.78%
23	Alton	13.34%	0.00%	0.16%	-0.01%	0.00%	-0.06%	-2.32%	-0.01%	-2.24%	11.10%
24	Alvarado	5.36%	0.00%	-0.15%	-0.01%	-0.02%	-0.02%	0.01%	0.17%	-0.02%	5.34%
26	Alvin	17.00%	0.00%	0.16%	-0.06%	0.01%	0.12%	0.05%	0.05%	0.33%	17.33%
28	Alvord	5.78%	0.00%	-0.12%	-0.01%	0.05%	0.01%	0.38%	-0.47%	-0.16%	5.62%
30	Amarillo	12.21%	0.00%	0.47%	-0.07%	0.02%	0.03%	-0.01%	-0.33%	0.11%	12.32%
32	Amherst	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
34	Anahuac	8.66%	0.00%	-0.23%	-0.04%	-0.28%	-0.23%	0.24%	0.47%	-0.07%	8.59%
36	Andrews	15.98%	0.00%	0.59%	-0.07%	-0.02%	-0.16%	-0.24%	0.10%	0.20%	16.18%
38	Angleton	12.21%	0.00%	0.10%	-0.04%	-0.04%	-0.17%	-0.08%	0.07%	-0.16%	12.05%
40	Anna	14.09%	0.00%	0.22%	0.00%	-0.16%	-0.18%	-0.42%	0.54%	0.00%	14.09%
41	Annetta	8.82%	0.00%	0.25%	0.01%	-0.07%	0.07%	0.01%	0.36%	0.63%	9.45%
44	Anson	0.57%	0.00%	0.15%	-0.02%	-0.07%	0.03%	0.10%	-0.05%	0.14%	0.71%
45	Anthony	3.19%	0.00%	-0.04%	-0.01%	0.01%	-0.11%	-0.12%	-0.04%	-0.31%	2.88%
48	Aransas Pass	9.79%	0.00%	0.25%	-0.03%	0.00%	0.00%	0.16%	-0.30%	0.08%	9.87%
50	Archer City	4.25%	0.00%	-0.26%	-0.01%	0.02%	0.01%	0.10%	-0.04%	-0.18%	4.07%
49	Arcola	4.05%	0.00%	-0.06%	0.01%	-0.09%	-0.20%	0.16%	0.06%	-0.12%	3.93%
51	Argyle	13.42%	0.00%	0.20%	-0.02%	-0.16%	-0.12%	0.22%	-0.66%	-0.54%	12.88%
52	Arlington	16.13%	0.00%	0.64%	-0.07%	0.01%	-0.07%	-0.06%	0.24%	0.69%	16.82%
54	Arp	1.14%	0.00%	0.55%	-0.04%	-0.03%	-0.03%	0.11%	0.06%	0.62%	1.76%
60	Aspermont	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
62	Athens	15.46%	0.00%	0.30%	-0.05%	0.04%	0.51%	0.13%	0.06%	0.99%	16.45%
64	Atlanta	3.39%	3.68%	0.05%	-0.03%	0.18%	0.01%	0.02%	-0.33%	3.58%	6.97%
66	Aubrey	5.91%	0.00%	-0.24%	-0.01%	-0.12%	-0.02%	0.15%	-0.03%	-0.27%	5.64%
74	Avinger	2.02%	0.00%	0.21%	-0.01%	0.01%	-0.03%	0.00%	-0.07%	0.11%	2.13%
75	Azle	12.50%	0.00%	0.16%	-0.03%	-0.07%	-0.31%	-0.31%	0.24%	-0.32%	12.18%
77	Baird	1.08%	0.00%	0.33%	-0.02%	0.02%	-0.03%	0.09%	-0.34%	0.05%	1.13%
78	Balch Springs	13.60%	0.00%	0.28%	-0.02%	-0.04%	-0.13%	-0.19%	-0.08%	-0.18%	13.42%
79	Balcones Heights	7.92%	0.00%	0.66%	-0.07%	-0.02%	-0.04%	-0.02%	-0.60%	-0.09%	7.83%
80	Ballinger	3.56%	0.00%	0.00%	-0.03%	-0.02%	-0.01%	-0.02%	-0.30%	-0.38%	3.18%
82	Balmorhea	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
83	Bandera	10.82%	0.00%	0.12%	-0.03%	-0.07%	0.03%	0.46%	-0.02%	0.49%	11.31%
84	Bangs	12.33%	0.00%	-0.03%	-0.05%	0.07%	0.06%	0.26%	-0.68%	-0.37%	11.96%
90	Bartlett	8.22%	0.00%	0.94%	-0.02%	0.04%	-0.10%	-1.08%	-1.02%	-1.24%	6.98%
91	Bartonville	15.55%	0.00%	0.14%	-0.03%	0.10%	-0.06%	0.06%	0.26%	0.47%	16.02%
92	Bastrop	11.29%	0.00%	0.26%	-0.02%	-0.08%	-0.19%	0.03%	0.18%	0.18%	11.47%
94	Bay City	9.62%	0.00%	0.38%	-0.05%	0.04%	0.15%	-0.12%	-0.26%	0.14%	9.76%
93	Bayou Vista	2.66%	0.00%	0.37%	-0.01%	-0.06%	-0.10%	0.04%	-0.24%	0.00%	2.66%
96	Baytown	17.33%	0.00%	0.50%	-0.05%	-0.06%	-0.15%	-0.01%	0.11%	0.34%	17.67%
98	Beaumont	19.41%	0.00%	0.60%	-0.09%	0.00%	-0.08%	-0.05%	0.05%	0.43%	19.84%
100	Bedford	8.92%	0.00%	-0.03%	-0.01%	0.00%	0.01%	-0.02%	-0.02%	-0.07%	8.85%
101	Bee Cave	8.97%	0.00%	0.01%	-0.01%	-0.06%	-0.09%	-0.15%	0.47%	0.17%	9.14%

**Section 3**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**Changes in Full Retirement Rate from Prior Valuation Report**

CITY NUMBER	CITY NAME	2020 Rates	Assumption &		Contribution Lag/Phase In &					Total Change	2021 Rates
			Benefit Changes	Method Changes	Return on AVA	Fully Amortized Prior Bases	Payroll Growth	Normal Cost	Liability Growth		
102	Beeville	0.43%	0.00%	1.03%	-0.04%	-0.02%	-0.04%	-0.02%	-0.08%	0.83%	1.26%
106	Bellaire	20.20%	0.00%	0.17%	-0.07%	-0.06%	-0.28%	0.00%	0.18%	-0.06%	20.14%
109	Bellmead	8.63%	0.00%	0.57%	-0.04%	0.04%	-0.06%	0.06%	-1.27%	-0.70%	7.93%
110	Bells	0.00%	2.88%	0.57%	-0.01%	0.17%	0.04%	-0.15%	-0.07%	3.43%	3.43%
112	Bellville	15.78%	0.00%	0.43%	-0.04%	0.00%	0.06%	0.22%	0.17%	0.84%	16.62%
114	Belton	8.11%	0.00%	-0.02%	-0.03%	0.00%	0.04%	0.00%	0.02%	0.01%	8.12%
118	Benbrook	16.44%	0.00%	0.24%	-0.06%	0.00%	-0.15%	0.00%	0.11%	0.14%	16.58%
121	Berryville	3.39%	0.00%	0.15%	-0.05%	-0.03%	0.22%	0.44%	-0.35%	0.38%	3.77%
123	Bertram	1.70%	3.20%	-0.22%	-0.02%	0.21%	-0.02%	-0.22%	-0.35%	2.58%	4.28%
124	Big Lake	17.51%	0.00%	0.74%	-0.03%	-0.02%	0.23%	0.31%	-0.24%	0.99%	18.50%
126	Big Sandy	2.49%	0.00%	0.19%	-0.05%	0.03%	0.16%	0.04%	0.17%	0.54%	3.03%
128	Big Spring	17.44%	0.00%	0.64%	-0.07%	0.00%	-0.03%	-0.26%	0.26%	0.54%	17.98%
132	Bishop	3.52%	0.00%	0.05%	-0.04%	0.00%	0.00%	0.05%	-0.56%	-0.50%	3.02%
134	Blanco	6.55%	0.00%	-0.28%	0.00%	-0.07%	-0.04%	-0.06%	0.17%	-0.28%	6.27%
140	Blooming Grove	10.78%	0.00%	0.23%	-0.05%	0.23%	0.53%	0.19%	-0.14%	0.99%	11.77%
142	Blossom	4.11%	0.00%	0.41%	-0.05%	-0.22%	0.02%	0.00%	0.43%	0.59%	4.70%
143	Blue Mound	4.68%	0.00%	0.03%	0.00%	-0.02%	0.00%	-0.10%	-0.11%	-0.20%	4.48%
144	Blue Ridge	1.79%	0.00%	0.46%	0.00%	-0.02%	0.16%	-0.14%	-0.24%	0.22%	2.01%
148	Boerne	18.35%	0.00%	0.51%	-0.02%	-0.06%	-0.19%	-0.06%	0.22%	0.40%	18.75%
150	Bogata	0.14%	0.00%	0.42%	-0.01%	0.00%	0.00%	-0.01%	0.08%	0.48%	0.62%
152	Bonham	5.15%	3.47%	0.10%	-0.04%	0.19%	-0.02%	0.02%	0.44%	4.16%	9.31%
154	Booker	5.64%	0.00%	-0.01%	-0.03%	-0.08%	0.00%	0.03%	0.20%	0.11%	5.75%
156	Borger	13.87%	0.00%	-0.14%	-0.05%	-0.04%	0.02%	-0.08%	-0.43%	-0.72%	13.15%
158	Bovina	0.23%	0.00%	0.25%	-0.02%	0.01%	-0.02%	0.06%	0.20%	0.48%	0.71%
160	Bowie	9.57%	0.00%	0.38%	-0.04%	-0.09%	-0.12%	-0.03%	-0.19%	-0.09%	9.48%
162	Boyd	4.10%	0.00%	-0.08%	-0.01%	-0.04%	0.02%	-0.36%	0.07%	-0.40%	3.70%
166	Brady	9.83%	0.00%	0.04%	-0.02%	-0.03%	-0.02%	0.02%	-0.19%	-0.20%	9.63%
170	Brazoria	5.64%	0.00%	0.43%	-0.05%	-0.04%	0.00%	0.09%	-0.07%	0.36%	6.00%
172	Breckenridge	6.93%	0.00%	0.23%	-0.04%	-0.11%	0.01%	0.03%	-0.09%	0.03%	6.96%
174	Bremond	15.97%	0.00%	-0.89%	-0.05%	-0.12%	-0.58%	0.91%	-0.69%	-1.42%	14.55%
176	Brenham	9.67%	0.27%	0.12%	-0.05%	0.01%	0.07%	-0.05%	-0.03%	0.34%	10.01%
177	Bridge City	15.13%	0.00%	0.14%	-0.06%	0.01%	-0.03%	0.50%	-0.93%	-0.37%	14.76%
178	Bridgeport	13.67%	0.00%	0.62%	-0.04%	-0.03%	-0.05%	-0.27%	-0.26%	-0.03%	13.64%
180	Bronte	13.09%	0.00%	-0.07%	-0.06%	-0.08%	-0.13%	0.08%	-0.10%	-0.36%	12.73%
182	Brookshire	8.68%	0.00%	0.31%	-0.03%	0.00%	-0.03%	-0.03%	-0.05%	0.17%	8.85%
184	Brownfield	3.92%	0.00%	1.00%	-0.06%	-0.64%	-0.06%	-0.02%	-0.10%	0.12%	4.04%
186	Brownsboro	10.41%	0.00%	-0.07%	0.00%	-0.12%	0.22%	0.02%	0.36%	0.41%	10.82%
10188	Brownsville	16.86%	0.00%	0.25%	-0.09%	0.03%	0.12%	0.04%	-0.21%	0.14%	17.00%
20188	Brownsville PUB	17.21%	0.00%	0.28%	-0.06%	0.03%	0.19%	-0.03%	-0.05%	0.36%	17.57%
10190	Brownwood	13.37%	0.00%	0.07%	-0.05%	0.02%	0.00%	-0.02%	-0.28%	-0.26%	13.11%
30190	Brownwood Health Dept.	10.64%	0.00%	0.64%	-0.05%	0.09%	0.08%	-0.15%	0.42%	1.03%	11.67%
20190	Brownwood Public Library	4.44%	0.00%	0.25%	-0.02%	-0.01%	0.00%	-0.04%	0.03%	0.21%	4.65%
195	Bruceville-Eddy	5.72%	0.00%	0.40%	-0.03%	0.05%	-0.10%	-0.33%	-0.61%	-0.62%	5.10%
192	Bryan	15.19%	0.00%	0.41%	-0.06%	-0.03%	-0.12%	-0.03%	0.02%	0.19%	15.38%
193	Bryson	0.00%	0.00%	0.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.06%	0.06%
194	Buda	13.76%	0.00%	-0.05%	0.00%	-0.07%	-0.14%	0.26%	0.00%	0.00%	13.76%
196	Buffalo	4.82%	0.00%	-0.13%	-0.03%	-0.05%	0.07%	-0.07%	-0.38%	-0.59%	4.23%
198	Bullard	7.48%	2.45%	0.07%	0.00%	0.15%	0.15%	0.08%	0.14%	3.04%	10.52%
203	Bulverde	10.00%	0.00%	0.18%	-0.01%	0.06%	-0.02%	-0.22%	-0.73%	-0.74%	9.26%
199	Bunker Hill Village	10.18%	0.00%	0.34%	-0.09%	-0.21%	-0.04%	-0.13%	0.67%	0.54%	10.72%
200	Burkburnett	10.28%	0.00%	0.04%	-0.06%	0.03%	0.04%	0.32%	-0.45%	-0.08%	10.20%
202	Burleson	15.47%	0.00%	0.54%	-0.03%	-0.06%	-0.22%	0.10%	0.23%	0.56%	16.03%
204	Burnet	13.00%	0.00%	0.13%	-0.04%	-0.05%	-0.12%	0.08%	-0.16%	-0.16%	12.84%
207	Cactus	5.18%	0.00%	-0.21%	0.00%	-0.02%	-0.01%	-0.04%	0.13%	-0.15%	5.03%

**Section 3**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**Changes in Full Retirement Rate from Prior Valuation Report**

CITY NUMBER	CITY NAME	2020 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2021 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
208	Caddo Mills	5.79%	0.00%	-0.07%	0.00%	-0.03%	0.00%	-0.15%	0.00%	-0.25%	5.54%
210	Caldwell	8.13%	0.00%	-0.21%	-0.06%	-0.04%	0.08%	0.16%	-0.84%	-0.91%	7.22%
212	Calvert	1.16%	0.00%	0.22%	-0.01%	0.01%	0.01%	0.18%	-0.17%	0.24%	1.40%
214	Cameron	10.29%	0.00%	0.05%	-0.03%	-0.02%	-0.23%	-0.04%	0.24%	-0.03%	10.26%
216	Campbell	41.75%	0.00%	-0.61%	0.15%	-0.02%	0.10%	-0.01%	-0.27%	-0.66%	41.09%
220	Canadian	17.10%	0.00%	0.70%	-0.04%	0.04%	0.02%	-0.08%	0.26%	0.90%	18.00%
221	Caney City	1.43%	0.00%	0.17%	0.00%	-0.03%	0.00%	1.15%	-0.10%	1.19%	2.62%
222	Canton	11.61%	0.00%	0.16%	-0.03%	-0.12%	-0.01%	0.17%	0.00%	0.17%	11.78%
224	Canyon	14.12%	0.00%	-0.03%	-0.06%	-0.08%	-0.05%	-0.10%	0.05%	-0.27%	13.85%
227	Carmine	1.95%	0.00%	0.21%	0.00%	-0.06%	0.00%	-0.01%	-1.88%	-1.74%	0.21%
228	Carrizo Springs	5.33%	0.00%	-0.06%	-0.05%	-0.03%	-0.04%	0.03%	-0.15%	-0.30%	5.03%
230	Carrollton	12.12%	0.00%	0.16%	-0.18%	-0.08%	-0.01%	-0.03%	-0.14%	-0.28%	11.84%
232	Carthage	17.97%	0.00%	0.58%	-0.09%	0.06%	0.37%	0.09%	-0.36%	0.65%	18.62%
231	Castle Hills	12.38%	0.00%	0.22%	-0.06%	0.11%	0.35%	-0.09%	-0.08%	0.45%	12.83%
234	Castroville	8.75%	0.00%	0.05%	-0.03%	0.01%	0.05%	-0.24%	-0.05%	-0.21%	8.54%
238	Cedar Hill	13.79%	0.00%	0.47%	-0.04%	0.00%	0.01%	-0.10%	-0.04%	0.30%	14.09%
239	Cedar Park	14.36%	0.00%	0.29%	-0.01%	-0.05%	-0.25%	0.00%	0.15%	0.13%	14.49%
240	Celeste	8.93%	0.00%	-0.10%	0.00%	0.05%	-0.12%	-0.09%	-3.37%	-3.63%	5.30%
242	Celina	6.47%	0.00%	-0.21%	0.01%	-0.11%	0.01%	-0.02%	0.12%	-0.20%	6.27%
244	Center	12.40%	0.00%	0.03%	-0.04%	-0.05%	0.04%	0.03%	-0.34%	-0.33%	12.07%
246	Centerville	22.13%	0.00%	-1.52%	-0.08%	0.04%	-0.04%	0.06%	-0.32%	-1.86%	20.27%
247	Chandler	4.46%	1.68%	-0.04%	0.00%	0.08%	-0.02%	-0.01%	-0.02%	1.67%	6.13%
248	Charlotte	3.79%	0.00%	0.97%	-0.02%	-0.15%	-0.19%	-0.07%	-1.44%	-0.90%	2.89%
249	Chester	0.62%	0.00%	0.20%	0.00%	-0.41%	0.00%	0.00%	-0.21%	-0.42%	0.20%
245	Chico	4.26%	0.00%	-0.37%	-0.04%	0.09%	0.04%	0.30%	-1.04%	-1.02%	3.24%
250	Childress	15.51%	0.00%	0.19%	-0.04%	0.03%	0.30%	-0.01%	0.04%	0.51%	16.02%
251	Chillicothe	7.33%	0.00%	-0.09%	0.02%	-0.64%	0.31%	0.00%	0.38%	-0.02%	7.31%
253	Chireno	21.08%	0.00%	0.64%	-0.07%	0.10%	0.20%	-0.01%	0.33%	1.19%	22.27%
254	Christine	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
255	Cibolo	12.49%	0.00%	0.11%	-0.01%	-0.07%	-0.11%	-0.19%	0.28%	0.01%	12.50%
256	Cisco	6.39%	0.00%	-0.01%	-0.03%	-0.05%	-0.01%	0.03%	0.02%	-0.05%	6.34%
258	Clarendon	1.39%	0.00%	0.26%	-0.02%	-0.01%	0.05%	0.02%	-0.27%	0.03%	1.42%
259	Clarksville	1.56%	0.00%	1.90%	-0.05%	-0.04%	0.01%	0.20%	0.12%	2.14%	3.70%
260	Clarksville City	4.40%	0.00%	-0.70%	-0.11%	0.07%	-0.05%	0.31%	-0.03%	-0.51%	3.89%
263	Clear Lake Shores	10.65%	0.00%	0.09%	0.00%	-0.07%	-0.11%	0.10%	0.11%	0.12%	10.77%
264	Cleburne	16.06%	0.00%	0.14%	-0.06%	0.07%	0.05%	-0.02%	-0.17%	0.01%	16.07%
266	Cleveland	10.53%	0.00%	0.16%	-0.03%	-0.07%	-0.21%	-0.02%	0.14%	-0.03%	10.50%
268	Clifton	1.93%	0.00%	0.21%	-0.03%	0.01%	0.01%	0.10%	-0.46%	-0.16%	1.77%
271	Clute	10.29%	0.00%	0.41%	-0.05%	-0.03%	-0.02%	-0.09%	0.01%	0.23%	10.52%
272	Clyde	12.98%	0.00%	0.32%	-0.03%	-0.05%	-0.08%	0.18%	-0.26%	0.08%	13.06%
274	Coahoma	6.27%	0.00%	0.19%	-0.04%	0.01%	0.00%	0.00%	0.05%	0.21%	6.48%
276	Cockrell Hill	8.08%	0.00%	0.47%	-0.03%	-0.04%	0.04%	0.05%	0.55%	1.04%	9.12%
278	Coleman	16.89%	0.00%	-0.19%	-0.10%	0.10%	0.49%	0.38%	-0.65%	0.03%	16.92%
280	College Station	13.19%	0.00%	0.19%	-0.05%	-0.01%	-0.04%	0.03%	-0.01%	0.11%	13.30%
281	Colleyville	8.94%	0.00%	0.15%	-0.05%	0.01%	-0.01%	-0.07%	0.42%	0.45%	9.39%
282	Collinsville	5.43%	0.00%	-0.13%	-0.02%	-0.04%	-0.01%	-0.13%	0.25%	-0.08%	5.35%
283	Colmesneil	9.05%	0.00%	-0.25%	-0.03%	0.28%	0.24%	0.12%	-0.15%	0.21%	9.26%
284	Colorado City	8.04%	0.00%	0.04%	-0.04%	-0.04%	0.02%	-0.15%	-0.24%	-0.41%	7.63%
286	Columbus	12.46%	0.00%	-0.17%	-0.04%	0.01%	0.00%	-0.01%	-0.28%	-0.49%	11.97%
288	Comanche	4.97%	0.00%	-0.14%	-0.05%	-0.05%	-0.21%	-0.07%	0.39%	-0.13%	4.84%
289	Combes	6.92%	0.00%	0.07%	0.01%	-0.01%	0.06%	-0.09%	-0.24%	-0.20%	6.72%
290	Commerce	8.50%	0.00%	0.09%	-0.05%	-0.06%	0.07%	-0.34%	-0.31%	-0.60%	7.90%
294	Conroe	16.24%	0.00%	0.53%	-0.04%	-0.02%	-0.42%	-0.01%	0.02%	0.06%	16.30%
295	Converse	13.72%	0.00%	0.27%	-0.03%	-0.06%	-0.18%	0.14%	0.15%	0.29%	14.01%

**Section 3**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**Changes in Full Retirement Rate from Prior Valuation Report**

CITY NUMBER	CITY NAME	2020 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2021 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
298	Cooper	5.02%	0.00%	0.25%	-0.06%	-0.02%	-0.08%	-0.10%	0.40%	0.39%	5.41%
299	Coppell	15.57%	0.00%	0.43%	-0.05%	-0.01%	-0.14%	0.09%	0.26%	0.58%	16.15%
297	Copper Canyon	13.29%	0.00%	0.03%	-0.02%	0.03%	0.16%	-0.79%	-0.40%	-0.99%	12.30%
300	Copperas Cove	12.06%	0.00%	0.41%	-0.05%	-0.02%	-0.07%	0.09%	0.15%	0.51%	12.57%
301	Corinth	15.34%	0.00%	0.19%	-0.02%	-0.12%	-0.30%	0.24%	0.12%	0.11%	15.45%
302	Corpus Christi	24.61%	-5.92%	0.33%	-0.08%	-0.38%	-0.17%	-0.03%	-0.41%	-6.66%	17.95%
304	Corrigan	3.97%	0.00%	-0.09%	-0.02%	0.00%	0.00%	-0.38%	-0.05%	-0.54%	3.43%
306	Corsicana	15.37%	0.00%	-0.23%	-0.07%	0.03%	0.31%	0.10%	-0.74%	-0.60%	14.77%
308	Cotulla	6.61%	0.00%	-0.05%	-0.01%	-0.05%	-0.17%	-0.02%	0.14%	-0.16%	6.45%
310	Crandall	10.68%	0.00%	0.41%	-0.01%	-0.05%	0.02%	-0.09%	0.08%	0.36%	11.04%
312	Crane	8.01%	0.00%	0.71%	-0.06%	-0.05%	-0.03%	-0.15%	-0.31%	0.11%	8.12%
314	Crawford	0.79%	0.00%	0.16%	-0.01%	-0.02%	0.05%	-0.03%	0.04%	0.19%	0.98%
316	Crockett	8.09%	0.00%	0.30%	-0.07%	0.00%	0.03%	-0.09%	0.34%	0.51%	8.60%
318	Crosbyton	5.02%	0.00%	0.90%	-0.08%	-0.01%	0.11%	0.22%	-2.01%	-0.87%	4.15%
320	Cross Plains	8.16%	0.00%	0.18%	-0.06%	-0.08%	-0.12%	-0.15%	-0.78%	-1.01%	7.15%
321	Cross Roads	7.55%	0.00%	-0.22%	0.01%	0.00%	-0.03%	-0.01%	0.16%	-0.09%	7.46%
322	Crowell	5.53%	0.00%	0.07%	0.02%	0.04%	0.85%	-0.20%	-0.41%	0.37%	5.90%
323	Crowley	10.95%	0.00%	0.23%	-0.02%	-0.03%	-0.06%	-0.09%	0.35%	0.38%	11.33%
324	Crystal City	0.61%	0.00%	1.00%	-0.03%	-0.02%	0.16%	-0.03%	0.21%	1.29%	1.90%
326	Cuero	10.48%	0.00%	0.27%	-0.02%	0.02%	0.08%	-0.04%	-0.13%	0.18%	10.66%
328	Cumby	1.91%	0.00%	0.07%	-0.02%	-0.01%	0.02%	-0.21%	-0.09%	-0.24%	1.67%
332	Daingerfield	5.60%	0.00%	0.18%	-0.04%	-0.04%	0.00%	-0.02%	-0.03%	0.05%	5.65%
334	Daisetta	0.92%	0.00%	0.72%	-0.02%	0.00%	-0.29%	-0.30%	-0.15%	-0.04%	0.88%
336	Dalhart	4.78%	0.00%	0.20%	-0.05%	0.01%	0.00%	0.07%	-0.02%	0.21%	4.99%
339	Dalworthington Gardens	20.99%	0.00%	1.08%	-0.03%	0.04%	0.44%	0.57%	0.13%	2.23%	23.22%
340	Danbury	5.74%	0.00%	0.03%	-0.02%	0.01%	0.06%	0.26%	-0.04%	0.30%	6.04%
341	Darrouzett	4.13%	0.00%	0.15%	-0.08%	0.31%	0.20%	1.09%	-0.46%	1.21%	5.34%
344	Dayton	6.99%	0.00%	-0.05%	-0.02%	-0.07%	-0.10%	-0.02%	-0.15%	-0.41%	6.58%
352	De Leon	1.76%	0.00%	0.01%	-0.03%	0.04%	0.02%	0.21%	0.05%	0.30%	2.06%
10366	DeSoto	10.94%	0.00%	0.09%	-0.05%	-0.01%	-0.03%	-0.01%	0.13%	0.12%	11.06%
346	Decatur	14.30%	0.00%	-0.22%	-0.03%	-0.01%	-0.02%	0.04%	-0.22%	-0.46%	13.84%
348	Deer Park	13.78%	0.00%	0.37%	-0.08%	-0.03%	-0.05%	-0.07%	-0.34%	-0.20%	13.58%
350	Dekalb	2.43%	0.00%	0.55%	-0.01%	-0.03%	-0.01%	-0.10%	0.15%	0.55%	2.98%
354	Del Rio	7.45%	0.00%	-0.18%	-0.01%	0.02%	-0.01%	-0.04%	-0.03%	-0.25%	7.20%
353	Dell City	9.17%	0.00%	0.20%	-0.17%	1.01%	3.73%	-0.74%	-0.38%	3.65%	12.82%
356	Denison	12.16%	0.00%	0.04%	-0.07%	-0.01%	-0.10%	-0.21%	-0.17%	-0.52%	11.64%
358	Denton	17.29%	0.00%	0.53%	-0.05%	-0.04%	-0.31%	0.02%	0.17%	0.32%	17.61%
360	Denver City	11.17%	0.00%	0.13%	-0.10%	-0.05%	-0.28%	0.24%	-0.98%	-1.04%	10.13%
362	Deport	1.88%	0.00%	0.13%	-0.01%	-0.04%	0.22%	0.00%	0.17%	0.47%	2.35%
370	Devine	16.62%	0.00%	0.57%	-0.01%	-0.08%	-1.00%	-0.14%	0.21%	-0.45%	16.17%
371	Diboll	14.67%	0.00%	0.61%	-0.08%	0.07%	0.14%	0.17%	-0.22%	0.69%	15.36%
372	Dickens	1.97%	0.00%	0.38%	0.00%	-0.02%	-0.02%	-0.01%	0.06%	0.39%	2.36%
373	Dickinson	9.49%	0.00%	0.11%	-0.04%	0.03%	0.11%	-0.07%	0.14%	0.28%	9.77%
374	Dilley	10.14%	0.00%	0.21%	-0.01%	-0.05%	-0.18%	-0.30%	-0.40%	-0.73%	9.41%
376	Dimmitt	4.02%	0.00%	1.41%	-0.07%	0.03%	-0.24%	0.14%	0.00%	1.27%	5.29%
382	Donna	11.06%	0.00%	0.06%	0.00%	-0.05%	-0.12%	-0.05%	0.21%	0.05%	11.11%
379	Double Oak	7.05%	1.23%	-0.25%	-0.01%	0.19%	0.10%	-0.25%	-0.14%	0.87%	7.92%
383	Dripping Springs	5.97%	0.00%	-0.23%	0.01%	-0.09%	-0.11%	0.28%	0.05%	-0.09%	5.88%
385	Driscoll	1.95%	0.00%	-0.12%	0.00%	0.03%	-0.02%	0.14%	-0.08%	-0.05%	1.90%
384	Dublin	12.43%	0.00%	0.23%	-0.02%	-0.06%	-0.21%	0.12%	0.10%	0.16%	12.59%
386	Dumas	5.56%	7.29%	0.00%	-0.04%	0.44%	0.04%	0.00%	-0.37%	7.36%	12.92%
388	Duncanville	7.67%	0.00%	-0.34%	-0.10%	0.01%	0.02%	-0.09%	-0.05%	-0.55%	7.12%
394	Eagle Lake	8.90%	1.02%	0.06%	-0.05%	0.05%	-0.02%	0.01%	-0.32%	0.75%	9.65%
396	Eagle Pass	8.54%	0.00%	-0.01%	-0.05%	0.01%	0.01%	-0.04%	0.17%	0.09%	8.63%



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CITY NUMBER	CITY NAME	2020 Rates	Assumption &		Contribution Lag/Phase In &					Total Change	2021 Rates
			Benefit Changes	Method Changes	Return on AVA	Fully Amortized Prior Bases	Payroll Growth	Normal Cost	Liability Growth		
397	Early	3.22%	0.00%	0.21%	-0.03%	-0.03%	0.03%	-0.05%	0.24%	0.37%	3.59%
399	Earth	5.09%	0.00%	0.23%	-0.02%	0.08%	0.85%	-0.11%	0.30%	1.33%	6.42%
393	East Bernard	5.02%	0.00%	0.00%	0.01%	-0.10%	0.07%	0.10%	0.21%	0.29%	5.31%
401	East Mountain	13.08%	0.00%	1.12%	-0.10%	0.08%	-0.01%	0.02%	0.14%	1.25%	14.33%
395	East Tawakoni	5.27%	0.00%	0.07%	-0.03%	-0.08%	0.05%	0.76%	0.18%	0.95%	6.22%
398	Eastland	8.98%	0.00%	0.20%	-0.02%	-0.01%	-0.04%	0.09%	-0.20%	0.02%	9.00%
402	Ector	1.94%	0.00%	-0.19%	-0.01%	0.00%	0.00%	-0.03%	-0.01%	-0.24%	1.70%
406	Eden	2.94%	0.00%	1.02%	-0.08%	0.02%	-0.11%	-0.05%	-0.44%	0.36%	3.30%
408	Edgewood	2.69%	3.40%	-0.37%	-0.01%	0.24%	0.00%	-0.03%	-0.11%	3.12%	5.81%
410	Edinburg	14.32%	0.00%	0.35%	-0.03%	-0.03%	-0.14%	-0.12%	0.13%	0.16%	14.48%
412	Edna	10.67%	0.00%	0.08%	-0.08%	0.01%	0.21%	-0.03%	-0.63%	-0.44%	10.23%
414	El Campo	10.54%	3.19%	0.04%	-0.06%	0.23%	-0.08%	-0.17%	0.28%	3.43%	13.97%
416	Eldorado	7.21%	0.00%	0.31%	-0.04%	-0.05%	-0.28%	-0.11%	0.41%	0.24%	7.45%
418	Electra	2.35%	0.00%	-0.06%	-0.03%	0.01%	-0.01%	-0.11%	-0.27%	-0.47%	1.88%
420	Elgin	13.76%	0.00%	0.11%	-0.01%	-0.08%	-0.23%	0.11%	0.15%	0.05%	13.81%
422	Elkhart	5.23%	0.00%	-0.10%	-0.06%	-0.10%	-0.05%	0.40%	-1.03%	-0.94%	4.29%
427	Elmendorf	1.58%	0.00%	-0.08%	0.01%	-0.01%	-0.03%	-0.06%	0.06%	-0.11%	1.47%
432	Emory	6.74%	0.00%	-0.26%	-0.01%	0.01%	0.00%	0.07%	0.05%	-0.14%	6.60%
436	Ennis	16.71%	0.00%	0.35%	-0.07%	-0.04%	-0.03%	-0.03%	-0.16%	0.02%	16.73%
439	Eules	17.70%	0.00%	0.45%	-0.08%	0.04%	0.07%	-0.03%	-0.13%	0.32%	18.02%
440	Eustace	10.63%	0.00%	0.67%	-0.02%	-0.16%	-1.37%	-0.31%	0.43%	-0.76%	9.87%
441	Everman	9.39%	0.00%	0.14%	-0.03%	-0.07%	-0.04%	-0.16%	-1.25%	-1.41%	7.98%
443	Fair Oaks Ranch	11.71%	0.00%	0.10%	-0.01%	-0.06%	-0.09%	-0.03%	-0.05%	-0.14%	11.57%
442	Fairfield	7.17%	0.00%	0.20%	-0.05%	-0.04%	0.03%	-0.13%	0.10%	0.11%	7.28%
445	Fairview	10.77%	0.00%	0.15%	0.00%	0.01%	0.00%	-0.01%	0.16%	0.31%	11.08%
20444	Falfurrias	3.33%	0.00%	-0.10%	-0.02%	0.04%	0.07%	0.10%	-0.42%	-0.33%	3.00%
446	Falls City	7.85%	0.00%	0.05%	-0.01%	-0.19%	-0.35%	-0.01%	0.11%	-0.40%	7.45%
448	Farmers Branch	19.00%	0.00%	0.01%	-0.11%	0.04%	0.04%	0.11%	0.03%	0.12%	19.12%
450	Farmersville	8.74%	0.00%	0.11%	-0.02%	-0.02%	-0.03%	-0.04%	-0.45%	-0.45%	8.29%
451	Farwell	15.24%	0.49%	0.57%	-0.08%	0.23%	0.35%	0.35%	-0.31%	1.60%	16.84%
452	Fate	10.74%	0.00%	0.07%	0.00%	-0.04%	-0.01%	-0.43%	-0.12%	-0.53%	10.21%
454	Fayetteville	3.22%	0.00%	-0.24%	-0.01%	-0.06%	-0.10%	0.01%	0.35%	-0.05%	3.17%
456	Ferris	5.45%	0.00%	0.10%	-0.02%	-0.03%	0.01%	0.14%	-0.46%	-0.26%	5.19%
458	Flatonia	15.94%	0.00%	0.19%	-0.10%	-0.12%	-0.44%	0.07%	0.23%	-0.17%	15.77%
460	Florence	4.34%	0.00%	-0.10%	-0.01%	0.01%	0.02%	-0.10%	0.14%	-0.04%	4.30%
20462	Floresville	10.26%	0.00%	0.06%	-0.02%	-0.05%	-0.05%	0.20%	-1.01%	-0.87%	9.39%
463	Flower Mound	10.77%	0.00%	0.41%	-0.03%	-0.01%	-0.06%	-0.07%	0.28%	0.52%	11.29%
464	Floydada	10.00%	0.00%	-0.28%	-0.10%	0.04%	-0.08%	0.19%	0.20%	-0.03%	9.97%
468	Forest Hill	12.82%	0.00%	0.14%	-0.04%	-0.09%	-0.12%	0.57%	-0.44%	0.02%	12.84%
470	Forney	13.80%	0.00%	0.18%	-0.01%	-0.09%	-0.22%	-0.07%	0.57%	0.36%	14.16%
472	Fort Stockton	9.64%	0.00%	0.03%	-0.03%	-0.04%	-0.01%	-0.04%	0.11%	0.02%	9.66%
476	Franklin	3.11%	0.00%	0.10%	-0.01%	-0.01%	0.02%	0.01%	0.09%	0.20%	3.31%
478	Frankston	1.45%	0.00%	0.07%	0.00%	0.00%	-0.01%	-0.09%	0.02%	-0.01%	1.44%
480	Fredericksburg	12.06%	4.16%	0.31%	-0.05%	0.25%	-0.24%	0.02%	0.41%	4.86%	16.92%
482	Freeport	14.30%	0.00%	0.30%	-0.04%	0.03%	0.02%	0.03%	-0.43%	-0.09%	14.21%
481	Freer	7.00%	0.00%	0.25%	-0.02%	-0.03%	-0.35%	-0.05%	-0.23%	-0.43%	6.57%
483	Friendswood	15.84%	0.00%	0.32%	-0.05%	-0.01%	-0.05%	0.02%	0.48%	0.71%	16.55%
484	Friona	9.06%	0.00%	0.43%	-0.07%	0.03%	0.14%	0.09%	-0.51%	0.11%	9.17%
486	Frisco	14.07%	0.00%	0.48%	-0.01%	-0.05%	-0.13%	-0.05%	0.13%	0.37%	14.44%
487	Fritch	1.78%	0.00%	2.25%	-0.02%	-0.06%	-0.04%	-0.08%	-0.06%	1.99%	3.77%
488	Frost	6.98%	0.00%	0.14%	-0.04%	0.05%	-0.80%	-0.32%	0.46%	-0.51%	6.47%
491	Fulshear	7.69%	0.00%	-0.13%	0.01%	-0.14%	-0.08%	-0.22%	0.13%	-0.43%	7.26%
493	Fulton	22.59%	0.00%	-0.08%	-0.02%	0.30%	-0.29%	-0.46%	0.85%	0.30%	22.89%
492	Gainesville	12.17%	0.00%	-0.01%	-0.04%	-0.20%	-0.15%	-0.03%	0.11%	-0.32%	11.85%

**Section 3**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**Changes in Full Retirement Rate from Prior Valuation Report**

CITY NUMBER	CITY NAME	2020 Rates	Assumption &		Contribution Lag/Phase In &					Total Change	2021 Rates
			Benefit Changes	Method Changes	Return on AVA	Fully Amortized Prior Bases	Payroll Growth	Normal Cost	Liability Growth		
494	Galena Park	12.14%	0.00%	-0.04%	-0.06%	-0.03%	-0.01%	-0.22%	-1.03%	-1.39%	10.75%
498	Ganado	13.16%	0.00%	-0.79%	-0.12%	-0.01%	0.02%	0.07%	-0.37%	-1.20%	11.96%
499	Garden Ridge	7.39%	0.00%	0.08%	-0.01%	-0.03%	-0.01%	0.09%	0.03%	0.15%	7.54%
500	Garland	11.03%	0.00%	0.22%	-0.08%	0.01%	-0.03%	-0.04%	0.08%	0.16%	11.19%
502	Garrison	16.50%	0.00%	-0.83%	-0.10%	-0.48%	-0.35%	0.20%	0.14%	-1.42%	15.08%
503	Gary	7.22%	0.00%	-0.03%	-0.03%	0.00%	0.00%	0.00%	-1.57%	-1.63%	5.59%
504	Gatesville	14.88%	0.00%	0.45%	-0.05%	-0.02%	-0.16%	0.03%	-0.43%	-0.18%	14.70%
505	George West	5.79%	0.00%	-0.13%	-0.01%	-0.03%	-0.05%	0.04%	-0.24%	-0.42%	5.37%
506	Georgetown	12.13%	0.00%	0.47%	-0.02%	-0.02%	-0.10%	0.00%	-0.01%	0.32%	12.45%
510	Giddings	18.19%	0.00%	-0.03%	-0.04%	-0.01%	0.25%	0.11%	-0.30%	-0.02%	18.17%
512	Gilmer	13.34%	0.00%	0.35%	-0.05%	0.02%	0.05%	-0.05%	-0.27%	0.05%	13.39%
514	Gladewater	8.62%	0.00%	0.03%	-0.03%	0.08%	0.02%	0.06%	-0.48%	-0.32%	8.30%
516	Glen Rose	14.60%	0.00%	0.16%	-0.03%	0.06%	0.10%	-0.51%	-0.09%	-0.31%	14.29%
517	Glenn Heights	2.87%	0.00%	0.67%	-0.02%	-0.02%	0.09%	0.12%	-0.15%	0.69%	3.56%
518	Godley	2.63%	0.00%	-0.09%	-0.01%	-0.03%	-0.03%	0.21%	-0.27%	-0.22%	2.41%
519	Goldsmith	3.20%	0.00%	-0.67%	-0.05%	-0.28%	-0.04%	-0.07%	-0.05%	-1.16%	2.04%
520	Goldthwaite	23.50%	0.00%	0.90%	-0.12%	-0.15%	0.12%	-0.03%	-0.02%	0.70%	24.20%
522	Goliad	4.99%	0.00%	0.28%	-0.03%	0.02%	0.06%	0.37%	0.00%	0.70%	5.69%
524	Gonzales	10.45%	0.00%	0.06%	-0.04%	0.02%	0.14%	-0.10%	-0.15%	-0.07%	10.38%
527	Gordon	2.73%	0.00%	-0.01%	0.02%	-0.08%	-0.33%	-0.23%	0.18%	-0.45%	2.28%
530	Gorman	9.17%	0.00%	0.04%	0.02%	0.04%	-0.05%	-0.11%	-0.03%	-0.09%	9.08%
532	Graford	2.87%	0.00%	-0.03%	-0.01%	-0.01%	0.00%	-0.04%	-0.01%	-0.10%	2.77%
10534	Graham	10.35%	0.00%	-0.04%	-0.05%	-0.05%	0.02%	-0.07%	0.53%	0.34%	10.69%
536	Granbury	15.67%	0.00%	0.05%	-0.04%	-0.04%	-0.10%	0.05%	0.33%	0.25%	15.92%
540	Grand Prairie	16.83%	0.00%	0.54%	-0.07%	-0.02%	-0.18%	-0.04%	0.18%	0.41%	17.24%
542	Grand Saline	7.33%	0.00%	0.18%	-0.04%	-0.09%	-0.02%	-0.16%	0.24%	0.11%	7.44%
544	Grandview	6.50%	0.00%	0.63%	-0.02%	0.04%	0.01%	-0.39%	-0.61%	-0.34%	6.16%
546	Granger	0.82%	5.76%	0.29%	-0.02%	0.39%	0.06%	-0.66%	-0.31%	5.51%	6.33%
547	Granite Shoals	4.80%	0.00%	-0.16%	-0.01%	-0.01%	0.00%	0.01%	-0.30%	-0.47%	4.33%
548	Grapeland	4.10%	0.00%	0.48%	-0.05%	0.07%	0.00%	-0.58%	0.03%	-0.05%	4.05%
550	Grapevine	18.53%	0.00%	0.42%	-0.05%	-0.02%	-0.12%	-0.03%	0.09%	0.29%	18.82%
552	Greenville	11.00%	0.00%	0.33%	-0.08%	0.00%	-0.02%	-0.13%	0.22%	0.32%	11.32%
551	Gregory	3.96%	0.00%	0.60%	-0.01%	0.00%	0.13%	-0.10%	-0.06%	0.56%	4.52%
553	Grey Forest	15.76%	0.00%	0.58%	-0.05%	0.01%	-0.09%	-0.02%	0.34%	0.77%	16.53%
556	Groesbeck	2.50%	0.00%	0.00%	-0.01%	0.00%	0.02%	-0.02%	0.00%	-0.01%	2.49%
558	Groom	2.71%	0.00%	0.16%	-0.02%	-0.03%	0.01%	-0.01%	0.16%	0.27%	2.98%
559	Groves	9.13%	0.00%	0.03%	-0.08%	-0.01%	-0.02%	0.10%	-0.26%	-0.24%	8.89%
560	Groveton	2.03%	0.00%	0.06%	-0.01%	0.01%	-0.01%	-0.10%	-0.03%	-0.08%	1.95%
562	Gruver	14.49%	0.00%	-0.66%	-0.17%	0.12%	-0.11%	0.76%	0.42%	0.36%	14.85%
563	Gun Barrel City	4.70%	0.00%	0.46%	-0.02%	-0.03%	0.01%	0.21%	-0.48%	0.15%	4.85%
564	Gunter	4.14%	0.00%	0.37%	0.00%	-0.07%	0.29%	-0.18%	0.03%	0.44%	4.58%
568	Hale Center	1.98%	2.89%	0.05%	-0.01%	0.27%	0.05%	-0.14%	-0.84%	2.27%	4.25%
570	Hallettsville	11.84%	0.00%	0.33%	-0.05%	0.03%	0.19%	-0.04%	0.12%	0.58%	12.42%
572	Hallsville	2.93%	0.00%	-0.11%	0.00%	0.00%	0.02%	0.01%	-0.05%	-0.13%	2.80%
574	Haltom City	19.05%	0.00%	0.48%	-0.07%	-0.11%	-0.12%	-0.02%	-0.20%	-0.04%	19.01%
576	Hamilton	15.10%	0.00%	0.03%	-0.03%	-0.22%	-0.38%	-0.47%	-0.16%	-1.23%	13.87%
578	Hamlin	11.69%	-6.95%	0.05%	-0.08%	-0.67%	-0.07%	-0.02%	0.22%	-7.52%	4.17%
580	Happy	8.15%	0.00%	0.36%	-0.06%	-0.78%	0.01%	0.01%	0.27%	-0.19%	7.96%
581	Harker Heights	14.77%	0.00%	0.21%	-0.03%	-0.05%	-0.11%	0.10%	-0.08%	0.04%	14.81%
10582	Harlingen	11.66%	0.00%	-0.45%	-0.38%	0.19%	0.46%	0.01%	-1.17%	-1.34%	10.32%
20582	Harlingen Waterworks Sys	1.92%	0.00%	0.08%	-0.06%	0.01%	-0.05%	0.03%	-0.23%	-0.22%	1.70%
583	Hart	3.97%	0.00%	-0.20%	-0.01%	-0.01%	-0.07%	0.00%	0.23%	-0.06%	3.91%
586	Haskell	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
587	Haslet	8.63%	0.00%	-0.13%	-0.01%	-0.07%	-0.01%	-0.01%	0.39%	0.16%	8.79%





**Section 3**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**Changes in Full Retirement Rate from Prior Valuation Report**

CITY NUMBER	CITY NAME	2020 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2021 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
727	Lakeport	0.00%	0.00%	0.32%	0.00%	0.00%	0.00%	0.00%	0.00%	0.32%	0.32%
715	Lakeside	8.55%	2.57%	-0.61%	0.00%	0.08%	-0.33%	0.10%	0.55%	2.36%	10.91%
729	Lakeside City	2.08%	0.00%	-0.16%	-0.01%	-0.09%	-0.03%	-0.24%	0.30%	-0.23%	1.85%
720	Lakeway	13.90%	0.00%	0.13%	-0.02%	-0.05%	-0.04%	-0.22%	-0.07%	-0.27%	13.63%
722	Lamesa	4.76%	0.00%	0.11%	-0.07%	0.02%	0.00%	-0.11%	-0.07%	-0.12%	4.64%
724	Lampasas	15.55%	0.00%	0.43%	-0.04%	0.01%	-0.09%	0.02%	-0.34%	-0.01%	15.54%
726	Lancaster	13.45%	0.00%	0.35%	-0.04%	-0.01%	-0.06%	0.15%	0.06%	0.45%	13.90%
730	Laredo	20.77%	0.00%	0.58%	-0.04%	-0.02%	-0.17%	-0.05%	-0.04%	0.26%	21.03%
733	Lavon	6.51%	1.12%	-0.25%	0.00%	0.06%	-0.03%	-0.11%	0.00%	0.79%	7.30%
736	League City	14.72%	0.00%	0.46%	-0.03%	-0.03%	-0.16%	0.01%	-0.29%	-0.04%	14.68%
737	Leander	12.04%	0.00%	0.18%	-0.01%	-0.09%	-0.19%	-0.07%	0.16%	-0.02%	12.02%
735	Lefors	4.05%	0.00%	0.09%	0.01%	-0.08%	-0.02%	-0.41%	0.01%	-0.40%	3.65%
739	Leon Valley	17.12%	0.00%	0.11%	-0.07%	-0.12%	-0.43%	0.31%	0.73%	0.53%	17.65%
738	Leonard	1.15%	0.00%	0.20%	-0.02%	-0.06%	-0.04%	-0.30%	-0.05%	-0.27%	0.88%
740	Levelland	11.44%	0.00%	0.22%	-0.07%	0.03%	0.06%	-0.16%	-0.92%	-0.84%	10.60%
742	Lewisville	16.57%	0.00%	0.34%	-0.06%	-0.03%	-0.24%	-0.03%	0.16%	0.14%	16.71%
744	Lexington	8.82%	0.00%	0.25%	-0.06%	0.13%	0.25%	0.46%	-0.03%	1.00%	9.82%
746	Liberty	17.48%	0.00%	-0.09%	-0.02%	-0.11%	-0.63%	0.15%	-0.25%	-0.95%	16.53%
745	Liberty Hill	7.08%	0.00%	-0.01%	0.00%	-0.15%	-0.05%	-0.06%	0.22%	-0.05%	7.03%
748	Lindale	14.79%	0.00%	0.10%	-0.01%	0.00%	-0.06%	0.15%	0.19%	0.37%	15.16%
750	Linden	1.28%	0.00%	0.07%	-0.01%	0.00%	0.05%	-0.41%	0.03%	-0.27%	1.01%
755	Lipan	2.46%	0.00%	-0.08%	-0.01%	-0.02%	0.00%	0.01%	-0.04%	-0.14%	2.32%
751	Little Elm	13.47%	0.00%	0.11%	0.00%	-0.06%	-0.17%	-0.13%	0.20%	-0.05%	13.42%
752	Littlefield	8.93%	0.00%	-0.06%	-0.06%	-0.02%	-0.01%	-0.11%	-0.78%	-1.04%	7.89%
753	Live Oak	18.26%	0.00%	0.16%	-0.07%	-0.11%	-0.10%	-0.11%	0.11%	-0.12%	18.14%
757	Liverpool	1.94%	0.00%	-0.11%	0.02%	-0.31%	-0.03%	-0.01%	0.33%	-0.11%	1.83%
754	Livingston	15.56%	0.00%	0.53%	-0.06%	-0.01%	-0.32%	-0.08%	0.58%	0.64%	16.20%
756	Llano	14.59%	0.00%	-0.12%	-0.04%	-0.02%	-0.12%	0.11%	-0.95%	-1.14%	13.45%
758	Lockhart	12.81%	0.00%	-0.12%	-0.05%	-0.04%	0.00%	-0.08%	-0.05%	-0.34%	12.47%
760	Lockney	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
765	Lone Star	2.54%	0.00%	0.78%	-0.05%	0.03%	-0.07%	0.03%	-1.05%	-0.33%	2.21%
766	Longview	10.86%	0.00%	0.45%	-0.06%	0.03%	0.08%	-0.02%	-0.14%	0.34%	11.20%
768	Loraine	3.39%	0.00%	0.25%	-0.02%	0.06%	0.01%	-0.88%	-0.12%	-0.70%	2.69%
769	Lorena	10.78%	0.00%	0.01%	-0.01%	0.02%	0.00%	-0.14%	-0.12%	-0.24%	10.54%
770	Lorenzo	2.25%	0.00%	1.94%	-0.03%	0.00%	-1.35%	0.28%	-1.15%	-0.31%	1.94%
771	Los Fresnos	7.34%	0.00%	-0.09%	-0.02%	0.02%	-0.09%	0.02%	0.07%	-0.09%	7.25%
773	Lott	1.24%	0.00%	0.08%	0.00%	0.00%	-0.02%	0.05%	-0.02%	0.09%	1.33%
774	Lovelady	7.65%	0.00%	0.05%	0.02%	-0.18%	-0.02%	-0.01%	0.11%	-0.03%	7.62%
778	Lubbock	17.57%	0.00%	0.32%	-0.07%	0.00%	-0.06%	0.00%	-0.29%	-0.10%	17.47%
779	Lucas	12.50%	0.00%	0.15%	-0.01%	-0.06%	-0.03%	-0.01%	0.15%	0.19%	12.69%
782	Lufkin	16.17%	0.00%	0.42%	-0.06%	0.02%	0.20%	-0.02%	-0.33%	0.23%	16.40%
784	Luling	8.60%	0.00%	-0.08%	-0.04%	-0.10%	-0.02%	0.11%	-2.14%	-2.27%	6.33%
785	Lumberton	15.98%	0.00%	-0.14%	-0.04%	-0.08%	-0.20%	0.02%	0.20%	-0.24%	15.74%
786	Lyford	4.07%	0.00%	-0.09%	-0.01%	-0.08%	-0.07%	0.10%	-1.09%	-1.24%	2.83%
787	Lytle	10.23%	0.00%	0.42%	-0.01%	-0.02%	-0.38%	0.07%	0.28%	0.36%	10.59%
790	Madisonville	9.49%	0.00%	0.03%	-0.03%	0.01%	0.05%	0.00%	-0.27%	-0.21%	9.28%
791	Magnolia	1.62%	3.78%	-0.12%	-0.01%	0.23%	-0.01%	-0.31%	-0.37%	3.19%	4.81%
792	Malakoff	7.64%	0.00%	-0.18%	-0.01%	-0.05%	-0.01%	-0.01%	0.06%	-0.20%	7.44%
796	Manor	9.11%	0.00%	-0.06%	0.01%	-0.06%	-0.37%	0.08%	0.05%	-0.35%	8.76%
798	Mansfield	15.39%	0.00%	0.47%	-0.04%	0.02%	0.01%	0.14%	0.06%	0.66%	16.05%
799	Manvel	10.70%	0.00%	-0.19%	0.01%	-0.19%	-0.49%	0.13%	0.00%	-0.73%	9.97%
800	Marble Falls	9.76%	1.19%	0.42%	-0.04%	0.07%	-0.13%	-0.36%	-0.31%	0.84%	10.60%
802	Marfa	3.21%	0.00%	0.27%	-0.02%	0.03%	0.04%	-0.24%	-0.09%	-0.01%	3.20%
804	Marion	3.42%	0.00%	0.77%	-0.02%	-0.11%	-0.08%	0.51%	0.24%	1.31%	4.73%



**Section 3**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**Changes in Full Retirement Rate from Prior Valuation Report**

CITY NUMBER	CITY NAME	2020 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2021 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
10904	Nacogdoches	14.15%	0.00%	0.41%	-0.06%	-0.02%	0.11%	-0.03%	-0.25%	0.16%	14.31%
906	Naples	2.17%	0.00%	1.02%	-0.03%	0.04%	-0.40%	-0.62%	-0.79%	-0.78%	1.39%
907	Nash	17.54%	0.00%	0.36%	-0.01%	0.00%	0.07%	0.21%	0.11%	0.74%	18.28%
905	Nassau Bay	15.74%	0.00%	-0.01%	-0.02%	-0.22%	0.02%	0.13%	-0.64%	-0.74%	15.00%
909	Natalia	3.17%	0.00%	-0.02%	-0.01%	0.02%	0.05%	-0.21%	-0.23%	-0.40%	2.77%
908	Navasota	7.60%	0.00%	0.40%	-0.05%	-0.02%	0.00%	0.09%	-2.22%	-1.80%	5.80%
910	Nederland	6.47%	0.00%	0.64%	-0.10%	0.00%	0.00%	-0.08%	0.43%	0.89%	7.36%
912	Needville	4.21%	0.00%	-0.12%	-0.04%	-0.01%	-0.02%	-0.14%	0.04%	-0.29%	3.92%
914	New Boston	2.07%	0.00%	0.95%	-0.04%	0.02%	0.10%	-0.05%	-1.70%	-0.72%	1.35%
10916	New Braunfels	16.85%	0.00%	0.18%	-0.03%	-0.06%	-0.22%	-0.07%	0.27%	0.07%	16.92%
20916	New Braunfels Utilities	17.22%	0.00%	0.57%	-0.04%	-0.10%	-0.43%	0.17%	0.47%	0.64%	17.86%
915	New Deal	0.72%	0.00%	0.68%	-0.02%	0.02%	-0.11%	-0.39%	-0.03%	0.15%	0.87%
923	New Fairview	10.69%	0.00%	0.48%	0.01%	-0.16%	-0.63%	0.00%	0.94%	0.64%	11.33%
918	New London	3.39%	0.00%	0.42%	-0.03%	-0.03%	0.02%	-0.08%	-0.25%	0.05%	3.44%
919	New Summerfield	7.70%	0.00%	0.09%	0.00%	-0.13%	0.01%	-0.14%	0.08%	-0.09%	7.61%
917	New Waverly	7.63%	5.81%	0.14%	-0.07%	0.90%	0.71%	0.02%	1.33%	8.84%	16.47%
913	Newark	2.95%	0.00%	0.01%	0.00%	0.01%	-0.09%	0.01%	-0.64%	-0.70%	2.25%
920	Newton	21.14%	0.00%	0.48%	-0.05%	0.00%	-0.15%	0.00%	0.04%	0.32%	21.46%
922	Nixon	0.64%	0.00%	0.23%	-0.01%	-0.13%	0.01%	0.00%	-0.07%	0.03%	0.67%
924	Nocona	10.11%	0.00%	0.42%	-0.03%	-0.04%	-0.23%	0.02%	0.02%	0.16%	10.27%
925	Nolanville	2.12%	0.00%	-0.04%	0.01%	-0.04%	-0.04%	-0.14%	0.07%	-0.18%	1.94%
928	Normangee	0.87%	0.00%	0.97%	-0.02%	-0.17%	1.36%	0.17%	0.38%	2.69%	3.56%
931	North Richland Hills	16.34%	0.00%	0.50%	-0.07%	0.01%	-0.06%	0.00%	0.11%	0.49%	16.83%
930	Northlake	9.97%	0.00%	0.18%	0.00%	-0.08%	-0.09%	-0.19%	0.04%	-0.14%	9.83%
935	O'Donnell	7.47%	0.00%	-0.07%	-0.05%	-0.17%	-1.57%	-0.10%	-0.42%	-2.38%	5.09%
936	Oak Point	7.49%	0.00%	-0.26%	0.00%	-0.03%	-0.16%	0.15%	-0.02%	-0.32%	7.17%
937	Oak Ridge North	11.40%	0.00%	0.31%	-0.04%	0.02%	0.17%	-0.10%	-0.20%	0.16%	11.56%
942	Odem	9.70%	0.00%	-0.24%	-0.03%	-0.09%	-0.90%	-0.23%	-0.04%	-1.53%	8.17%
944	Odessa	13.44%	0.00%	0.52%	-0.07%	0.00%	0.05%	0.03%	-0.10%	0.43%	13.87%
945	Oglesby	1.07%	0.00%	0.00%	-0.07%	0.06%	-0.03%	0.00%	0.40%	0.36%	1.43%
949	Old River-Winfree	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
950	Olmos Park	2.65%	0.00%	0.21%	-0.04%	0.00%	0.02%	-0.04%	0.19%	0.34%	2.99%
951	Olney	6.90%	0.00%	-0.20%	-0.01%	-0.08%	-0.09%	-0.02%	0.26%	-0.14%	6.76%
953	Omaha	5.14%	0.00%	-0.03%	-0.02%	0.00%	0.04%	-0.08%	-0.14%	-0.23%	4.91%
954	Onalaska	2.09%	0.00%	0.30%	-0.01%	-0.03%	0.00%	0.10%	-0.03%	0.33%	2.42%
958	Orange	15.16%	0.00%	0.03%	-0.09%	-0.02%	0.02%	0.04%	-0.38%	-0.40%	14.76%
960	Orange Grove	7.20%	0.00%	1.04%	-0.04%	0.02%	0.00%	0.14%	-0.24%	0.92%	8.12%
959	Ore City	1.02%	0.00%	0.08%	-0.01%	-0.03%	0.02%	0.11%	-0.06%	0.11%	1.13%
962	Overton	3.16%	0.00%	0.49%	-0.02%	0.00%	0.07%	0.12%	-0.04%	0.62%	3.78%
961	Ovilla	9.83%	0.00%	0.04%	-0.02%	-0.02%	-0.03%	-0.06%	-0.02%	-0.11%	9.72%
963	Oyster Creek	10.76%	0.00%	0.36%	-0.03%	-0.05%	-0.01%	0.44%	-0.28%	0.43%	11.19%
964	Paducah	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
966	Palacios	17.27%	0.00%	-0.01%	-0.03%	0.03%	-0.10%	-0.52%	0.12%	-0.51%	16.76%
968	Palestine	13.58%	0.00%	0.25%	-0.05%	0.06%	0.54%	-0.03%	-0.37%	0.40%	13.98%
970	Palmer	11.04%	0.00%	0.09%	0.00%	0.02%	0.09%	0.15%	-0.33%	0.02%	11.06%
969	Palmhurst	5.73%	0.00%	-0.17%	0.00%	0.01%	0.01%	-0.10%	0.05%	-0.20%	5.53%
971	Palmview	1.99%	0.00%	-0.09%	0.00%	0.00%	-0.07%	0.01%	-0.12%	-0.27%	1.72%
972	Pampa	21.48%	0.00%	0.53%	-0.05%	0.01%	0.19%	0.08%	-0.45%	0.31%	21.79%
974	Panhandle	11.25%	0.00%	0.01%	-0.03%	-0.03%	-0.01%	0.17%	-0.32%	-0.21%	11.04%
973	Panorama Village	6.28%	0.00%	-0.32%	-0.03%	-0.05%	0.00%	-0.53%	-0.10%	-1.03%	5.25%
975	Pantego	17.17%	0.00%	0.19%	-0.07%	-0.14%	-0.25%	-0.09%	-0.95%	-1.31%	15.86%
976	Paris	7.18%	0.00%	-0.12%	-0.08%	0.02%	0.01%	-0.06%	-0.17%	-0.40%	6.78%
977	Parker	12.42%	0.48%	0.45%	-0.02%	-0.01%	-0.21%	-0.18%	0.30%	0.81%	13.23%
978	Pasadena	13.46%	0.00%	0.30%	-0.09%	0.00%	-0.05%	-0.03%	-0.35%	-0.22%	13.24%













**Section 3**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**Changes in Full Retirement Rate from Prior Valuation Report**

CITY NUMBER	CITY NAME	2020 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &				Total Change	2021 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth	Normal Cost	Liability Growth		
1398	Winnsboro	9.10%	0.00%	0.20%	-0.04%	-0.04%	-0.11%	-0.16%	-0.28%	-0.43%	8.67%
1399	Winona	1.94%	0.00%	3.77%	-0.06%	0.12%	-1.03%	1.24%	-0.30%	3.74%	5.68%
1400	Winters	10.41%	0.00%	0.32%	-0.09%	-0.03%	-0.15%	0.00%	0.62%	0.67%	11.08%
1403	Wolfforth	11.49%	0.00%	0.21%	-0.02%	-0.12%	-0.68%	-0.11%	0.26%	-0.46%	11.03%
1409	Woodcreek	8.03%	0.00%	-0.27%	0.00%	-0.08%	-0.01%	-0.32%	-0.09%	-0.77%	7.26%
1404	Woodsboro	0.74%	0.00%	1.07%	-0.02%	-0.01%	-0.12%	0.03%	-0.03%	0.92%	1.66%
1406	Woodville	17.39%	0.00%	0.54%	-0.07%	0.19%	0.40%	0.22%	-1.75%	-0.47%	16.92%
1407	Woodway	16.77%	0.00%	0.44%	-0.05%	-0.03%	-0.30%	0.20%	0.24%	0.50%	17.27%
1408	Wortham	5.36%	0.00%	0.97%	-0.02%	-0.03%	-0.01%	0.08%	-0.30%	0.69%	6.05%
1410	Wylie	14.75%	0.00%	0.60%	-0.02%	0.00%	-0.07%	-0.02%	0.16%	0.65%	15.40%
1412	Yoakum	16.14%	0.00%	-0.11%	-0.07%	-0.04%	-0.20%	-0.07%	0.45%	-0.04%	16.10%
1414	Yorktown	0.85%	0.00%	0.19%	-0.06%	0.00%	0.00%	0.10%	0.10%	0.33%	1.18%
1415	Zavalla	0.09%	0.00%	1.43%	-0.03%	0.01%	0.20%	-0.03%	0.19%	1.77%	1.86%

## **SECTION 4**

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### **COMPARISON OF EXPECTED CITY CONTRIBUTION DOLLAR AMOUNTS FOR 2020 AND 2021**

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
4	Abernathy	\$685,593	3.85%	\$26,395	\$704,447	3.70%	\$26,065
6	Abilene	\$54,582,722	11.05%	\$6,031,391	\$56,083,747	10.97%	\$6,152,387
7	Addison	\$21,590,583	11.06%	\$2,387,918	\$22,184,324	11.38%	\$2,524,576
8	Agua Dulce	\$107,670	7.77%	\$8,366	\$110,631	7.64%	\$8,452
10	Alamo	\$5,378,220	6.30%	\$338,828	\$5,526,121	6.20%	\$342,620
12	Alamo Heights	\$5,848,625	16.91%	\$989,002	\$6,003,614	16.47%	\$988,795
14	Alba	\$231,663	12.60%	\$29,190	\$238,034	13.76%	\$32,753
16	Albany	\$643,000	5.48%	\$35,236	\$660,683	5.50%	\$36,338
17	Aledo	\$695,944	13.10%	\$91,169	\$715,082	13.79%	\$98,610
18	Alice	\$10,010,263	4.80%	\$480,493	\$10,245,504	4.58%	\$469,244
19	Allen	\$53,241,926	14.00%	\$7,453,870	\$54,706,079	14.38%	\$7,866,734
20	Alpine	\$3,521,209	0.88%	\$30,987	\$3,618,042	1.64%	\$59,336
22	Alto	\$489,862	10.75%	\$52,660	\$503,333	11.78%	\$59,293
23	Alton	\$3,456,829	12.64%	\$436,943	\$3,551,892	11.10%	\$394,260
24	Alvarado	\$3,163,392	5.36%	\$169,558	\$3,250,385	5.34%	\$173,571
26	Alvin	\$11,157,189	17.00%	\$1,896,722	\$11,464,012	17.33%	\$1,986,713
28	Alvord	\$311,171	5.78%	\$17,986	\$318,484	5.62%	\$17,899
30	Amarillo	\$92,839,411	12.21%	\$11,335,692	\$95,392,495	12.32%	\$11,752,355
32	Amherst	\$132,491	0.00%	\$0	\$134,810	0.00%	\$0
34	Anahuac	\$452,518	8.66%	\$39,188	\$460,437	8.59%	\$39,552
36	Andrews	\$4,892,886	15.98%	\$781,883	\$5,027,440	16.18%	\$813,440
38	Angleton	\$6,891,671	12.21%	\$841,473	\$7,081,192	12.05%	\$853,284
40	Anna	\$5,193,394	14.09%	\$731,749	\$5,336,212	14.09%	\$751,872
41	Annetta	\$98,181	8.82%	\$8,660	\$100,881	9.45%	\$9,533
44	Anson	\$878,215	0.57%	\$5,006	\$902,366	0.71%	\$6,407
45	Anthony	\$1,317,295	3.19%	\$42,022	\$1,353,521	2.88%	\$38,981
48	Aransas Pass	\$4,986,552	9.79%	\$488,183	\$5,123,682	9.87%	\$505,707
50	Archer City	\$840,710	4.25%	\$35,730	\$863,830	4.07%	\$35,158
49	Arcola	\$744,014	4.05%	\$30,133	\$764,474	3.93%	\$30,044
51	Argyle	\$2,148,152	13.42%	\$288,282	\$2,207,226	12.88%	\$284,291
52	Arlington	\$190,395,189	16.13%	\$30,710,744	\$195,631,057	16.68%	\$32,631,260
54	Arp	\$298,286	1.14%	\$3,400	\$306,489	1.71%	\$5,241
60	Aspermont	\$324,729	0.00%	\$0	\$332,035	0.00%	\$0
62	Athens	\$6,794,305	15.46%	\$1,050,400	\$6,981,148	16.45%	\$1,148,399
64	Atlanta	\$1,699,364	7.07%	\$120,145	\$1,739,299	6.97%	\$121,229
66	Aubrey	\$3,486,549	5.91%	\$206,055	\$3,582,429	5.64%	\$202,049
74	Avinger	\$63,355	2.02%	\$1,280	\$65,097	2.13%	\$1,387
75	Azle	\$7,693,555	12.50%	\$961,694	\$7,905,128	12.18%	\$962,845
77	Baird	\$479,725	1.08%	\$5,181	\$492,917	1.13%	\$5,570
78	Balch Springs	\$11,206,390	13.60%	\$1,524,069	\$11,514,566	13.42%	\$1,545,255
79	Balcones Heights	\$3,014,648	7.92%	\$238,760	\$3,097,551	7.83%	\$242,538
80	Ballinger	\$1,591,317	3.56%	\$56,651	\$1,635,078	3.18%	\$51,995
82	Balmorhea	\$34,119	0.00%	\$0	\$34,716	0.00%	\$0
83	Bandera	\$920,458	10.82%	\$99,594	\$945,771	11.31%	\$106,967
84	Bangs	\$487,532	12.33%	\$60,113	\$500,939	11.96%	\$59,912

\*Reflects phase-in, when applicable.

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
90	Bartlett	\$547,129	8.22%	\$44,974	\$559,439	6.98%	\$39,049
91	Bartonville	\$460,910	15.00%	\$69,137	\$473,585	15.97%	\$75,632
92	Bastrop	\$7,962,358	11.29%	\$898,950	\$8,181,323	11.47%	\$938,398
94	Bay City	\$7,756,696	9.62%	\$746,194	\$7,962,248	9.76%	\$777,115
93	Bayou Vista	\$333,488	2.66%	\$8,871	\$342,659	2.66%	\$9,115
96	Baytown	\$63,332,778	17.33%	\$10,975,570	\$65,074,429	17.67%	\$11,498,652
98	Beaumont	\$64,224,448	19.41%	\$12,465,965	\$65,926,396	19.84%	\$13,079,797
100	Bedford	\$24,313,005	8.92%	\$2,168,720	\$24,981,613	8.85%	\$2,210,873
101	Bee Cave	\$3,202,570	8.97%	\$287,271	\$3,290,641	9.14%	\$300,765
102	Beeville	\$4,344,195	0.43%	\$18,680	\$4,437,595	0.93%	\$41,270
106	Bellaire	\$11,874,246	20.20%	\$2,398,598	\$12,200,788	20.14%	\$2,457,239
109	Bellmead	\$3,725,032	8.63%	\$321,470	\$3,827,470	7.93%	\$303,518
110	Bells	\$399,114	2.88%	\$11,494	\$410,090	3.38%	\$13,861
112	Bellville	\$2,564,117	15.78%	\$404,618	\$2,629,502	16.62%	\$437,023
114	Belton	\$8,901,771	8.11%	\$721,934	\$9,146,570	8.12%	\$742,701
118	Benbrook	\$10,470,313	16.44%	\$1,721,319	\$10,758,247	16.58%	\$1,783,717
121	Berryville	\$103,655	3.39%	\$3,514	\$105,469	3.77%	\$3,976
123	Bertram	\$566,684	4.90%	\$27,768	\$582,268	4.28%	\$24,921
124	Big Lake	\$1,262,702	17.51%	\$221,099	\$1,297,426	18.26%	\$236,910
126	Big Sandy	\$412,083	2.49%	\$10,261	\$423,415	3.03%	\$12,829
128	Big Spring	\$9,460,350	17.44%	\$1,649,885	\$9,654,287	17.94%	\$1,731,979
132	Bishop	\$789,476	3.52%	\$27,790	\$811,187	3.02%	\$24,498
134	Blanco	\$1,026,785	6.55%	\$67,254	\$1,055,022	6.27%	\$66,150
140	Blooming Grove	\$164,558	10.78%	\$17,739	\$169,083	11.77%	\$19,901
142	Blossom	\$195,228	4.11%	\$8,024	\$200,597	4.70%	\$9,428
143	Blue Mound	\$1,118,696	4.68%	\$52,355	\$1,149,460	4.48%	\$51,496
144	Blue Ridge	\$246,518	1.79%	\$4,413	\$253,297	2.01%	\$5,091
148	Boerne	\$16,414,672	18.35%	\$3,012,092	\$16,866,075	18.75%	\$3,162,389
150	Bogata	\$343,149	0.14%	\$480	\$352,586	0.62%	\$2,186
152	Bonham	\$5,397,146	8.62%	\$465,234	\$5,545,568	9.31%	\$516,292
154	Booker	\$493,648	5.64%	\$27,842	\$505,249	5.75%	\$29,052
156	Borger	\$9,321,506	13.87%	\$1,292,893	\$9,577,847	13.15%	\$1,259,487
158	Bovina	\$390,619	0.23%	\$898	\$401,361	0.71%	\$2,850
160	Bowie	\$3,903,786	9.57%	\$373,592	\$3,979,910	9.48%	\$377,295
162	Boyd	\$855,475	4.10%	\$35,074	\$879,001	3.70%	\$32,523
166	Brady	\$4,454,020	9.83%	\$437,830	\$4,576,506	9.63%	\$440,718
170	Brazoria	\$1,247,957	5.64%	\$70,385	\$1,282,276	6.00%	\$76,937
172	Breckenridge	\$2,330,692	6.93%	\$161,517	\$2,380,802	6.96%	\$165,704
174	Bremond	\$288,954	15.97%	\$46,146	\$296,900	14.55%	\$43,199
176	Brenham	\$11,771,926	9.94%	\$1,170,129	\$12,095,654	10.01%	\$1,210,775
177	Bridge City	\$3,628,348	15.13%	\$548,969	\$3,728,128	14.76%	\$550,272
178	Bridgeport	\$3,140,860	13.67%	\$429,356	\$3,195,825	13.64%	\$435,911
180	Bronte	\$135,186	12.97%	\$17,534	\$137,552	12.73%	\$17,510
182	Brookshire	\$1,889,127	8.68%	\$163,976	\$1,941,078	8.85%	\$171,785
184	Brownfield	\$4,060,367	3.92%	\$159,166	\$4,172,027	4.04%	\$168,550

\*Reflects phase-in, when applicable.



**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
186	Brownsboro	\$303,774	10.41%	\$31,623	\$312,128	10.82%	\$33,772
10188	Brownsville	\$63,064,448	16.86%	\$10,632,666	\$64,798,720	17.00%	\$11,015,782
20188	Brownsville PUB	\$31,306,553	17.21%	\$5,387,858	\$32,167,483	17.57%	\$5,651,827
10190	Brownwood	\$10,496,593	13.37%	\$1,403,394	\$10,785,249	13.11%	\$1,413,946
30190	Brownwood Health Dept.	\$464,766	10.64%	\$49,451	\$477,547	11.53%	\$55,061
20190	Brownwood Public Library	\$183,372	4.44%	\$8,142	\$188,415	4.65%	\$8,761
195	Bruceville-Eddy	\$597,866	5.72%	\$34,198	\$614,307	5.10%	\$31,330
192	Bryan	\$62,743,020	15.19%	\$9,530,665	\$64,468,453	15.38%	\$9,915,248
193	Bryson	\$94,440	0.00%	\$0	\$97,037	0.06%	\$58
194	Buda	\$6,349,524	13.76%	\$873,695	\$6,524,136	13.76%	\$897,721
196	Buffalo	\$731,289	4.82%	\$35,248	\$744,818	4.23%	\$31,506
198	Bullard	\$1,236,705	9.93%	\$122,805	\$1,270,714	10.52%	\$133,679
203	Bulverde	\$1,639,158	10.00%	\$163,916	\$1,684,235	9.26%	\$155,960
199	Bunker Hill Village	\$689,736	10.18%	\$70,215	\$707,324	10.72%	\$75,825
200	Burkburnett	\$3,236,436	10.28%	\$332,706	\$3,325,438	10.20%	\$339,195
202	Burleson	\$24,796,197	15.47%	\$3,835,972	\$25,478,092	15.99%	\$4,073,947
204	Burnet	\$6,630,670	13.00%	\$861,987	\$6,813,013	12.84%	\$874,791
207	Cactus	\$2,078,755	5.18%	\$107,680	\$2,135,921	5.03%	\$107,437
208	Caddo Mills	\$628,671	5.79%	\$36,400	\$645,959	5.54%	\$35,786
210	Caldwell	\$2,279,619	8.13%	\$185,333	\$2,340,029	7.22%	\$168,950
212	Calvert	\$466,137	1.16%	\$5,407	\$478,956	1.40%	\$6,705
214	Cameron	\$1,844,755	10.29%	\$189,825	\$1,891,796	10.26%	\$194,098
216	Campbell	\$63,576	41.75%	\$26,543	\$65,324	41.09%	\$26,842
220	Canadian	\$1,062,856	17.10%	\$181,748	\$1,092,085	17.80%	\$194,391
221	Caney City	\$146,245	1.43%	\$2,091	\$150,267	2.62%	\$3,937
222	Canton	\$3,077,797	11.61%	\$357,332	\$3,162,436	11.78%	\$372,535
224	Canyon	\$5,892,031	14.12%	\$831,955	\$6,054,062	13.85%	\$838,488
227	Carmine	\$65,387	1.95%	\$1,275	\$66,597	0.21%	\$140
228	Carrizo Springs	\$1,644,188	5.33%	\$87,635	\$1,689,403	5.03%	\$84,977
230	Carrollton	\$60,008,765	12.12%	\$7,273,062	\$61,598,997	11.84%	\$7,293,321
232	Carthage	\$4,181,582	17.97%	\$751,430	\$4,279,849	18.54%	\$793,484
231	Castle Hills	\$3,515,930	12.38%	\$435,272	\$3,612,618	12.83%	\$463,499
234	Castroville	\$1,879,554	8.75%	\$164,461	\$1,931,242	8.54%	\$164,928
238	Cedar Hill	\$23,524,596	13.79%	\$3,244,042	\$24,171,522	14.09%	\$3,405,767
239	Cedar Park	\$33,459,309	14.36%	\$4,804,757	\$34,379,440	14.49%	\$4,981,581
240	Celeste	\$101,952	8.93%	\$9,104	\$104,756	5.30%	\$5,552
242	Celina	\$10,327,566	6.47%	\$668,194	\$10,611,574	6.27%	\$665,346
244	Center	\$3,292,994	12.40%	\$408,331	\$3,383,551	12.07%	\$408,395
246	Centerville	\$230,184	21.92%	\$50,456	\$236,514	20.27%	\$47,941
247	Chandler	\$1,162,451	6.14%	\$71,374	\$1,194,418	6.13%	\$73,218
248	Charlotte	\$351,122	3.79%	\$13,308	\$360,778	2.89%	\$10,426
249	Chester	\$36,311	0.62%	\$225	\$36,946	0.20%	\$74
245	Chico	\$253,883	4.26%	\$10,815	\$259,341	3.24%	\$8,403
250	Childress	\$2,064,240	15.51%	\$320,164	\$2,121,007	16.02%	\$339,785
251	Chillicothe	\$243,875	7.33%	\$17,876	\$250,582	7.31%	\$18,318

\*Reflects phase-in, when applicable.

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
253	Chireno	\$289,623	21.08%	\$61,053	\$297,588	22.13%	\$65,856
254	Christine	\$35,490	0.00%	\$0	\$36,466	0.00%	\$0
255	Cibolo	\$7,466,076	12.49%	\$932,513	\$7,671,393	12.50%	\$958,924
256	Cisco	\$1,447,808	6.39%	\$92,515	\$1,487,623	6.34%	\$94,315
258	Clarendon	\$543,080	1.39%	\$7,549	\$558,015	1.42%	\$7,924
259	Clarksville	\$894,031	1.56%	\$13,947	\$910,571	2.30%	\$20,943
260	Clarksville City	\$200,699	4.40%	\$8,831	\$206,218	3.89%	\$8,022
263	Clear Lake Shores	\$1,102,562	10.65%	\$117,423	\$1,132,882	10.77%	\$122,011
264	Cleburne	\$15,903,734	16.06%	\$2,554,140	\$16,309,279	16.07%	\$2,620,901
266	Cleveland	\$3,784,693	10.53%	\$398,528	\$3,881,203	10.50%	\$407,526
268	Clifton	\$1,165,945	1.93%	\$22,503	\$1,198,008	1.77%	\$21,205
271	Clute	\$5,130,334	10.29%	\$527,911	\$5,250,897	10.52%	\$552,394
272	Clyde	\$1,364,586	12.98%	\$177,123	\$1,402,112	13.06%	\$183,116
274	Coahoma	\$262,374	6.27%	\$16,451	\$269,589	6.48%	\$17,469
276	Cockrell Hill	\$1,515,554	8.08%	\$122,457	\$1,557,232	9.12%	\$142,020
278	Coleman	\$2,712,604	16.89%	\$458,159	\$2,779,063	16.92%	\$470,217
280	College Station	\$60,709,367	13.19%	\$8,007,566	\$62,378,875	13.30%	\$8,296,390
281	Colleyville	\$13,813,709	8.94%	\$1,234,946	\$14,193,586	9.39%	\$1,332,778
282	Collinsville	\$393,797	5.43%	\$21,383	\$404,626	5.35%	\$21,647
283	Colmesneil	\$155,545	9.05%	\$14,077	\$159,822	9.26%	\$14,800
284	Colorado City	\$1,696,805	8.04%	\$136,423	\$1,734,983	7.63%	\$132,379
286	Columbus	\$1,907,681	12.46%	\$237,697	\$1,960,142	11.97%	\$234,629
288	Comanche	\$1,194,892	4.97%	\$59,386	\$1,221,777	4.84%	\$59,134
289	Combes	\$598,935	6.92%	\$41,446	\$615,406	6.72%	\$41,355
290	Commerce	\$2,907,382	8.50%	\$247,127	\$2,972,798	7.90%	\$234,851
294	Conroe	\$31,275,974	16.24%	\$5,079,218	\$32,136,063	16.30%	\$5,238,178
295	Converse	\$8,624,117	13.72%	\$1,183,229	\$8,861,280	14.01%	\$1,241,465
298	Cooper	\$457,691	5.02%	\$22,976	\$470,278	5.41%	\$25,442
299	Coppell	\$31,336,362	15.57%	\$4,879,072	\$32,198,112	16.15%	\$5,199,995
297	Copper Canyon	\$197,409	11.69%	\$23,077	\$202,838	12.22%	\$24,787
300	Copperas Cove	\$12,569,008	12.06%	\$1,515,822	\$12,864,380	12.57%	\$1,617,053
301	Corinth	\$11,022,201	15.34%	\$1,690,806	\$11,314,289	15.45%	\$1,748,058
302	Corpus Christi	\$138,572,315	18.69%	\$25,899,166	\$141,828,764	17.95%	\$25,458,263
304	Corrigan	\$1,060,541	3.97%	\$42,103	\$1,089,706	3.43%	\$37,377
306	Corsicana	\$9,620,670	15.37%	\$1,478,697	\$9,798,652	14.77%	\$1,447,261
308	Cotulla	\$1,616,898	6.61%	\$106,877	\$1,661,363	6.45%	\$107,158
310	Crandall	\$1,618,568	10.68%	\$172,863	\$1,663,079	11.04%	\$183,604
312	Crane	\$1,411,374	8.01%	\$113,051	\$1,450,187	8.12%	\$117,755
314	Crawford	\$205,883	0.79%	\$1,626	\$211,545	0.98%	\$2,073
316	Crockett	\$2,298,712	8.09%	\$185,966	\$2,338,939	8.60%	\$201,149
318	Crosbyton	\$361,164	5.02%	\$18,130	\$371,096	4.15%	\$15,400
320	Cross Plains	\$395,273	8.16%	\$32,254	\$406,143	7.15%	\$29,039
321	Cross Roads	\$817,200	7.55%	\$61,699	\$839,673	7.46%	\$62,640
322	Crowell	\$173,907	5.53%	\$9,617	\$178,689	5.90%	\$10,543
323	Crowley	\$6,550,603	10.95%	\$717,291	\$6,730,745	11.33%	\$762,593

\*Reflects phase-in, when applicable.

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
324	Crystal City	\$1,491,603	0.61%	\$9,099	\$1,517,706	1.40%	\$21,248
326	Cuero	\$4,877,878	10.48%	\$511,202	\$5,012,020	10.66%	\$534,281
328	Cumby	\$424,625	1.91%	\$8,110	\$436,302	1.67%	\$7,286
332	Daingerfield	\$788,528	5.60%	\$44,158	\$810,213	5.65%	\$45,777
334	Daisetta	\$180,970	0.92%	\$1,665	\$184,137	0.88%	\$1,620
336	Dalhart	\$2,981,318	4.78%	\$142,507	\$3,063,304	4.99%	\$152,859
339	Dalworthington Gardens	\$1,653,786	20.99%	\$347,130	\$1,689,342	22.64%	\$382,467
340	Danbury	\$400,018	5.74%	\$22,961	\$411,018	6.04%	\$24,825
341	Darrouzett	\$84,639	4.13%	\$3,496	\$86,797	5.34%	\$4,635
344	Dayton	\$5,206,981	6.99%	\$363,968	\$5,350,173	6.58%	\$352,041
352	De Leon	\$464,588	1.76%	\$8,177	\$474,577	2.06%	\$9,776
10366	DeSoto	\$24,726,493	10.94%	\$2,705,078	\$25,406,472	11.06%	\$2,809,956
346	Decatur	\$6,437,649	14.30%	\$920,584	\$6,614,684	13.84%	\$915,472
348	Deer Park	\$21,385,931	13.78%	\$2,946,981	\$21,974,044	13.58%	\$2,984,075
350	Dekalb	\$565,193	2.43%	\$13,734	\$580,736	2.93%	\$17,016
354	Del Rio	\$20,197,392	7.45%	\$1,504,706	\$20,752,820	7.20%	\$1,494,203
353	Dell City	\$47,811	9.17%	\$4,384	\$49,078	12.82%	\$6,292
356	Denison	\$12,328,928	12.16%	\$1,499,198	\$12,667,974	11.64%	\$1,474,552
358	Denton	\$97,498,129	17.29%	\$16,857,427	\$100,179,328	17.61%	\$17,641,580
360	Denver City	\$1,445,316	11.17%	\$161,442	\$1,470,609	10.13%	\$148,973
362	Deport	\$109,352	1.88%	\$2,056	\$112,359	2.35%	\$2,640
370	Devine	\$2,140,932	16.62%	\$355,823	\$2,199,808	16.17%	\$355,709
371	Diboll	\$1,720,782	14.67%	\$252,439	\$1,750,896	15.25%	\$267,012
372	Dickens	\$73,918	1.97%	\$1,456	\$75,877	2.36%	\$1,791
373	Dickinson	\$5,468,647	9.49%	\$518,975	\$5,619,035	9.77%	\$548,980
374	Dilley	\$1,548,140	10.14%	\$156,981	\$1,590,714	9.41%	\$149,686
376	Dimmitt	\$1,000,724	4.02%	\$40,229	\$1,028,244	4.52%	\$46,477
382	Donna	\$5,933,972	11.06%	\$656,297	\$6,097,156	11.11%	\$677,394
379	Double Oak	\$675,663	8.28%	\$55,945	\$694,244	7.92%	\$54,984
383	Dripping Springs	\$1,482,964	5.97%	\$88,533	\$1,523,746	5.88%	\$89,596
385	Driscoll	\$188,891	1.95%	\$3,683	\$194,086	1.90%	\$3,688
384	Dublin	\$1,767,801	12.43%	\$219,738	\$1,816,416	12.59%	\$228,687
386	Dumas	\$5,925,353	12.85%	\$761,408	\$6,088,300	12.92%	\$786,608
388	Duncanville	\$18,131,265	7.67%	\$1,390,668	\$18,629,875	7.12%	\$1,326,447
394	Eagle Lake	\$1,189,599	9.92%	\$118,008	\$1,218,744	9.65%	\$117,609
396	Eagle Pass	\$17,811,676	8.54%	\$1,521,117	\$18,301,497	8.63%	\$1,579,419
397	Early	\$1,299,076	3.22%	\$41,830	\$1,334,801	3.59%	\$47,919
399	Earth	\$144,001	5.09%	\$7,330	\$147,385	6.42%	\$9,462
393	East Bernard	\$156,392	5.02%	\$7,851	\$160,693	5.31%	\$8,533
401	East Mountain	\$40,900	13.08%	\$5,350	\$41,616	13.71%	\$5,706
395	East Tawakoni	\$339,462	5.27%	\$17,890	\$348,797	6.22%	\$21,695
398	Eastland	\$1,898,141	8.98%	\$170,453	\$1,950,340	9.00%	\$175,531
402	Ector	\$180,384	1.94%	\$3,499	\$185,345	1.70%	\$3,151
406	Eden	\$255,175	2.94%	\$7,502	\$259,641	3.30%	\$8,568
408	Edgewood	\$404,161	6.09%	\$24,613	\$415,275	5.81%	\$24,127

\*Reflects phase-in, when applicable.

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
410	Edinburg	\$39,180,301	14.32%	\$5,610,619	\$40,257,759	14.48%	\$5,829,324
412	Edna	\$1,603,690	10.67%	\$171,114	\$1,636,566	10.23%	\$167,421
414	El Campo	\$6,318,950	13.73%	\$867,592	\$6,492,721	13.97%	\$907,033
416	Eldorado	\$904,449	7.21%	\$65,211	\$929,321	7.45%	\$69,234
418	Electra	\$1,034,884	2.35%	\$24,320	\$1,057,134	1.88%	\$19,874
420	Elgin	\$4,630,012	13.76%	\$637,090	\$4,757,337	13.81%	\$656,988
422	Elkhart	\$300,869	5.23%	\$15,735	\$307,639	4.29%	\$13,198
427	Elmendorf	\$886,588	1.58%	\$14,008	\$910,969	1.47%	\$13,391
432	Emory	\$1,060,595	6.74%	\$71,484	\$1,089,761	6.60%	\$71,924
436	Ennis	\$12,297,058	16.71%	\$2,054,838	\$12,635,227	16.73%	\$2,113,873
439	Eules	\$30,670,642	17.70%	\$5,428,704	\$31,514,085	18.02%	\$5,678,838
440	Eustace	\$396,796	10.63%	\$42,179	\$403,740	9.87%	\$39,849
441	Everman	\$2,280,699	9.39%	\$214,158	\$2,343,418	7.98%	\$187,005
443	Fair Oaks Ranch	\$3,802,539	11.71%	\$445,277	\$3,907,109	11.57%	\$452,053
442	Fairfield	\$1,639,686	7.17%	\$117,565	\$1,670,020	7.28%	\$121,577
445	Fairview	\$5,339,027	10.77%	\$575,013	\$5,485,850	11.08%	\$607,832
20444	Falfurrias	\$1,619,840	3.33%	\$53,941	\$1,664,386	3.00%	\$49,932
446	Falls City	\$172,344	7.85%	\$13,529	\$176,566	7.45%	\$13,154
448	Farmers Branch	\$30,962,006	19.00%	\$5,882,781	\$31,751,537	19.12%	\$6,070,894
450	Farmersville	\$2,185,090	8.74%	\$190,977	\$2,245,180	8.29%	\$186,125
451	Farwell	\$279,495	15.73%	\$43,965	\$287,181	16.77%	\$48,160
452	Fate	\$3,467,121	10.74%	\$372,369	\$3,562,467	10.21%	\$363,728
454	Fayetteville	\$125,884	3.22%	\$4,053	\$129,346	3.17%	\$4,100
456	Ferris	\$2,060,885	5.45%	\$112,318	\$2,117,559	5.19%	\$109,901
458	Flatonia	\$1,053,106	15.94%	\$167,865	\$1,082,066	15.77%	\$170,642
460	Florence	\$461,456	4.34%	\$20,027	\$474,146	4.30%	\$20,388
20462	Floresville	\$3,477,492	10.26%	\$356,791	\$3,573,123	9.39%	\$335,516
463	Flower Mound	\$41,455,732	10.77%	\$4,464,782	\$42,595,765	11.29%	\$4,809,062
464	Floydada	\$1,048,402	10.00%	\$104,840	\$1,074,088	9.97%	\$107,087
468	Forest Hill	\$5,805,007	12.82%	\$744,202	\$5,964,645	12.84%	\$765,860
470	Forney	\$11,083,267	13.80%	\$1,529,491	\$11,388,057	14.16%	\$1,612,549
472	Fort Stockton	\$5,856,406	9.64%	\$564,558	\$6,017,457	9.66%	\$581,286
476	Franklin	\$577,521	3.11%	\$17,961	\$593,403	3.31%	\$19,642
478	Frankston	\$524,903	1.45%	\$7,611	\$539,338	1.44%	\$7,766
480	Fredericksburg	\$10,597,897	16.22%	\$1,718,979	\$10,889,339	16.92%	\$1,842,476
482	Freeport	\$6,742,218	14.30%	\$964,137	\$6,927,629	14.21%	\$984,416
481	Freer	\$721,182	7.00%	\$50,483	\$735,245	6.57%	\$48,306
483	Friendswood	\$15,542,926	15.84%	\$2,461,999	\$15,970,356	16.55%	\$2,643,094
484	Friona	\$901,610	9.06%	\$81,686	\$922,798	9.17%	\$84,621
486	Frisco	\$98,939,109	14.07%	\$13,920,733	\$101,659,934	14.44%	\$14,679,694
487	Fritch	\$786,567	1.78%	\$14,001	\$808,198	2.28%	\$18,427
488	Frost	\$126,026	6.98%	\$8,797	\$128,231	6.47%	\$8,297
491	Fulshear	\$3,573,738	7.69%	\$274,820	\$3,672,016	7.26%	\$266,588
493	Fulton	\$230,366	22.59%	\$52,040	\$236,701	22.89%	\$54,181
492	Gainesville	\$12,110,211	12.17%	\$1,473,813	\$12,419,021	11.85%	\$1,471,654

\*Reflects phase-in, when applicable.

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
494	Galena Park	\$3,877,353	12.14%	\$470,711	\$3,983,980	10.75%	\$428,278
498	Ganado	\$502,048	13.16%	\$66,070	\$512,842	11.96%	\$61,336
499	Garden Ridge	\$1,726,890	7.39%	\$127,617	\$1,774,379	7.54%	\$133,788
500	Garland	\$161,867,402	11.03%	\$17,853,974	\$166,318,756	11.19%	\$18,611,069
502	Garrison	\$413,011	16.50%	\$68,147	\$424,369	15.08%	\$63,995
503	Gary	\$228,872	7.22%	\$16,525	\$234,250	5.59%	\$13,095
504	Gatesville	\$4,037,736	14.88%	\$600,815	\$4,148,774	14.70%	\$609,870
505	George West	\$1,336,045	5.79%	\$77,357	\$1,372,786	5.37%	\$73,719
506	Georgetown	\$50,877,501	12.13%	\$6,171,441	\$52,276,632	12.45%	\$6,508,441
510	Giddings	\$3,041,743	18.19%	\$553,293	\$3,125,391	18.17%	\$567,884
512	Gilmer	\$2,326,791	13.34%	\$310,394	\$2,390,778	13.39%	\$320,125
514	Gladewater	\$2,742,011	8.62%	\$236,361	\$2,817,416	8.30%	\$233,846
516	Glen Rose	\$1,278,766	14.60%	\$186,700	\$1,313,932	14.29%	\$187,761
517	Glenn Heights	\$4,582,544	2.87%	\$131,519	\$4,708,564	3.39%	\$159,620
518	Godley	\$605,046	2.63%	\$15,913	\$621,685	2.41%	\$14,983
519	Goldsmith	\$258,358	3.20%	\$8,267	\$265,463	2.04%	\$5,415
520	Goldthwaite	\$689,200	23.50%	\$161,962	\$703,329	24.00%	\$168,799
522	Goliad	\$689,225	4.99%	\$34,392	\$708,179	5.69%	\$40,295
524	Gonzales	\$4,699,757	10.45%	\$491,125	\$4,829,000	10.38%	\$501,250
527	Gordon	\$190,791	2.73%	\$5,209	\$196,038	2.28%	\$4,470
530	Gorman	\$244,855	9.17%	\$22,453	\$251,589	9.08%	\$22,844
532	Graford	\$136,939	2.87%	\$3,930	\$140,705	2.77%	\$3,898
10534	Graham	\$4,133,122	10.35%	\$427,778	\$4,238,517	10.69%	\$453,097
536	Granbury	\$9,280,396	15.67%	\$1,454,238	\$9,535,607	15.92%	\$1,518,069
540	Grand Prairie	\$102,525,371	16.83%	\$17,255,020	\$105,344,819	17.24%	\$18,161,447
542	Grand Saline	\$1,008,602	7.33%	\$73,931	\$1,029,278	7.44%	\$76,578
544	Grandview	\$872,773	6.50%	\$56,730	\$896,774	6.16%	\$55,241
546	Granger	\$430,649	6.58%	\$28,337	\$441,200	6.33%	\$27,928
547	Granite Shoals	\$1,822,927	4.80%	\$87,500	\$1,873,057	4.33%	\$81,103
548	Grapeland	\$271,113	4.10%	\$11,116	\$275,857	4.05%	\$11,172
550	Grapevine	\$47,819,036	18.53%	\$8,860,867	\$49,134,059	18.82%	\$9,247,030
552	Greenville	\$19,997,777	11.00%	\$2,199,755	\$20,547,716	11.32%	\$2,326,001
551	Gregory	\$480,858	3.96%	\$19,042	\$494,082	4.46%	\$22,036
553	Grey Forest	\$2,955,278	15.76%	\$465,752	\$3,036,548	16.45%	\$499,512
556	Groesbeck	\$1,302,939	2.50%	\$32,573	\$1,325,740	2.49%	\$33,011
558	Groom	\$239,832	2.71%	\$6,499	\$246,427	2.98%	\$7,344
559	Groves	\$6,801,548	9.13%	\$620,981	\$6,974,987	8.89%	\$620,076
560	Groveton	\$221,281	2.03%	\$4,492	\$227,366	1.95%	\$4,434
562	Gruver	\$255,244	14.01%	\$35,760	\$262,263	14.85%	\$38,946
563	Gun Barrel City	\$1,760,696	4.70%	\$82,753	\$1,796,790	4.85%	\$87,144
564	Gunter	\$531,260	4.14%	\$21,994	\$545,870	4.58%	\$25,001
568	Hale Center	\$456,198	4.87%	\$22,217	\$468,743	4.25%	\$19,922
570	Hallettsville	\$1,530,990	11.84%	\$181,269	\$1,573,092	12.42%	\$195,378
572	Hallsville	\$867,563	2.93%	\$25,420	\$891,421	2.80%	\$24,960
574	Haltom City	\$18,191,694	19.05%	\$3,465,518	\$18,601,007	19.01%	\$3,536,051

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**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
576	Hamilton	\$1,195,763	15.10%	\$180,560	\$1,228,646	13.87%	\$170,413
578	Hamlin	\$613,606	4.74%	\$29,085	\$629,253	4.17%	\$26,240
580	Happy	\$100,041	8.15%	\$8,153	\$101,792	7.96%	\$8,103
581	Harker Heights	\$13,321,180	14.77%	\$1,967,538	\$13,687,512	14.81%	\$2,027,121
10582	Harlingen	\$9,026,343	11.66%	\$1,052,472	\$9,026,343	10.32%	\$931,519
20582	Harlingen Waterworks Sys	\$5,746,055	1.92%	\$110,324	\$5,746,055	1.70%	\$97,683
583	Hart	\$160,788	3.97%	\$6,383	\$165,210	3.91%	\$6,460
586	Haskell	\$782,891	0.00%	\$0	\$803,638	0.00%	\$0
587	Haslet	\$1,542,517	8.63%	\$133,119	\$1,584,936	8.79%	\$139,316
588	Hawkins	\$405,994	6.06%	\$24,603	\$413,099	6.56%	\$27,099
585	Hays	\$39,253	8.43%	\$3,309	\$39,940	9.44%	\$3,770
590	Hearne	\$2,376,979	14.98%	\$356,071	\$2,442,346	14.92%	\$364,398
591	Heath	\$4,192,901	11.55%	\$484,280	\$4,308,206	12.00%	\$516,985
592	Hedley	\$33,852	2.45%	\$829	\$34,444	2.95%	\$1,016
595	Hedwig Village	\$2,138,447	7.33%	\$156,748	\$2,195,116	6.61%	\$145,097
593	Helotes	\$3,939,729	7.58%	\$298,631	\$4,048,072	7.14%	\$289,032
594	Hemphill	\$1,262,700	7.33%	\$92,556	\$1,297,424	7.49%	\$97,177
596	Hempstead	\$3,581,393	7.78%	\$278,632	\$3,679,881	7.74%	\$284,823
598	Henderson	\$6,724,149	16.11%	\$1,083,260	\$6,909,063	16.61%	\$1,147,595
600	Henrietta	\$734,713	14.74%	\$108,297	\$753,448	15.05%	\$113,394
602	Hereford	\$5,483,267	10.34%	\$566,970	\$5,634,057	10.45%	\$588,759
605	Hewitt	\$4,911,248	15.48%	\$760,261	\$5,046,307	16.41%	\$828,099
609	Hickory Creek	\$1,262,118	11.95%	\$150,823	\$1,285,467	13.69%	\$175,980
606	Hico	\$504,788	8.30%	\$41,897	\$518,670	8.49%	\$44,035
607	Hidalgo	\$6,127,541	12.66%	\$775,747	\$6,277,666	12.51%	\$785,336
608	Higgins	\$110,784	4.07%	\$4,509	\$113,831	3.95%	\$4,496
610	Highland Park	\$13,891,512	9.36%	\$1,300,246	\$14,273,529	9.33%	\$1,331,720
611	Highland Village	\$10,911,121	13.31%	\$1,452,270	\$11,211,177	13.56%	\$1,520,236
613	Hill Country Village	\$905,830	3.79%	\$34,331	\$930,740	3.85%	\$35,833
612	Hillsboro	\$5,033,694	11.28%	\$567,801	\$5,162,053	11.28%	\$582,280
619	Hilshire Village	\$123,744	10.98%	\$13,587	\$127,147	9.75%	\$12,397
614	Hitchcock	\$2,161,053	4.18%	\$90,332	\$2,220,482	4.13%	\$91,706
615	Holland	\$302,440	7.08%	\$21,413	\$310,757	5.75%	\$17,869
616	Holliday	\$388,520	2.64%	\$10,257	\$396,873	2.57%	\$10,200
617	Hollywood Park	\$2,237,148	8.81%	\$197,093	\$2,298,670	9.02%	\$207,340
618	Hondo	\$4,741,130	8.22%	\$389,721	\$4,871,511	8.35%	\$406,771
620	Honey Grove	\$434,516	7.29%	\$31,676	\$446,465	6.64%	\$29,645
622	Hooks	\$588,837	13.46%	\$79,257	\$605,030	13.52%	\$81,800
623	Horizon City	\$3,178,273	5.89%	\$187,200	\$3,265,676	5.75%	\$187,776
626	Howe	\$832,260	5.25%	\$43,694	\$855,147	4.87%	\$41,646
627	Hubbard	\$450,724	2.90%	\$13,071	\$461,316	2.87%	\$13,240
628	Hudson	\$623,195	4.17%	\$25,987	\$640,333	4.08%	\$26,126
629	Hudson Oaks	\$1,669,817	12.20%	\$203,718	\$1,715,737	12.12%	\$207,947
630	Hughes Springs	\$631,535	8.63%	\$54,501	\$645,113	8.36%	\$53,931
632	Humble	\$15,947,561	13.61%	\$2,170,463	\$16,386,119	13.31%	\$2,180,992

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**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
633	Hunters Creek Village	\$553,890	16.86%	\$93,386	\$569,122	18.57%	\$105,686
634	Huntington	\$800,880	14.27%	\$114,286	\$822,904	15.32%	\$126,069
636	Huntsville	\$14,509,419	18.58%	\$2,695,850	\$14,864,900	18.29%	\$2,718,790
637	Hurst	\$27,922,583	11.22%	\$3,132,914	\$28,690,454	11.68%	\$3,351,045
638	Hutchins	\$4,176,044	9.07%	\$378,767	\$4,290,885	9.05%	\$388,325
640	Hutto	\$10,968,855	12.04%	\$1,320,650	\$11,270,499	12.17%	\$1,371,620
641	Huxley	\$368,742	0.90%	\$3,319	\$378,882	0.78%	\$2,955
642	Idalou	\$603,943	4.05%	\$24,460	\$620,551	4.10%	\$25,443
643	Ingleside	\$3,784,123	8.87%	\$335,652	\$3,888,186	7.32%	\$284,615
646	Ingram	\$585,059	8.27%	\$48,384	\$601,148	7.93%	\$47,671
647	Iowa Colony	\$511,441	14.15%	\$72,369	\$525,506	8.30%	\$43,617
644	Iowa Park	\$1,888,369	14.76%	\$278,723	\$1,938,411	13.25%	\$256,839
645	Iraan	\$285,257	17.58%	\$50,148	\$293,102	18.23%	\$53,432
648	Irving	\$113,998,687	14.46%	\$16,484,210	\$117,133,651	14.71%	\$17,230,360
650	Italy	\$786,430	2.99%	\$23,514	\$808,057	2.99%	\$24,161
652	Itasca	\$716,796	10.70%	\$76,697	\$736,508	11.01%	\$81,090
654	Jacinto City	\$2,985,820	7.97%	\$237,970	\$3,067,930	7.53%	\$231,015
656	Jacksboro	\$1,956,474	14.92%	\$291,906	\$2,010,277	14.51%	\$291,691
658	Jacksonville	\$6,256,702	10.61%	\$663,836	\$6,422,505	10.68%	\$685,924
660	Jasper	\$6,057,287	9.09%	\$550,607	\$6,223,862	8.68%	\$540,231
664	Jefferson	\$724,137	0.89%	\$6,445	\$738,258	0.92%	\$6,792
665	Jersey Village	\$5,803,088	14.05%	\$815,334	\$5,962,673	13.75%	\$819,868
666	Jewett	\$251,825	10.60%	\$26,693	\$256,232	12.45%	\$31,901
668	Joaquin	\$282,231	4.56%	\$12,870	\$289,992	4.57%	\$13,253
670	Johnson City	\$810,852	9.78%	\$79,301	\$833,150	9.68%	\$80,649
673	Jones Creek	\$383,566	6.02%	\$23,091	\$394,114	5.55%	\$21,873
675	Jonestown	\$1,367,447	7.32%	\$100,097	\$1,405,052	7.52%	\$105,660
677	Josephine	\$562,562	5.95%	\$33,472	\$578,032	5.91%	\$34,162
671	Joshua	\$1,881,750	5.70%	\$107,260	\$1,933,498	5.76%	\$111,369
672	Jourdanton	\$1,492,258	6.08%	\$90,729	\$1,533,295	5.78%	\$88,624
674	Junction	\$988,964	14.53%	\$143,696	\$1,016,161	14.95%	\$151,916
676	Justin	\$1,994,819	7.43%	\$148,215	\$2,049,677	7.57%	\$155,161
678	Karnes City	\$1,304,796	8.74%	\$114,039	\$1,340,678	8.77%	\$117,577
680	Katy	\$16,728,551	13.62%	\$2,278,429	\$17,188,586	13.74%	\$2,361,712
682	Kaufman	\$3,193,381	14.78%	\$471,982	\$3,278,006	14.86%	\$487,112
683	Keene	\$2,407,580	13.01%	\$313,226	\$2,473,788	12.27%	\$303,534
681	Keller	\$20,141,041	15.83%	\$3,188,327	\$20,614,355	16.07%	\$3,312,727
685	Kemah	\$2,367,412	6.93%	\$164,062	\$2,427,781	6.28%	\$152,465
684	Kemp	\$786,649	5.79%	\$45,547	\$808,282	5.67%	\$45,830
686	Kenedy	\$2,379,703	3.93%	\$93,522	\$2,445,145	3.40%	\$83,135
688	Kennedale	\$4,219,434	13.57%	\$572,577	\$4,335,468	13.39%	\$580,519
690	Kerens	\$444,033	12.33%	\$54,749	\$456,244	12.05%	\$54,977
692	Kermit	\$2,774,045	15.71%	\$435,802	\$2,850,331	15.66%	\$446,362
10694	Kerrville	\$18,517,403	10.13%	\$1,875,813	\$19,026,632	10.47%	\$1,992,088
20694	Kerrville PUB	\$4,155,772	12.06%	\$501,186	\$4,265,900	11.96%	\$510,202

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**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
10696	Kilgore	\$8,197,392	13.78%	\$1,129,601	\$8,422,820	13.84%	\$1,165,718
698	Killeen	\$47,692,266	11.63%	\$5,546,611	\$49,003,803	11.33%	\$5,552,131
700	Kingsville	\$12,229,782	8.80%	\$1,076,221	\$12,566,101	8.37%	\$1,051,783
701	Kirby	\$2,592,021	14.77%	\$382,842	\$2,663,302	14.49%	\$385,912
702	Kirbyville	\$923,978	5.82%	\$53,776	\$948,463	5.91%	\$56,054
704	Knox City	\$362,184	2.37%	\$8,584	\$372,144	2.73%	\$10,160
706	Kosse	\$170,790	5.36%	\$9,154	\$175,487	4.48%	\$7,862
708	Kountze	\$1,058,521	1.38%	\$14,608	\$1,087,630	1.60%	\$17,402
709	Kress	\$30,743	0.00%	\$0	\$31,281	0.00%	\$0
699	Krugerville	\$637,158	8.17%	\$52,056	\$654,680	7.74%	\$50,672
707	Krum	\$2,197,335	6.57%	\$144,365	\$2,257,762	6.38%	\$144,045
710	Kyle	\$12,698,981	12.52%	\$1,589,912	\$13,048,203	12.99%	\$1,694,962
725	La Coste	\$353,347	1.78%	\$6,290	\$363,064	1.80%	\$6,535
714	La Feria	\$2,291,383	15.99%	\$366,392	\$2,354,396	15.71%	\$369,876
716	La Grange	\$3,094,287	14.06%	\$435,057	\$3,179,380	14.00%	\$445,113
723	La Grulla	\$515,156	5.13%	\$26,428	\$529,323	5.39%	\$28,531
732	La Joya	\$1,205,856	6.83%	\$82,360	\$1,239,017	6.89%	\$85,368
721	La Marque	\$6,885,152	13.92%	\$958,413	\$7,053,838	14.55%	\$1,026,333
728	La Porte	\$24,572,902	15.38%	\$3,779,312	\$25,248,657	15.34%	\$3,873,144
731	La Vernia	\$908,492	5.78%	\$52,511	\$933,476	5.52%	\$51,528
711	Lacy-Lakeview	\$2,217,915	14.40%	\$319,380	\$2,278,908	14.86%	\$338,646
712	Ladonia	\$59,817	3.26%	\$1,950	\$61,342	3.85%	\$2,362
713	Lago Vista	\$4,646,098	8.12%	\$377,263	\$4,773,866	7.86%	\$375,226
705	Laguna Vista	\$801,830	4.32%	\$34,639	\$823,880	4.08%	\$33,614
717	Lake Dallas	\$1,944,131	13.06%	\$253,904	\$1,997,595	13.47%	\$269,076
718	Lake Jackson	\$12,653,794	12.04%	\$1,523,517	\$13,001,773	11.41%	\$1,483,502
719	Lake Worth	\$5,858,512	16.05%	\$940,291	\$6,019,621	16.36%	\$984,810
727	Lakeport	\$219,431	0.00%	\$0	\$225,465	0.32%	\$721
715	Lakeside	\$914,531	11.12%	\$101,696	\$939,681	10.91%	\$102,519
729	Lakeside City	\$233,573	2.08%	\$4,858	\$239,996	1.85%	\$4,440
720	Lakeway	\$7,482,331	13.90%	\$1,040,044	\$7,688,095	13.63%	\$1,047,887
722	Lamesa	\$3,688,458	4.76%	\$175,571	\$3,789,891	4.64%	\$175,851
724	Lampasas	\$5,752,890	15.55%	\$894,574	\$5,911,094	15.54%	\$918,584
726	Lancaster	\$18,476,797	13.45%	\$2,485,129	\$18,947,955	13.90%	\$2,633,766
730	Laredo	\$121,023,641	20.77%	\$25,136,610	\$124,351,791	21.03%	\$26,151,182
733	Lavon	\$984,307	7.63%	\$75,103	\$1,011,375	7.30%	\$73,830
736	League City	\$36,184,258	14.72%	\$5,326,323	\$37,179,325	14.68%	\$5,457,925
737	Leander	\$20,678,966	12.04%	\$2,489,748	\$21,247,638	12.02%	\$2,553,966
735	Lefors	\$121,768	4.05%	\$4,932	\$125,117	3.65%	\$4,567
739	Leon Valley	\$6,846,206	17.12%	\$1,172,070	\$7,034,477	17.65%	\$1,241,585
738	Leonard	\$658,278	1.15%	\$7,570	\$676,381	0.88%	\$5,952
740	Levelland	\$5,290,535	11.44%	\$605,237	\$5,436,025	10.60%	\$576,219
742	Lewisville	\$58,844,804	16.57%	\$9,750,584	\$60,463,036	16.71%	\$10,103,373
744	Lexington	\$487,523	8.82%	\$43,000	\$500,930	9.82%	\$49,191
746	Liberty	\$4,929,183	17.48%	\$861,621	\$5,025,302	16.53%	\$830,682

\*Reflects phase-in, when applicable.



**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
745	Liberty Hill	\$2,170,058	7.08%	\$153,640	\$2,229,735	7.03%	\$156,750
748	Lindale	\$2,726,374	14.79%	\$403,231	\$2,801,349	15.16%	\$424,685
750	Linden	\$608,512	1.28%	\$7,789	\$625,246	1.01%	\$6,315
749	Lindsay	\$154,734	4.71%	\$7,288	\$158,989	4.86%	\$7,727
755	Lipan	\$158,986	2.46%	\$3,911	\$163,358	2.32%	\$3,790
751	Little Elm	\$18,255,089	13.47%	\$2,458,960	\$18,757,104	13.42%	\$2,517,203
752	Littlefield	\$2,452,426	8.93%	\$219,002	\$2,519,868	7.89%	\$198,818
753	Live Oak	\$7,053,207	18.26%	\$1,287,916	\$7,247,170	18.14%	\$1,314,637
757	Liverpool	\$235,760	1.94%	\$4,574	\$242,243	1.83%	\$4,433
754	Livingston	\$4,635,631	15.56%	\$721,304	\$4,763,111	16.17%	\$770,195
756	Llano	\$2,430,874	14.59%	\$354,665	\$2,495,292	13.45%	\$335,617
758	Lockhart	\$6,723,506	12.81%	\$861,281	\$6,908,402	12.47%	\$861,478
760	Lockney	\$280,782	0.00%	\$0	\$287,380	0.00%	\$0
765	Lone Star	\$460,860	2.54%	\$11,706	\$473,534	2.21%	\$10,465
766	Longview	\$35,056,083	10.86%	\$3,807,091	\$36,020,125	11.20%	\$4,034,254
768	Loraine	\$93,188	3.39%	\$3,159	\$94,912	2.69%	\$2,553
769	Lorena	\$736,160	10.78%	\$79,358	\$756,404	10.54%	\$79,725
770	Lorenzo	\$219,557	2.25%	\$4,940	\$225,595	1.94%	\$4,377
771	Los Fresnos	\$2,205,131	7.34%	\$161,857	\$2,265,772	7.25%	\$164,268
773	Lott	\$359,386	1.24%	\$4,456	\$368,191	1.33%	\$4,897
774	Lovelady	\$125,278	7.65%	\$9,584	\$128,723	7.62%	\$9,809
778	Lubbock	\$108,717,380	17.57%	\$19,101,644	\$111,707,108	17.47%	\$19,515,232
779	Lucas	\$2,552,348	12.50%	\$319,044	\$2,622,538	12.69%	\$332,800
782	Lufkin	\$17,640,379	16.17%	\$2,852,449	\$18,125,489	16.40%	\$2,972,580
784	Luling	\$3,926,371	8.60%	\$337,668	\$4,034,346	6.33%	\$255,374
785	Lumberton	\$2,472,836	15.98%	\$395,159	\$2,540,839	15.74%	\$399,928
786	Lyford	\$472,067	4.07%	\$19,213	\$485,049	2.83%	\$13,727
787	Lytle	\$1,261,814	10.23%	\$129,084	\$1,296,514	10.59%	\$137,301
790	Madisonville	\$1,604,860	9.49%	\$152,301	\$1,648,994	9.28%	\$153,027
791	Magnolia	\$1,588,387	5.40%	\$85,773	\$1,632,068	4.81%	\$78,502
792	Malakoff	\$1,428,288	7.64%	\$109,121	\$1,467,566	7.44%	\$109,187
796	Manor	\$4,385,072	9.11%	\$399,480	\$4,505,661	8.76%	\$394,696
798	Mansfield	\$38,645,682	15.39%	\$5,947,570	\$39,708,438	16.05%	\$6,373,204
799	Manvel	\$3,055,520	10.70%	\$326,941	\$3,139,547	9.97%	\$313,013
800	Marble Falls	\$7,512,572	10.95%	\$822,627	\$7,689,117	10.60%	\$815,046
802	Marfa	\$1,822,612	3.21%	\$58,506	\$1,872,734	3.20%	\$59,927
804	Marion	\$463,801	3.42%	\$15,862	\$476,556	4.46%	\$21,254
806	Marlin	\$2,038,301	8.71%	\$177,536	\$2,094,354	8.03%	\$168,177
808	Marquez	\$103,028	18.81%	\$19,380	\$105,861	18.09%	\$19,150
810	Marshall	\$9,007,503	16.12%	\$1,452,009	\$9,201,164	16.23%	\$1,493,349
812	Mart	\$571,042	2.03%	\$11,592	\$586,746	2.53%	\$14,845
813	Martindale	\$157,711	12.02%	\$18,957	\$162,048	10.30%	\$16,691
814	Mason	\$1,272,514	6.57%	\$83,604	\$1,307,508	6.12%	\$80,019
816	Matador	\$134,373	7.96%	\$10,696	\$137,262	7.43%	\$10,199
818	Mathis	\$2,093,883	3.64%	\$76,217	\$2,151,465	4.22%	\$90,792

\*Reflects phase-in, when applicable.

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
820	Maud	\$278,383	3.47%	\$9,660	\$286,039	3.49%	\$9,983
822	Maypearl	\$171,242	2.69%	\$4,606	\$175,780	1.20%	\$2,109
824	McAllen	\$76,635,648	8.66%	\$6,636,647	\$78,743,128	8.19%	\$6,449,062
826	McCamey	\$616,253	1.67%	\$10,291	\$633,200	2.31%	\$14,627
828	McGregor	\$2,924,752	9.65%	\$282,239	\$3,005,183	9.66%	\$290,301
830	McKinney	\$87,703,209	14.90%	\$13,067,778	\$90,115,047	14.93%	\$13,454,177
832	McLean	\$242,678	2.58%	\$6,261	\$249,352	2.45%	\$6,109
833	McLendon-Chisholm	\$502,194	1.52%	\$7,633	\$516,004	1.57%	\$8,101
834	Meadow	\$173,747	4.24%	\$7,367	\$178,525	4.23%	\$7,552
831	Meadowlakes	\$1,114,932	2.38%	\$26,535	\$1,145,593	2.40%	\$27,494
835	Meadows Place	\$1,791,729	10.12%	\$181,323	\$1,841,002	10.16%	\$187,046
837	Melissa	\$3,207,352	12.84%	\$411,824	\$3,295,554	12.63%	\$416,228
1501	Memorial Villages PD	\$3,453,524	11.61%	\$400,954	\$3,548,496	11.31%	\$401,335
840	Memphis	\$595,951	9.40%	\$56,019	\$612,340	10.46%	\$64,051
842	Menard	\$304,972	0.00%	\$0	\$311,834	0.00%	\$0
844	Mercedes	\$4,857,864	18.09%	\$878,788	\$4,991,455	16.73%	\$835,070
846	Meridian	\$480,872	2.96%	\$14,234	\$494,096	3.35%	\$16,552
848	Merkel	\$536,824	13.53%	\$72,632	\$551,587	13.87%	\$76,505
852	Mertzson	\$230,943	11.81%	\$27,274	\$237,294	11.06%	\$26,245
854	Mesquite	\$80,861,885	17.23%	\$13,932,503	\$83,085,587	17.64%	\$14,656,298
856	Mexia	\$4,193,258	12.11%	\$507,804	\$4,304,379	11.83%	\$509,208
858	Miami	\$100,812	11.46%	\$11,553	\$103,584	10.76%	\$11,146
860	Midland	\$50,641,677	14.41%	\$7,297,466	\$52,034,323	14.53%	\$7,560,587
862	Midlothian	\$16,846,697	14.76%	\$2,486,572	\$17,309,981	15.00%	\$2,596,497
863	Milano	\$33,722	11.49%	\$3,875	\$34,649	11.78%	\$4,082
864	Miles	\$146,485	0.00%	\$0	\$150,513	0.00%	\$0
865	Milford	\$281,095	8.43%	\$23,696	\$286,014	8.54%	\$24,426
868	Mineola	\$2,341,256	4.54%	\$106,293	\$2,405,641	5.05%	\$121,485
870	Mineral Wells	\$9,029,239	8.82%	\$796,379	\$9,277,543	8.58%	\$796,013
874	Mission	\$32,716,226	8.52%	\$2,787,422	\$33,615,922	8.75%	\$2,941,393
875	Missouri City	\$25,216,058	9.32%	\$2,350,137	\$25,909,500	8.92%	\$2,311,127
876	Monahans	\$4,058,963	7.36%	\$298,740	\$4,170,584	7.11%	\$296,529
887	Mont Belvieu	\$8,003,262	15.16%	\$1,213,295	\$8,223,352	13.92%	\$1,144,691
877	Montgomery	\$1,498,968	6.05%	\$90,688	\$1,540,190	5.70%	\$87,791
878	Moody	\$494,722	2.29%	\$11,329	\$508,327	2.23%	\$11,336
883	Morgan's Point	\$891,201	10.02%	\$89,298	\$906,797	10.26%	\$93,037
882	Morgan's Point Resort	\$1,396,465	11.82%	\$165,062	\$1,434,868	11.85%	\$170,032
884	Morton	\$380,516	4.03%	\$15,335	\$390,600	4.33%	\$16,913
886	Moulton	\$519,174	4.73%	\$24,557	\$531,894	4.17%	\$22,180
890	Mount Enterprise	\$67,112	2.46%	\$1,651	\$68,421	1.69%	\$1,156
892	Mt. Pleasant	\$8,503,355	14.98%	\$1,273,803	\$8,737,197	14.63%	\$1,278,252
894	Mt. Vernon	\$1,024,444	11.40%	\$116,787	\$1,052,616	11.39%	\$119,893
896	Muenster	\$554,323	1.64%	\$9,091	\$569,567	2.14%	\$12,189
898	Muleshoe	\$1,372,265	19.10%	\$262,103	\$1,408,630	19.60%	\$276,091
901	Munday	\$290,602	3.38%	\$9,822	\$298,594	3.44%	\$10,272

\*Reflects phase-in, when applicable.

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
903	Murphy	\$8,283,999	13.98%	\$1,158,103	\$8,511,809	14.24%	\$1,212,082
10904	Nacogdoches	\$17,450,228	14.15%	\$2,469,207	\$17,930,109	14.31%	\$2,565,799
906	Naples	\$317,295	2.17%	\$6,885	\$326,021	1.39%	\$4,532
907	Nash	\$1,087,962	17.54%	\$190,829	\$1,117,881	18.28%	\$204,349
905	Nassau Bay	\$2,822,204	15.74%	\$444,215	\$2,891,348	15.00%	\$433,702
909	Natalia	\$415,969	3.17%	\$13,186	\$427,408	2.77%	\$11,839
908	Navasota	\$3,349,985	7.60%	\$254,599	\$3,428,710	5.80%	\$198,865
910	Nederland	\$8,850,024	6.47%	\$572,597	\$9,093,400	7.22%	\$656,543
912	Needville	\$946,575	4.21%	\$39,851	\$972,606	3.92%	\$38,126
914	New Boston	\$1,501,446	2.07%	\$31,080	\$1,542,736	1.35%	\$20,827
10916	New Braunfels	\$42,537,240	16.85%	\$7,167,525	\$43,707,014	16.92%	\$7,395,227
20916	New Braunfels Utilities	\$20,180,697	17.22%	\$3,475,116	\$20,735,666	17.79%	\$3,688,875
915	New Deal	\$222,747	0.72%	\$1,604	\$227,759	0.87%	\$1,982
923	New Fairview	\$82,199	10.40%	\$8,549	\$84,459	11.33%	\$9,569
918	New London	\$368,476	3.39%	\$12,491	\$376,767	3.44%	\$12,961
919	New Summerfield	\$382,137	7.70%	\$29,425	\$391,881	7.61%	\$29,822
917	New Waverly	\$211,432	13.44%	\$28,416	\$216,189	16.47%	\$35,606
913	Newark	\$281,525	2.95%	\$8,305	\$289,267	2.25%	\$6,509
920	Newton	\$1,083,074	21.14%	\$228,962	\$1,112,859	21.46%	\$238,820
922	Nixon	\$715,503	0.64%	\$4,579	\$735,179	0.67%	\$4,926
924	Nocona	\$858,164	10.11%	\$86,760	\$873,182	10.27%	\$89,676
925	Nolanville	\$672,458	2.12%	\$14,256	\$690,951	1.94%	\$13,404
928	Normangee	\$228,837	0.87%	\$1,991	\$235,130	3.09%	\$7,266
931	North Richland Hills	\$38,572,310	16.34%	\$6,302,715	\$39,633,049	16.83%	\$6,670,242
930	Northlake	\$2,519,004	9.97%	\$251,145	\$2,588,277	9.83%	\$254,428
935	O'Donnell	\$166,530	7.47%	\$12,440	\$169,444	5.09%	\$8,625
936	Oak Point	\$2,052,294	7.49%	\$153,717	\$2,108,732	7.17%	\$151,196
937	Oak Ridge North	\$2,601,838	11.40%	\$296,610	\$2,673,389	11.56%	\$309,044
942	Odem	\$650,347	9.70%	\$63,084	\$668,232	8.17%	\$54,595
944	Odessa	\$43,313,432	13.44%	\$5,821,325	\$44,504,551	13.87%	\$6,172,781
945	Oglesby	\$53,613	1.07%	\$574	\$55,087	1.43%	\$788
949	Old River-Winfree	\$37,391	0.00%	\$0	\$38,045	0.00%	\$0
950	Olmos Park	\$1,967,792	2.65%	\$52,146	\$2,021,906	2.99%	\$60,455
951	Olney	\$871,587	6.90%	\$60,140	\$886,840	6.76%	\$59,950
953	Omaha	\$223,583	5.14%	\$11,492	\$229,732	4.91%	\$11,280
954	Onalaska	\$505,276	2.09%	\$10,560	\$519,171	2.42%	\$12,564
958	Orange	\$9,434,825	15.16%	\$1,430,319	\$9,694,283	14.76%	\$1,430,876
960	Orange Grove	\$390,402	7.20%	\$28,109	\$399,967	7.70%	\$30,797
959	Ore City	\$403,693	1.02%	\$4,118	\$414,795	1.13%	\$4,687
962	Overton	\$805,751	3.16%	\$25,462	\$827,909	3.78%	\$31,295
961	Ovilla	\$1,345,382	9.83%	\$132,251	\$1,382,380	9.72%	\$134,367
963	Oyster Creek	\$1,168,662	10.76%	\$125,748	\$1,200,800	11.19%	\$134,370
964	Paducah	\$190,753	0.00%	\$0	\$194,091	0.00%	\$0
966	Palacios	\$1,561,332	17.27%	\$269,642	\$1,604,269	16.76%	\$268,875
968	Palestine	\$8,415,682	13.58%	\$1,142,850	\$8,647,113	13.98%	\$1,208,866

\*Reflects phase-in, when applicable.

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
970	Palmer	\$1,185,183	11.04%	\$130,844	\$1,217,776	11.06%	\$134,686
969	Palmhurst	\$1,129,722	5.73%	\$64,733	\$1,160,789	5.53%	\$64,192
971	Palmview	\$3,152,839	1.99%	\$62,741	\$3,239,542	1.72%	\$55,720
972	Pampa	\$7,770,175	21.48%	\$1,669,034	\$7,983,855	21.79%	\$1,739,682
974	Panhandle	\$891,980	11.25%	\$100,348	\$915,617	11.04%	\$101,084
973	Panorama Village	\$739,425	6.28%	\$46,436	\$759,759	5.25%	\$39,887
975	Pantego	\$2,811,603	17.17%	\$482,752	\$2,888,922	15.86%	\$458,183
976	Paris	\$12,460,749	7.18%	\$894,682	\$12,766,037	6.78%	\$865,537
977	Parker	\$1,629,792	12.90%	\$210,243	\$1,674,611	13.23%	\$221,551
978	Pasadena	\$69,140,595	13.46%	\$9,306,324	\$71,041,961	13.24%	\$9,405,956
983	Pearland	\$50,008,992	13.14%	\$6,571,182	\$51,384,239	13.10%	\$6,731,335
984	Pearsall	\$2,815,506	4.69%	\$132,047	\$2,892,932	4.32%	\$124,975
988	Pecos City	\$7,592,448	6.14%	\$466,176	\$7,801,240	6.37%	\$496,939
989	Pelican Bay	\$491,154	4.35%	\$21,365	\$504,661	4.13%	\$20,842
991	Penitas	\$1,503,056	4.11%	\$61,776	\$1,544,390	3.97%	\$61,312
994	Perryton	\$3,898,565	14.96%	\$583,225	\$4,005,776	11.86%	\$475,085
1000	Pflugerville	\$21,241,111	13.46%	\$2,859,054	\$21,825,242	13.29%	\$2,900,575
1002	Pharr	\$31,228,717	7.86%	\$2,454,577	\$32,087,507	7.47%	\$2,396,937
1004	Pilot Point	\$2,787,572	11.50%	\$320,571	\$2,864,230	11.63%	\$333,110
1005	Pinehurst	\$1,195,184	19.82%	\$236,885	\$1,226,856	19.78%	\$242,672
1003	Pineland	\$441,374	6.24%	\$27,542	\$453,512	4.00%	\$18,140
1001	Piney Point Village	\$445,127	6.92%	\$30,803	\$457,368	6.76%	\$30,918
1006	Pittsburg	\$1,621,938	13.36%	\$216,691	\$1,666,541	12.81%	\$213,484
1007	Plains	\$393,086	4.22%	\$16,588	\$403,896	4.59%	\$18,539
1008	Plainview	\$6,402,953	12.27%	\$785,642	\$6,559,825	11.81%	\$774,715
1010	Plano	\$178,960,042	16.71%	\$29,904,223	\$183,881,443	16.68%	\$30,671,425
1012	Pleasanton	\$5,749,382	15.22%	\$875,056	\$5,907,490	15.18%	\$896,757
1013	Point	\$377,417	13.12%	\$49,517	\$387,796	12.92%	\$50,103
1017	Ponder	\$829,356	6.22%	\$51,586	\$852,163	5.77%	\$49,170
1014	Port Aransas	\$5,894,098	11.67%	\$687,841	\$6,056,186	11.38%	\$689,194
11016	Port Arthur	\$38,917,988	13.74%	\$5,347,332	\$39,988,233	13.92%	\$5,566,362
1018	Port Isabel	\$2,495,840	3.68%	\$91,847	\$2,564,476	4.01%	\$102,835
1020	Port Lavaca	\$3,954,586	5.89%	\$232,925	\$4,063,337	5.76%	\$234,048
1022	Port Neches	\$7,402,493	13.38%	\$990,454	\$7,606,062	13.93%	\$1,059,524
1019	Portland	\$7,821,410	13.18%	\$1,030,862	\$8,036,499	13.22%	\$1,062,425
1024	Post	\$816,423	14.26%	\$116,422	\$838,875	13.78%	\$115,597
1026	Poteet	\$1,025,543	2.14%	\$21,947	\$1,053,745	2.75%	\$28,978
1028	Poth	\$399,575	4.27%	\$17,062	\$410,563	4.61%	\$18,927
1030	Pottsboro	\$1,021,055	6.75%	\$68,921	\$1,049,134	6.75%	\$70,817
1031	Prairie View	\$898,213	4.28%	\$38,444	\$922,914	3.04%	\$28,057
1032	Premont	\$542,556	0.00%	\$0	\$556,391	0.00%	\$0
1029	Presidio	\$1,600,366	0.75%	\$12,003	\$1,644,376	0.80%	\$13,155
1033	Primera	\$596,360	0.00%	\$0	\$612,760	0.65%	\$3,983
1034	Princeton	\$5,210,407	10.75%	\$560,119	\$5,353,693	11.41%	\$610,856
1036	Prosper	\$15,989,474	13.54%	\$2,164,975	\$16,429,185	13.74%	\$2,257,370

\*Reflects phase-in, when applicable.

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
1037	Providence Village	\$512,548	7.59%	\$38,902	\$526,643	6.91%	\$36,391
1042	Quanah	\$507,454	9.08%	\$46,077	\$516,334	8.94%	\$46,160
1045	Queen City	\$591,120	1.71%	\$10,108	\$607,376	1.60%	\$9,718
1044	Quinlan	\$767,191	9.96%	\$76,412	\$788,289	9.69%	\$76,385
1047	Quintana	\$195,029	4.11%	\$8,016	\$200,392	4.23%	\$8,477
1046	Quitaque	\$132,563	4.60%	\$6,098	\$136,208	4.37%	\$5,952
1048	Quitman	\$1,082,224	5.57%	\$60,280	\$1,111,985	5.71%	\$63,494
1050	Ralls	\$405,634	7.75%	\$31,437	\$416,789	7.35%	\$30,634
1051	Rancho Viejo	\$591,260	6.71%	\$39,674	\$607,520	5.46%	\$33,171
1052	Ranger	\$833,261	7.89%	\$65,744	\$853,676	7.76%	\$66,245
1054	Rankin	\$237,435	0.71%	\$1,686	\$243,964	0.96%	\$2,342
1055	Ransom Canyon	\$650,603	15.74%	\$102,405	\$668,495	14.39%	\$96,196
1058	Raymondville	\$2,324,590	0.98%	\$22,781	\$2,388,516	1.49%	\$35,589
1061	Red Oak	\$7,335,545	7.10%	\$520,824	\$7,537,272	6.77%	\$510,273
1062	Redwater	\$285,262	3.19%	\$9,100	\$293,107	2.82%	\$8,266
1064	Refugio	\$1,219,199	0.00%	\$0	\$1,252,727	0.00%	\$0
1065	Reklaw	\$220,652	16.76%	\$36,981	\$226,279	15.92%	\$36,024
1066	Reno (Lamar County)	\$676,709	4.40%	\$29,775	\$695,318	5.12%	\$35,600
1069	Reno (Parker County)	\$801,533	4.11%	\$32,943	\$823,575	3.28%	\$27,013
1067	Rhome	\$866,475	7.12%	\$61,693	\$890,303	6.42%	\$57,157
1068	Rice	\$443,148	1.20%	\$5,318	\$455,335	1.22%	\$5,555
1070	Richardson	\$77,952,017	14.72%	\$11,474,537	\$80,095,697	14.80%	\$11,854,163
1073	Richland Hills	\$4,888,858	15.63%	\$764,129	\$5,023,302	16.05%	\$806,240
1076	Richmond	\$9,777,096	14.63%	\$1,430,389	\$10,045,966	15.13%	\$1,519,955
1077	Richwood	\$1,393,712	11.09%	\$154,563	\$1,432,039	11.17%	\$159,959
1072	Riesel	\$367,845	5.83%	\$21,445	\$377,961	5.67%	\$21,430
1075	Rio Grande City	\$5,393,535	6.83%	\$368,378	\$5,541,857	6.96%	\$385,713
1079	Rio Vista	\$312,269	4.33%	\$13,521	\$317,734	4.06%	\$12,900
1080	Rising Star	\$192,639	0.06%	\$116	\$197,937	0.00%	\$0
1082	River Oaks	\$2,829,096	14.39%	\$407,107	\$2,901,238	14.81%	\$429,673
1084	Roanoke	\$11,086,402	17.34%	\$1,922,382	\$11,391,278	17.46%	\$1,988,917
1088	Robert Lee	\$187,392	5.53%	\$10,363	\$191,421	3.84%	\$7,351
1089	Robinson	\$3,785,991	13.59%	\$514,516	\$3,890,106	13.50%	\$525,164
21090	Robstown	\$5,618,930	5.79%	\$325,336	\$5,773,451	5.52%	\$318,694
11090	Robstown Utility Systems	\$2,491,683	12.72%	\$316,942	\$2,550,238	12.49%	\$318,525
1092	Roby	\$76,650	3.26%	\$2,499	\$77,991	4.62%	\$3,603
1096	Rockdale	\$2,106,714	8.99%	\$189,394	\$2,164,649	8.25%	\$178,584
1098	Rockport	\$6,631,297	17.87%	\$1,185,013	\$6,813,658	17.35%	\$1,182,170
1100	Rocksprings	\$239,170	1.31%	\$3,133	\$244,790	1.60%	\$3,917
1102	Rockwall	\$21,557,292	15.45%	\$3,330,602	\$22,150,118	15.24%	\$3,375,678
1104	Rogers	\$311,854	8.68%	\$27,069	\$317,311	9.42%	\$29,891
1105	Rollingwood	\$1,036,720	11.88%	\$123,162	\$1,065,230	11.30%	\$120,371
1106	Roma	\$4,136,677	10.19%	\$421,527	\$4,250,436	10.24%	\$435,245
1109	Roscoe	\$354,619	2.30%	\$8,156	\$364,371	1.88%	\$6,850
1112	Rosebud	\$426,059	1.95%	\$8,308	\$437,776	1.83%	\$8,011

\*Reflects phase-in, when applicable.

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
1114	Rosenberg	\$17,525,639	16.19%	\$2,837,401	\$18,007,594	16.29%	\$2,933,437
1116	Rotan	\$281,792	0.00%	\$0	\$288,696	0.00%	\$0
1118	Round Rock	\$69,141,943	15.35%	\$10,613,288	\$71,043,346	15.84%	\$11,253,266
1119	Rowlett	\$28,499,621	13.05%	\$3,719,201	\$29,283,361	13.03%	\$3,815,622
1120	Royse City	\$4,605,661	15.35%	\$706,969	\$4,732,317	15.47%	\$732,089
1122	Rule	\$89,855	2.17%	\$1,950	\$91,427	1.59%	\$1,454
1123	Runaway Bay	\$730,268	1.73%	\$12,634	\$750,350	2.33%	\$17,483
1124	Runge	\$100,657	18.66%	\$18,783	\$103,425	21.06%	\$21,781
1126	Rusk	\$1,831,457	6.01%	\$110,071	\$1,881,822	6.14%	\$115,544
1128	Sabinal	\$439,197	3.24%	\$14,230	\$448,201	2.26%	\$10,129
1129	Sachse	\$10,185,908	14.64%	\$1,491,217	\$10,466,020	14.65%	\$1,533,272
1131	Saginaw	\$9,324,728	21.67%	\$2,020,669	\$9,581,158	21.11%	\$2,022,582
1130	Saint Jo	\$192,877	2.54%	\$4,899	\$196,252	3.71%	\$7,281
1133	Salado	\$544,904	5.70%	\$31,060	\$559,889	6.17%	\$34,545
1132	San Angelo	\$37,751,432	17.43%	\$6,580,075	\$38,751,845	17.33%	\$6,715,695
21136	San Antonio	\$411,698,127	11.94%	\$49,156,756	\$423,019,825	11.98%	\$50,677,775
11136	San Antonio Water System	\$116,665,163	3.64%	\$4,246,612	\$119,873,455	3.74%	\$4,483,267
1138	San Augustine	\$1,190,234	8.19%	\$97,480	\$1,217,014	8.73%	\$106,245
1140	San Benito	\$6,275,367	5.27%	\$330,712	\$6,441,664	4.99%	\$321,439
1144	San Felipe	\$166,166	4.62%	\$7,677	\$169,739	5.05%	\$8,572
1148	San Juan	\$9,332,289	4.65%	\$433,951	\$9,588,927	4.39%	\$420,954
1150	San Marcos	\$46,585,960	17.29%	\$8,054,712	\$47,867,074	17.88%	\$8,558,633
1152	San Saba	\$1,865,796	8.46%	\$157,846	\$1,917,105	8.33%	\$159,695
1146	Sanger	\$4,130,010	8.16%	\$337,009	\$4,243,585	8.56%	\$363,251
1153	Sansom Park	\$1,404,894	6.03%	\$84,715	\$1,443,529	6.81%	\$98,304
1155	Santa Fe	\$3,458,472	11.83%	\$409,137	\$3,553,580	12.18%	\$432,826
1158	Savoy	\$114,995	0.00%	\$0	\$117,007	0.84%	\$983
1159	Schertz	\$20,301,576	15.80%	\$3,207,649	\$20,859,869	16.30%	\$3,400,159
1160	Schulenburg	\$1,979,571	21.50%	\$425,608	\$2,034,009	20.30%	\$412,904
1161	Seabrook	\$7,255,824	15.88%	\$1,152,225	\$7,455,359	16.13%	\$1,202,549
1162	Seadrift	\$618,939	3.64%	\$22,529	\$635,960	3.30%	\$20,987
1164	Seagoville	\$5,432,024	10.94%	\$594,263	\$5,581,405	11.10%	\$619,536
1166	Seagraves	\$741,950	10.22%	\$75,827	\$762,354	10.09%	\$76,922
1167	Sealy	\$3,683,349	14.86%	\$547,346	\$3,784,641	13.31%	\$503,736
1168	Seguin	\$22,349,476	22.22%	\$4,966,054	\$22,964,087	22.22%	\$5,102,620
1169	Selma	\$5,860,317	14.64%	\$857,950	\$6,021,476	15.14%	\$911,651
1170	Seminole	\$3,051,181	12.03%	\$367,057	\$3,135,088	12.15%	\$380,913
1171	Seven Points	\$617,143	1.11%	\$6,850	\$634,114	1.61%	\$10,209
1172	Seymour	\$1,133,062	7.20%	\$81,580	\$1,164,221	7.40%	\$86,152
1165	Shady Shores	\$116,814	9.51%	\$11,109	\$120,026	10.18%	\$12,219
1177	Shallowater	\$633,449	4.56%	\$28,885	\$650,869	4.57%	\$29,745
1174	Shamrock	\$515,877	8.75%	\$45,139	\$529,548	9.54%	\$50,519
1173	Shavano Park	\$3,024,001	13.35%	\$403,704	\$3,107,161	13.74%	\$426,924
1175	Shenandoah	\$3,844,780	18.24%	\$701,288	\$3,912,064	18.59%	\$727,253
1181	Shepherd	\$334,407	2.59%	\$8,661	\$343,603	2.41%	\$8,281

\*Reflects phase-in, when applicable.

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
1176	Sherman	\$27,761,227	14.34%	\$3,980,960	\$28,524,661	14.49%	\$4,133,223
1178	Shiner	\$1,478,766	12.02%	\$177,748	\$1,519,432	10.81%	\$164,251
1179	Shoreacres	\$593,917	4.49%	\$26,667	\$608,468	4.93%	\$29,997
1180	Silsbee	\$3,253,407	18.97%	\$617,171	\$3,342,876	18.65%	\$623,446
1182	Silverton	\$157,310	5.39%	\$8,479	\$161,636	5.55%	\$8,971
1183	Simonton	\$128,205	2.40%	\$3,077	\$131,731	2.55%	\$3,359
1184	Sinton	\$2,227,921	12.33%	\$274,703	\$2,289,189	12.29%	\$281,341
1185	Skellytown	\$175,867	1.91%	\$3,359	\$180,703	2.41%	\$4,355
1186	Slaton	\$2,048,209	6.79%	\$139,073	\$2,092,245	6.75%	\$141,227
1188	Smithville	\$2,738,716	6.94%	\$190,067	\$2,814,031	7.06%	\$198,671
1189	Smyer	\$80,963	9.68%	\$7,837	\$83,189	10.47%	\$8,710
1190	Snyder	\$5,042,877	13.63%	\$687,344	\$5,181,556	13.74%	\$711,946
1191	Somerset	\$457,959	2.68%	\$12,273	\$470,553	2.34%	\$11,011
1192	Somerville	\$619,577	4.25%	\$26,332	\$636,615	5.01%	\$31,894
1194	Sonora	\$1,251,583	8.45%	\$105,759	\$1,286,002	8.92%	\$114,711
1196	Sour Lake	\$715,008	5.23%	\$37,395	\$734,671	5.72%	\$42,023
1198	South Houston	\$5,857,703	9.83%	\$575,812	\$6,018,790	9.67%	\$582,017
1199	South Padre Island	\$8,812,268	12.93%	\$1,139,426	\$9,054,605	12.55%	\$1,136,353
1197	Southlake	\$26,010,217	12.45%	\$3,238,272	\$26,725,498	12.39%	\$3,311,289
1200	Southmayd	\$312,227	5.17%	\$16,142	\$320,813	3.60%	\$11,549
1202	Southside Place	\$1,591,560	11.61%	\$184,780	\$1,635,328	11.35%	\$185,610
1204	Spearman	\$1,160,635	11.38%	\$132,080	\$1,192,552	10.98%	\$130,942
1201	Splendora	\$1,210,197	5.59%	\$67,650	\$1,243,477	5.45%	\$67,769
1205	Spring Valley Village	\$3,030,953	6.91%	\$209,439	\$3,114,304	6.67%	\$207,724
1203	Springtown	\$1,851,376	9.31%	\$172,363	\$1,902,289	9.49%	\$180,527
1206	Spur	\$294,672	5.17%	\$15,235	\$302,775	5.21%	\$15,775
1207	Stafford	\$10,870,344	14.13%	\$1,535,980	\$11,169,278	14.05%	\$1,569,284
1208	Stamford	\$1,054,822	4.96%	\$52,319	\$1,073,281	4.73%	\$50,766
1210	Stanton	\$1,332,835	7.66%	\$102,095	\$1,369,488	5.69%	\$77,924
1211	Star Harbor	\$169,784	10.70%	\$18,167	\$173,095	10.63%	\$18,400
1212	Stephenville	\$9,183,455	6.67%	\$612,536	\$9,436,000	7.05%	\$665,238
1213	Sterling City	\$272,754	1.11%	\$3,028	\$280,255	1.18%	\$3,307
1214	Stinnett	\$801,968	0.00%	\$0	\$824,022	0.10%	\$824
1216	Stockdale	\$378,131	5.53%	\$20,911	\$388,530	4.75%	\$18,455
1218	Stratford	\$662,596	5.17%	\$34,256	\$680,817	4.88%	\$33,224
1224	Sudan	\$398,610	1.79%	\$7,135	\$409,572	1.04%	\$4,260
1225	Sugar Land	\$56,300,584	14.60%	\$8,219,885	\$57,848,850	14.43%	\$8,347,589
1226	Sulphur Springs	\$8,837,693	8.18%	\$722,923	\$9,080,730	7.46%	\$677,422
1228	Sundown	\$528,013	11.75%	\$62,042	\$542,005	12.15%	\$65,854
1229	Sunnyvale	\$2,766,323	11.56%	\$319,787	\$2,842,397	11.97%	\$340,235
1230	Sunray	\$558,797	14.44%	\$80,690	\$574,164	14.94%	\$85,780
1227	Sunrise Beach Village	\$521,850	1.34%	\$6,993	\$536,201	1.40%	\$7,507
1231	Sunset Valley	\$2,113,932	13.18%	\$278,616	\$2,172,065	13.97%	\$303,437
1233	Surfside Beach	\$877,140	1.34%	\$11,754	\$901,261	1.41%	\$12,708
1232	Sweeny	\$1,054,630	17.11%	\$180,447	\$1,083,632	15.83%	\$171,539

\*Reflects phase-in, when applicable.

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
1234	Sweetwater	\$5,979,411	17.73%	\$1,060,150	\$6,143,845	16.35%	\$1,004,519
1264	TMRS	\$12,704,136	15.74%	\$1,999,631	\$13,053,500	15.50%	\$2,023,293
1236	Taft	\$1,060,450	17.88%	\$189,608	\$1,087,491	16.52%	\$179,654
1238	Tahoka	\$759,537	0.00%	\$0	\$780,424	0.50%	\$3,902
1240	Talty	\$130,081	14.92%	\$19,408	\$133,658	14.70%	\$19,648
1241	Tatum	\$390,247	1.81%	\$7,063	\$400,979	1.81%	\$7,258
1246	Taylor	\$8,635,456	12.70%	\$1,096,703	\$8,872,931	13.18%	\$1,169,452
1248	Teague	\$921,344	9.04%	\$83,289	\$937,468	8.26%	\$77,435
1252	Temple	\$35,459,280	16.91%	\$5,996,164	\$36,434,410	17.05%	\$6,212,067
1254	Tenaha	\$337,369	0.30%	\$1,012	\$346,647	0.36%	\$1,248
1256	Terrell	\$11,121,683	15.89%	\$1,767,235	\$11,427,529	16.26%	\$1,858,116
1258	Terrell Hills	\$2,875,589	15.38%	\$442,266	\$2,954,668	15.66%	\$462,701
31263	Tex Municipal League IEBP	\$11,691,929	6.09%	\$712,038	\$12,013,457	5.71%	\$685,968
21263	Tex Municipal League IRP	\$26,699,389	10.51%	\$2,806,106	\$27,433,622	10.55%	\$2,894,247
21260	Texarkana	\$8,968,852	15.56%	\$1,395,553	\$9,170,651	15.31%	\$1,404,027
11260	Texarkana Police Dept	\$6,106,050	14.42%	\$880,492	\$6,273,966	14.76%	\$926,037
31260	Texarkana Water Utilities	\$7,494,256	16.12%	\$1,208,074	\$7,692,854	16.14%	\$1,241,627
1262	Texas City	\$24,278,789	16.24%	\$3,942,875	\$24,946,456	16.60%	\$4,141,112
11263	Texas Municipal League	\$3,497,250	14.85%	\$519,342	\$3,593,424	14.27%	\$512,782
1267	The Colony	\$26,096,397	12.92%	\$3,371,654	\$26,814,048	13.49%	\$3,617,215
1269	Thompsons	\$130,538	4.31%	\$5,626	\$134,128	4.25%	\$5,700
1268	Thorndale	\$316,200	8.09%	\$25,581	\$321,734	7.28%	\$23,422
1272	Thrall	\$219,913	7.41%	\$16,296	\$225,961	6.69%	\$15,117
1274	Three Rivers	\$2,045,516	22.64%	\$463,105	\$2,101,768	23.86%	\$501,482
1276	Throckmorton	\$151,028	4.91%	\$7,415	\$154,879	6.19%	\$9,587
1277	Tiki Island	\$519,969	3.76%	\$19,551	\$534,268	3.38%	\$18,058
1278	Timpson	\$422,850	2.01%	\$8,499	\$434,478	1.67%	\$7,256
1280	Tioga	\$407,984	1.46%	\$5,957	\$419,204	1.73%	\$7,252
1283	Tolar	\$277,614	7.74%	\$21,487	\$285,248	6.72%	\$19,169
1286	Tom Bean	\$301,120	2.68%	\$8,070	\$309,100	2.85%	\$8,809
1284	Tomball	\$12,134,564	13.49%	\$1,636,953	\$12,468,265	13.31%	\$1,659,526
1290	Trent	\$92,370	7.88%	\$7,279	\$94,910	6.29%	\$5,970
1292	Trenton	\$207,589	3.42%	\$7,100	\$211,222	4.04%	\$8,533
1293	Trinidad	\$258,714	3.07%	\$7,943	\$263,241	2.05%	\$5,396
1294	Trinity	\$760,335	6.86%	\$52,159	\$781,244	6.84%	\$53,437
1295	Trophy Club	\$5,578,910	13.09%	\$730,279	\$5,732,330	13.45%	\$770,998
1296	Troup	\$926,173	5.36%	\$49,643	\$951,643	5.14%	\$48,914
1297	Troy	\$707,340	11.22%	\$79,364	\$726,792	10.21%	\$74,205
1298	Tulia	\$1,538,358	10.69%	\$164,450	\$1,580,663	9.47%	\$149,689
1299	Turkey	\$143,579	5.18%	\$7,437	\$147,527	5.12%	\$7,553
1301	Tye	\$668,019	6.90%	\$46,093	\$686,390	5.57%	\$38,232
1304	Tyler	\$38,245,192	20.99%	\$8,027,666	\$39,296,935	21.05%	\$8,272,005
1305	Universal City	\$8,275,509	18.57%	\$1,536,762	\$8,503,085	18.38%	\$1,562,867
1306	University Park	\$17,788,634	9.45%	\$1,681,026	\$18,277,821	8.80%	\$1,608,448
1308	Uvalde	\$7,088,488	5.96%	\$422,474	\$7,283,421	5.75%	\$418,797

\*Reflects phase-in, when applicable.



**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
1312	Valley Mills	\$346,919	2.32%	\$8,049	\$356,459	2.14%	\$7,628
1313	Valley View	\$231,452	1.83%	\$4,236	\$237,817	1.91%	\$4,542
1314	Van	\$964,609	7.18%	\$69,259	\$991,136	7.28%	\$72,155
1316	Van Alstyne	\$2,198,166	9.75%	\$214,321	\$2,258,616	9.96%	\$224,958
1318	Van Horn	\$1,300,489	8.20%	\$106,640	\$1,323,248	7.96%	\$105,331
1320	Vega	\$268,175	23.29%	\$62,458	\$275,282	23.79%	\$65,490
1324	Venus	\$1,291,331	10.54%	\$136,106	\$1,326,843	10.62%	\$140,911
1326	Vernon	\$3,950,410	12.29%	\$485,505	\$4,043,245	12.20%	\$493,276
1328	Victoria	\$32,285,298	16.30%	\$5,262,504	\$33,173,144	16.32%	\$5,413,857
1329	Vidor	\$3,581,236	14.22%	\$509,252	\$3,679,720	14.19%	\$522,152
1500	Village Fire Department	\$4,017,260	6.29%	\$252,686	\$4,119,700	4.85%	\$199,805
1327	Village of the Hills	\$100,126	7.35%	\$7,359	\$102,879	7.99%	\$8,220
1330	Waco	\$87,805,163	14.33%	\$12,582,480	\$90,132,000	14.69%	\$13,240,391
1332	Waelder	\$791,550	2.75%	\$21,768	\$813,318	2.55%	\$20,740
1334	Wake Village	\$1,107,683	12.84%	\$142,226	\$1,138,144	13.60%	\$154,788
1336	Waller	\$1,691,292	3.96%	\$66,975	\$1,737,803	4.02%	\$69,860
1337	Wallis	\$670,371	2.40%	\$16,089	\$688,806	2.27%	\$15,636
1338	Walnut Springs	\$93,475	3.93%	\$3,674	\$96,046	3.87%	\$3,717
1340	Waskom	\$730,504	6.83%	\$49,893	\$747,671	6.60%	\$49,346
1341	Watauga	\$9,903,482	14.20%	\$1,406,294	\$10,106,503	14.79%	\$1,494,752
1342	Waxahachie	\$18,009,017	15.36%	\$2,766,185	\$18,504,265	15.59%	\$2,884,815
1344	Weatherford	\$23,394,374	13.37%	\$3,127,828	\$24,037,719	13.78%	\$3,312,398
1345	Webster	\$12,313,397	17.70%	\$2,179,471	\$12,652,015	17.39%	\$2,200,185
1346	Weimar	\$1,342,320	16.89%	\$226,718	\$1,379,234	14.30%	\$197,230
1350	Wellington	\$475,828	4.27%	\$20,318	\$488,913	3.23%	\$15,792
1352	Wells	\$238,638	2.96%	\$7,064	\$245,201	3.22%	\$7,895
1354	Weslaco	\$11,142,875	8.52%	\$949,373	\$11,349,018	8.10%	\$919,270
1356	West	\$962,828	5.78%	\$55,651	\$989,306	6.17%	\$61,040
1358	West Columbia	\$1,710,596	3.19%	\$54,568	\$1,757,637	3.82%	\$67,142
1359	West Lake Hills	\$1,830,485	16.40%	\$300,200	\$1,866,179	16.40%	\$306,053
1361	West Orange	\$1,429,029	20.02%	\$286,092	\$1,459,753	18.43%	\$269,032
1365	West Tawakoni	\$623,477	9.06%	\$56,487	\$637,505	8.29%	\$52,849
1364	West Univ. Place	\$10,068,885	12.89%	\$1,297,879	\$10,345,779	12.83%	\$1,327,363
1363	Westlake	\$4,024,894	11.77%	\$473,730	\$4,135,579	11.77%	\$486,758
1362	Westover Hills	\$1,358,536	6.64%	\$90,207	\$1,395,896	6.17%	\$86,127
1366	Westworth Village	\$2,449,978	11.74%	\$287,627	\$2,517,352	12.08%	\$304,096
1368	Wharton	\$5,631,019	5.70%	\$320,968	\$5,785,872	5.38%	\$311,280
1370	Wheeler	\$274,209	7.96%	\$21,827	\$281,750	8.86%	\$24,963
1372	White Deer	\$240,621	9.56%	\$23,003	\$244,832	10.22%	\$25,022
1377	White Oak	\$2,222,131	14.40%	\$319,987	\$2,281,017	14.09%	\$321,395
1378	White Settlement	\$7,060,887	17.07%	\$1,205,293	\$7,255,061	17.07%	\$1,238,439
1374	Whiteface	\$141,001	1.63%	\$2,298	\$144,315	2.42%	\$3,492
1375	Whitehouse	\$2,037,561	8.66%	\$176,453	\$2,091,556	8.49%	\$177,573
1376	Whitesboro	\$2,081,756	6.38%	\$132,816	\$2,139,004	6.32%	\$135,185
1380	Whitewright	\$735,509	3.13%	\$23,021	\$755,735	2.86%	\$21,614

\*Reflects phase-in, when applicable.

**SECTION 4**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**COMPARISON OF EXPECTED CITY CONTRIBUTION AMOUNTS**  
**FOR THE RETIREMENT PLAN**

CITY #	CITY NAME	2020 EXPECTED CONTRIBUTIONS			2021 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
1382	Whitney	\$819,817	4.07%	\$33,367	\$840,722	3.82%	\$32,116
1384	Wichita Falls	\$47,744,687	16.32%	\$7,791,933	\$49,057,666	16.57%	\$8,128,855
1386	Willis	\$2,261,516	9.46%	\$213,939	\$2,323,708	9.74%	\$226,329
1387	Willow Park	\$2,245,067	7.41%	\$166,359	\$2,306,806	7.09%	\$163,553
1388	Wills Point	\$1,255,114	12.01%	\$150,739	\$1,279,589	11.46%	\$146,641
1390	Wilmer	\$2,451,712	4.48%	\$109,837	\$2,519,134	4.49%	\$113,109
1392	Wimberley	\$504,835	6.56%	\$33,117	\$518,718	6.14%	\$31,849
1393	Windcrest	\$3,632,821	7.27%	\$264,106	\$3,732,724	6.97%	\$260,171
1395	Winfield	\$79,683	3.81%	\$3,036	\$81,874	2.67%	\$2,186
1396	Wink	\$511,067	7.85%	\$40,119	\$525,121	6.60%	\$34,658
1398	Winnsboro	\$1,789,047	9.10%	\$162,803	\$1,838,246	8.67%	\$159,376
1399	Winona	\$180,875	1.94%	\$3,509	\$184,040	2.44%	\$4,491
1400	Winters	\$592,726	10.41%	\$61,703	\$606,655	11.08%	\$67,217
1403	Wolfforth	\$1,686,708	11.49%	\$193,803	\$1,733,092	11.03%	\$191,160
1409	Woodcreek	\$146,427	8.03%	\$11,758	\$150,454	7.26%	\$10,923
1404	Woodsboro	\$485,007	0.74%	\$3,589	\$498,345	1.24%	\$6,179
1406	Woodville	\$1,505,847	17.39%	\$261,867	\$1,544,246	16.92%	\$261,286
1407	Woodway	\$5,547,080	16.77%	\$930,245	\$5,699,625	17.27%	\$984,325
1408	Wortham	\$338,151	5.36%	\$18,125	\$346,436	5.86%	\$20,301
1410	Wylie	\$23,136,355	14.75%	\$3,412,612	\$23,772,605	15.30%	\$3,637,209
1412	Yoakum	\$4,271,533	16.14%	\$689,425	\$4,389,000	16.10%	\$706,629
1414	Yorktown	\$410,689	0.85%	\$3,491	\$417,876	1.18%	\$4,931
1415	Zavalla	\$291,080	0.09%	\$262	\$296,174	0.93%	\$2,754

\*Reflects phase-in, when applicable.

## **SECTION 5**

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### **SUPPLEMENTAL DEATH RATES**

**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2021**  
**SUPPLEMENTAL DEATH BENEFITS**

CITY				CITY					
<u>NO.</u>	<u>CITY NAME</u>	<u>ACTIVES ONLY</u>	<u>ACTIVES &amp; RETIREES</u>	<u>CODE*</u>	<u>NO.</u>	<u>CITY NAME</u>	<u>ACTIVES ONLY</u>	<u>ACTIVES &amp; RETIREES</u>	<u>CODE*</u>
4	Abernathy	0.11 %	0.20 %	3	106	Bellaire	0.11 %	0.24 %	3
6	Abilene	0.11 %	0.36 %	3	109	Bellmead	0.10 %	0.21 %	3
7	Addison	0.09 %	0.18 %	3	110	Bells	0.06 %	0.17 %	3
8	Agua Dulce	0.14 %	0.14 %	3	112	Bellville	0.13 %	0.40 %	3
10	Alamo	0.09 %	0.20 %	3	114	Belton	0.09 %	0.22 %	3
12	Alamo Heights	0.09 %	0.24 %	3	118	Benbrook	0.08 %	0.16 %	3
14	Alba	0.15 %	0.15 %	3	121	Berryville	0.60 %	0.92 %	3
16	Albany	0.23 %	0.45 %	3	123	Bertram	0.08 %	0.39 %	1
17	Aledo	0.11 %	0.27 %	3	124	Big Lake	0.16 %	0.28 %	3
18	Alice	0.12 %	0.36 %	1	126	Big Sandy	0.09 %	0.36 %	3
19	Allen	0.09 %	0.13 %	3	128	Big Spring	0.15 %	0.46 %	3
20	Alpine	0.11 %	0.23 %	3	132	Bishop	0.13 %	0.36 %	3
22	Alto	0.08 %	0.45 %	3	134	Blanco	0.10 %	0.21 %	3
23	Alton	0.08 %	0.14 %	3	140	Blooming Grove	0.09 %	0.26 %	3
24	Alvarado	0.10 %	0.13 %	3	142	Blossom	0.22 %	0.93 %	3
26	Alvin	0.10 %	0.21 %	3	143	Blue Mound	0.07 %	0.14 %	3
28	Alvord	0.13 %	0.50 %	3	144	Blue Ridge	0.07 %	0.36 %	3
30	Amarillo	0.10 %	0.30 %	1	148	Boerne	0.11 %	0.17 %	3
32	Amherst	0.09 %	0.20 %	1	150	Bogata	0.09 %	0.21 %	3
34	Anahuac	0.09 %	0.27 %	3	152	Bonham	0.12 %	0.23 %	1
36	Andrews	0.08 %	0.21 %	1	154	Booker	0.21 %	0.29 %	3
38	Angleton	0.10 %	0.23 %	3	156	Borger	0.17 %	0.30 %	3
40	Anna	0.07 %	0.09 %	3	158	Bovina	0.08 %	0.44 %	3
41	Annetta	0.09 %	0.09 %	3	160	Bowie	0.13 %	0.34 %	3
44	Anson	0.12 %	0.28 %	3	162	Boyd	0.07 %	0.20 %	1
45	Anthony	0.08 %	0.13 %	3	166	Brady	0.13 %	0.27 %	3
48	Aransas Pass	0.13 %	0.23 %	3	170	Brazoria	0.08 %	0.31 %	3
50	Archer City	0.21 %	0.38 %	3	172	Breckenridge	0.16 %	0.38 %	3
49	Arcola	0.14 %	0.14 %	3	174	Bremond	0.13 %	0.56 %	3
51	Argyle	0.10 %	0.16 %	1	176	Brenham	0.09 %	0.26 %	1
52	Arlington	0.08 %	0.19 %	3	177	Bridge City	0.16 %	0.29 %	3
54	Arp	0.09 %	0.21 %	3	178	Bridgeport	0.10 %	0.24 %	3
60	Aspermont	0.11 %	0.28 %	3	180	Bronte	0.16 %	0.23 %	3
62	Athens	0.08 %	0.21 %	3	182	Brookshire	0.12 %	0.15 %	3
64	Atlanta	0.13 %	0.26 %	3	184	Brownfield	0.12 %	0.27 %	1
66	Aubrey	0.09 %	0.11 %	3	186	Brownsboro	0.28 %	0.28 %	3
74	Avinger	0.15 %	0.15 %	3	10188	Brownsville	0.09 %	0.24 %	3
75	Azle	0.10 %	0.19 %	3	20188	Brownsville PUB	0.11 %	0.27 %	3
77	Baird	0.09 %	0.16 %	3	10190	Brownwood	0.10 %	0.30 %	1
78	Balch Springs	0.09 %	0.18 %	3	30190	Brownwood Health Dept.	0.08 %	0.26 %	1
79	Balcones Heights	0.11 %	0.25 %	3	20190	Brownwood Public Library	0.41 %	0.59 %	1
80	Ballinger	0.11 %	0.37 %	3	195	Bruceville-Eddy	0.06 %	0.30 %	3
82	Balmorhea	0.06 %	0.06 %	3	192	Bryan	0.10 %	0.20 %	1
83	Bandera	0.11 %	0.57 %	3	193	Bryson	0.10 %	0.24 %	1
84	Bangs	0.14 %	0.26 %	3	194	Buda	0.11 %	0.14 %	3
90	Bartlett	0.14 %	0.44 %	3	196	Buffalo	0.19 %	0.42 %	3
91	Bartonville	0.08 %	0.16 %	3	198	Bullard	0.12 %	0.18 %	3
92	Bastrop	0.09 %	0.17 %	3	203	Bulverde	0.07 %	0.11 %	3
94	Bay City	0.09 %	0.32 %	3	199	Bunker Hill Village	0.13 %	0.24 %	3
93	Bayou Vista	0.09 %	0.20 %	3	200	Burkburnett	0.16 %	0.41 %	3
96	Baytown	0.08 %	0.16 %	3	202	Burleson	0.08 %	0.13 %	3
98	Beaumont	0.11 %	0.31 %	1	204	Burnet	0.07 %	0.18 %	3
100	Bedford	0.09 %	0.12 %	1	207	Cactus	0.08 %	0.22 %	3
101	Bee Cave	0.10 %	0.14 %	3	208	Caddo Mills	0.08 %	0.14 %	3
102	Beeville	0.14 %	0.44 %	1	210	Caldwell	0.18 %	0.45 %	3

\*Codes indicating provision adopted as of April 1, 2020: 1 = None, 2 = Actives only, 3 = Actives and Retirees

**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2021**  
**SUPPLEMENTAL DEATH BENEFITS**

CITY	ACTIVES	ACTIVES &		CITY	ACTIVES	ACTIVES &	
<u>NO.</u> <u>CITY NAME</u>	<u>ONLY</u>	<u>RETIREEES</u>	<u>CODE*</u>	<u>NO.</u> <u>CITY NAME</u>	<u>ONLY</u>	<u>RETIREEES</u>	<u>CODE*</u>
212 Calvert	0.21 %	0.35 %	3	300 Copperas Cove	0.08 %	0.30 %	3
214 Cameron	0.12 %	0.32 %	3	301 Corinth	0.09 %	0.15 %	3
216 Campbell	0.17 %	0.17 %	3	302 Corpus Christi	0.11 %	0.40 %	1
220 Canadian	0.11 %	0.24 %	3	304 Corrigan	0.11 %	0.29 %	3
221 Caney City	0.14 %	0.14 %	3	306 Corsicana	0.11 %	0.35 %	3
222 Canton	0.16 %	0.24 %	3	308 Cotulla	0.17 %	0.32 %	3
224 Canyon	0.12 %	0.21 %	3	310 Crandall	0.07 %	0.18 %	3
227 Carmine	0.05 %	0.05 %	3	312 Crane	0.11 %	0.31 %	3
228 Carrizo Springs	0.13 %	0.40 %	3	314 Crawford	0.04 %	0.05 %	1
230 Carrollton	0.09 %	0.21 %	1	316 Crockett	0.13 %	0.47 %	3
232 Carthage	0.15 %	0.34 %	3	318 Crosbyton	0.21 %	1.62 %	3
231 Castle Hills	0.08 %	0.26 %	3	320 Cross Plains	0.10 %	0.21 %	3
234 Castroville	0.15 %	0.43 %	3	321 Cross Roads	0.06 %	0.07 %	3
238 Cedar Hill	0.09 %	0.16 %	3	322 Crowell	0.10 %	0.10 %	3
239 Cedar Park	0.08 %	0.12 %	3	323 Crowley	0.08 %	0.14 %	3
240 Celeste	0.31 %	0.37 %	3	324 Crystal City	0.13 %	0.46 %	1
242 Celina	0.10 %	0.11 %	3	326 Cuero	0.14 %	0.30 %	3
244 Center	0.09 %	0.23 %	3	328 Cumby	0.05 %	0.11 %	3
246 Centerville	0.19 %	0.23 %	1	332 Daingerfield	0.14 %	0.25 %	1
247 Chandler	0.14 %	0.24 %	3	334 Daisetta	0.19 %	0.46 %	3
248 Charlotte	0.11 %	0.15 %	3	336 Dalhart	0.10 %	0.27 %	3
249 Chester	0.65 %	0.65 %	3	339 Dalworthington Gardens	0.08 %	0.15 %	3
245 Chico	0.21 %	0.83 %	3	340 Danbury	0.10 %	0.19 %	3
250 Childress	0.14 %	0.39 %	3	341 Darrrouzett	0.32 %	0.32 %	3
251 Chillicothe	0.15 %	0.15 %	3	344 Dayton	0.07 %	0.18 %	3
253 Chireno	0.10 %	0.53 %	3	352 De Leon	0.16 %	0.42 %	3
254 Christine	0.02 %	0.15 %	1	10366 DeSoto	0.10 %	0.21 %	3
255 Cibolo	0.10 %	0.12 %	3	346 Decatur	0.16 %	0.25 %	3
256 Cisco	0.13 %	0.35 %	2	348 Deer Park	0.10 %	0.22 %	3
258 Clarendon	0.40 %	0.51 %	3	350 Dekalb	0.12 %	0.23 %	3
259 Clarksville	0.13 %	0.28 %	3	354 Del Rio	0.12 %	0.23 %	3
260 Clarksville City	0.05 %	0.47 %	3	353 Dell City	0.07 %	0.78 %	3
263 Clear Lake Shores	0.09 %	0.13 %	3	356 Denison	0.10 %	0.27 %	1
264 Cleburne	0.10 %	0.31 %	3	358 Denton	0.10 %	0.18 %	3
266 Cleveland	0.10 %	0.31 %	3	360 Denver City	0.11 %	0.30 %	3
268 Clifton	0.19 %	0.39 %	3	362 Deport	0.04 %	0.21 %	3
271 Clute	0.08 %	0.19 %	3	370 Devine	0.09 %	0.21 %	3
272 Clyde	0.11 %	0.34 %	3	371 Diboll	0.08 %	0.31 %	3
274 Coahoma	0.12 %	0.40 %	3	372 Dickens	0.06 %	0.06 %	3
276 Cockrell Hill	0.10 %	0.22 %	3	373 Dickinson	0.11 %	0.18 %	3
278 Coleman	0.12 %	0.47 %	1	374 Dilley	0.09 %	0.22 %	3
280 College Station	0.08 %	0.15 %	1	376 Dimmitt	0.17 %	0.38 %	1
281 Colleyville	0.09 %	0.18 %	3	382 Donna	0.10 %	0.17 %	1
282 Collinsville	0.11 %	0.28 %	3	379 Double Oak	0.13 %	0.29 %	3
283 Colmesneil	0.07 %	0.08 %	3	383 Dripping Springs	0.11 %	0.12 %	3
284 Colorado City	0.20 %	0.67 %	3	385 Driscoll	0.27 %	0.35 %	3
286 Columbus	0.10 %	0.34 %	3	384 Dublin	0.12 %	0.24 %	3
288 Comanche	0.14 %	0.44 %	3	386 Dumas	0.09 %	0.21 %	3
289 Combes	0.08 %	0.08 %	1	388 Duncanville	0.10 %	0.22 %	1
290 Commerce	0.08 %	0.39 %	3	394 Eagle Lake	0.15 %	0.39 %	3
294 Conroe	0.09 %	0.15 %	1	396 Eagle Pass	0.10 %	0.28 %	3
295 Converse	0.08 %	0.15 %	3	397 Early	0.08 %	0.19 %	3
298 Cooper	0.15 %	0.30 %	3	399 Earth	0.11 %	0.49 %	3
299 Coppell	0.09 %	0.15 %	3	393 East Bernard	0.11 %	0.17 %	3
297 Copper Canyon	0.23 %	0.29 %	3	401 East Mountain	0.09 %	0.44 %	3

**Section 5  
TEXAS MUNICIPAL RETIREMENT SYSTEM  
CITY CONTRIBUTION RATES FOR 2021  
SUPPLEMENTAL DEATH BENEFITS**

CITY	ACTIVES	ACTIVES &		CITY	ACTIVES	ACTIVES &	
<u>NO.</u> <u>CITY NAME</u>	<u>ONLY</u>	<u>RETIRES</u>	<u>CODE*</u>	<u>NO.</u> <u>CITY NAME</u>	<u>ONLY</u>	<u>RETIRES</u>	<u>CODE*</u>
395 East Tawakoni	0.15 %	0.33 %	3	503 Gary	0.14 %	0.16 %	1
398 Eastland	0.14 %	0.31 %	3	504 Gatesville	0.11 %	0.27 %	3
402 Ector	0.25 %	0.25 %	3	505 George West	0.12 %	0.18 %	3
406 Eden	0.12 %	0.60 %	3	506 Georgetown	0.09 %	0.13 %	3
408 Edgewood	0.19 %	0.41 %	3	510 Giddings	0.14 %	0.35 %	3
410 Edinburg	0.08 %	0.17 %	3	512 Gilmer	0.11 %	0.26 %	3
412 Edna	0.15 %	0.41 %	3	514 Gladewater	0.10 %	0.24 %	3
414 El Campo	0.10 %	0.25 %	3	516 Glen Rose	0.12 %	0.32 %	3
416 Eldorado	0.15 %	0.62 %	3	517 Glenn Heights	0.07 %	0.13 %	3
418 Electra	0.12 %	0.43 %	3	518 Godley	0.08 %	0.25 %	3
420 Elgin	0.16 %	0.24 %	3	519 Goldsmith	0.29 %	0.29 %	3
422 Elkhart	0.24 %	0.33 %	1	520 Goldthwaite	0.15 %	0.27 %	3
427 Elmendorf	0.08 %	0.14 %	3	522 Goliad	0.17 %	0.29 %	3
432 Emory	0.13 %	0.24 %	3	524 Gonzales	0.14 %	0.38 %	3
436 Ennis	0.09 %	0.25 %	3	527 Gordon	0.07 %	0.07 %	3
439 Eules	0.10 %	0.20 %	1	530 Gorman	0.35 %	0.35 %	3
440 Eustace	0.07 %	0.27 %	3	532 Graford	0.18 %	0.18 %	3
441 Everman	0.13 %	0.19 %	3	10534 Graham	0.12 %	0.44 %	3
443 Fair Oaks Ranch	0.10 %	0.14 %	3	536 Granbury	0.12 %	0.26 %	3
442 Fairfield	0.11 %	0.32 %	3	540 Grand Prairie	0.09 %	0.20 %	3
445 Fairview	0.11 %	0.13 %	3	542 Grand Saline	0.09 %	0.37 %	3
20444 Falfurrias	0.13 %	0.29 %	3	544 Grandview	0.10 %	0.38 %	1
446 Falls City	0.15 %	0.15 %	3	546 Granger	0.11 %	0.42 %	1
448 Farmers Branch	0.10 %	0.25 %	2	547 Granite Shoals	0.11 %	0.26 %	3
450 Farmersville	0.12 %	0.21 %	3	548 Grapeland	0.07 %	0.63 %	1
451 Farwell	0.10 %	0.15 %	3	550 Grapevine	0.11 %	0.20 %	1
452 Fate	0.08 %	0.09 %	3	552 Greenville	0.11 %	0.28 %	3
454 Fayetteville	0.13 %	0.34 %	1	551 Gregory	0.16 %	0.30 %	3
456 Ferris	0.08 %	0.32 %	3	553 Grey Forest	0.13 %	0.21 %	3
458 Flatonia	0.09 %	0.24 %	3	556 Groesbeck	0.13 %	0.27 %	3
460 Florence	0.10 %	0.14 %	3	558 Groom	0.12 %	0.27 %	1
20462 Floresville	0.10 %	0.23 %	1	559 Groves	0.11 %	0.31 %	1
463 Flower Mound	0.08 %	0.12 %	3	560 Groveton	0.15 %	0.57 %	3
464 Floydada	0.09 %	0.37 %	3	562 Gruver	0.17 %	0.45 %	1
468 Forest Hill	0.09 %	0.14 %	3	563 Gun Barrel City	0.12 %	0.24 %	3
470 Forney	0.08 %	0.10 %	3	564 Gunter	0.07 %	0.14 %	3
472 Fort Stockton	0.15 %	0.47 %	3	568 Hale Center	0.10 %	0.13 %	3
476 Franklin	0.08 %	0.21 %	1	570 Hallettsville	0.11 %	0.39 %	3
478 Frankston	0.10 %	0.21 %	3	572 Hallsville	0.15 %	0.20 %	3
480 Fredericksburg	0.13 %	0.24 %	3	574 Haltom City	0.09 %	0.22 %	3
482 Freeport	0.09 %	0.20 %	3	576 Hamilton	0.09 %	0.42 %	3
481 Freer	0.14 %	0.37 %	3	578 Hamlin	0.10 %	0.62 %	3
483 Friendswood	0.10 %	0.19 %	3	580 Happy	0.12 %	0.87 %	3
484 Friona	0.08 %	0.27 %	3	581 Harker Heights	0.09 %	0.15 %	3
486 Frisco	0.08 %	0.10 %	3	10582 Harlingen	0.14 %	0.72 %	3
487 Fritch	0.11 %	0.28 %	3	20582 Harlingen Waterworks Sys	0.11 %	0.50 %	3
488 Frost	0.18 %	0.61 %	1	583 Hart	0.06 %	0.18 %	1
491 Fulshear	0.09 %	0.10 %	3	586 Haskell	0.09 %	0.29 %	3
493 Fulton	0.15 %	0.45 %	3	587 Haslet	0.13 %	0.17 %	3
492 Gainesville	0.09 %	0.27 %	3	588 Hawkins	0.11 %	0.22 %	3
494 Galena Park	0.10 %	0.29 %	3	585 Hays	0.10 %	0.63 %	3
498 Ganado	0.20 %	0.75 %	3	590 Hearne	0.12 %	0.35 %	3
499 Garden Ridge	0.13 %	0.22 %	3	591 Heath	0.10 %	0.15 %	3
500 Garland	0.12 %	0.25 %	3	592 Hedley	0.11 %	1.08 %	3
502 Garrison	0.10 %	0.16 %	3	595 Hedwig Village	0.13 %	0.22 %	3

**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2021**  
**SUPPLEMENTAL DEATH BENEFITS**

CITY	ACTIVES	ACTIVES &		CITY	ACTIVES	ACTIVES &	
<u>NO.</u> <u>CITY NAME</u>	<u>ONLY</u>	<u>RETIREEES</u>	<u>CODE*</u>	<u>NO.</u> <u>CITY NAME</u>	<u>ONLY</u>	<u>RETIREEES</u>	<u>CODE*</u>
593 Helotes	0.08 %	0.13 %	3	673 Jones Creek	0.09 %	0.30 %	3
594 Hemphill	0.19 %	0.39 %	3	675 Jonestown	0.13 %	0.28 %	3
596 Hempstead	0.15 %	0.23 %	3	677 Josephine	0.06 %	0.06 %	3
598 Henderson	0.08 %	0.23 %	3	671 Joshua	0.07 %	0.10 %	3
600 Henrietta	0.13 %	0.29 %	3	672 Jourdanton	0.16 %	0.44 %	3
602 Hereford	0.11 %	0.30 %	3	674 Junction	0.11 %	0.31 %	3
605 Hewitt	0.08 %	0.14 %	3	676 Justin	0.12 %	0.18 %	1
609 Hickory Creek	0.06 %	0.10 %	3	678 Karnes City	0.11 %	0.19 %	3
606 Hico	0.07 %	0.43 %	3	680 Katy	0.09 %	0.15 %	3
607 Hidalgo	0.10 %	0.18 %	1	682 Kaufman	0.11 %	0.23 %	3
608 Higgins	0.22 %	0.34 %	3	683 Keene	0.08 %	0.29 %	3
610 Highland Park	0.10 %	0.19 %	1	681 Keller	0.09 %	0.15 %	3
611 Highland Village	0.09 %	0.16 %	3	685 Kemah	0.08 %	0.17 %	3
613 Hill Country Village	0.10 %	0.11 %	3	684 Kemp	0.08 %	0.25 %	1
612 Hillsboro	0.13 %	0.26 %	1	686 Kenedy	0.10 %	0.13 %	3
619 Hilshire Village	0.14 %	0.22 %	3	688 Kennedale	0.16 %	0.25 %	3
614 Hitchcock	0.14 %	0.20 %	3	690 Kerens	0.13 %	0.14 %	3
615 Holland	0.37 %	0.64 %	3	692 Kermit	0.13 %	0.31 %	3
616 Holliday	0.13 %	0.13 %	1	10694 Kerrville	0.09 %	0.26 %	3
617 Hollywood Park	0.10 %	0.20 %	3	20694 Kerrville PUB	0.10 %	0.23 %	3
618 Hondo	0.09 %	0.21 %	3	10696 Kilgore	0.13 %	0.32 %	3
620 Honey Grove	0.09 %	0.49 %	3	698 Killeen	0.09 %	0.22 %	3
622 Hooks	0.07 %	0.23 %	3	700 Kingsville	0.10 %	0.24 %	1
623 Horizon City	0.09 %	0.09 %	3	701 Kirby	0.08 %	0.15 %	3
626 Howe	0.16 %	0.45 %	3	702 Kirbyville	0.19 %	0.60 %	3
627 Hubbard	0.06 %	0.15 %	3	704 Knox City	0.26 %	0.41 %	3
628 Hudson	0.14 %	0.20 %	3	706 Kosse	0.12 %	0.12 %	3
629 Hudson Oaks	0.07 %	0.12 %	3	708 Kountze	0.10 %	0.21 %	3
630 Hughes Springs	0.18 %	0.22 %	3	709 Kress	0.03 %	2.15 %	1
632 Humble	0.09 %	0.17 %	3	699 Krugerville	0.09 %	0.11 %	3
633 Hunters Creek Village	0.09 %	0.48 %	3	707 Krum	0.09 %	0.11 %	3
634 Huntington	0.11 %	0.26 %	3	710 Kyle	0.08 %	0.11 %	3
636 Huntsville	0.11 %	0.25 %	3	725 La Coste	0.20 %	0.22 %	1
637 Hurst	0.09 %	0.23 %	1	714 La Feria	0.10 %	0.34 %	3
638 Hutchins	0.09 %	0.13 %	3	716 La Grange	0.16 %	0.31 %	3
640 Hutto	0.08 %	0.10 %	3	723 La Grulla	0.09 %	0.43 %	3
641 Huxley	0.07 %	0.33 %	3	732 La Joya	0.12 %	0.25 %	3
642 Idalou	0.06 %	0.06 %	3	721 La Marque	0.07 %	0.21 %	3
643 Ingleside	0.15 %	0.30 %	3	728 La Porte	0.10 %	0.20 %	3
646 Ingram	0.09 %	0.29 %	1	731 La Vernia	0.10 %	0.16 %	3
647 Iowa Colony	0.06 %	0.13 %	3	711 Lacy-Lakeview	0.13 %	0.23 %	3
644 Iowa Park	0.10 %	0.28 %	3	712 Ladonia	0.12 %	0.43 %	3
645 Iraan	0.24 %	0.28 %	3	713 Lago Vista	0.13 %	0.21 %	3
648 Irving	0.10 %	0.22 %	3	705 Laguna Vista	0.12 %	0.12 %	3
650 Italy	0.15 %	0.26 %	3	717 Lake Dallas	0.08 %	0.23 %	3
652 Itasca	0.14 %	0.27 %	3	718 Lake Jackson	0.11 %	0.24 %	3
654 Jacinto City	0.19 %	0.31 %	3	719 Lake Worth	0.08 %	0.18 %	3
656 Jacksboro	0.13 %	0.31 %	3	727 Lakeport	0.07 %	0.14 %	3
658 Jacksonville	0.08 %	0.31 %	3	715 Lakeside	0.21 %	0.30 %	3
660 Jasper	0.15 %	0.32 %	3	729 Lakeside City	0.09 %	0.30 %	3
664 Jefferson	0.12 %	0.40 %	3	720 Lakeway	0.10 %	0.18 %	3
665 Jersey Village	0.10 %	0.22 %	3	722 Lamesa	0.14 %	0.46 %	1
666 Jewett	0.09 %	0.17 %	3	724 Lampasas	0.10 %	0.28 %	3
668 Joaquin	0.21 %	0.57 %	3	726 Lancaster	0.08 %	0.17 %	3
670 Johnson City	0.09 %	0.14 %	3	730 Laredo	0.10 %	0.24 %	3

\*Codes indicating provision adopted as of April 1, 2020: 1 = None, 2 = Actives only, 3 = Actives and Retirees

**Section 5  
TEXAS MUNICIPAL RETIREMENT SYSTEM  
CITY CONTRIBUTION RATES FOR 2021  
SUPPLEMENTAL DEATH BENEFITS**

<u>CITY</u> <u>NO. CITY NAME</u>	<u>ACTIVES</u> <u>ONLY</u>	<u>ACTIVES &amp;</u> <u>RETIREEES</u>	<u>CODE*</u>	<u>CITY</u> <u>NO. CITY NAME</u>	<u>ACTIVES</u> <u>ONLY</u>	<u>ACTIVES &amp;</u> <u>RETIREEES</u>	<u>CODE*</u>
733 Lavon	0.12 %	0.14 %	3	820 Maud	0.10 %	0.19 %	3
736 League City	0.10 %	0.17 %	3	822 Maypearl	0.09 %	0.24 %	3
737 Leander	0.09 %	0.12 %	3	824 McAllen	0.09 %	0.20 %	1
735 Lefors	0.05 %	0.05 %	3	826 McCamey	0.11 %	0.11 %	3
739 Leon Valley	0.10 %	0.25 %	3	828 McGregor	0.15 %	0.32 %	3
738 Leonard	0.08 %	0.25 %	3	830 McKinney	0.08 %	0.11 %	3
740 Levelland	0.10 %	0.21 %	3	832 McLean	0.21 %	0.31 %	3
742 Lewisville	0.08 %	0.16 %	1	833 McLendon-Chisholm	0.06 %	0.12 %	3
744 Lexington	0.08 %	0.34 %	1	834 Meadow	0.10 %	0.10 %	3
746 Liberty	0.11 %	0.18 %	1	831 Meadowlakes	0.21 %	0.22 %	3
745 Liberty Hill	0.10 %	0.12 %	3	835 Meadows Place	0.08 %	0.18 %	3
748 Lindale	0.11 %	0.17 %	1	837 Melissa	0.08 %	0.14 %	3
750 Linden	0.11 %	0.34 %	3	1501 Memorial Villages PD	0.09 %	0.24 %	3
749 Lindsay	0.13 %	0.13 %	3	840 Memphis	0.13 %	0.27 %	3
755 Lipan	0.18 %	0.18 %	3	842 Menard	0.10 %	0.23 %	1
751 Little Elm	0.08 %	0.11 %	3	844 Mercedes	0.08 %	0.21 %	3
752 Littlefield	0.10 %	0.38 %	3	846 Meridian	0.10 %	0.13 %	3
753 Live Oak	0.11 %	0.21 %	3	848 Merkel	0.09 %	0.25 %	3
757 Liverpool	0.14 %	0.14 %	3	852 Mertzon	0.08 %	0.20 %	3
754 Livingston	0.13 %	0.26 %	3	854 Mesquite	0.10 %	0.23 %	1
756 Llano	0.14 %	0.46 %	3	856 Mexia	0.11 %	0.30 %	3
758 Lockhart	0.12 %	0.27 %	3	858 Miami	0.29 %	0.29 %	3
760 Lockney	0.24 %	0.24 %	3	860 Midland	0.10 %	0.28 %	3
765 Lone Star	0.08 %	0.27 %	3	862 Midlothian	0.08 %	0.15 %	3
766 Longview	0.11 %	0.31 %	3	863 Milano	0.41 %	0.41 %	3
768 Loraine	0.05 %	0.07 %	3	864 Miles	0.16 %	0.16 %	3
769 Lorena	0.12 %	0.18 %	3	865 Milford	0.04 %	0.29 %	3
770 Lorenzo	0.06 %	0.11 %	1	868 Mineola	0.09 %	0.23 %	3
771 Los Fresnos	0.10 %	0.19 %	3	870 Mineral Wells	0.14 %	0.32 %	3
773 Lott	0.07 %	0.12 %	3	874 Mission	0.10 %	0.17 %	3
774 Lovelady	0.06 %	0.21 %	3	875 Missouri City	0.08 %	0.15 %	3
778 Lubbock	0.10 %	0.30 %	1	876 Monahans	0.11 %	0.22 %	3
779 Lucas	0.09 %	0.10 %	3	887 Mont Belvieu	0.08 %	0.12 %	3
782 Lufkin	0.11 %	0.29 %	3	877 Montgomery	0.08 %	0.15 %	1
784 Luling	0.13 %	0.40 %	3	878 Moody	0.11 %	0.24 %	3
785 Lumberton	0.12 %	0.28 %	3	883 Morgan's Point	0.09 %	0.21 %	2
786 Lyford	0.13 %	0.23 %	1	882 Morgan's Point Resort	0.09 %	0.27 %	3
787 Lytle	0.14 %	0.16 %	3	884 Morton	0.14 %	0.25 %	3
790 Madisonville	0.13 %	0.44 %	3	886 Moulton	0.11 %	0.27 %	3
791 Magnolia	0.10 %	0.21 %	3	890 Mount Enterprise	0.07 %	0.23 %	3
792 Malakoff	0.15 %	0.27 %	3	892 Mt. Pleasant	0.10 %	0.20 %	3
796 Manor	0.08 %	0.09 %	3	894 Mt. Vernon	0.11 %	0.40 %	3
798 Mansfield	0.09 %	0.14 %	3	896 Muenster	0.21 %	0.45 %	1
799 Manvel	0.09 %	0.12 %	3	898 Muleshoe	0.11 %	0.33 %	3
800 Marble Falls	0.10 %	0.23 %	3	901 Munday	0.10 %	0.30 %	3
802 Marfa	0.18 %	0.37 %	3	903 Murphy	0.09 %	0.14 %	3
804 Marion	0.24 %	0.52 %	3	10904 Nacogdoches	0.10 %	0.29 %	3
806 Marlin	0.08 %	0.49 %	3	906 Naples	0.07 %	0.26 %	3
808 Marquez	0.17 %	0.17 %	3	907 Nash	0.09 %	0.23 %	3
810 Marshall	0.11 %	0.38 %	3	905 Nassau Bay	0.10 %	0.21 %	3
812 Mart	0.12 %	0.39 %	3	909 Natalia	0.11 %	0.19 %	3
813 Martindale	0.13 %	0.15 %	3	908 Navasota	0.10 %	0.28 %	3
814 Mason	0.12 %	0.41 %	3	910 Nederland	0.10 %	0.25 %	1
816 Matador	0.25 %	0.35 %	3	912 Needville	0.25 %	0.48 %	3
818 Mathis	0.10 %	0.36 %	3	914 New Boston	0.13 %	0.29 %	3

\*Codes indicating provision adopted as of April 1, 2020: 1 = None, 2 = Actives only, 3 = Actives and Retirees



**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2021**  
**SUPPLEMENTAL DEATH BENEFITS**

CITY	ACTIVES	ACTIVES &		CITY	ACTIVES	ACTIVES &	
<u>NO.</u> <u>CITY NAME</u>	<u>ONLY</u>	<u>RETIRES</u>	<u>CODE*</u>	<u>NO.</u> <u>CITY NAME</u>	<u>ONLY</u>	<u>RETIRES</u>	<u>CODE*</u>
10916 New Braunfels	0.08 %	0.16 %	3	1003 Pineland	0.07 %	0.42 %	3
20916 New Braunfels Utilities	0.09 %	0.16 %	3	1001 Piney Point Village	0.19 %	0.29 %	3
915 New Deal	0.14 %	0.19 %	1	1006 Pittsburg	0.09 %	0.32 %	3
923 New Fairview	0.02 %	0.31 %	3	1007 Plains	0.12 %	0.20 %	3
918 New London	0.13 %	0.20 %	1	1008 Plainview	0.11 %	0.37 %	1
919 New Summerfield	0.21 %	0.21 %	1	1010 Plano	0.10 %	0.19 %	1
917 New Waverly	0.22 %	0.36 %	3	1012 Pleasanton	0.10 %	0.15 %	3
913 Newark	0.06 %	0.08 %	3	1013 Point	0.04 %	0.11 %	1
920 Newton	0.11 %	0.32 %	3	1017 Ponder	0.26 %	0.40 %	3
922 Nixon	0.08 %	0.26 %	3	1014 Port Aransas	0.11 %	0.22 %	3
924 Nocona	0.16 %	0.37 %	3	11016 Port Arthur	0.12 %	0.32 %	3
925 Nolanville	0.05 %	0.08 %	3	1018 Port Isabel	0.10 %	0.26 %	3
928 Normangee	0.14 %	0.29 %	3	1020 Port Lavaca	0.11 %	0.41 %	3
931 North Richland Hills	0.09 %	0.19 %	1	1022 Port Neches	0.10 %	0.21 %	1
930 Northlake	0.08 %	0.11 %	3	1019 Portland	0.13 %	0.23 %	3
935 O'Donnell	0.12 %	0.26 %	3	1024 Post	0.17 %	0.92 %	3
936 Oak Point	0.09 %	0.11 %	3	1026 Poteet	0.08 %	0.21 %	3
937 Oak Ridge North	0.11 %	0.18 %	3	1028 Poth	0.17 %	0.53 %	3
942 Odem	0.13 %	0.46 %	3	1030 Pottsboro	0.10 %	0.22 %	3
944 Odessa	0.11 %	0.27 %	3	1031 Prairie View	0.12 %	0.12 %	3
945 Oglesby	0.03 %	0.39 %	3	1032 Premont	0.16 %	0.43 %	3
949 Old River-Winfree	0.12 %	0.12 %	1	1029 Presidio	0.12 %	0.17 %	3
950 Olmos Park	0.08 %	0.21 %	1	1033 Primera	0.08 %	0.11 %	3
951 Olney	0.14 %	0.23 %	3	1034 Princeton	0.09 %	0.12 %	3
953 Omaha	0.12 %	0.18 %	3	1036 Prosper	0.09 %	0.10 %	1
954 Onalaska	0.08 %	0.20 %	3	1037 Providence Village	0.08 %	0.10 %	3
958 Orange	0.12 %	0.28 %	1	1042 Quanah	0.10 %	0.54 %	3
960 Orange Grove	0.10 %	0.20 %	3	1045 Queen City	0.14 %	0.14 %	3
959 Ore City	0.06 %	0.12 %	3	1044 Quinlan	0.07 %	0.11 %	3
962 Overton	0.12 %	0.24 %	3	1047 Quintana	0.09 %	0.09 %	3
961 Ovilla	0.10 %	0.19 %	3	1046 Quitaque	0.13 %	0.34 %	3
963 Oyster Creek	0.13 %	0.25 %	3	1048 Quitman	0.12 %	0.37 %	3
964 Paducah	0.16 %	0.55 %	3	1050 Ralls	0.21 %	0.60 %	3
966 Palacios	0.12 %	0.31 %	3	1051 Rancho Viejo	0.07 %	0.11 %	3
968 Palestine	0.08 %	0.31 %	3	1052 Ranger	0.09 %	0.21 %	1
970 Palmer	0.06 %	0.11 %	3	1054 Rankin	0.04 %	0.35 %	3
969 Palmhurst	0.06 %	0.10 %	3	1055 Ransom Canyon	0.17 %	0.20 %	3
971 Palmview	0.06 %	0.07 %	3	1058 Raymondville	0.09 %	0.47 %	3
972 Pampa	0.10 %	0.41 %	3	1061 Red Oak	0.08 %	0.11 %	3
974 Panhandle	0.17 %	0.28 %	1	1062 Redwater	0.10 %	0.11 %	3
973 Panorama Village	0.22 %	0.39 %	3	1064 Refugio	0.12 %	0.45 %	1
975 Pantego	0.10 %	0.19 %	3	1065 Reklaw	0.11 %	0.50 %	3
976 Paris	0.11 %	0.36 %	3	1066 Reno (Lamar County)	0.07 %	0.08 %	3
977 Parker	0.08 %	0.16 %	3	1069 Reno (Parker County)	0.08 %	0.15 %	3
978 Pasadena	0.12 %	0.30 %	3	1067 Rhome	0.09 %	0.15 %	3
983 Pearland	0.07 %	0.11 %	3	1068 Rice	0.07 %	0.12 %	3
984 Pearsall	0.09 %	0.22 %	3	1070 Richardson	0.10 %	0.22 %	1
988 Pecos City	0.11 %	0.20 %	3	1073 Richland Hills	0.08 %	0.31 %	3
989 Pelican Bay	0.07 %	0.07 %	3	1076 Richmond	0.10 %	0.18 %	3
991 Penitas	0.06 %	0.07 %	3	1077 Richwood	0.08 %	0.19 %	3
994 Perryton	0.12 %	0.34 %	3	1072 Riesel	0.08 %	0.19 %	3
1000 Pflugerville	0.08 %	0.14 %	3	1075 Rio Grande City	0.08 %	0.12 %	3
1002 Pharr	0.08 %	0.18 %	3	1079 Rio Vista	0.08 %	0.14 %	3
1004 Pilot Point	0.08 %	0.15 %	3	1080 Rising Star	0.13 %	0.54 %	3
1005 Pinehurst	0.13 %	0.36 %	3	1082 River Oaks	0.11 %	0.42 %	3

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**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2021**  
**SUPPLEMENTAL DEATH BENEFITS**

CITY	ACTIVES	ACTIVES &		CITY	ACTIVES	ACTIVES &	
<u>NO.</u> <u>CITY NAME</u>	<u>ONLY</u>	<u>RETIREEES</u>	<u>CODE*</u>	<u>NO.</u> <u>CITY NAME</u>	<u>ONLY</u>	<u>RETIREEES</u>	<u>CODE*</u>
1084 Roanoke	0.08 %	0.11 %	1	1177 Shallowater	0.09 %	0.18 %	3
1088 Robert Lee	0.03 %	0.32 %	3	1174 Shamrock	0.16 %	1.41 %	3
1089 Robinson	0.12 %	0.20 %	3	1173 Shavano Park	0.08 %	0.17 %	3
21090 Robstown	0.08 %	0.18 %	3	1175 Shenandoah	0.09 %	0.14 %	3
11090 Robstown Utility Systems	0.16 %	0.38 %	3	1181 Shepherd	0.07 %	0.10 %	3
1092 Roby	0.07 %	1.59 %	3	1176 Sherman	0.09 %	0.26 %	3
1096 Rockdale	0.21 %	0.38 %	3	1178 Shiner	0.14 %	0.53 %	3
1098 Rockport	0.13 %	0.30 %	3	1179 Shoreacres	0.16 %	0.27 %	3
1100 Rocksprings	0.10 %	0.12 %	1	1180 Silsbee	0.10 %	0.40 %	1
1102 Rockwall	0.09 %	0.15 %	3	1182 Silverton	0.09 %	0.34 %	3
1104 Rogers	0.05 %	0.53 %	1	1183 Simonton	0.03 %	0.03 %	3
1105 Rollingwood	0.13 %	0.25 %	3	1184 Sinton	0.10 %	0.23 %	3
1106 Roma	0.13 %	0.35 %	3	1185 Skellytown	0.10 %	0.10 %	3
1109 Roscoe	0.23 %	0.30 %	3	1186 Slaton	0.10 %	0.34 %	3
1112 Rosebud	0.14 %	0.46 %	3	1188 Smithville	0.13 %	0.35 %	3
1114 Rosenberg	0.06 %	0.12 %	3	1189 Smyer	0.14 %	0.14 %	3
1116 Rotan	0.14 %	0.48 %	3	1190 Snyder	0.12 %	0.32 %	3
1118 Round Rock	0.09 %	0.14 %	3	1191 Somerset	1.03 %	1.51 %	3
1119 Rowlett	0.10 %	0.16 %	1	1192 Somerville	0.16 %	0.47 %	3
1120 Royse City	0.09 %	0.15 %	3	1194 Sonora	0.08 %	0.39 %	3
1122 Rule	0.05 %	0.21 %	3	1196 Sour Lake	0.14 %	0.20 %	3
1123 Runaway Bay	0.13 %	0.25 %	3	1198 South Houston	0.12 %	0.33 %	3
1124 Runge	0.28 %	0.85 %	3	1199 South Padre Island	0.09 %	0.18 %	3
1126 Rusk	0.12 %	0.21 %	3	1197 Southlake	0.08 %	0.13 %	3
1128 Sabinal	0.21 %	0.48 %	3	1200 Southmayd	0.04 %	0.10 %	3
1129 Sachse	0.08 %	0.14 %	3	1202 Southside Place	0.11 %	0.38 %	3
1131 Saginaw	0.10 %	0.17 %	3	1204 Spearman	0.13 %	0.31 %	3
1130 Saint Jo	0.05 %	0.69 %	3	1201 Splendora	0.11 %	0.12 %	3
1133 Salado	0.13 %	0.23 %	3	1205 Spring Valley Village	0.08 %	0.18 %	3
1132 San Angelo	0.11 %	0.37 %	1	1203 Springtown	0.09 %	0.18 %	3
21136 San Antonio	0.11 %	0.29 %	1	1206 Spur	0.12 %	0.18 %	3
11136 San Antonio Water System	0.11 %	0.27 %	1	1207 Stafford	0.10 %	0.23 %	3
1138 San Augustine	0.11 %	0.40 %	3	1208 Stamford	0.19 %	0.63 %	3
1140 San Benito	0.11 %	0.33 %	3	1210 Stanton	0.12 %	0.19 %	3
1144 San Felipe	0.10 %	0.23 %	3	1211 Star Harbor	0.13 %	0.86 %	3
1148 San Juan	0.10 %	0.20 %	3	1212 Stephenville	0.11 %	0.26 %	3
1150 San Marcos	0.09 %	0.16 %	3	1213 Sterling City	0.12 %	0.26 %	1
1152 San Saba	0.17 %	0.35 %	3	1214 Stinnett	0.09 %	0.33 %	3
1146 Sanger	0.09 %	0.14 %	3	1216 Stockdale	0.25 %	0.33 %	3
1153 Sansom Park	0.09 %	0.15 %	3	1218 Stratford	0.13 %	0.26 %	3
1155 Santa Fe	0.12 %	0.24 %	1	1224 Sudan	0.10 %	0.33 %	1
1158 Savoy	0.13 %	0.40 %	3	1225 Sugar Land	0.10 %	0.14 %	3
1159 Schertz	0.08 %	0.13 %	3	1226 Sulphur Springs	0.11 %	0.30 %	3
1160 Schulenburg	0.12 %	0.28 %	3	1228 Sundown	0.11 %	0.38 %	3
1161 Seabrook	0.09 %	0.17 %	3	1229 Sunnyvale	0.09 %	0.24 %	3
1162 Seadrift	0.13 %	0.17 %	3	1230 Sunray	0.09 %	0.31 %	3
1164 Seagoville	0.11 %	0.21 %	3	1227 Sunrise Beach Village	0.06 %	0.20 %	3
1166 Seagraves	0.14 %	0.78 %	3	1231 Sunset Valley	0.08 %	0.11 %	3
1167 Sealy	0.14 %	0.19 %	3	1233 Surfside Beach	0.12 %	0.18 %	3
1168 Seguin	0.10 %	0.28 %	3	1232 Sweeny	0.11 %	0.46 %	3
1169 Selma	0.07 %	0.10 %	3	1234 Sweetwater	0.12 %	0.26 %	3
1170 Seminole	0.14 %	0.32 %	3	1264 TMRS	0.12 %	0.17 %	3
1171 Seven Points	0.11 %	0.31 %	3	1236 Taft	0.13 %	0.45 %	3
1172 Seymour	0.17 %	0.61 %	3	1238 Tahoka	0.16 %	0.36 %	3
1165 Shady Shores	0.05 %	0.05 %	3	1240 Talty	0.31 %	0.36 %	3

**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2021**  
**SUPPLEMENTAL DEATH BENEFITS**

CITY	ACTIVES	ACTIVES &		CITY	ACTIVES	ACTIVES &	
<u>NO.</u> <u>CITY NAME</u>	<u>ONLY</u>	<u>RETIREEES</u>	<u>CODE*</u>	<u>NO.</u> <u>CITY NAME</u>	<u>ONLY</u>	<u>RETIREEES</u>	<u>CODE*</u>
1241 Tatum	0.09 %	0.21 %	3	1336 Waller	0.19 %	0.36 %	3
1246 Taylor	0.10 %	0.28 %	3	1337 Wallis	0.11 %	0.21 %	3
1248 Teague	0.07 %	0.33 %	3	1338 Walnut Springs	0.09 %	0.22 %	3
1252 Temple	0.09 %	0.29 %	3	1340 Waskom	0.14 %	0.29 %	3
1254 Tenaha	0.04 %	0.50 %	3	1341 Watauga	0.09 %	0.18 %	3
1256 Terrell	0.10 %	0.27 %	3	1342 Waxahachie	0.12 %	0.20 %	3
1258 Terrell Hills	0.11 %	0.22 %	3	1344 Weatherford	0.09 %	0.21 %	3
31263 Tex Municipal League IEBP	0.12 %	0.15 %	3	1345 Webster	0.13 %	0.23 %	3
21263 Tex Municipal League IRP	0.14 %	0.18 %	3	1346 Weimar	0.11 %	0.36 %	3
21260 Texarkana	0.11 %	0.41 %	1	1350 Wellington	0.19 %	0.44 %	3
11260 Texarkana Police Dept	0.07 %	0.18 %	1	1352 Wells	0.08 %	0.11 %	1
31260 Texarkana Water Utilities	0.12 %	0.34 %	1	1354 Weslaco	0.09 %	0.26 %	3
1262 Texas City	0.11 %	0.35 %	1	1356 West	0.10 %	0.28 %	3
11263 Texas Municipal League	0.10 %	0.25 %	3	1358 West Columbia	0.11 %	0.36 %	1
1267 The Colony	0.08 %	0.15 %	3	1359 West Lake Hills	0.09 %	0.49 %	3
1269 Thompsons	0.17 %	0.17 %	3	1361 West Orange	0.12 %	0.30 %	1
1268 Thorndale	0.14 %	0.30 %	3	1365 West Tawakoni	0.07 %	0.36 %	3
1272 Thrall	0.27 %	0.27 %	3	1364 West Univ. Place	0.09 %	0.23 %	3
1274 Three Rivers	0.35 %	0.48 %	3	1363 Westlake	0.10 %	0.11 %	3
1276 Throckmorton	0.08 %	0.42 %	3	1362 Westover Hills	0.12 %	0.50 %	3
1277 Tiki Island	0.15 %	0.19 %	3	1366 Westworth Village	0.11 %	0.20 %	3
1278 Timpson	0.11 %	0.31 %	3	1368 Wharton	0.14 %	0.24 %	3
1280 Tioga	0.12 %	0.12 %	3	1370 Wheeler	0.06 %	0.21 %	3
1283 Tolar	0.05 %	0.18 %	3	1372 White Deer	0.32 %	0.99 %	3
1286 Tom Bean	0.08 %	0.14 %	3	1377 White Oak	0.13 %	0.29 %	3
1284 Tomball	0.11 %	0.22 %	3	1378 White Settlement	0.08 %	0.20 %	3
1290 Trent	0.27 %	0.63 %	3	1374 Whiteface	0.14 %	1.09 %	3
1292 Trenton	0.13 %	0.36 %	3	1375 Whitehouse	0.07 %	0.23 %	3
1293 Trinidad	0.22 %	0.47 %	3	1376 Whitesboro	0.14 %	0.30 %	3
1294 Trinity	0.29 %	0.42 %	3	1380 Whitewright	0.07 %	0.28 %	3
1295 Trophy Club	0.11 %	0.17 %	3	1382 Whitney	0.11 %	0.21 %	3
1296 Troup	0.16 %	0.43 %	3	1384 Wichita Falls	0.11 %	0.35 %	1
1297 Troy	0.26 %	0.42 %	3	1386 Willis	0.09 %	0.23 %	3
1298 Tulia	0.12 %	0.29 %	3	1387 Willow Park	0.08 %	0.11 %	3
1299 Turkey	0.12 %	0.80 %	3	1388 Wills Point	0.08 %	0.36 %	3
1301 Tye	0.07 %	0.18 %	3	1390 Wilmer	0.07 %	0.11 %	3
1304 Tyler	0.10 %	0.33 %	3	1392 Wimberley	0.13 %	0.24 %	3
1305 Universal City	0.09 %	0.17 %	3	1393 Windcrest	0.11 %	0.22 %	3
1306 University Park	0.12 %	0.23 %	1	1395 Winfield	0.21 %	0.21 %	3
1308 Uvalde	0.09 %	0.25 %	3	1396 Wink	0.16 %	0.23 %	3
1312 Valley Mills	0.12 %	0.12 %	3	1398 Winnsboro	0.12 %	0.24 %	3
1313 Valley View	0.11 %	0.13 %	3	1399 Winona	0.14 %	0.48 %	3
1314 Van	0.12 %	0.36 %	3	1400 Winters	0.08 %	0.66 %	3
1316 Van Alstyne	0.09 %	0.18 %	3	1403 Wolfforth	0.07 %	0.14 %	3
1318 Van Horn	0.11 %	0.22 %	3	1409 Woodcreek	0.21 %	0.36 %	3
1320 Vega	0.09 %	0.24 %	3	1404 Woodsboro	0.12 %	0.16 %	3
1324 Venus	0.06 %	0.16 %	1	1406 Woodville	0.11 %	0.29 %	3
1326 Vernon	0.11 %	0.54 %	3	1407 Woodway	0.10 %	0.18 %	3
1328 Victoria	0.08 %	0.30 %	3	1408 Wortham	0.05 %	0.09 %	3
1329 Vidor	0.16 %	0.37 %	3	1410 Wylie	0.07 %	0.10 %	3
1500 Village Fire Department	0.08 %	0.14 %	3	1412 Yoakum	0.13 %	0.33 %	3
1327 Village of the Hills	0.05 %	0.05 %	3	1414 Yorktown	0.12 %	0.65 %	3
1330 Waco	0.10 %	0.29 %	1	1415 Zavalla	0.07 %	0.09 %	1
1332 Waelder	0.11 %	0.47 %	3				
1334 Wake Village	0.09 %	0.43 %	3				

\*Codes indicating provision adopted as of April 1, 2020: 1 = None, 2 = Actives only, 3 = Actives and Retirees

## SECTION 6

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### SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

## Section 6

### Texas Municipal Retirement System (“TMRS”) Summary of Actuarial Assumptions

These actuarial assumptions were developed primarily from the actuarial investigation of the experience of TMRS over the four year period from December 31, 2014 to December 31, 2018. They were adopted in 2019 and first used in the December 31, 2019 actuarial valuation. The post-retirement mortality assumption for Annuity Purchase Rates (APRs) is based on the Mortality Experience Investigation Study covering 2009 through 2011 and dated December 31, 2013. In conjunction with this change first used in the December 31, 2013 valuation, the System adopted the Entry Age Normal actuarial cost method and a one-time change to the amortization policy. These assumptions apply to both the Pension Trust and the Supplemental Death Benefits Fund as applicable.

#### ***I. Economic Assumptions***

- A. General Inflation – General Inflation is assumed to be 2.50% per year.
- B. Discount/Crediting Rates
  - 1. System-wide Investment Return Assumption: 6.75% per year, compounded annually, composed of an assumed 2.50% inflation rate and a 4.25% net real rate of return. This rate represents the assumed return, net of all investment and administrative expenses. This is the discount rate used to value the liabilities of the individual employers.
  - 2. For the Supplemental Death Benefits Fund, the rate is 4.25% per year, compounded annually, and derived as a blend of 5.00% for the portion of the benefits financed by advance funding contributions and a short-term interest rate for the portion of the benefits financed by current contributions.
  - 3. Assumed discount/crediting rate for Supplemental Disability Benefits Fund and individual employee accounts: an annual rate of 5.00% for (1) accumulating prior service credit and updated service credit after the valuation date, (2) accumulating the employee current service balances, (3) determining the amount of the monthly benefit at future dates of retirement or disability, and (4) calculating the actuarial liability of the system-wide Supplemental Disability Benefits Fund.
- C. Overall Payroll Growth – 2.75% per year, which is used to calculate the contribution rates for the retirement plan of each participating city as a level percentage of payroll. This represents the expected increase in total payroll. This increase rate is solely due to the effect of wage inflation on salaries, with no allowance for future membership growth. However, for cities with a decrease in the number of contributing members from 2008 to 2018, the payroll growth is decreased by half the annual percentage decrease in the count capped at a 1.0% decrease per year and rounded down to the nearest 0.1%.



D. Individual Salary Increases –

Salary increases are assumed to occur once a year, on January 1. Therefore, the pay used for the period year following the valuation date is equal to the reported pay for the prior year, increased by the salary increase assumption. Salaries are assumed to increase by the following graduated service-based scale.

<u>Years of Service</u>	<u>Rate (%)</u>
1	11.50%
2	7.25%
3	6.75%
4	6.25%
5	6.00%
6	5.75%
7	5.50%
8	5.25%
9	5.00%
10	4.75%
11-12	4.50%
13-15	4.25%
16-20	4.00%
21-24	3.75%
25 +	3.50%

- E. Annuity Increase – The Consumer Price Index (CPI) is assumed to be 2.50% per year prospectively. Annuity Increases, when applicable, are 30%, 50%, or 70% of CPI, according to the provisions adopted by each city. The actual future COLA assumptions are as follows: 0.87% per year for the 30% CPI provision, 1.38% per year for the 50% CPI provision, and 1.86% per year for the 70% CPI provision.
- F. Load for Updated Service Credit – To reflect the asymmetric nature of the credits due to the USC provision, there is a load on the final average earnings used in the calculation of 0.1% per year into the future that the calculation is performed.

## II. Demographic Assumptions

### A. Termination Rates

1. For the first 10 years of service, the base table rates vary by gender, entry age, and length of service. For each city the base table is then multiplied by 75% to 125%. A further multiplier is applied depending on an employee's classification: 1) Fire – 68%, 2) Police – 86%, or 3) Other – 108%. A sample of the base rates follows:

#### Males

Age	Service									
	0	1	2	3	4	5	6	7	8	9
20	0.3079	0.2766	0.2305	0.2037	0.1951	0.1764	0.1612	0.1311	0.1078	0.0860
25	0.2798	0.2393	0.1911	0.1638	0.1507	0.1336	0.1210	0.1060	0.0976	0.0798
30	0.2585	0.2163	0.1697	0.1395	0.1138	0.1052	0.0945	0.0817	0.0785	0.0655
35	0.2642	0.2183	0.1663	0.1334	0.1107	0.1048	0.0894	0.0758	0.0655	0.0598
40	0.2602	0.2172	0.1647	0.1279	0.1103	0.0994	0.0849	0.0749	0.0633	0.0608
45	0.2392	0.2040	0.1640	0.1287	0.1110	0.0976	0.0857	0.0750	0.0638	0.0607
50	0.2191	0.1825	0.1489	0.1211	0.1072	0.0935	0.0851	0.0755	0.0636	0.0609
55	0.2112	0.1759	0.1334	0.1132	0.0908	0.0911	0.0813	0.0719	0.0643	0.0591
60	0.2108	0.1626	0.1298	0.1118	0.0833	0.0915	0.0794	0.0721	0.0602	0.0579
65	0.2109	0.1542	0.1305	0.1121	0.0847	0.0914	0.0798	0.0738	0.0577	0.0581
70	0.2109	0.1557	0.1304	0.1121	0.0845	0.0914	0.0797	0.0735	0.0581	0.0581

#### Females

Age	Service									
	0	1	2	3	4	5	6	7	8	9
20	0.3080	0.2836	0.2258	0.2132	0.2030	0.2054	0.1561	0.1565	0.1590	0.1600
25	0.2828	0.2449	0.2101	0.1995	0.1739	0.1690	0.1392	0.1375	0.1206	0.1144
30	0.2617	0.2224	0.1981	0.1791	0.1369	0.1370	0.1297	0.1145	0.0989	0.0817
35	0.2464	0.2153	0.1834	0.1462	0.1294	0.1258	0.1130	0.1103	0.1016	0.0782
40	0.2281	0.2026	0.1641	0.1365	0.1316	0.1115	0.1040	0.0940	0.0847	0.0745
45	0.2227	0.1884	0.1450	0.1359	0.1072	0.1034	0.0909	0.0797	0.0717	0.0737
50	0.2238	0.1823	0.1369	0.1249	0.0901	0.0896	0.0837	0.0735	0.0686	0.0628
55	0.2236	0.1766	0.1372	0.1218	0.0848	0.0819	0.0725	0.0717	0.0696	0.0560
60	0.2236	0.1548	0.1372	0.1191	0.0811	0.0856	0.0656	0.0649	0.0436	0.0386
65	0.2236	0.1454	0.1372	0.1169	0.0813	0.0871	0.0678	0.0603	0.0281	0.0285
70	0.2236	0.1471	0.1372	0.1173	0.0813	0.0868	0.0675	0.0611	0.0308	0.0303

2. After 10 years of service, base termination rates vary by gender and by the number of years remaining until first retirement eligibility. For each city the base table is then multiplied by 75% to 125%. A further multiplier is applied depending on an employee's classification: 1) Fire – 54%, 2) Police – 83%, or 3) Other – 113%. A sample of the base rates follows:

Years from Retirement	Male	Female
1	1.82%	2.34%
2	2.43%	3.15%
3	2.87%	3.75%
4	3.24%	4.25%
5	3.55%	4.67%
6	3.83%	5.06%
7	4.08%	5.40%
8	4.32%	5.72%
9	4.53%	6.02%
10	4.74%	6.30%
11	4.93%	6.57%
12	5.11%	6.82%
13	5.28%	7.06%
14	5.45%	7.28%
15	5.60%	7.50%

Termination rates end at first eligibility for retirement

- B. Forfeiture Rates (Withdrawal of Member Deposits from TMRS) for vested members vary by age and employer match, and they are expressed as a percentage of the termination rates shown in (A). The withdrawal rates for cities with a 2-to-1 match are shown below. 4% is added to the rates for 1-1½-to-1 cities, and 8% is added for 1-to-1 cities.

Age	Percent of Terminating Employees Choosing to Take a Refund
25	40.2%
30	40.2%
35	40.2%
40	37.0%
45	31.6%
50	26.1%
55	20.7%

Forfeiture rates end at first eligibility for retirement.



C. Service Retirees and Beneficiary Mortality Rates

For calculating the actuarial liability and the retirement contribution rates, the Gender-distinct 2019 Municipal Retirees of Texas mortality tables. The rates are projected on a fully generational basis by Scale UMP to account for future mortality improvements. The life expectancies for a 65 year old retiree (including projection) are as follows:

Life Expectancy for an Age 65 Retiree (in Years)					
Gender	Year of Retirement				
	2020	2025	2030	2035	2040
Male	19.7	20.1	20.5	20.9	21.3
Female	23.2	23.6	24.0	24.3	24.7

D. Disabled Annuitant Mortality Rates

For calculating the actuarial liability and the retirement contribution rates, the mortality tables for healthy retirees is used with a 4 year set-forward for males and a 3 year set-forward for females. In addition, a 3.5% and 3% minimum mortality rate will be applied to reflect the impairment for younger members who become disabled for males and females, respectively. The rates are projected on a fully generational basis by Scale UMP to account for future mortality improvements subject to the 3% floor.

E. Pre-Retirement Mortality

For calculating the actuarial liability and the retirement contribution rates, the PUB(10) mortality tables, with the Public Safety table used for males and the General Employee table used for females. The rates are projected on a fully generational basis by Scale UMP to account for future mortality improvements.

F. Annuity Purchase Rates

For determining the amount of the monthly benefit at the time of retirement for both healthy and disabled annuitants, the annuity purchase rates (APRs) until 2027 are based on a mortality study performed in 2013, with the factors phasing into being based on a unisex blend of the RP-2000 Combined Healthy Mortality Tables with Blue Collar Adjustment for males and females with both male and female rates multiplied by 107.5% and projected on a fully generational basis with scale BB. The current table of APRs is explicitly valued through 2032 and then it is assumed the APRs and the valuation mortality assumptions will be consistent over time. For members, a unisex blend of 70% of the males table and 30% of the female table is used, while 30% of the male table and 70% of the female table is used for beneficiaries.

G. Disability Rates

Age	Males & Females
20	0.000003
25	0.000019
30	0.000074
35	0.000194
40	0.000371
45	0.000603
50	0.000891
55	0.001235
60	0.001635
65	0.002090

H. Service Retirement Rates, applied to both Active and Inactive Members

The base table rates vary by age. These rates are adjusted then multiplied by 2 factors based on 1) employee contribution rate and employer match and 2) if the city has a recurring COLA.

Age	
<50	0.05
50-51	0.07
52-54	0.08
55-59	0.13
60	0.16
61	0.17
62	0.25
63-64	0.20
65-74	0.30
75 and over	1.00

Note: For cities without a 20-year/any age retirement provision, the rates are loaded by 50% for ages 60 & below with 25 or more years of service.

Plan Design Factors Applied to Base Retirement Rates

Employer Match	Employee Contribution Rate		
	5%	6%	7%
1 - 1	0.75	0.80	0.84
1.5 - 1	0.81	0.86	0.92
2 - 1	0.86	0.93	1.00

Recurring COLA: 100%

No Recurring COLA: 95%

### **III. Methods and Assumptions**

- A. Valuation of Assets – The actuarial value of assets is based on the market value of assets with a ten-year phase-in of actual investment return in excess of (less than) expected investment income. Offsetting unrecognized gains and losses are immediately recognized, with the shortest remaining bases recognized first and the net remaining bases continue to be recognized on their original timeframe. The actuarial value of assets is further adjusted by 33% of any difference between the initial value and a 12% corridor around the market value of assets, if necessary.
- B. Actuarial Cost Method: The actuarial cost method being used is known as the Entry Age Normal Actuarial Cost Method. The Entry Age Normal Actuarial Cost Method develops the annual cost of the Plan in two parts: that attributable to benefits accruing in the current year, known as the normal cost, and that due to service earned prior to the current year, known as the amortization of the unfunded actuarial accrued liability. The normal cost and the actuarial accrued liability are calculated individually for each member. The normal cost rate for an employee is the contribution rate which, if applied to a member’s compensation throughout their period of anticipated covered service with the municipality, would be sufficient to meet all benefits payable on their behalf. The normal cost is calculated using an entry age based on benefit service with the current city. If a member has additional time-only vesting service through service with other TMRS cities or other public agencies, they retain this for determination of benefit eligibility and decrement rates. The salary-weighted average of these rates is the total normal cost rate. The unfunded actuarial accrued liability reflects the difference between the portion of projected benefits attributable to service credited prior to the valuation date and assets already accumulated. The unfunded actuarial accrued liability is paid off in accordance with a specified amortization procedure outlined in C below.
- C. Amortization Policy: For “underfunded” cities the amortization as of the valuation date is a level percentage of payroll over a closed period using the process of “laddering”. Bases that existed prior to this valuation continue to be amortized on their original schedule. For cities with twenty or more employees new experience losses are amortized over individual periods of not more than 25 years. Beginning December 31, 2020, new loss bases for cities with fifteen or more employees will be amortized over individual periods of not more than 20 years. New gains (including lump sum contributions) are offset against and amortized over the same period as the current largest outstanding loss base for the specific City which in turn decreases contribution rate volatility.

Once a City reaches an “overfunded” status, all prior bases are erased and an amount of the surplus is credited against the contribution rate to keep the funded ratio constant year over year.

Ad hoc benefit enhancements are amortized over individual periods using a level dollar policy. The period will be based on the minimum of 12 years or the current life expectancy of the covered group. However, if the non-ad hoc (level percent) amortization factor is smaller due to a shorter amortization period based on the employer's size, as described below, ad hoc enhancements will be amortized the same as any other loss.

- D. Small City Methodology – For cities with fewer than twenty employees, more conservative methods and assumptions are used. First, lower termination rates are used for smaller cities, with maximum multipliers of 75% for employers with less than 6 members, 85% for employers with 6 to 10 members, 100% for employers with 11 to 15 members, and 110% for employers with less than 100 members.

There is also a load on the life expectancy for employers with less than 15 active members. The life expectancy will be loaded by decreasing the mortality rates by 1% for every active member less than 15. For example, an employer with 5 active members will have the baseline mortality tables multiplied by 90% (10 active members times 1%).

For underfunded plans, the maximum period for amortizing losses is decreased by 1 year for each active member less than the 20 member threshold. For example, an employer with 8 active members and a current maximum amortization period of 25 will use  $(25 - (20 - 8)) = 13$  year amortization period for the gain or loss in that year's valuation. Under this policy, the lowest amortization period will be  $25 - (20 - 1) = 6$  years. Once the plan is overfunded, the amortization period will revert back to the standard policy. Beginning December 31, 2020, the member threshold will be lowered to 15 to be consistent with the decrease in the standard amortization period to 20.

- E. Supplemental Death Benefit Fund – The contribution rate for the Supplemental Death Benefit (SDB) is equal to the expected benefit payments during the upcoming year divided by the annualized pay of current active members and is calculated separately for actives and retirees. The SDB rate for retiree coverage is equal to the expected term cost. Due to the significant reserve in the Supplemental Death Benefit Fund, the SDB rate for active coverage is equal to the expected term cost minus a credit of 2% of the fund balance as of the valuation date, expressed as a percentage of covered payroll for the participating employers.

#### **IV. Other Assumptions**

1. Valuation payroll (used for determining the amortization contribution rate): A weighted average of the actual payroll during the prior fiscal years, with 33% weight given to the most recent year and 67% weight given to the expected payroll for the previous fiscal year, moved forward with one year's payroll growth rate and adjusted for changes in population.

2. Individual salaries used to project benefits: For members with more than three years of service, actual salaries from the past three fiscal years are used to determine the USC final average salary as of the valuation date. For future salaries, this three-year average is projected forward with two years of salary scale to create the salary for the year following the valuation. This value is then projected with normal salary scales.
3. Timing of benefit payments: Benefit payments are assumed to be made in the middle of the month. Although TMRS benefits are paid at the end of the month, eligibility for that payment is determined at the beginning of the month. A middle of month payment approximates the impact of the combination of eligibility determination and actual payment timing.
4. Percent married: 100% of the employees are assumed to be married.
5. Age difference: Male members are assumed to be three years older than their spouses, and female members are assumed to be three years younger than their spouses.
6. Optional Forms: All healthy and disabled members are assumed to choose a 50% Joint and Survivor option when they retire. For healthy members, this is approximated by reducing the benefit payment by a factor equal to 2.1% at age 60 (with adjustments by age). The 2.1% is effective for the 2019 calendar year and will reduce by 10% each year until the phase into the APR rates is complete, at which time there will be no need for such factor.
7. Percent electing annuity on death (when eligible): For vested members not eligible for retirement, 75% of the spouses of male members and 70% of the spouses of female members are assumed to commence an immediate benefit in lieu of a deferred annuity or a refund. Those not electing an immediate benefit are assumed to take a refund. All of the spouses of married participants who die after becoming eligible for a retirement benefit are assumed to elect an annuity that commences immediately.
8. Partial Lump Sum Utilization: It is assumed that each member at retirement will withdraw 40% of their eligible account balance.
9. Inactive Population: All non-vested members of a city are assumed to take an immediate refund if they are not contributing members in another city. Vested members not contributing in another city are assumed to take a deferred retirement benefit, except for those who have terminated in the past 12 months for whom one year of forfeiture probability is assumed. The forfeiture rates for inactive members of a city who are contributing members in another city are equal to the probability of termination multiplied by the forfeiture rates shown in II(A) and II(B) respectively. These rates are applied each year until retirement eligibility. Once a member is retirement eligible, they are assumed to commence benefits based on the service retirement rates shown in II(H).
10. There will be no recoveries once disabled.

11. No surviving spouse will remarry and there will be no children's benefit.
12. Decrement timing: Decrements of all types are assumed to occur mid-year.
13. Eligibility testing: Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
14. Decrement relativity: Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects.
15. Incidence of Contributions: Contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made.
16. Benefit Service: All members are assumed to accrue 1 year of eligibility service each year.
17. The decrement rates for service related decrements are based on total TMRS eligibility service.

#### **V. Participant Data**

Participant data was supplied in electronic text files. There were separate files for (i) active and inactive members, and (ii) members and beneficiaries receiving benefits.

The data for active members included birthdate, gender, service with the current city and total vesting service, salary, employee contribution account balances, as well as the data used in the next calculation of the Updated Service Credit (USC). For retired members and beneficiaries, the data included date of birth, gender, spouse's date of birth (where applicable), amount of monthly benefit, date of retirement, form of payment code, and aggregate increase in the CPI that will be used in the next calculation of the cost of living adjustment.

To the extent possible we have made use of all available data fields in the calculation of the liabilities stated in this report. Actual CPI is used to model the wear-away effect or "catch-up" when a city changes its COLA provisions. Adjustments are made for members who have service both in a city with "20 and out" retirement eligibility and one that hasn't adopted it to calculate the earliest possible retirement date.

Salary supplied for the current year was based on the annualized earnings for the year preceding the valuation date.

Assumptions were made to correct for missing, bad, or inconsistent data. These had no material impact on the results presented.

## SECTION 7

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### SUMMARY OF BENEFIT PROVISIONS

## Section 7

### Texas Municipal Retirement System Summary of Plan Benefit Provisions

The plan provisions are adopted by the governing body of each city, within the options available in the state statutes governing TMRS. Members in most cities can retire at age 60 and above with 5 or more years of service or with 20 years of service regardless of age. Some cities have elected retirement eligibility at age 60 with 10 years of service and/or with 25 years of service regardless of age. Most plans also provide death benefits and all provide disability benefits. Effective January 1, 2002, members are vested after 5 years, unless a city opted to maintain 10-year vesting. Members may work for more than one TMRS city during their career. If an individual has become vested in one TMRS city, he or she is immediately vested upon employment with another TMRS city. Similarly, once a member has met the eligibility requirements for retirement in a TMRS city, he or she is eligible in other TMRS cities as well.

Upon retirement, benefits depend on the sum of the employee's contributions, with interest, and the city-financed monetary credits, with interest. City-financed monetary credits are composed of three sources: prior service credits, current service credits, and updated service credits. The available member deposit rates are 5%, 6%, or 7% (some cities were grandfathered at a 3% rate), while the city's matching ratio will be 100%, 150%, or 200%. The balance at the beginning of each year is granted an interest credit as determined by the Board (employee account balances are guaranteed at least 5% interest).

- **Prior Service Credits:** At the inception of each city's plan, the city granted monetary credits for service rendered before the plan began of a percentage, adopted by the city, of a theoretical amount at least equal to two times what would have been contributed by the employee, with interest (3% annual), prior to establishment of the plan.
- **Current Service Credits:** Monetary credits for service since each plan began are a percent of the employee's accumulated contributions based on the city's matching rate in effect at the time the employee contributions are made.
- **Updated Service Credit (USC):** This monetary credit is determined by recalculating the member's account balance by assuming that the current member deposit rate of the currently employing city has always been in effect to create a hypothetical balance. The computation also assumes that the member's salary has always been the member's average salary during the 36-month period ending 13 months before the effective date of calculation. This hypothetical account balance is increased by 3% each year (not the actual interest credited to member accounts in previous years), and increased by the city match currently in effect. The resulting sum is then compared to the member's actual account





balance increased by the actual city match and actual interest credited. If the hypothetical balance exceeds the actual balance and the difference between them exceeds the current USC or Prior Service Credit, the member is granted a monetary credit (the new USC) equal to the difference between the hypothetical balance and the actual balance. The calculation may be done on a repeating or an ad hoc basis.

At retirement, the benefit is calculated as if the sum of the employee's contributions with interest and the city-financed monetary credits with interest were used to purchase an annuity. Members may choose to receive their retirement benefit in one of seven payment options: retiree life only; one of three lifetime survivor options; or one of three guaranteed term options. Members may also choose to receive a portion of their benefit as a Partial Lump Sum Distribution (PLSD) in an amount equal to 12, 24, or 36 monthly payments under the retiree life only option, which cannot exceed 75% of the total member deposits and interest. A member city may elect to increase the annuities of its retirees, either annually or on an annually repeating basis, effective January 1 of a calendar year. Cities may adopt annuity increases at a rate equal to either 30%, 50%, or 70% of the increase (if any) in the Consumer Price Index — all Urban Consumers (CPI-U) between the December preceding the member's retirement date and the December 13 months before the effective date of the increase, minus any previously granted increases.

## Section 7

### Texas Municipal Retirement System

#### Summary of Benefit Provision Changes Reflected in 12/31/2019 Valuation

CITY	Changes
Alba	1) Granted 100% ad hoc USC with transfer. 2) Increased municipal matching ratio from 1 - 1 to 2 - 1.
Aledo	1) Adopted 50% repeating USC. 2) Adopted 70% repeating COLA.
Amarillo	To allow current and future employees of the EDC to participate in TMRS.
Anna	Adopted restricted prior service credit. *
Atlanta	1) Increased municipal matching ratio from 1 - 1 to 1.5 - 1. 2) Increased statutory max to 9.50% due to plan changes.
Aubrey	Adopted restricted prior service credit. *
Baytown	Adopted buy-back provision. *
Bells	1) Increased employee contribution rate from 5% to 7%. 2) Increased municipal matching ratio from 1 - 1 to 1.5 - 1.
Bertram	1) Increased municipal matching ratio from 1 - 1 to 2 - 1. 2) Increased statutory max to 11.50% due to plan changes.
Boerne	Adopted restricted prior service credit. *
Bonham	1) Increased municipal matching ratio from 1.5 - 1 to 2 - 1. 2) Increased statutory max to 12.50% due to plan changes.
Brenham	1) Granted 70% ad hoc COLA. 2) Removed statutory max.
Bryson	1) Adopted 20 yr, any age retirement eligibility. 2) Increased employee contribution rate from 5% to 7%. 3) Increased municipal matching ratio from 1.5 - 1 to 2 - 1. 4) Increased statutory max to 13.50% due to plan changes.
Bullard	1) Increased employee contribution rate from 5% to 6%. 2) Increased statutory max to 12.50% due to plan changes.
Burton	Discontinued Participation in TMRS for employees hired or rehired on or after February 1, 2020.
Chandler	Increased municipal matching ratio from 1 - 1 to 1.5 - 1.
Clarksville	Adopted restricted prior service credit. *
Combes	Rescinded supplemental death benefit for both actives and retirees.
Comanche	Adopted restricted prior service credit. *
Corpus Christi	Decreased repeating COLA from 70% to 30%.
Cross Roads	Adopted restricted prior service credit. *
Double Oak	Increased employee contribution rate from 6% to 7%.
Dumas	1) Increased employee contribution rate from 5% to 6%. 2) Increased municipal matching ratio from 1.5 - 1 to 2 - 1. 3) Removed statutory max.
Eagle Lake	Adopted 5 year vesting.
Edgewood	Increased municipal matching ratio from 1 - 1 to 2 - 1.
El Campo	Increased employee contribution rate from 6% to 7%.
Farwell	Adopted 20 yr, any age retirement eligibility.
Fredericksburg	Increased employee contribution rate from 5% to 6%.
Frisco	Adopted buy-back provision. *
Ganado	Adopted restricted prior service credit. *
Granger	1) Increased employee contribution rate from 5% to 7%. 2) Increased municipal matching ratio from 1 - 1 to 2 - 1. 3) Increased statutory max to 13.50% due to plan changes.
Gruver	Removed statutory max.
Hale Center	1) Adopted 100% repeating USC with transfer. 2) Adopted 50% repeating COLA.
Hamlin	Decreased municipal matching ratio from 2 - 1 to 1 - 1.
Helotes	1) Increased employee contribution rate from 6% to 7%. 2) Increased statutory max to 13.50% due to plan changes.
Hickory Creek	Adopted buy-back provision. *
Highland Park	Granted 75% ad hoc USC with transfer.
Hubbard	1) Increased employee contribution rate from 5% to 6%. 2) Increased municipal matching ratio from 1 - 1 to 1.5 - 1.
Hurst	Granted 30% ad hoc COLA.

\* Reflects possible rate impact. No change to current rate.

**Section 7**

**Texas Municipal Retirement System**

**Summary of Benefit Provision Changes Reflected in 12/31/2019 Valuation**

CITY	Changes
Ingram	1) Increased municipal matching ratio from 1.5 - 1 to 2 - 1. 2) Increased statutory max to 11.50% due to plan changes.
Jewett	Removed statutory max.
Keene	Adopted 20 yr, any age retirement eligibility.
Kerens	Increased municipal matching ratio from 1 - 1 to 2 - 1.
Killeen	1) Granted 100% ad hoc USC with transfer. 2) Granted 70% ad hoc COLA.
La Coste	1) Increased employee contribution rate from 5% to 6%. 2) Increased statutory max to 8.50% due to plan changes.
La Feria	Increased municipal matching ratio from 1 - 1 to 1.5 - 1.
La Vernia	1) Increased employee contribution rate from 6% to 7%. 2) Increased municipal matching ratio from 1 - 1 to 1.5 - 1.
Lakeside	1) Increased employee contribution rate from 6% to 7%. 2) Increased statutory max to 13.50% due to plan changes.
Laredo	Allowed participation of elected officials.*
Lavon	Increased employee contribution rate from 6% to 7%.
Magnolia	1) Increased municipal matching ratio from 1 - 1 to 2 - 1. 2) Increased statutory max to 12.50% due to plan changes.
Marble Falls	Increased repeating USC with transfer from 75% to 100%.
McAllen	Granted 100% ad hoc USC with transfer.
Meadows Place	1) Granted 100% ad hoc USC. 2) Granted 70% ad hoc COLA.
Memphis	Increased employee contribution rate from 5% to 7%.
Merkel	Increased employee contribution rate from 6% to 7%.
Mesquite	Granted 50% ad hoc COLA.
Missouri City	1) Granted 100% ad hoc USC with transfer. 2) Granted 70% ad hoc COLA.
Mont Belvieu	Adopted 20 yr, any age, retirement eligibility.
Moody	Adopted restricted prior service credit. *
New Waverly	1) Increased municipal matching ratio from 1.5 - 1 to 2 - 1. 2) Removed statutory max.
Northlake	Adopted restricted prior service credit. *
Oyster Creek	Adopted restricted prior service credit. *
Parker	Adopted 20 yr, any age retirement eligibility.
Port Neches	Granted 30% ad hoc COLA.
Quintana	Increased employee contribution rate from 5% to 7%.
Reno (Parker County)	Adopted restricted prior service credit. *
San Antonio	Granted 70% ad hoc COLA.
San Juan	1) Adopted 20 yr, any age retirement eligibility. 2) Increased municipal matching ratio from 1.5 - 1 to 2 - 1. 3) Increased statutory max to 12.50% due to plan changes.
Sansom Park	Adopted restricted prior service credit. *
Shallowater	Adopted restricted prior service credit. *
Shiner	Increased municipal matching ratio from 1 - 1 to 1.5 - 1.
Sudan	1) Granted 100% ad hoc USC with transfer. 2) Granted 70% ad hoc COLA.
Sulphur Springs	Granted 100% ad hoc USC with transfer.
Tahoka	Granted 100% ad hoc USC.
Talty	Increased municipal matching ratio from 1 - 1 to 2 - 1.
Taylor	1) Decreased repeating COLA from 70% to 30%. 2) Increased municipal matching ratio from 1.5 - 1 to 2 - 1.
Tex Municipal League IEBP	Granted 100% ad hoc USC.
Thrall	Adopted restricted prior service credit. *
Troy	Adopted 20 yr, any age retirement eligibility.
Village of the Hills	Adopted 100% repeating USC.
Weslaco	1) Granted 50% ad hoc USC with transfer. 2) Granted 30% ad hoc COLA.

\* Reflects possible rate impact. No change to current rate.

Section 7

Texas Municipal Retirement System

Summary of Benefit Provision Changes Reflected in 12/31/2019 Valuation

CITY	Changes
West	1) Granted 70% ad hoc COLA. 2) Increased municipal matching ratio from 1.5 - 1 to 2 - 1. 3) Increased statutory max to 11.50% due to plan changes.
Westover Hills	1) Increased municipal matching ratio from 1 - 1 to 2 - 1. 2) Increased statutory max to 13.50% due to plan changes.
White Oak	Adopted buy-back provision. *
Wichita Falls	Adopted 7% employee contribution rate for all employees (rate was 5% for some employees).
Woodsboro	Adopted restricted prior service credit. *
Woodway	Adopted restricted prior service credit. *

\* Reflects possible rate impact. No change to current rate.

## **SECTION 8**

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### **RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION**

## Section 8

### Texas Municipal Retirement System

#### Risks Associated With Measuring the Accrued Liability and Actuarially Determined Contribution

The determination of the accrued liability and the actuarially determined contribution requires the use of assumptions regarding future economic and demographic experience. Risk measures, as illustrated in this report, are intended to aid in the understanding of the effects of future experience differing from the assumptions used in the course of the actuarial valuation. Risk measures may also help with illustrating the potential volatility in the accrued liability and the actuarially determined contribution that results from the differences between actual experience and the actuarial assumptions.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions due to changing conditions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period, or additional cost or contribution requirements based on the Plan's funded status); and changes in plan provisions or applicable law. The scope of an actuarial valuation does not include an analysis of the potential range of such future measurements.

Examples of risk that may reasonably be anticipated to significantly affect the plan's future financial condition include:

1. Investment risk – actual investment returns may differ from the expected returns;
2. Asset/Liability mismatch – changes in asset values may not match changes in liabilities, thereby altering the gap between the accrued liability and assets and consequently altering the funded status and contribution requirements;
3. Contribution risk – actual contributions may differ from expected future contributions. For example, actual contributions may not be made in accordance with the plan's funding policy or material changes may occur in the anticipated number of covered employees, covered payroll, or other relevant contribution base;
4. Salary and Payroll risk – actual salaries and total payroll may differ from expected, resulting in actual future accrued liability and contributions differing from expected;
5. Longevity risk – members may live longer or shorter than expected and receive pensions for a period of time other than assumed;
6. Other demographic risks – members may terminate, retire or become disabled at times or with benefits other than assumed resulting in actual future accrued liability and contributions differing from expected.

The effects of certain trends in experience can generally be anticipated. For example, if the investment return since the most recent actuarial valuation is less (or more) than the assumed rate, the cost of the plan can be



expected to increase (or decrease). Likewise if longevity is improving (or worsening), increases (or decreases) in cost can be anticipated.

The computed contribution rates shown in this report may be considered as a minimum contribution rate that complies with the Board’s funding policy and state statute. The timely receipt of the actuarially determined contributions is critical to support the financial health of the plan. Users of this report should be aware that contributions made at the actuarially determined rate do not necessarily guarantee benefit security.

With each valuation there is a presentation of the summary of findings to the Board. Included are various discussions and scenarios of potential risks.

**Investment Risk Scenario Testing - Benefit Accumulation Fund (Smoothed)**

The funded status and Actuarially Determined Contributions (ADC) are based on numerous actuarial assumptions that have been selected based on the System’s past experience and future expectations, including the expected annual investment return of 6.75%. The basis for the 6.75% investment return assumption has been detailed in Section 6 of this report.

The following table illustrates the projected Funded Ratio and ADC over the next five years assuming alternative investment returns on the market value of assets. The projections are based on actuarial assumptions (other than investment returns), methods and plan provisions used in this valuation.

Three scenarios of projected results are shown assuming annual net investment returns equal to:

1. The expected 25th percentile annual investment return over a 10-year period, based on the assumed investment return of 6.75% and an assumed standard deviation of 10.6% (approximately 4.50% per year)
2. The annual investment return assumed in this valuation of 6.75%
3. The expected 75th percentile annual investment return over a 10-year period, based on the assumed investment return of 6.75% and an assumed standard deviation of 10.6% (approximately 9.00% per year)

	Projected Investment Return					
	4.50%		6.75%		9.00%	
December	Funded Ratio	ADC	Funded Ratio	ADC	Funded Ratio	ADC
2019	88.0%	13.65%	88.0%	13.65%	88.0%	13.65%
2020	88.5%	13.66%	88.7%	13.60%	88.9%	13.53%
2021	89.0%	13.72%	89.6%	13.54%	90.2%	13.34%
2022	89.4%	13.84%	90.5%	13.47%	91.6%	13.07%
2023	89.5%	14.03%	91.3%	13.41%	93.1%	12.73%
2024	89.6%	14.24%	92.0%	13.32%	94.7%	12.27%

In the 4.50% scenario, which assumes the actual returns on a market basis are less than the 6.75% assumed return, the ADC increases over the period are muted due to recognizing the currently deferred investment



gains from calendar year 2019. However, the combination of the funding policy (closed amortization strategy) and deferred gain recognition continues to increase the Funded Ratio.

**Plan Maturity Measures**

Risks facing a pension plan evolve over time. A young plan with virtually no investments and paying few benefits may experience little investment risk. An older plan with a large number of members in pay status and a significant trust may be much more exposed to investment risk. Generally accepted plan maturity measures include the following:

**Aggregate Benefit Accumulation Fund Results**

	2019	2018
Ratio of the market value of assets to total payroll	4.6	4.2
Ratio of actuarial accrued liability to payroll	5.2	5.2
Ratio of actives to retirees and beneficiaries	1.6	1.7
Net cash flow as a percentage of market value of assets	-0.4%	-0.3%
Duration of the actuarial accrued liability	17.5	18.0
Average Change in Contribution Rate with 10% decline in assets (smoothed)	0.28%	0.27%
Average Change in Contribution Rate with 10% decline in assets (unsmoothed)	2.80%	2.70%

**RATIO OF MARKET VALUE OF ASSETS TO PAYROLL:** The relationship between assets and payroll is a useful indicator of the potential volatility of contributions. For example, if the market value of assets is 4.0 times the payroll, a return on assets 5% different than assumed would equal 20% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in plan sponsor contributions as a percentage of payroll.

**RATIO OF ACTUARIAL ACCRUED LIABILITY TO PAYROLL:** The ratio of liability to payroll may also be used as a measure of sensitivity of the liability itself. For example, if the actuarial accrued liability is 5.0 times the payroll, a change in liability 2% other than assumed would equal 10% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in liability (and also plan sponsor contributions) as a percentage of payroll.

The relationship between the actuarial accrued liability and payroll is a useful indicator of the potential longer term asset-related volatility once the current UAAL is fully amortized. A funding policy that targets a funded ratio of 100% is expected to result in the ratio of assets to payroll and the ratio of liability to payroll converging over time.

**RATIO OF ACTIVES TO RETIREES AND BENEFICIARIES:** A young plan with many active members and few retirees will have a high ratio of active to retirees. A mature open plan may have close to the same number of





actives to retirees resulting in a ratio near 1.0. A super-mature or closed plan may have significantly more retirees than actives resulting in a ratio below 1.0.

**NET CASH FLOW AS A PERCENTAGE OF MARKET VALUE OF ASSETS:** A positive net cash flow means contributions exceed benefits and expenses. A negative cash flow means existing funds are being used to make payments. A certain amount of negative net cash flow is generally expected to occur when benefits are prefunded through a qualified trust. Large negative net cash flows as a percent of assets may indicate a super-mature plan or a need for additional contributions.

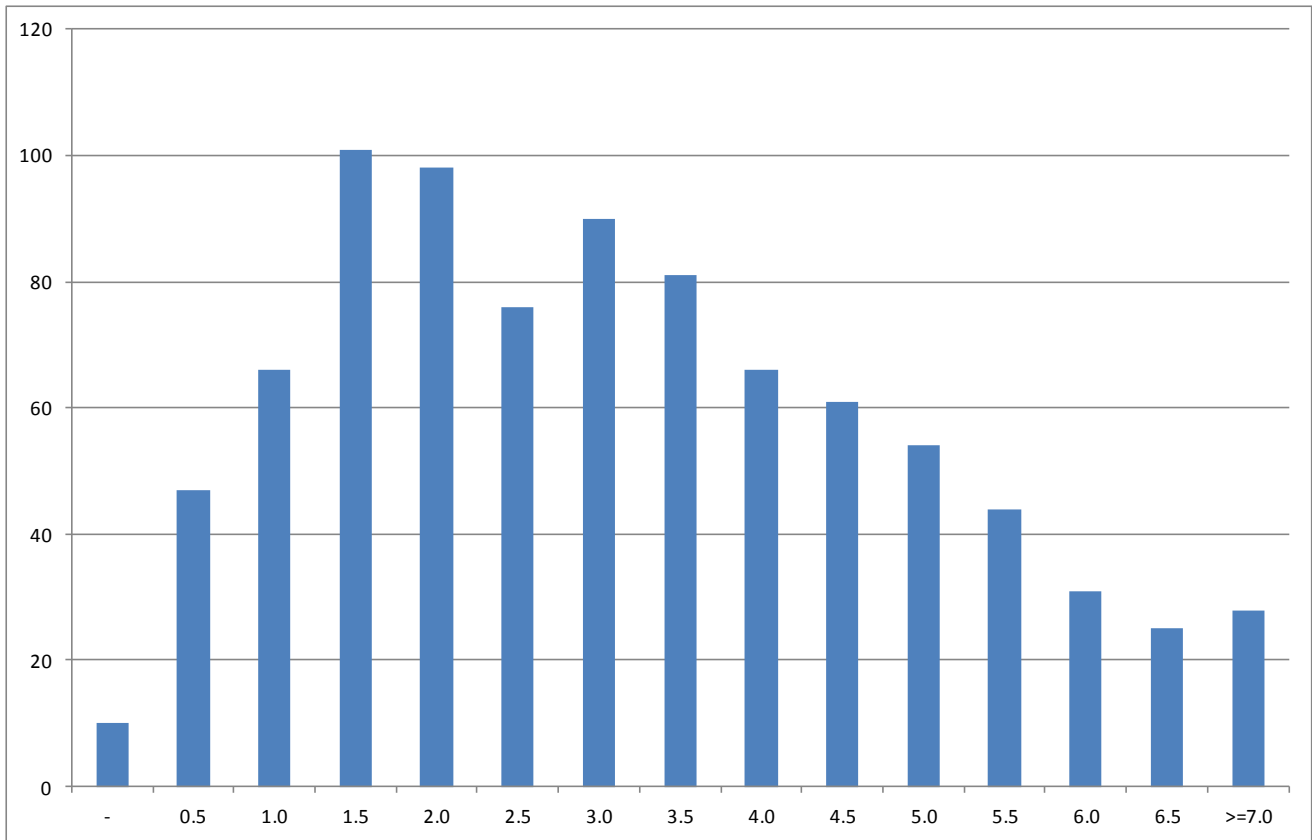
**DURATION OF LIABILITIES:** The duration of the present value of future benefits may be used to approximate the sensitivity to a 1% change in the assumed rate of return. For example, duration of 10 indicates that the present value of future benefits would increase approximately 10% if the assumed rate of return were lowered 1%. This also is an approximation of the discount-weighted average time horizon of the liability.

**CHANGE IN CONTRIBUTION RATE WITH 10% DECLINE IN ASSETS (SMOOTHED):** This shows the rate impact in one year if the actuarial value of assets (AVA) was 10% lower than in the current actuarial valuation with the asset loss smoothed over a 10 year period as is done in the system-wide calculation of the AVA.

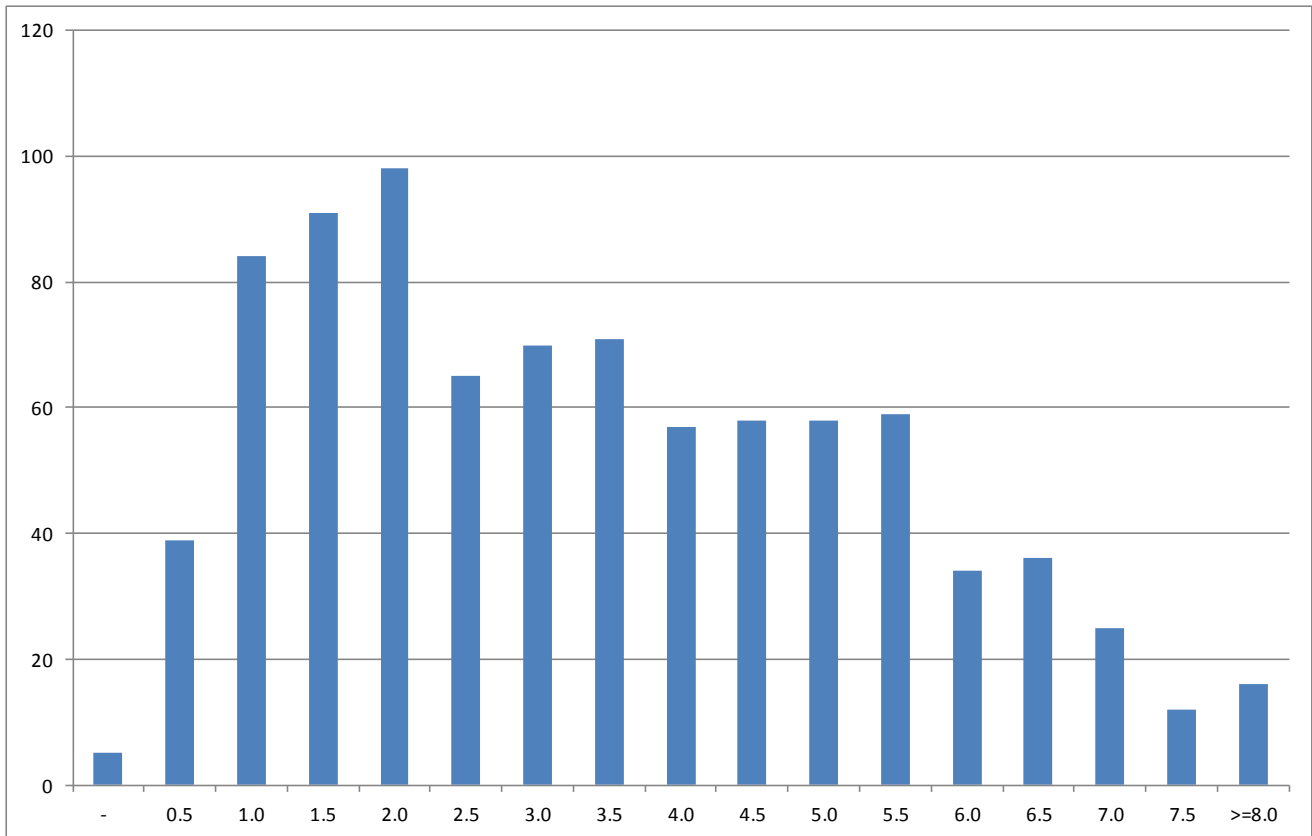
**CHANGE IN CONTRIBUTION RATE WITH 10% DECLINE IN ASSETS (UNSMOOTHED):** This shows the rate impact if the actuarial value of assets was 10% lower than in the current actuarial valuation with the full asset loss recognized in the current valuation.

## Distribution of Measures

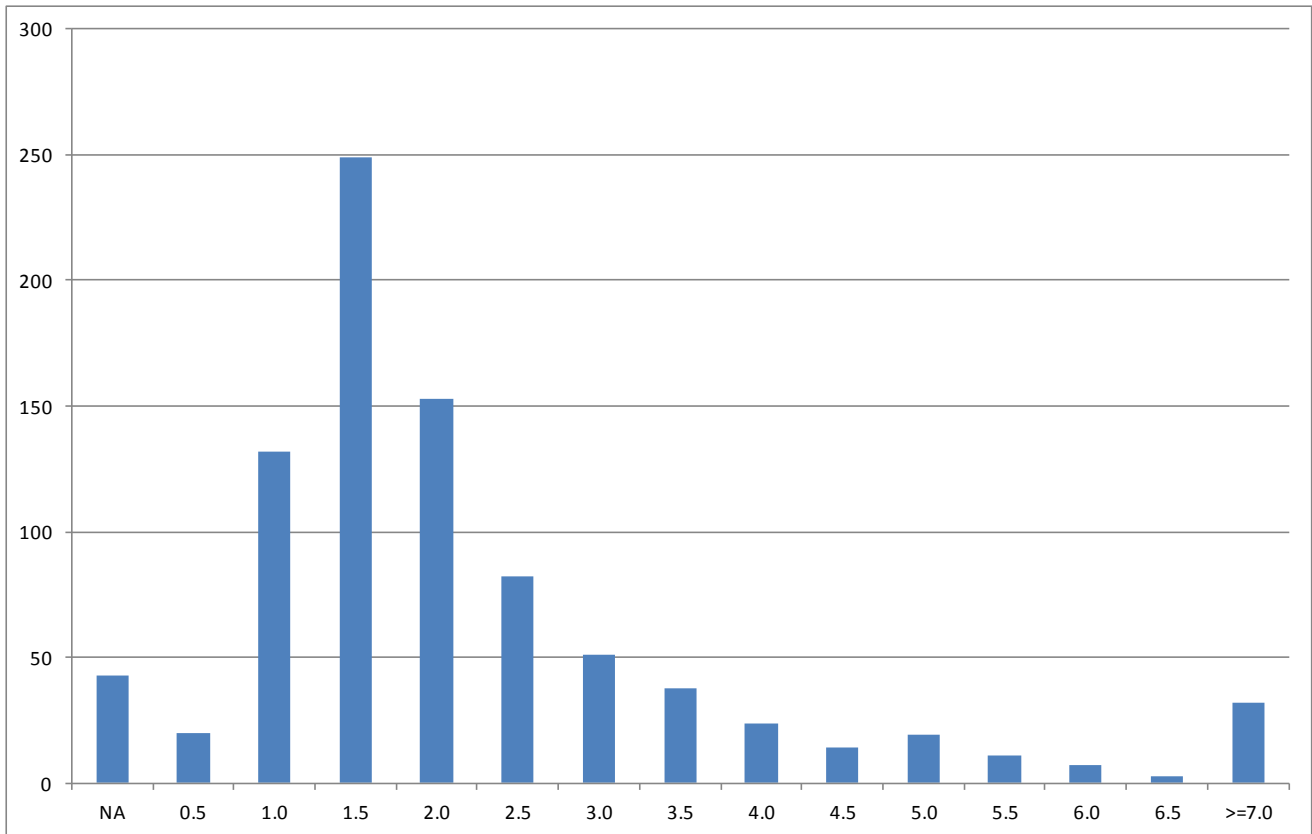
### Ratio of the Market Value of Assets to Total Payroll



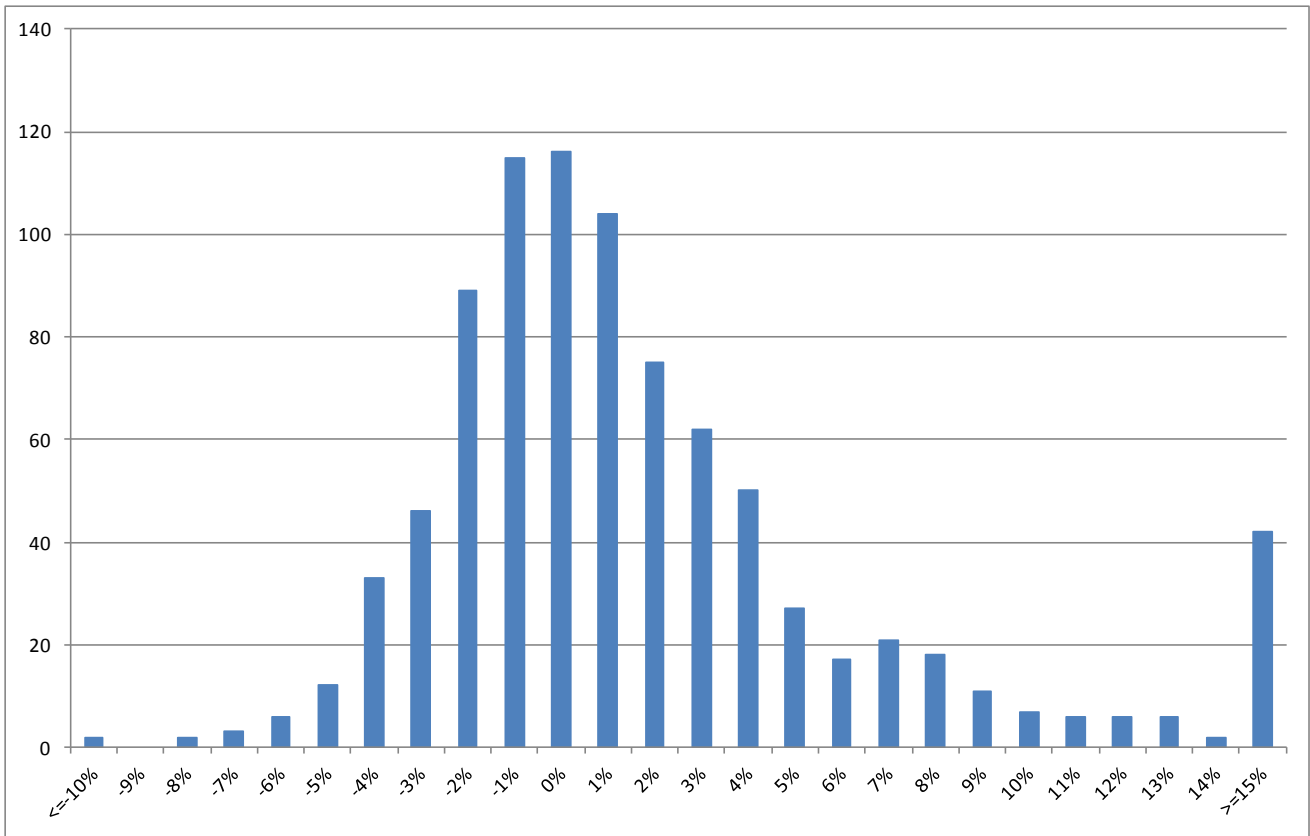
## Distribution of Measures Ratio of Actuarial Accrued Liability to Payroll



## Distribution of Measures Active to Retiree Ratio

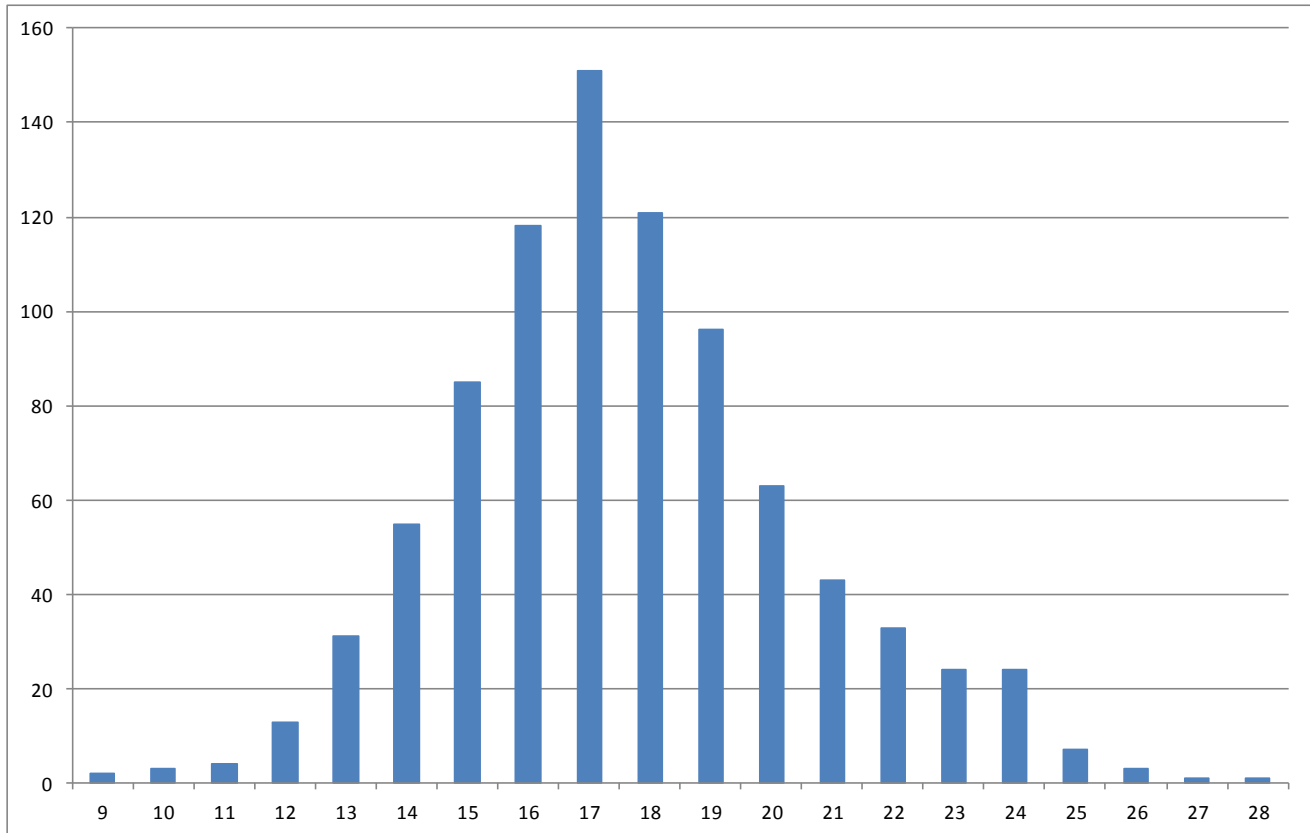


## Distribution of Changes Net Cash Flow as a Percentage of Market Value of Assets



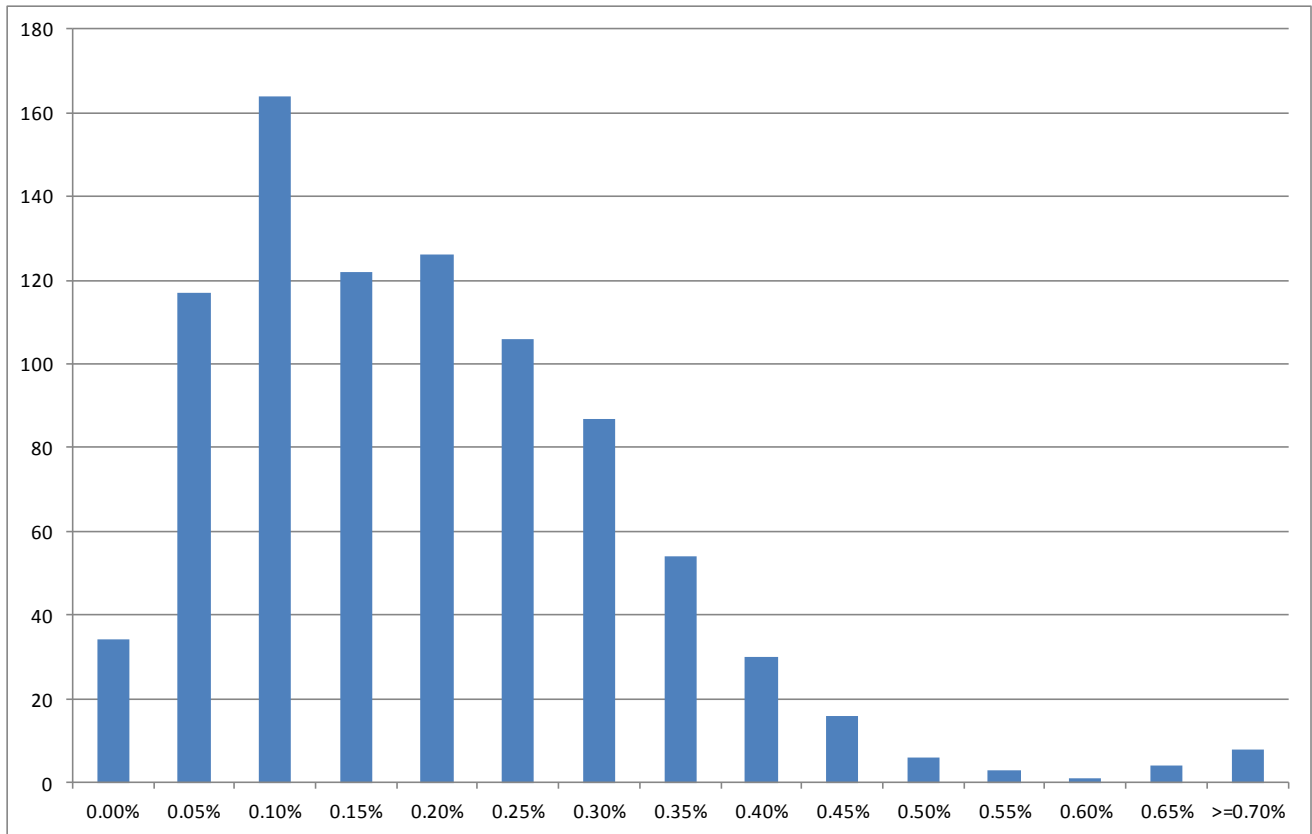
## Distribution of Measures

### Duration of Liabilities

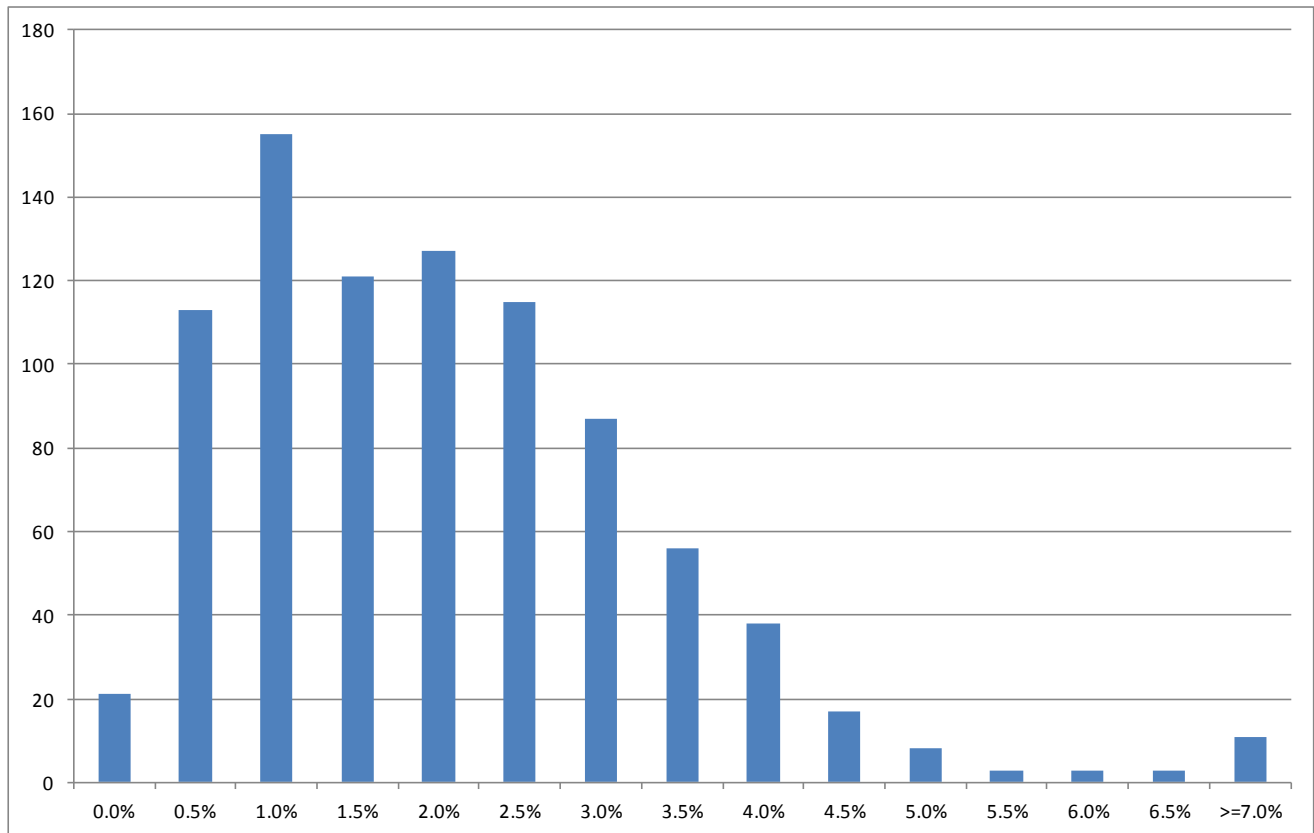


## Distribution of Changes

### Average Change in Contribution Rate with 10% Decline in Assets (Smoothed)



## Distribution of Changes Average Change in Contribution Rate with 10% Decline in Assets (Unsmoothed)





**Section 8**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION**

City#	CityName	Ratio of MVA to Covered Pay	Ratio of AAL to Covered Pay	Ratio of Actives to Retirees (A/R)	Net Cash Flow as a Percentage of Market Value of Assets	Duration of Liabilities	Change in Contribution Rate with 10% Decline in Assets (Smoothed)	Change in Contribution Rate with 10% Decline in Assets (Unsmoothed)
4	Abernathy	2.0	2.1	2.8	-1.2%	16.1	0.13%	1.32%
6	Abilene	5.5	5.9	1.2	-2.6%	15.4	0.33%	3.35%
7	Addison	6.2	6.5	1.3	-2.3%	16.5	0.38%	3.78%
8	Agua Dulce	0.3	0.6	NA	42.0%	16.0	0.04%	0.41%
10	Alamo	2.1	2.2	3.1	1.3%	20.2	0.12%	1.25%
12	Alamo Heights	4.0	5.0	1.2	1.0%	18.2	0.24%	2.44%
14	Alba	1.7	2.4	5.0	3.8%	15.4	0.20%	1.99%
16	Albany	1.6	1.8	2.4	0.4%	13.2	0.10%	1.01%
17	Aledo	1.5	2.0	1.6	6.4%	19.9	0.11%	1.10%
18	Alice	4.4	4.2	1.2	-3.0%	16.1	0.17%	2.41%
19	Allen	3.9	4.4	3.1	2.7%	20.2	0.24%	2.39%
20	Alpine	2.5	2.1	2.5	-1.5%	16.3	0.09%	0.90%
22	Alto	2.3	2.4	1.4	3.2%	23.3	0.18%	1.83%
23	Alton	1.8	1.9	4.3	5.1%	22.5	0.11%	1.10%
24	Alvarado	1.3	1.4	4.7	7.1%	21.4	0.08%	0.83%
26	Alvin	5.6	6.4	1.6	-0.1%	17.4	0.34%	3.35%
28	Alvord	1.7	1.7	2.3	5.6%	18.9	0.16%	1.64%
30	Amarillo	5.1	5.6	1.5	-2.9%	15.6	0.30%	2.98%
32	Amherst	2.6	1.2	2.5	0.2%	19.5	0.00%	0.00%
34	Anahuac	2.0	2.1	2.0	2.1%	18.6	0.22%	2.15%
36	Andrews	5.3	6.1	2.0	-1.6%	17.3	0.31%	3.14%
38	Angleton	3.8	4.3	1.8	-0.6%	17.1	0.23%	2.29%
40	Anna	1.6	1.8	6.8	11.1%	24.1	0.10%	0.98%
41	Annetta	0.7	0.8	NA	14.4%	18.5	0.12%	1.22%
44	Anson	1.8	1.6	3.1	0.0%	15.2	0.06%	0.72%
45	Anthony	1.1	1.3	3.9	0.1%	18.8	0.06%	0.62%
48	Aransas Pass	3.0	3.3	2.1	-0.2%	19.1	0.18%	1.79%
50	Archer City	1.3	1.4	3.6	4.2%	14.6	0.08%	0.82%
49	Arcola	0.3	0.5	NA	32.0%	17.8	0.02%	0.21%
51	Argyle	3.0	3.1	1.6	4.1%	19.7	0.17%	1.68%
52	Arlington	6.3	7.1	1.4	-1.4%	17.4	0.38%	3.78%
54	Arp	2.5	2.3	2.5	-3.0%	17.4	0.10%	1.13%
60	Aspermont	2.1	1.7	3.5	-0.7%	15.5	0.00%	0.61%
62	Athens	4.6	5.5	1.3	-1.7%	17.4	0.28%	2.77%
64	Atlanta	2.6	2.8	2.2	-1.5%	15.8	0.16%	1.64%
66	Aubrey	1.2	1.2	4.8	8.2%	23.7	0.08%	0.76%
74	Avinger	2.2	2.0	NA	4.1%	14.6	0.08%	1.38%
75	Azle	3.2	3.6	1.5	2.4%	19.6	0.20%	1.96%
77	Baird	1.7	1.5	2.8	-3.8%	15.6	0.06%	0.63%
78	Balch Springs	3.3	3.9	1.9	3.4%	20.8	0.20%	1.98%
79	Balcones Heights	5.6	5.3	0.9	-2.0%	16.0	0.21%	2.83%
80	Ballinger	2.5	2.4	1.6	-3.8%	14.2	0.15%	1.49%
82	Balmorhea	1.5	1.0	NA	3.4%	19.6	0.00%	0.34%
83	Bandera	2.8	2.7	1.5	0.6%	17.7	0.12%	1.71%
84	Bangs	4.7	4.8	1.2	-0.3%	14.5	0.35%	3.52%
90	Bartlett	2.7	2.3	1.3	1.1%	19.4	0.11%	1.03%
91	Bartonville	2.3	3.1	0.9	2.9%	17.7	0.22%	2.17%
92	Bastrop	2.4	2.8	2.1	2.5%	18.9	0.15%	1.49%
94	Bay City	4.6	5.0	1.3	-2.0%	15.8	0.28%	2.75%
93	Bayou Vista	1.4	1.2	1.4	0.9%	20.5	0.05%	0.54%
96	Baytown	4.9	5.9	1.7	0.4%	18.7	0.30%	3.02%
98	Beaumont	7.1	8.1	1.1	-2.1%	15.8	0.43%	4.32%
100	Bedford	1.3	1.9	4.2	8.6%	21.0	0.08%	0.80%
101	Bee Cave	2.0	2.2	4.2	5.1%	21.5	0.12%	1.24%
102	Beeville	3.2	2.6	1.4	-2.8%	15.9	0.12%	1.22%
106	Bellaire	6.5	7.6	1.2	-0.7%	16.3	0.40%	3.96%
109	Bellmead	4.3	4.0	2.2	-1.0%	18.3	0.16%	1.98%
110	Bells	1.0	0.8	2.2	1.2%	23.3	0.04%	0.39%
112	Bellville	4.0	5.0	1.2	-0.6%	15.8	0.25%	2.54%
114	Belton	2.8	3.0	1.9	-0.7%	18.8	0.16%	1.64%
118	Benbrook	5.7	6.3	1.5	-0.3%	18.4	0.33%	3.34%
121	Berryville	2.1	2.0	1.0	-11.4%	9.8	0.08%	2.06%
123	Bertram	1.2	1.2	2.3	-1.4%	19.8	0.08%	0.84%
124	Big Lake	4.4	5.7	2.3	2.7%	17.8	0.27%	2.70%
126	Big Sandy	2.5	2.6	1.8	-6.7%	13.5	0.20%	1.97%
128	Big Spring	5.3	6.3	1.1	-1.1%	16.6	0.35%	3.47%
132	Bishop	3.5	3.4	1.4	-1.7%	15.1	0.21%	2.15%
134	Blanco	0.9	0.9	2.9	10.6%	21.2	0.06%	0.57%
140	Blooming Grove	2.8	3.2	2.0	1.4%	17.3	0.37%	3.67%
142	Blossom	4.5	4.2	1.0	-1.0%	15.3	0.18%	3.68%
143	Blue Mound	0.8	0.8	3.7	10.1%	22.6	0.05%	0.50%
144	Blue Ridge	0.9	0.6	6.0	6.6%	23.0	0.03%	0.32%
148	Boerne	3.7	4.7	3.1	4.4%	19.2	0.22%	2.21%
150	Bogata	1.2	0.9	2.5	1.6%	19.7	0.04%	0.43%
152	Bonham	3.4	3.8	1.9	-0.5%	17.3	0.21%	2.05%
154	Booker	2.0	2.0	5.0	2.4%	19.4	0.19%	1.88%
156	Borger	4.9	5.4	1.9	-0.1%	17.4	0.29%	2.93%
158	Bovina	1.2	1.1	2.0	-3.6%	17.7	0.04%	0.45%
160	Bowie	4.3	4.6	1.2	-0.3%	17.3	0.28%	2.79%
162	Boyd	1.4	1.4	2.4	4.1%	20.3	0.05%	0.87%

**Section 8**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION**

City#	CityName	Ratio of MVA to Covered Pay	Ratio of AAL to Covered Pay	Ratio of Actives to Retirees (A/R)	Net Cash Flow as a Percentage of Market Value of Assets	Duration of Liabilities	Change in Contribution Rate with 10% Decline in Assets (Smoothed)	Change in Contribution Rate with 10% Decline in Assets (Unsmoothed)
166	Brady	2.5	2.6	1.7	2.7%	18.2	0.15%	1.51%
170	Brazoria	4.3	4.2	1.6	-1.7%	16.7	0.18%	2.37%
172	Breckenridge	3.5	3.7	1.4	-2.2%	15.1	0.22%	2.22%
174	Bremond	2.6	2.9	7.0	6.3%	17.2	0.26%	2.58%
176	Brenham	4.1	4.5	1.4	-1.6%	16.0	0.24%	2.43%
177	Bridge City	5.5	6.2	1.1	-0.3%	16.3	0.33%	3.25%
178	Bridgeport	3.9	4.5	1.4	-0.5%	20.1	0.26%	2.58%
180	Bronte	3.0	3.6	3.0	1.6%	12.4	0.45%	4.51%
182	Brookshire	3.3	3.5	3.3	2.7%	17.2	0.20%	1.98%
184	Brownfield	5.5	5.0	1.8	-1.2%	15.4	0.19%	2.29%
186	Brownsboro	0.4	1.3	9.0	17.7%	15.8	0.04%	0.45%
10188	Brownsville	5.9	6.5	1.8	-0.2%	18.6	0.35%	3.50%
20188	Brownsville PUB	5.7	6.6	2.0	0.2%	17.8	0.33%	3.34%
10190	Brownwood	4.9	5.4	1.6	-1.2%	16.8	0.29%	2.89%
30190	Brownwood Health Dept.	3.3	3.7	1.0	-0.4%	17.6	0.25%	2.50%
20190	Brownwood Public Library	2.3	2.1	3.3	0.1%	15.3	0.08%	1.06%
195	Bruceville-Eddy	2.1	2.0	1.9	-2.5%	20.5	0.08%	1.07%
192	Bryan	5.1	5.9	1.4	0.0%	18.0	0.31%	3.14%
193	Bryson	7.1	5.3	3.0	-3.7%	14.6	0.26%	2.58%
194	Buda	1.8	2.1	6.6	9.5%	22.0	0.11%	1.09%
196	Buffalo	2.4	2.3	2.9	-2.0%	12.6	0.09%	1.35%
198	Bullard	1.7	2.2	5.2	5.7%	20.0	0.10%	1.00%
203	Bulverde	1.8	1.9	2.3	1.0%	21.5	0.11%	1.09%
199	Bunker Hill Village	5.2	5.3	1.6	0.1%	13.7	0.50%	5.00%
200	Burkburnett	4.5	5.0	1.3	-3.1%	14.8	0.27%	2.67%
202	Burleson	3.8	4.5	2.4	2.3%	19.7	0.23%	2.33%
204	Burnet	3.6	4.1	1.7	-0.7%	19.2	0.22%	2.22%
207	Cactus	1.0	1.0	4.6	8.6%	23.6	0.06%	0.58%
208	Caddo Mills	1.0	1.1	5.0	6.1%	20.8	0.07%	0.71%
210	Caldwell	5.2	5.3	1.7	-2.6%	14.3	0.31%	3.12%
212	Calvert	0.9	0.7	2.0	-2.0%	13.9	0.03%	0.32%
214	Cameron	2.7	3.3	1.2	-1.0%	15.8	0.17%	1.67%
216	Campbell	1.4	2.9	NA	34.0%	14.6	0.22%	2.18%
220	Canadian	3.9	5.1	2.0	1.2%	18.4	0.24%	2.36%
221	Caney City	0.3	0.2	NA	12.4%	11.9	0.01%	0.10%
222	Canton	3.6	4.1	2.1	2.5%	17.1	0.21%	2.15%
224	Canyon	5.4	5.9	2.0	0.1%	17.3	0.33%	3.26%
227	Carmine	2.7	2.0	1.0	1.3%	20.6	0.11%	1.09%
228	Carrizo Springs	3.2	3.2	2.0	-4.0%	14.0	0.18%	1.83%
230	Carrollton	7.4	7.6	1.2	-1.8%	16.5	0.46%	4.55%
232	Carthage	7.3	8.3	1.2	-1.9%	15.4	0.45%	4.50%
231	Castle Hills	5.1	5.6	1.1	-2.4%	17.6	0.31%	3.11%
234	Castroville	3.2	3.4	1.1	-0.7%	16.2	0.19%	1.86%
238	Cedar Hill	4.5	5.0	1.9	0.8%	19.1	0.27%	2.73%
239	Cedar Park	2.7	3.4	3.3	5.5%	21.8	0.16%	1.64%
240	Celeste	0.8	1.0	4.0	9.8%	13.3	0.11%	1.06%
242	Celina	0.9	0.9	9.4	12.0%	23.7	0.03%	0.53%
244	Center	4.2	4.4	1.7	0.9%	19.2	0.25%	2.51%
246	Centerville	4.2	4.7	5.0	5.7%	13.0	0.49%	4.91%
247	Chandler	0.8	1.0	2.9	5.4%	16.3	0.05%	0.48%
248	Charlotte	2.0	1.5	9.0	-1.2%	18.3	0.08%	0.77%
249	Chester	15.8	14.2	NA	0.8%	9.4	0.64%	8.67%
245	Chico	1.8	1.9	1.5	-1.6%	11.3	0.19%	1.91%
250	Childress	3.8	4.7	1.4	-0.6%	17.6	0.24%	2.39%
251	Chillicothe	0.7	1.0	NA	28.0%	16.7	0.07%	0.69%
253	Chireno	5.7	7.3	1.5	-1.1%	16.5	0.60%	5.95%
254	Christine	1.4	1.1	0.5	0.3%	22.9	0.00%	0.28%
255	Cibolo	2.0	2.3	3.6	7.4%	22.6	0.12%	1.22%
256	Cisco	2.7	2.7	1.9	-0.4%	17.6	0.17%	1.70%
258	Clarendon	1.9	1.6	2.4	1.9%	12.5	0.08%	0.74%
259	Clarksville	4.3	3.4	1.3	-1.7%	16.9	0.16%	1.57%
260	Clarksville City	7.4	6.8	0.6	-7.1%	13.7	0.26%	5.05%
263	Clear Lake Shores	2.0	2.2	3.4	6.6%	21.3	0.13%	1.31%
264	Cleburne	5.3	6.4	1.3	-2.4%	16.0	0.32%	3.17%
266	Cleveland	3.0	3.5	1.8	1.1%	18.0	0.19%	1.92%
268	Clifton	2.3	2.2	1.8	-0.2%	14.7	0.09%	1.21%
271	Clute	4.6	4.6	1.5	-0.9%	17.9	0.29%	2.91%
272	Clyde	3.1	3.5	2.1	2.8%	19.1	0.19%	1.90%
274	Coahoma	3.6	3.5	1.3	-0.7%	14.6	0.17%	3.91%
276	Cockrell Hill	3.5	3.3	2.3	1.9%	21.0	0.14%	1.86%
278	Coleman	5.3	6.0	1.0	-0.7%	15.1	0.34%	3.42%
280	College Station	4.8	5.4	1.9	-0.2%	18.5	0.29%	2.89%
281	Colleyville	4.7	4.8	1.3	-0.8%	17.8	0.29%	2.86%
282	Collinsville	1.3	1.3	1.6	4.3%	18.4	0.13%	1.25%
283	Colmesneil	1.9	2.2	4.0	4.6%	19.7	0.24%	2.36%
284	Colorado City	4.0	3.8	1.3	-0.6%	15.2	0.14%	2.25%
286	Columbus	4.6	5.0	1.1	0.4%	16.2	0.27%	2.74%
288	Comanche	2.6	2.8	1.4	-2.3%	13.9	0.18%	1.77%
289	Combes	0.3	1.0	NA	36.9%	19.5	0.02%	0.20%
290	Commerce	4.1	4.3	1.1	-1.1%	18.2	0.27%	2.65%

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City#	CityName	Ratio of MVA to Covered Pay	Ratio of AAL to Covered Pay	Ratio of Actives to Retirees (A/R)	Net Cash Flow as a Percentage of Market Value of Assets	Duration of Liabilities	Change in Contribution Rate with 10% Decline in Assets (Smoothed)	Change in Contribution Rate with 10% Decline in Assets (Unsmoothed)
294	Conroe	4.5	5.2	2.5	1.4%	19.2	0.26%	2.59%
295	Converse	3.3	3.9	2.7	2.6%	20.6	0.20%	2.02%
298	Cooper	3.3	3.5	1.6	-2.6%	13.2	0.25%	2.53%
299	Coppell	5.2	5.8	1.6	0.8%	19.0	0.31%	3.13%
297	Copper Canyon	2.4	2.5	0.8	5.8%	13.1	0.37%	3.73%
300	Copperas Cove	4.8	5.4	1.1	-1.2%	17.8	0.31%	3.06%
301	Corinth	3.7	4.2	1.9	3.8%	21.1	0.22%	2.24%
302	Corpus Christi	5.8	6.8	1.1	-1.7%	15.1	0.36%	3.63%
304	Corrigan	1.6	1.5	2.1	-0.3%	16.4	0.07%	0.95%
306	Corsicana	5.6	6.3	1.0	-1.6%	15.8	0.37%	3.75%
308	Cotulla	1.4	1.7	2.5	3.7%	16.6	0.09%	0.87%
310	Crandall	2.7	2.6	1.9	4.3%	21.3	0.10%	1.54%
312	Crane	5.1	4.7	1.5	-2.1%	16.0	0.19%	2.32%
314	Crawford	0.9	0.9	6.0	1.9%	23.3	0.04%	0.59%
316	Crockett	4.7	5.0	0.9	-3.8%	15.8	0.32%	3.17%
318	Crosbyton	4.3	3.8	0.8	-6.5%	12.2	0.16%	1.77%
320	Cross Plains	3.5	3.6	2.7	1.5%	16.6	0.33%	3.27%
321	Cross Roads	0.5	0.6	11.0	26.3%	26.1	0.04%	0.41%
322	Crowell	0.1	0.5	7.0	75.2%	22.4	0.01%	0.14%
323	Crowley	2.9	3.4	1.9	1.8%	20.4	0.18%	1.84%
324	Crystal City	3.0	2.4	2.5	-1.3%	14.8	0.11%	1.12%
326	Cuero	2.9	3.4	1.4	1.3%	18.1	0.18%	1.75%
328	Cumby	0.8	0.8	2.0	-8.0%	19.7	0.06%	0.60%
332	Daingerfield	3.6	3.5	1.2	-0.2%	15.3	0.19%	2.25%
334	Daisetta	1.9	1.6	3.0	-1.8%	14.9	0.07%	0.67%
336	Dalhart	3.1	3.1	1.9	-4.5%	15.9	0.18%	1.84%
339	Dalworthington Gardens	4.4	5.8	1.7	1.5%	19.6	0.28%	2.78%
340	Danbury	1.4	1.5	3.5	2.8%	16.8	0.13%	1.32%
341	Darrouzett	3.3	3.3	3.0	-2.5%	11.6	0.43%	4.34%
344	Dayton	1.7	1.8	2.1	3.2%	18.6	0.10%	1.04%
352	De Leon	1.4	1.4	2.2	-4.9%	14.6	0.11%	1.08%
10366	DeSoto	5.2	5.4	1.3	-1.2%	17.3	0.31%	3.12%
346	Decatur	4.1	4.6	2.3	2.8%	17.7	0.24%	2.44%
348	Deer Park	6.4	6.8	1.5	-1.5%	17.5	0.38%	3.84%
350	Dekalb	1.9	1.7	1.5	1.6%	16.9	0.07%	0.73%
354	Del Rio	1.5	1.9	3.7	3.2%	18.0	0.09%	0.86%
353	Dell City	9.2	9.7	1.0	-5.9%	12.6	1.45%	14.54%
356	Denison	5.5	5.9	1.3	-2.4%	15.4	0.33%	3.27%
358	Denton	4.8	5.5	1.9	0.6%	18.2	0.29%	2.89%
360	Denver City	7.0	7.1	1.4	-2.7%	13.9	0.46%	4.59%
362	Deport	0.8	0.8	3.0	-2.4%	17.9	0.11%	1.07%
370	Devine	2.1	3.4	3.0	7.5%	18.7	0.12%	1.23%
371	Diboll	6.3	6.9	0.9	-2.9%	17.4	0.42%	4.16%
372	Dickens	1.1	1.0	NA	8.3%	22.4	0.04%	0.41%
373	Dickinson	3.6	3.9	2.5	-0.1%	17.5	0.22%	2.17%
374	Dilley	1.5	1.9	1.7	4.5%	18.8	0.09%	0.92%
376	Dimmitt	5.4	4.7	1.2	-3.0%	15.1	0.20%	2.02%
382	Donna	1.5	2.0	4.4	8.3%	20.7	0.09%	0.90%
379	Double Oak	1.4	1.5	2.8	3.5%	20.1	0.11%	1.13%
383	Dripping Springs	0.6	0.7	26.0	18.4%	22.1	0.04%	0.38%
385	Driscoll	0.7	0.7	NA	8.1%	19.0	0.02%	0.57%
384	Dublin	2.5	2.9	2.1	3.7%	19.5	0.15%	1.49%
386	Dumas	3.2	3.9	1.7	-1.7%	18.4	0.20%	1.97%
388	Duncanville	6.5	6.5	1.1	-4.1%	14.6	0.39%	3.87%
394	Eagle Lake	4.2	4.4	1.4	-1.4%	15.5	0.25%	2.54%
396	Eagle Pass	4.1	4.3	2.2	-1.7%	18.0	0.25%	2.51%
397	Early	2.2	2.1	3.0	0.3%	18.1	0.08%	1.24%
399	Earth	1.4	1.9	1.8	1.6%	13.6	0.16%	1.56%
393	East Bernard	0.5	0.6	5.0	17.3%	20.1	0.06%	0.64%
401	East Mountain	9.6	9.4	0.5	-0.5%	17.7	0.79%	16.94%
395	East Tawakoni	2.4	2.3	2.5	0.0%	15.2	0.08%	1.62%
398	Eastland	2.7	2.9	1.8	0.9%	18.0	0.16%	1.56%
402	Ector	1.4	1.4	4.0	4.1%	13.8	0.05%	1.23%
406	Eden	5.3	5.1	0.5	-3.8%	14.3	0.20%	5.10%
408	Edgewood	1.0	1.2	1.6	2.0%	18.1	0.08%	0.83%
410	Edinburg	3.4	4.2	3.0	1.9%	20.1	0.20%	2.05%
412	Edna	5.1	5.6	1.1	-0.5%	15.9	0.34%	3.37%
414	El Campo	4.7	5.7	1.6	-0.8%	17.1	0.28%	2.77%
416	Eldorado	2.8	3.1	3.1	-0.8%	16.5	0.17%	1.69%
418	Electra	2.0	2.0	1.1	-3.4%	13.7	0.12%	1.24%
420	Elgin	2.8	3.4	2.5	4.2%	18.9	0.17%	1.71%
422	Elkhart	2.5	2.5	1.8	-1.0%	14.3	0.23%	2.28%
427	Elmendorf	0.4	0.4	17.0	15.2%	23.9	0.03%	0.26%
432	Emory	1.8	1.8	2.0	3.3%	17.3	0.11%	1.07%
436	Ennis	5.5	6.1	1.3	-1.0%	18.1	0.34%	3.37%
439	Eules	7.1	7.7	1.5	-1.1%	17.6	0.42%	4.23%
440	Eustace	1.9	2.1	1.4	3.5%	19.3	0.16%	1.65%
441	Everman	2.8	2.9	2.3	0.3%	17.5	0.18%	1.81%
443	Fair Oaks Ranch	2.2	2.4	4.6	6.8%	22.2	0.14%	1.36%
442	Fairfield	4.2	4.0	1.4	-2.0%	15.4	0.14%	2.18%

**Section 8**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION**

City#	CityName	Ratio of MVA to Covered Pay	Ratio of AAL to Covered Pay	Ratio of Actives to Retirees (A/R)	Net Cash Flow as a Percentage of Market Value of Assets	Duration of Liabilities	Change in Contribution Rate with 10% Decline in Assets (Smoothed)	Change in Contribution Rate with 10% Decline in Assets (Unsmoothed)
445	Fairview	1.9	2.1	10.3	8.5%	22.3	0.11%	1.12%
20444	Falfurrias	1.7	1.8	1.6	-2.8%	15.0	0.10%	1.02%
446	Falls City	1.7	1.9	NA	8.2%	16.8	0.23%	2.26%
448	Farmers Branch	8.3	9.3	1.2	-2.2%	16.2	0.51%	5.10%
450	Farmersville	2.7	2.8	1.7	1.2%	17.8	0.17%	1.67%
451	Farwell	3.9	4.4	2.0	-0.5%	17.0	0.44%	4.39%
452	Fate	1.1	1.1	4.4	11.2%	23.9	0.07%	0.70%
454	Fayetteville	1.0	1.1	4.0	4.8%	14.7	0.15%	1.49%
456	Ferris	2.0	2.0	1.5	-0.6%	17.9	0.10%	1.19%
458	Flatonia	4.9	5.3	1.4	0.6%	17.7	0.29%	2.93%
460	Florence	1.3	1.3	2.8	3.4%	20.7	0.05%	0.76%
20462	Floresville	2.0	2.4	2.1	2.5%	19.1	0.13%	1.27%
463	Flower Mound	3.5	3.9	2.5	2.0%	19.4	0.21%	2.10%
464	Floydada	5.0	5.4	1.0	-4.0%	15.4	0.29%	2.89%
468	Forest Hill	3.9	4.2	1.1	-0.2%	19.8	0.24%	2.44%
470	Forney	2.2	2.6	5.6	6.9%	24.1	0.14%	1.40%
472	Fort Stockton	2.7	3.2	1.5	-1.0%	17.3	0.17%	1.67%
476	Franklin	1.3	1.2	3.0	2.0%	20.7	0.04%	0.62%
478	Frankston	1.0	1.0	3.0	3.2%	18.7	0.04%	0.68%
480	Fredericksburg	4.2	5.3	1.7	0.0%	16.9	0.26%	2.58%
482	Freeport	3.9	4.7	1.6	0.1%	19.2	0.23%	2.30%
481	Freer	1.6	2.0	2.4	0.4%	16.9	0.10%	1.00%
483	Friendswood	4.9	5.6	1.6	0.3%	18.0	0.30%	2.96%
484	Friona	5.9	6.1	1.7	-2.5%	16.3	0.37%	3.71%
486	Frisco	2.8	3.2	6.2	5.9%	23.2	0.17%	1.67%
487	Fritch	3.1	2.1	1.8	0.8%	21.4	0.12%	1.14%
488	Frost	2.3	2.6	1.0	-5.2%	11.1	0.27%	2.72%
491	Fulshear	0.6	0.6	28.0	24.6%	24.4	0.04%	0.37%
493	Fulton	1.9	2.5	0.8	6.5%	14.3	0.25%	2.54%
492	Gainesville	3.5	4.2	1.4	0.5%	17.7	0.22%	2.21%
494	Galena Park	4.9	5.1	1.5	-1.0%	17.3	0.29%	2.87%
498	Ganado	7.5	7.4	1.0	0.8%	14.5	0.66%	6.63%
499	Garden Ridge	1.8	2.1	1.8	4.4%	18.5	0.11%	1.11%
500	Garland	6.4	6.6	1.4	-2.0%	15.5	0.39%	3.86%
502	Garrison	5.2	5.5	2.3	1.8%	15.8	0.47%	4.66%
503	Gary	1.9	2.2	4.0	3.4%	19.2	0.26%	2.56%
504	Gatesville	4.7	5.4	1.5	-0.3%	17.3	0.27%	2.75%
505	George West	1.2	1.4	4.4	3.4%	18.1	0.07%	0.72%
506	Georgetown	3.1	3.5	3.3	3.6%	20.6	0.18%	1.82%
510	Giddings	4.8	5.7	1.6	0.7%	15.7	0.29%	2.88%
512	Gilmer	4.3	4.9	1.2	-0.3%	17.7	0.25%	2.49%
514	Gladewater	3.1	3.3	1.3	-0.2%	18.1	0.17%	1.72%
516	Glen Rose	3.2	3.7	1.4	0.7%	17.9	0.18%	1.85%
517	Glenn Heights	2.2	1.8	1.4	-1.0%	18.8	0.08%	0.82%
518	Godley	0.7	0.8	2.4	6.8%	20.6	0.06%	0.64%
519	Goldsmith	1.7	1.7	NA	5.2%	14.0	0.20%	2.04%
520	Goldthwaite	7.9	9.2	1.2	-0.7%	13.8	0.68%	6.77%
522	Goliad	3.1	2.8	1.6	-0.6%	15.8	0.13%	1.23%
524	Gonzales	3.6	4.1	1.7	-1.2%	17.5	0.21%	2.11%
527	Gordon	0.1	0.1	NA	79.3%	25.9	0.01%	0.11%
530	Gorman	0.5	1.1	NA	28.1%	18.7	0.05%	0.49%
532	Graford	0.9	1.0	NA	8.3%	15.9	0.14%	1.36%
10534	Graham	4.1	4.6	1.2	-2.1%	16.4	0.25%	2.52%
536	Granbury	4.4	5.1	1.6	1.2%	18.0	0.26%	2.61%
540	Grand Prairie	5.6	6.3	1.7	-0.9%	18.3	0.33%	3.32%
542	Grand Saline	3.3	3.3	1.4	0.6%	16.9	0.21%	2.10%
544	Grandview	2.2	2.0	1.3	2.1%	18.3	0.08%	0.79%
546	Granger	1.3	1.1	0.8	-0.9%	18.9	0.05%	0.50%
547	Granite Shoals	1.1	1.0	3.3	2.6%	19.6	0.04%	0.58%
548	Grapeland	3.0	3.0	0.9	-3.7%	15.6	0.25%	2.52%
550	Grapevine	5.7	6.5	1.4	0.1%	17.6	0.34%	3.42%
552	Greenville	6.0	6.3	1.1	-2.5%	15.0	0.36%	3.62%
551	Gregory	1.4	1.0	5.5	3.6%	18.5	0.05%	0.51%
553	Grey Forest	4.7	5.6	1.6	0.4%	17.0	0.29%	2.85%
556	Groesbeck	1.3	1.5	2.1	1.6%	16.0	0.09%	0.90%
558	Groom	1.5	1.4	1.3	0.1%	14.9	0.05%	1.61%
559	Groves	6.4	6.5	1.1	-3.0%	15.0	0.38%	3.82%
560	Groveton	1.3	1.3	5.0	-1.9%	14.9	0.06%	0.99%
562	Gruver	5.1	5.5	1.3	-2.0%	12.8	0.63%	6.30%
563	Gun Barrel City	2.2	2.0	1.8	0.1%	18.3	0.09%	0.85%
564	Gunter	0.7	0.6	2.2	9.3%	22.8	0.03%	0.29%
568	Hale Center	0.9	1.0	4.5	3.9%	19.2	0.08%	0.85%
570	Hallettsville	5.1	5.6	1.3	-0.3%	15.7	0.31%	3.09%
572	Hallsville	0.7	0.9	4.8	2.3%	16.7	0.04%	0.44%
574	Haltom City	6.3	7.4	1.2	-0.5%	17.7	0.39%	3.93%
576	Hamilton	3.6	4.1	1.2	0.6%	16.7	0.21%	2.08%
578	Hamlin	4.9	4.9	1.3	-3.8%	14.0	0.31%	3.12%
580	Happy	6.3	6.0	1.0	1.3%	14.9	0.24%	8.91%
581	Harker Heights	3.7	4.3	2.5	2.4%	19.8	0.23%	2.26%
10582	Harlingen	9.9	10.1	0.4	-4.0%	13.1	1.17%	11.66%

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20582	Harlingen Waterworks Sys	4.2	4.1	0.9	-5.2%	13.7	0.16%	4.14%
583	Hart	0.9	1.2	5.0	7.4%	22.1	0.11%	1.14%
586	Haskell	2.6	1.7	1.8	-0.6%	16.2	0.00%	0.00%
587	Haslet	2.1	2.1	3.6	5.3%	18.4	0.14%	1.35%
588	Hawkins	5.8	5.2	0.7	0.6%	15.2	0.22%	2.65%
585	Hays	3.1	2.9	0.3	-3.5%	11.8	0.16%	5.98%
590	Hearne	3.2	4.0	2.0	2.4%	18.0	0.21%	2.05%
591	Heath	2.9	3.2	2.2	2.8%	19.2	0.17%	1.74%
592	Hedley	5.4	4.9	2.0	-2.6%	12.1	0.22%	2.74%
595	Hedwig Village	2.7	2.9	1.6	-0.6%	15.0	0.17%	1.67%
593	Helotes	1.9	2.1	4.0	3.8%	20.5	0.12%	1.17%
594	Hemphill	2.7	3.1	1.7	-0.9%	13.3	0.16%	1.64%
596	Hempstead	3.3	3.5	2.8	-0.2%	15.3	0.20%	2.02%
598	Henderson	4.7	5.6	1.6	-1.1%	19.6	0.28%	2.79%
600	Henrietta	3.6	4.3	1.2	1.0%	16.8	0.25%	2.46%
602	Hereford	3.9	4.4	1.8	-1.6%	17.3	0.24%	2.35%
605	Hewitt	3.8	4.6	2.7	2.0%	19.9	0.23%	2.31%
609	Hickory Creek	2.8	3.2	1.8	5.0%	23.7	0.19%	1.88%
606	Hico	2.6	2.5	1.3	1.2%	18.1	0.20%	1.97%
607	Hidalgo	3.4	3.8	3.0	2.0%	19.5	0.21%	2.09%
608	Higgins	3.3	3.2	1.0	-4.5%	11.9	0.12%	3.75%
610	Highland Park	6.0	6.2	1.1	-2.9%	14.7	0.36%	3.64%
611	Highland Village	4.1	4.5	1.8	2.5%	19.3	0.24%	2.44%
613	Hill Country Village	2.5	2.4	2.8	-0.2%	18.6	0.10%	1.61%
612	Hillsboro	4.0	4.5	1.5	0.8%	18.0	0.24%	2.44%
619	Hilshire Village	0.9	1.0	2.0	18.9%	16.5	0.16%	1.61%
614	Hitchcock	2.2	2.1	1.5	-2.2%	15.1	0.09%	1.21%
615	Holland	2.4	2.4	2.7	3.8%	14.2	0.20%	2.11%
616	Holliday	2.2	2.1	9.0	2.6%	17.1	0.08%	1.62%
617	Hollywood Park	2.8	3.2	1.7	1.6%	19.3	0.17%	1.69%
618	Hondo	3.5	3.7	1.7	-0.5%	18.2	0.21%	2.06%
620	Honey Grove	3.8	3.8	1.1	0.7%	16.2	0.36%	3.64%
622	Hooks	2.6	3.1	2.6	4.4%	18.1	0.19%	1.88%
623	Horizon City	0.2	0.7	NA	48.0%	25.6	0.01%	0.14%
626	Howe	3.2	3.0	1.9	1.0%	16.2	0.11%	1.77%
627	Hubbard	1.2	1.2	2.4	1.3%	20.4	0.04%	0.85%
628	Hudson	1.6	1.6	4.0	4.4%	17.2	0.12%	1.24%
629	Hudson Oaks	2.6	3.0	2.2	6.3%	23.7	0.16%	1.61%
630	Hughes Springs	8.5	7.8	1.7	-0.9%	14.2	0.31%	4.25%
632	Humble	4.9	5.4	1.7	0.2%	18.8	0.29%	2.92%
633	Hunters Creek Village	2.0	3.0	1.0	4.9%	17.0	0.20%	2.05%
634	Huntington	4.4	5.1	1.4	-0.4%	17.3	0.28%	2.75%
636	Huntsville	5.5	6.7	1.2	-1.2%	16.0	0.34%	3.42%
637	Hurst	6.0	6.3	1.4	-2.7%	16.2	0.36%	3.58%
638	Hutchins	2.1	2.3	2.6	5.0%	22.1	0.13%	1.31%
640	Hutto	1.7	1.7	5.7	9.6%	23.7	0.10%	1.01%
641	Huxley	2.8	2.4	1.7	-3.8%	15.2	0.10%	1.03%
642	Idalou	1.1	1.1	NA	7.4%	23.6	0.08%	0.85%
643	Ingleside	3.5	3.5	1.9	8.3%	16.1	0.18%	2.03%
646	Ingram	1.5	1.7	1.0	1.0%	18.1	0.11%	1.13%
647	Iowa Colony	1.1	1.2	5.5	15.3%	17.3	0.08%	0.84%
644	Iowa Park	4.7	5.2	1.5	-0.2%	17.1	0.28%	2.82%
645	Iraan	4.6	5.8	1.2	-0.6%	13.0	0.50%	4.99%
648	Irving	6.7	7.3	1.4	-1.9%	16.2	0.40%	4.05%
650	Italy	0.7	0.9	1.6	3.0%	17.1	0.04%	0.43%
652	Itasca	3.3	3.1	2.0	1.5%	17.1	0.13%	1.63%
654	Jacinto City	3.3	3.6	2.4	-0.1%	16.0	0.20%	1.96%
656	Jacksboro	3.5	4.1	1.9	1.1%	18.2	0.21%	2.09%
658	Jacksonville	4.5	5.0	1.1	-3.5%	17.5	0.29%	2.90%
660	Jasper	4.4	4.7	1.6	-2.2%	14.3	0.27%	2.67%
664	Jefferson	2.9	2.5	1.4	1.3%	14.1	0.11%	1.11%
665	Jersey Village	3.9	4.5	1.7	1.4%	17.9	0.25%	2.47%
666	Jewett	4.5	5.4	1.3	-2.5%	15.8	0.53%	5.32%
668	Joaquin	1.1	1.4	1.2	1.9%	12.9	0.10%	1.01%
670	Johnson City	2.5	2.9	1.8	2.5%	18.3	0.18%	1.83%
673	Jones Creek	1.3	1.4	1.8	3.0%	17.2	0.11%	1.09%
675	Jonestown	1.3	1.4	2.3	7.5%	18.2	0.08%	0.81%
677	Josephine	0.9	0.9	NA	12.4%	25.0	0.04%	0.68%
671	Joshua	2.2	2.1	3.9	3.0%	18.9	0.08%	1.19%
672	Jourdanton	2.1	2.2	2.1	0.9%	17.6	0.13%	1.28%
674	Junction	3.7	4.3	1.4	-1.1%	15.6	0.24%	2.39%
676	Justin	1.1	1.3	3.9	10.6%	22.5	0.07%	0.69%
678	Karnes City	2.1	2.5	2.3	1.6%	18.8	0.12%	1.24%
680	Katy	3.1	3.4	3.6	2.4%	21.8	0.19%	1.89%
682	Kaufman	4.2	4.8	1.2	0.2%	17.5	0.26%	2.65%
683	Keene	4.2	4.6	1.6	-2.7%	17.9	0.25%	2.50%
681	Keller	5.0	5.8	1.7	0.5%	18.7	0.31%	3.06%
685	Kemah	2.4	2.4	1.7	2.5%	18.5	0.15%	1.52%
684	Kemp	1.4	1.3	2.1	3.5%	19.6	0.06%	0.74%
686	Kenedy	1.4	1.4	4.3	0.9%	18.6	0.08%	0.79%

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688	Kennedale	4.0	4.3	1.6	1.9%	20.6	0.24%	2.44%
690	Kerens	0.5	1.1	11.0	20.1%	19.4	0.04%	0.41%
692	Kermit	3.7	4.7	1.8	1.7%	16.1	0.24%	2.45%
10694	Kerrville	4.5	4.8	1.2	-1.1%	17.3	0.27%	2.71%
20694	Kerrville PUB	7.0	7.3	1.3	-0.7%	16.7	0.42%	4.24%
10696	Kilgore	5.5	6.0	1.2	-1.1%	17.4	0.33%	3.29%
698	Killeen	3.9	4.4	1.6	-1.6%	15.9	0.23%	2.35%
700	Kingsville	5.5	5.6	1.4	-1.9%	16.5	0.32%	3.23%
701	Kirby	3.4	3.9	1.8	2.4%	19.8	0.20%	2.04%
702	Kirbyville	2.0	2.4	1.3	-1.4%	14.6	0.12%	1.23%
704	Knox City	2.2	1.9	1.3	-3.5%	13.9	0.08%	0.82%
706	Kosse	0.2	0.4	NA	47.0%	22.5	0.03%	0.25%
708	Kountze	1.0	1.0	6.0	3.1%	18.1	0.06%	0.59%
709	Kress	11.2	8.3	0.3	-5.3%	12.6	0.00%	0.00%
699	Krugerville	1.1	1.1	2.7	13.5%	20.6	0.11%	1.10%
707	Krum	1.1	1.1	5.1	9.7%	22.8	0.06%	0.69%
710	Kyle	2.0	2.3	7.7	7.4%	24.0	0.12%	1.21%
725	La Coste	1.3	1.2	2.3	1.8%	15.4	0.05%	0.63%
714	La Feria	2.9	3.8	1.8	0.1%	17.6	0.17%	1.65%
716	La Grange	5.3	5.8	1.8	1.0%	15.7	0.32%	3.19%
723	La Grulla	1.8	1.4	2.3	0.3%	20.4	0.07%	0.71%
732	La Joya	0.7	1.4	3.7	4.2%	16.8	0.04%	0.45%
721	La Marque	3.8	4.5	1.3	1.4%	20.3	0.25%	2.46%
728	La Porte	6.6	7.2	1.6	-1.5%	16.7	0.40%	3.99%
731	La Vernia	0.6	0.7	5.3	8.1%	21.1	0.04%	0.36%
711	Lacy-Lakeview	3.5	4.3	2.1	2.7%	20.4	0.22%	2.19%
712	Ladonia	1.9	1.4	0.7	-1.0%	17.4	0.09%	0.87%
713	Lago Vista	2.5	2.6	2.8	2.0%	17.0	0.15%	1.52%
705	Laguna Vista	1.3	1.1	NA	4.9%	17.5	0.04%	0.46%
717	Lake Dallas	5.0	5.3	0.8	-2.1%	17.3	0.29%	2.87%
718	Lake Jackson	5.5	5.7	1.7	-0.7%	16.5	0.33%	3.25%
719	Lake Worth	3.5	4.3	2.1	2.8%	20.7	0.21%	2.13%
727	Lakeport	2.2	1.5	6.0	1.9%	19.9	0.08%	0.78%
715	Lakeside	1.7	2.1	3.6	7.7%	17.2	0.11%	1.10%
729	Lakeside City	1.0	1.0	1.7	5.0%	17.1	0.12%	1.16%
720	Lakeway	2.9	3.4	1.9	4.4%	20.0	0.17%	1.73%
722	Lamesa	4.8	4.6	1.3	-3.4%	13.7	0.17%	2.66%
724	Lampasas	4.4	5.1	1.8	1.3%	19.1	0.26%	2.60%
726	Lancaster	4.3	5.1	1.3	0.1%	18.8	0.27%	2.67%
730	Laredo	4.7	5.9	2.1	0.9%	18.6	0.29%	2.86%
733	Lavon	1.4	1.5	4.8	7.3%	19.3	0.09%	0.88%
736	League City	4.1	4.7	2.3	1.5%	19.2	0.24%	2.41%
737	Leander	1.8	2.2	5.2	8.5%	23.3	0.11%	1.13%
735	Lefors	0.6	0.7	NA	15.9%	23.0	0.07%	0.75%
739	Leon Valley	5.9	6.7	1.1	-1.1%	16.7	0.38%	3.79%
738	Leonard	1.5	1.3	1.9	1.1%	18.6	0.06%	0.57%
740	Levelland	5.9	6.0	1.7	-0.9%	17.4	0.34%	3.39%
742	Lewisville	5.1	5.8	1.8	0.1%	18.7	0.31%	3.11%
744	Lexington	4.1	4.5	1.2	-3.8%	16.1	0.29%	2.92%
746	Liberty	2.6	3.5	2.3	4.5%	16.7	0.17%	1.71%
745	Liberty Hill	0.6	0.6	21.0	19.6%	22.2	0.04%	0.38%
748	Lindale	2.6	3.5	4.2	4.1%	18.2	0.16%	1.58%
750	Linden	1.7	1.6	2.0	-0.2%	13.7	0.06%	0.78%
749	Lindsay	0.1	0.1	NA	100.0%	18.3	0.01%	0.11%
755	Lipan	1.3	1.3	NA	5.9%	16.7	0.17%	1.65%
751	Little Elm	2.1	2.4	5.2	7.3%	23.5	0.13%	1.29%
752	Littlefield	3.7	3.8	1.3	-0.3%	17.2	0.22%	2.18%
753	Live Oak	5.9	6.8	1.5	1.1%	17.4	0.36%	3.55%
757	Liverpool	0.4	0.4	NA	17.4%	23.1	0.05%	0.50%
754	Livingston	5.9	6.6	1.9	-0.5%	16.5	0.36%	3.58%
756	Llano	3.0	3.7	1.1	0.4%	15.8	0.18%	1.83%
758	Lockhart	4.7	5.3	1.7	0.2%	17.3	0.29%	2.93%
760	Lockney	3.0	1.6	2.3	-1.2%	16.1	0.00%	0.00%
765	Lone Star	3.7	3.4	1.3	-3.7%	15.6	0.14%	1.89%
766	Longview	5.3	5.7	1.2	-2.3%	15.8	0.31%	3.11%
768	Loraine	1.5	1.3	1.5	-3.4%	19.3	0.05%	0.52%
769	Lorena	2.5	2.7	1.9	5.0%	19.4	0.15%	1.49%
770	Lorenzo	2.9	1.9	1.0	-5.7%	18.4	0.11%	1.05%
771	Los Fresnos	2.2	2.5	3.7	3.3%	19.3	0.13%	1.27%
773	Lott	0.7	0.6	2.0	6.0%	21.2	0.02%	0.43%
774	Lovelady	0.8	0.9	3.0	16.2%	23.8	0.11%	1.15%
778	Lubbock	6.3	7.2	1.3	-1.6%	16.6	0.38%	3.77%
779	Lucas	1.7	2.0	2.0	8.8%	24.0	0.11%	1.06%
782	Lufkin	5.5	6.3	1.4	-1.4%	16.4	0.33%	3.27%
784	Luling	2.6	2.6	2.1	1.1%	16.7	0.16%	1.56%
785	Lumberton	4.2	4.8	1.7	2.3%	18.2	0.25%	2.48%
786	Lyford	1.3	1.4	6.5	1.4%	13.8	0.09%	0.94%
787	Lytle	3.0	3.4	8.0	4.1%	19.3	0.18%	1.77%
790	Madisonville	2.7	3.0	1.5	0.4%	17.1	0.17%	1.67%
791	Magnolia	1.2	1.1	2.4	2.8%	20.0	0.04%	0.58%

**Section 8**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION**

City#	CityName	Ratio of MVA to Covered Pay	Ratio of AAL to Covered Pay	Ratio of Actives to Retirees (A/R)	Net Cash Flow as a Percentage of Market Value of Assets	Duration of Liabilities	Change in Contribution Rate with 10% Decline in Assets (Smoothed)	Change in Contribution Rate with 10% Decline in Assets (Unsmoothed)
792	Malakoff	1.9	2.1	1.7	5.5%	16.7	0.12%	1.20%
796	Manor	0.9	1.3	8.8	15.1%	23.5	0.06%	0.58%
798	Mansfield	4.4	5.0	2.5	1.5%	20.3	0.27%	2.66%
799	Manvel	1.1	1.5	5.4	12.2%	20.4	0.07%	0.71%
800	Marble Falls	3.4	3.7	1.3	0.6%	17.7	0.21%	2.09%
802	Marfa	2.0	1.8	2.1	0.1%	15.0	0.07%	0.76%
804	Marion	2.4	2.0	1.4	0.6%	16.2	0.10%	0.95%
806	Marlin	2.5	2.6	0.9	-1.8%	18.0	0.16%	1.57%
808	Marquez	0.2	1.2	NA	85.1%	14.8	0.04%	0.36%
810	Marshall	6.1	6.9	1.1	-2.6%	15.9	0.39%	3.95%
812	Mart	2.9	2.3	1.4	-0.8%	18.3	0.12%	1.12%
813	Martindale	1.3	1.5	4.0	13.7%	16.8	0.17%	1.68%
814	Mason	2.9	3.0	1.8	1.2%	15.6	0.18%	1.79%
816	Matador	1.8	2.0	2.0	0.3%	12.3	0.21%	2.12%
818	Mathis	1.9	1.5	1.8	0.9%	17.9	0.07%	0.73%
820	Maud	0.6	0.8	NA	12.6%	15.6	0.05%	0.55%
822	Maypearl	1.6	1.5	1.3	-11.4%	15.7	0.06%	0.95%
824	McAllen	3.8	4.1	2.7	-0.7%	16.8	0.23%	2.26%
826	McCamey	3.5	3.3	4.3	0.9%	16.2	0.13%	1.96%
828	McGregor	2.9	3.0	1.6	2.8%	18.1	0.17%	1.70%
830	McKinney	3.4	3.9	3.4	3.7%	21.1	0.20%	2.03%
832	McLean	2.1	2.1	1.7	0.6%	13.3	0.26%	2.57%
833	McLendon-Chisholm	0.4	0.3	3.5	25.9%	24.1	0.01%	0.14%
834	Meadow	0.4	0.5	NA	26.6%	21.1	0.04%	0.39%
831	Meadowlakes	0.8	0.8	26.0	10.9%	16.5	0.02%	0.35%
835	Meadows Place	4.2	4.6	1.7	-0.3%	15.4	0.25%	2.55%
837	Melissa	1.5	1.9	3.5	10.4%	21.6	0.10%	0.96%
1501	Memorial Villages PD	3.9	4.6	1.1	-2.9%	14.8	0.23%	2.35%
840	Memphis	4.8	5.3	2.4	-2.6%	15.5	0.29%	2.89%
842	Menard	6.9	5.5	1.5	-3.5%	13.8	0.00%	1.45%
844	Mercedes	4.2	5.0	1.9	-2.6%	18.4	0.25%	2.45%
846	Meridian	2.0	1.8	5.5	2.9%	18.6	0.07%	0.80%
848	Merkel	3.0	3.6	1.9	-0.6%	18.1	0.20%	2.04%
852	Mertzson	1.4	2.4	3.0	5.2%	18.2	0.14%	1.39%
854	Mesquite	6.0	6.8	1.3	-1.9%	16.0	0.36%	3.55%
856	Mexia	4.5	4.7	1.6	-0.2%	18.8	0.26%	2.61%
858	Miami	1.4	1.8	NA	13.2%	11.1	0.20%	2.04%
860	Midland	5.9	6.6	1.2	-2.6%	16.2	0.37%	3.74%
862	Midlothian	2.9	3.4	2.6	3.9%	22.0	0.17%	1.74%
863	Milano	0.7	0.9	NA	22.0%	9.5	0.12%	1.23%
864	Miles	2.5	1.9	5.0	1.1%	15.2	0.00%	0.81%
865	Milford	2.8	3.1	1.2	-3.3%	16.2	0.30%	2.98%
868	Mineola	3.4	3.2	1.6	-1.5%	16.6	0.13%	1.80%
870	Mineral Wells	3.9	4.1	1.4	-2.3%	16.4	0.23%	2.32%
874	Mission	3.0	3.3	3.2	0.6%	19.3	0.18%	1.80%
875	Missouri City	4.6	4.9	1.7	-1.2%	17.0	0.27%	2.74%
876	Monahans	3.5	3.7	2.5	-1.5%	16.6	0.22%	2.17%
887	Mont Belvieu	2.8	3.3	4.0	4.1%	20.1	0.16%	1.62%
877	Montgomery	1.2	1.0	2.4	6.0%	22.8	0.05%	0.45%
878	Moody	1.7	1.8	2.8	-2.7%	14.3	0.14%	1.43%
883	Morgan's Point	5.4	5.4	0.7	-1.3%	16.2	0.44%	4.43%
882	Morgan's Point Resort	2.8	3.0	1.1	4.2%	20.1	0.17%	1.72%
884	Morton	7.5	6.8	2.7	0.2%	15.1	0.28%	3.84%
886	Moulton	5.1	4.9	0.8	-2.3%	14.2	0.17%	3.43%
890	Mount Enterprise	4.4	4.1	2.0	-4.1%	11.7	0.12%	3.18%
892	Mt. Pleasant	4.5	5.2	1.7	1.6%	18.9	0.27%	2.73%
894	Mt. Vernon	3.8	4.2	1.4	1.0%	18.1	0.23%	2.26%
896	Muenster	3.6	2.9	1.4	-2.4%	13.5	0.13%	1.34%
898	Muleshoe	6.7	7.9	1.1	-1.7%	15.3	0.43%	4.27%
901	Munday	1.2	1.4	1.8	4.0%	17.9	0.12%	1.20%
903	Murphy	2.7	3.1	2.6	5.3%	21.9	0.17%	1.68%
10904	Nacogdoches	5.8	6.5	1.3	-1.4%	16.7	0.34%	3.44%
906	Naples	2.1	1.6	1.5	-6.0%	17.0	0.08%	0.73%
907	Nash	2.4	3.6	2.0	4.6%	20.6	0.15%	1.46%
905	Nassau Bay	3.5	4.3	1.5	4.2%	18.4	0.21%	2.11%
909	Natalia	0.9	1.0	4.0	2.0%	16.7	0.07%	0.69%
908	Navasota	4.2	4.0	1.5	-1.4%	17.6	0.16%	2.43%
910	Nederland	7.1	6.8	1.2	-4.2%	15.3	0.27%	3.81%
912	Needville	3.3	3.3	1.5	-0.6%	13.5	0.21%	2.14%
914	New Boston	2.9	2.4	2.5	-1.4%	15.5	0.10%	1.09%
10916	New Braunfels	3.6	4.5	2.3	2.9%	20.5	0.22%	2.18%
20916	New Braunfels Utilities	4.1	4.9	2.4	1.4%	18.8	0.25%	2.53%
915	New Deal	2.0	1.7	2.0	0.5%	13.2	0.07%	0.72%
923	New Fairview	1.4	2.1	1.0	10.6%	24.7	0.29%	2.88%
918	New London	3.4	3.2	2.3	1.3%	16.0	0.12%	2.52%
919	New Summerfield	1.7	1.6	1.6	8.8%	21.7	0.07%	1.45%
917	New Waverly	3.2	3.7	1.3	-0.9%	12.1	0.45%	4.51%
913	Newark	0.3	0.4	4.0	7.6%	22.0	0.04%	0.37%
920	Newton	5.3	6.5	1.6	0.9%	17.1	0.32%	3.21%
922	Nixon	1.4	1.2	2.4	1.0%	16.9	0.05%	0.52%

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City#	CityName	Ratio of MVA to Covered Pay	Ratio of AAL to Covered Pay	Ratio of Actives to Retirees (A/R)	Net Cash Flow as a Percentage of Market Value of Assets	Duration of Liabilities	Change in Contribution Rate with 10% Decline in Assets (Smoothed)	Change in Contribution Rate with 10% Decline in Assets (Unsmoothed)
924	Nocona	3.3	3.7	1.3	1.4%	16.7	0.22%	2.22%
925	Nolanville	0.4	0.4	8.0	14.9%	23.9	0.03%	0.26%
928	Normangee	1.3	0.9	3.5	1.2%	19.3	0.05%	0.52%
931	North Richland Hills	6.7	7.3	1.4	-0.9%	17.8	0.40%	3.98%
930	Northlake	1.5	1.6	11.0	9.2%	23.5	0.09%	0.88%
935	O'Donnell	1.7	1.9	2.5	1.0%	13.6	0.17%	1.70%
936	Oak Point	1.6	1.7	4.1	8.4%	22.1	0.09%	0.90%
937	Oak Ridge North	4.1	4.4	2.9	-0.1%	18.4	0.25%	2.45%
942	Odem	1.6	2.0	1.6	-3.7%	14.1	0.10%	0.96%
944	Odessa	5.9	6.5	1.3	-1.7%	16.1	0.36%	3.57%
945	Oglesby	1.4	1.4	1.0	-4.3%	17.3	0.25%	2.49%
949	Old River-Winfree	2.1	1.4	NA	2.4%	15.2	0.00%	0.49%
950	Olmos Park	3.2	3.0	0.9	-2.1%	17.1	0.12%	1.56%
951	Olney	1.4	1.5	2.1	4.6%	16.6	0.10%	1.04%
953	Omaha	1.3	1.6	2.0	3.4%	14.1	0.14%	1.41%
954	Onalaska	0.9	0.7	3.0	5.3%	21.2	0.03%	0.33%
958	Orange	7.9	8.5	1.2	-1.5%	16.0	0.47%	4.69%
960	Orange Grove	3.7	3.5	2.2	-1.2%	16.9	0.14%	2.08%
959	Ore City	1.1	1.0	3.3	-1.5%	18.6	0.05%	0.61%
962	Overton	2.3	2.0	2.0	1.6%	18.3	0.09%	0.83%
961	Ovilla	2.5	2.7	1.4	2.8%	19.4	0.15%	1.53%
963	Oyster Creek	2.8	3.1	1.3	1.7%	16.8	0.18%	1.76%
964	Paducah	6.2	5.1	0.7	-5.9%	12.6	0.00%	2.53%
966	Palacios	3.9	4.8	1.7	1.5%	16.7	0.22%	2.23%
968	Palestine	4.8	5.7	1.0	-2.6%	16.9	0.30%	2.99%
970	Palmer	1.9	2.2	3.7	5.4%	23.8	0.12%	1.15%
969	Palmhurst	0.9	0.9	6.8	12.2%	24.3	0.06%	0.55%
971	Palmview	0.6	0.7	16.5	6.7%	24.8	0.03%	0.34%
972	Pampa	4.8	6.3	1.0	-1.2%	16.1	0.29%	2.92%
974	Panhandle	3.7	4.3	1.3	1.6%	16.0	0.24%	2.41%
973	Panorama Village	3.1	3.1	1.0	0.0%	13.4	0.20%	2.18%
975	Pantego	5.1	5.8	0.7	-0.8%	17.0	0.32%	3.25%
976	Paris	5.3	5.4	1.1	-2.4%	14.4	0.33%	3.31%
977	Parker	2.0	2.6	2.0	-0.1%	17.7	0.12%	1.24%
978	Pasadena	6.8	7.1	1.3	-1.5%	16.1	0.41%	4.11%
983	Pearland	3.1	3.5	2.8	3.0%	21.6	0.19%	1.87%
984	Pearsall	2.4	2.6	2.7	-1.0%	16.8	0.14%	1.45%
988	Pecos City	2.2	2.2	2.0	0.9%	17.4	0.14%	1.40%
989	Pelican Bay	0.2	0.5	NA	41.2%	25.2	0.02%	0.17%
991	Penitas	0.4	0.5	18.5	23.2%	27.9	0.02%	0.25%
994	Perryton	6.4	6.7	1.9	3.4%	15.6	0.37%	3.75%
1000	Pflugerville	3.1	3.6	3.2	2.9%	20.8	0.18%	1.81%
1002	Pharr	2.8	3.0	2.6	0.9%	19.0	0.17%	1.67%
1004	Pilot Point	1.7	2.0	2.5	6.9%	22.0	0.11%	1.09%
1005	Pinehurst	4.5	5.7	0.7	0.8%	17.0	0.28%	2.75%
1003	Pineland	6.2	5.6	1.3	-3.7%	14.4	0.21%	2.75%
1001	Piney Point Village	1.5	1.5	1.0	4.0%	14.7	0.17%	1.74%
1006	Pittsburg	5.1	5.4	1.6	-1.3%	17.3	0.31%	3.13%
1007	Plains	5.7	5.5	1.5	0.1%	14.0	0.20%	4.33%
1008	Plainview	6.9	7.1	1.2	-2.0%	15.4	0.42%	4.19%
1010	Plano	6.1	6.5	1.8	0.2%	17.8	0.36%	3.61%
1012	Pleasanton	3.0	3.9	2.4	3.6%	19.5	0.18%	1.80%
1013	Point	1.5	1.7	3.3	9.9%	24.9	0.14%	1.35%
1017	Ponder	1.3	1.4	5.0	7.4%	15.0	0.09%	0.90%
1014	Port Aransas	2.5	3.0	1.9	2.0%	18.6	0.16%	1.55%
11016	Port Arthur	5.0	5.7	1.1	-1.6%	15.7	0.30%	2.96%
1018	Port Isabel	2.4	2.3	2.4	0.4%	19.7	0.09%	1.37%
1020	Port Lavaca	3.0	3.1	1.2	-2.0%	17.2	0.18%	1.77%
1022	Port Neches	6.6	7.1	1.1	-2.1%	16.0	0.39%	3.93%
1019	Portland	3.2	3.9	2.0	1.0%	18.4	0.20%	1.96%
1024	Post	2.4	3.2	1.5	2.9%	14.2	0.14%	1.38%
1026	Poteet	1.7	1.4	2.3	-0.4%	18.3	0.06%	0.63%
1028	Poth	1.6	1.9	2.0	3.4%	13.3	0.16%	1.62%
1030	Pottsboro	1.6	1.6	1.9	7.6%	20.1	0.10%	0.98%
1031	Prairie View	0.2	0.4	NA	37.4%	19.4	0.02%	0.15%
1032	Premont	2.1	1.3	1.6	-2.5%	13.3	0.00%	0.00%
1029	Presidio	1.2	1.1	6.7	2.1%	17.8	0.04%	0.47%
1033	Primera	1.3	1.0	5.3	1.2%	18.0	0.05%	0.46%
1034	Princeton	1.5	1.6	5.4	8.5%	23.5	0.09%	0.92%
1036	Prosper	1.5	1.8	11.9	12.6%	25.3	0.09%	0.89%
1037	Providence Village	0.5	0.6	8.0	22.7%	22.8	0.04%	0.43%
1042	Quanah	6.2	6.3	0.6	-3.8%	14.9	0.54%	5.43%
1045	Queen City	1.7	1.4	3.5	4.0%	17.2	0.06%	0.59%
1044	Quinlan	1.2	1.1	5.7	7.7%	25.2	0.04%	0.44%
1047	Quintana	0.7	0.7	NA	11.5%	16.9	0.09%	0.94%
1046	Quitaque	2.0	2.1	4.0	3.6%	14.3	0.25%	2.55%
1048	Quitman	4.5	4.2	2.3	0.8%	16.6	0.16%	2.29%
1050	Ralls	4.2	4.4	1.1	-4.1%	14.1	0.31%	3.13%
1051	Rancho Viejo	5.1	5.0	5.5	-2.4%	17.4	0.34%	3.93%
1052	Ranger	2.9	2.6	3.2	2.6%	20.2	0.11%	1.23%



**Section 8**  
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City#	CityName	Ratio of MVA to Covered Pay	Ratio of AAL to Covered Pay	Ratio of Actives to Retirees (A/R)	Net Cash Flow as a Percentage of Market Value of Assets	Duration of Liabilities	Change in Contribution Rate with 10% Decline in Assets (Smoothed)	Change in Contribution Rate with 10% Decline in Assets (Unsmoothed)
1054	Rankin	3.4	3.3	1.3	-3.7%	14.0	0.12%	3.21%
1055	Ransom Canyon	2.6	3.6	4.0	6.6%	15.9	0.20%	2.01%
1058	Raymondville	4.3	3.6	1.5	-2.7%	16.6	0.17%	1.63%
1061	Red Oak	1.4	1.6	3.1	6.6%	22.1	0.09%	0.85%
1062	Redwater	1.2	1.2	8.0	4.9%	18.0	0.11%	1.06%
1064	Refugio	2.4	1.8	1.6	-1.4%	14.5	0.00%	0.00%
1065	Reklaw	6.5	7.1	1.7	1.7%	14.4	0.78%	7.79%
1066	Reno (Lamar County)	1.9	1.8	14.0	4.5%	21.9	0.07%	0.90%
1069	Reno (Parker County)	0.6	0.6	1.9	13.4%	23.6	0.02%	0.25%
1067	Rhome	1.5	1.3	1.5	-1.0%	21.4	0.06%	0.61%
1068	Rice	0.7	0.7	4.3	5.5%	23.1	0.03%	0.30%
1070	Richardson	6.8	7.4	1.3	-2.0%	15.8	0.41%	4.15%
1073	Richland Hills	6.5	7.0	0.7	-1.9%	16.8	0.39%	3.93%
1076	Richmond	4.6	5.1	2.0	0.8%	19.7	0.28%	2.78%
1077	Richwood	3.0	3.4	1.2	-1.2%	17.8	0.17%	1.70%
1072	Riesel	1.1	1.5	4.0	8.2%	20.2	0.11%	1.06%
1075	Rio Grande City	2.1	2.2	5.9	2.7%	22.2	0.12%	1.20%
1079	Rio Vista	1.8	1.9	3.0	-4.9%	16.4	0.16%	1.59%
1080	Rising Star	1.5	0.9	2.0	-4.8%	14.1	0.00%	0.32%
1082	River Oaks	5.0	5.5	1.4	0.1%	18.3	0.30%	3.04%
1084	Roanoke	3.4	4.0	3.7	4.8%	21.8	0.20%	2.02%
1088	Robert Lee	0.7	0.9	2.0	1.8%	19.4	0.08%	0.77%
1089	Robinson	3.3	4.0	3.1	0.8%	18.4	0.19%	1.91%
21090	Robstown	3.2	3.3	1.7	-0.7%	18.5	0.18%	1.82%
11090	Robstown Utility Systems	5.9	6.6	1.1	-1.0%	14.3	0.37%	3.65%
1092	Roby	9.4	8.9	0.5	-4.9%	13.3	0.39%	11.80%
1096	Rockdale	2.8	3.0	1.8	2.1%	16.4	0.16%	1.62%
1098	Rockport	4.7	5.6	1.5	-0.1%	16.6	0.28%	2.78%
1100	Rocksprings	1.9	1.6	4.0	-8.4%	15.5	0.08%	0.73%
1102	Rockwall	4.4	4.9	2.7	2.7%	19.5	0.26%	2.62%
1104	Rogers	2.7	3.1	0.8	-4.7%	17.3	0.32%	3.15%
1105	Rollingwood	2.4	2.6	1.4	2.7%	18.8	0.18%	1.76%
1106	Roma	3.4	3.7	2.3	1.2%	18.7	0.20%	2.01%
1109	Roscoe	1.8	1.8	1.8	2.6%	13.1	0.07%	1.71%
1112	Rosebud	0.8	0.8	1.5	6.8%	16.1	0.03%	0.52%
1114	Rosenberg	4.0	4.9	1.7	1.3%	20.7	0.24%	2.42%
1116	Rotan	2.4	1.8	6.0	1.9%	15.5	0.00%	0.02%
1118	Round Rock	3.9	4.6	2.7	2.6%	20.4	0.24%	2.40%
1119	Rowlett	4.7	5.1	1.6	0.3%	18.4	0.28%	2.82%
1120	Royse City	2.0	2.5	3.5	9.4%	22.0	0.12%	1.25%
1122	Rule	3.6	2.9	3.0	-2.1%	15.1	0.12%	1.19%
1123	Runaway Bay	1.1	0.9	1.7	1.7%	16.4	0.05%	0.46%
1124	Runge	6.4	7.7	1.5	-0.8%	13.2	0.91%	9.09%
1126	Rusk	2.8	2.7	2.3	1.8%	19.1	0.10%	1.40%
1128	Sabinal	2.8	2.5	2.3	-1.8%	13.7	0.10%	1.07%
1129	Sachse	3.1	3.6	1.8	3.9%	21.1	0.19%	1.92%
1131	Saginaw	3.8	5.2	2.5	3.1%	19.3	0.23%	2.31%
1130	Saint Jo	3.2	2.6	1.2	-3.0%	17.7	0.13%	1.24%
1133	Salado	1.4	1.2	2.2	6.1%	19.7	0.06%	0.57%
1132	San Angelo	5.8	6.9	1.1	-2.4%	15.9	0.35%	3.49%
21136	San Antonio	4.0	4.5	1.4	-1.4%	15.9	0.24%	2.41%
11136	San Antonio Water System	1.8	2.0	1.3	-0.9%	16.1	0.11%	1.11%
1138	San Augustine	4.7	4.9	1.3	-0.5%	16.1	0.30%	3.05%
1140	San Benito	2.2	2.4	1.7	-1.0%	16.9	0.13%	1.29%
1144	San Felipe	1.8	2.0	1.0	-6.2%	16.7	0.25%	2.47%
1148	San Juan	1.6	1.6	3.6	0.1%	19.8	0.10%	0.96%
1150	San Marcos	4.4	5.2	1.9	0.9%	18.7	0.27%	2.65%
1152	San Saba	3.3	3.6	1.9	-0.5%	16.8	0.20%	2.05%
1146	Sanger	2.5	2.8	3.0	1.8%	18.6	0.15%	1.54%
1153	Sansom Park	1.8	1.6	2.2	3.5%	23.0	0.07%	0.74%
1155	Santa Fe	3.6	4.4	2.0	1.0%	17.6	0.22%	2.17%
1158	Savoy	2.9	2.2	1.0	-0.1%	14.3	0.12%	1.19%
1159	Schertz	3.1	4.0	3.0	3.7%	21.2	0.19%	1.89%
1160	Schulenburg	6.7	7.8	1.4	-1.9%	16.0	0.40%	4.01%
1161	Seabrook	5.0	5.7	1.4	-1.5%	17.1	0.30%	2.97%
1162	Seadrift	1.3	1.4	4.7	6.4%	17.3	0.09%	0.90%
1164	Seagoville	3.5	3.8	1.8	-0.2%	18.0	0.21%	2.11%
1166	Seagraves	2.7	3.0	1.1	-3.2%	16.0	0.16%	1.61%
1167	Sealy	4.4	5.0	2.2	1.8%	19.2	0.26%	2.63%
1168	Seguin	4.1	5.6	1.6	1.6%	17.9	0.24%	2.43%
1169	Selma	3.3	3.9	3.3	2.3%	22.3	0.20%	2.04%
1170	Seminole	5.6	6.0	1.6	-0.6%	16.1	0.34%	3.35%
1171	Seven Points	2.9	1.5	3.2	0.1%	19.8	0.11%	1.06%
1172	Seymour	3.9	4.3	1.1	-3.0%	14.3	0.24%	2.37%
1165	Shady Shores	0.7	0.8	NA	22.2%	22.1	0.12%	1.19%
1177	Shallowater	2.7	2.5	2.5	1.7%	17.1	0.10%	1.57%
1174	Shamrock	4.2	5.0	0.8	-5.2%	12.4	0.28%	2.78%
1173	Shavano Park	2.8	3.2	1.5	4.0%	22.3	0.18%	1.78%
1175	Shenandoah	3.2	4.3	2.4	4.8%	21.1	0.21%	2.12%
1181	Shepherd	2.3	1.8	3.3	1.0%	16.6	0.09%	0.88%

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1176	Sherman	5.1	5.8	1.3	-1.9%	17.0	0.31%	3.08%
1178	Shiner	2.7	3.3	1.8	-0.9%	15.7	0.17%	1.69%
1179	Shoreacres	3.7	3.3	1.4	0.1%	15.9	0.13%	1.47%
1180	Silsbee	5.1	6.3	1.2	-1.7%	16.7	0.30%	3.01%
1182	Silverton	5.7	5.4	1.3	-5.2%	13.3	0.21%	5.99%
1183	Simonton	0.1	0.1	NA	81.6%	26.7	0.02%	0.15%
1184	Sinton	4.1	4.7	1.9	0.8%	18.5	0.24%	2.38%
1185	Skellytown	1.7	1.3	5.0	1.6%	16.4	0.06%	0.61%
1186	Slaton	4.2	4.2	1.4	-1.7%	15.9	0.27%	2.65%
1188	Smithville	2.4	2.6	2.0	2.0%	16.9	0.15%	1.45%
1189	Smyer	3.8	3.8	NA	4.6%	13.3	0.65%	6.47%
1190	Snyder	6.3	6.8	1.4	-1.4%	16.5	0.38%	3.81%
1191	Somerset	0.8	0.7	3.0	2.0%	21.3	0.03%	0.31%
1192	Somerville	2.3	2.1	1.2	0.5%	15.1	0.08%	1.06%
1194	Sonora	3.7	4.0	1.0	-2.7%	16.9	0.22%	2.20%
1196	Sour Lake	2.0	1.8	4.0	4.4%	16.9	0.07%	0.80%
1198	South Houston	4.6	4.8	1.9	0.1%	16.4	0.28%	2.78%
1199	South Padre Island	4.6	4.8	2.4	0.6%	19.8	0.26%	2.63%
1197	Southlake	4.0	4.4	2.6	2.3%	19.8	0.24%	2.40%
1200	Southmayd	0.4	0.5	8.0	19.7%	22.9	0.04%	0.36%
1202	Southside Place	3.4	3.8	1.5	-0.6%	16.9	0.20%	2.03%
1204	Spearman	5.5	5.7	1.1	-1.7%	15.9	0.32%	3.24%
1201	Splendor	0.2	0.7	26.0	42.0%	21.6	0.02%	0.16%
1205	Spring Valley Village	3.8	3.9	1.1	-2.0%	15.3	0.24%	2.40%
1203	Springtown	3.1	2.8	2.0	1.5%	20.5	0.12%	1.16%
1206	Spur	3.1	3.3	2.5	-3.7%	15.9	0.26%	2.59%
1207	Stafford	4.1	4.5	2.1	0.5%	19.8	0.24%	2.41%
1208	Stamford	3.5	3.2	1.0	-1.9%	14.2	0.13%	1.83%
1210	Stanton	2.7	2.9	2.7	2.2%	17.1	0.17%	1.71%
1211	Star Harbor	5.0	5.2	0.7	-0.7%	15.9	0.71%	7.09%
1212	Stephenville	5.0	4.7	1.5	-1.7%	16.7	0.18%	2.64%
1213	Sterling City	2.2	2.1	1.5	-0.2%	14.8	0.08%	2.16%
1214	Stinnett	3.1	2.5	1.9	-1.7%	14.7	0.12%	1.17%
1216	Stockdale	0.7	0.8	8.0	23.8%	13.4	0.06%	0.61%
1218	Stratford	2.0	1.9	1.2	0.7%	19.6	0.08%	1.20%
1224	Sudan	2.0	1.9	3.0	0.0%	16.2	0.08%	1.16%
1225	Sugar Land	4.6	5.1	3.0	1.9%	19.6	0.27%	2.73%
1226	Sulphur Springs	4.9	5.0	1.2	-2.8%	15.0	0.29%	2.89%
1228	Sundown	6.2	6.6	0.7	-1.5%	14.7	0.50%	4.97%
1229	Sunnyvale	2.2	2.5	2.3	2.4%	20.2	0.13%	1.34%
1230	Sunray	4.8	5.4	1.5	1.3%	17.5	0.36%	3.56%
1227	Sunrise Beach Village	0.7	0.7	3.3	4.7%	20.5	0.06%	0.66%
1231	Sunset Valley	3.3	3.7	3.6	4.5%	21.4	0.20%	1.98%
1233	Surfside Beach	0.9	0.7	4.8	2.0%	17.1	0.03%	0.35%
1232	Sweeny	4.7	5.6	1.3	-2.3%	15.5	0.28%	2.78%
1234	Sweetwater	5.0	5.8	1.3	-1.2%	16.0	0.31%	3.09%
1264	TMRS	3.7	4.3	3.3	3.2%	17.5	0.23%	2.26%
1236	Taft	2.8	3.3	1.7	-1.6%	16.3	0.17%	1.74%
1238	Tahoka	4.3	3.3	2.0	-1.8%	14.0	0.15%	1.54%
1240	Talty	0.4	1.1	7.0	24.6%	16.2	0.05%	0.46%
1241	Tatum	1.1	1.1	2.3	3.1%	17.8	0.10%	0.98%
1246	Taylor	3.3	3.9	1.4	0.2%	18.7	0.21%	2.08%
1248	Teague	3.7	3.5	0.9	0.5%	17.7	0.14%	1.99%
1252	Temple	5.3	6.2	1.6	-0.6%	17.3	0.32%	3.23%
1254	Tenaha	1.3	1.0	1.0	-6.6%	17.5	0.04%	0.43%
1256	Terrell	5.2	5.9	1.4	-0.6%	18.2	0.31%	3.07%
1258	Terrell Hills	4.7	5.5	1.5	1.2%	19.8	0.29%	2.86%
31263	Tex Municipal League IEBP	3.0	3.1	3.7	0.9%	14.9	0.19%	1.86%
21263	Tex Municipal League IRP	6.5	6.4	3.0	0.4%	15.9	0.39%	3.87%
21260	Texarkana	6.0	6.8	1.1	-1.7%	15.2	0.38%	3.77%
11260	Texarkana Police Dept	7.7	8.3	1.0	-2.9%	18.4	0.46%	4.56%
31260	Texarkana Water Utilities	5.4	6.2	1.4	-0.7%	16.5	0.32%	3.23%
1262	Texas City	6.0	6.8	1.3	-1.7%	16.4	0.36%	3.60%
11263	Texas Municipal League	6.3	7.0	1.3	0.2%	15.5	0.38%	3.79%
1267	The Colony	3.7	4.1	1.9	1.8%	19.1	0.22%	2.22%
1269	Thompsons	1.8	2.0	3.0	4.0%	13.9	0.25%	2.54%
1268	Thorndale	2.9	2.9	1.3	0.7%	15.0	0.26%	2.62%
1272	Thrall	0.7	0.8	NA	19.4%	16.9	0.08%	0.75%
1274	Three Rivers	3.3	5.2	1.8	3.9%	17.0	0.19%	1.92%
1276	Throckmorton	4.8	4.8	0.6	-4.2%	16.9	0.56%	5.65%
1277	Tiki Island	1.3	1.4	8.0	4.9%	16.9	0.13%	1.33%
1278	Timpson	2.8	2.5	2.0	-0.2%	15.4	0.10%	1.02%
1280	Tioga	1.2	1.1	NA	6.6%	19.2	0.05%	0.66%
1283	Tolar	2.4	2.3	1.5	2.6%	17.7	0.08%	2.22%
1286	Tom Bean	1.1	0.9	4.0	6.0%	22.2	0.04%	0.43%
1284	Tomball	3.6	4.1	2.0	1.3%	19.7	0.21%	2.10%
1290	Trent	2.9	2.9	2.0	4.5%	10.4	0.46%	4.61%
1292	Trenton	1.9	1.6	1.5	-0.1%	15.5	0.08%	0.77%
1293	Trinidad	1.9	1.9	1.3	-2.2%	11.5	0.24%	2.39%
1294	Trinity	2.3	2.3	2.6	0.8%	19.3	0.13%	1.28%

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1295	Trophy Club	3.6	3.9	1.9	2.6%	18.8	0.22%	2.22%
1296	Troup	1.6	1.7	1.7	0.1%	20.5	0.10%	0.96%
1297	Troy	1.6	1.6	1.6	8.1%	16.7	0.13%	1.27%
1298	Tulia	6.4	6.4	1.3	-2.4%	15.7	0.39%	3.87%
1299	Turkey	1.6	2.0	0.7	-4.4%	12.5	0.20%	1.97%
1301	Tye	1.4	1.7	1.5	3.5%	18.7	0.10%	1.00%
1304	Tyler	5.8	7.2	1.2	-1.0%	16.6	0.34%	3.42%
1305	Universal City	4.0	5.1	1.8	2.4%	18.5	0.24%	2.43%
1306	University Park	6.0	6.1	1.3	-2.1%	14.0	0.35%	3.51%
1308	Uvalde	2.5	2.7	2.2	-0.4%	18.7	0.15%	1.52%
1312	Valley Mills	0.3	0.2	NA	-1.3%	20.5	0.01%	0.09%
1313	Valley View	0.3	0.3	5.0	0.8%	22.3	0.01%	0.16%
1314	Van	3.0	2.9	1.7	0.2%	16.7	0.11%	1.65%
1316	Van Alstyne	2.4	2.6	2.4	2.8%	24.1	0.14%	1.37%
1318	Van Horn	3.3	3.6	1.9	0.7%	17.6	0.22%	2.24%
1320	Vega	6.3	7.4	1.5	-0.9%	15.1	0.68%	6.84%
1324	Venus	1.6	1.6	1.5	4.1%	23.4	0.10%	1.00%
1326	Vernon	5.4	6.0	1.2	-2.3%	15.9	0.33%	3.34%
1328	Victoria	5.6	6.7	1.2	-2.2%	17.0	0.33%	3.30%
1329	Vidor	5.6	6.2	1.3	-0.5%	16.1	0.33%	3.31%
1500	Village Fire Department	4.7	4.8	1.7	-2.0%	16.4	0.31%	3.09%
1327	Village of the Hills	0.3	0.4	NA	38.6%	22.3	0.06%	0.63%
1330	Waco	5.4	6.1	1.3	-1.7%	15.4	0.34%	3.37%
1332	Waelder	1.5	1.5	3.6	2.2%	17.6	0.09%	0.94%
1334	Wake Village	3.6	4.2	1.0	-1.1%	17.9	0.23%	2.25%
1336	Waller	2.2	2.2	1.8	-1.3%	13.9	0.08%	1.21%
1337	Wallis	2.0	1.8	2.0	0.8%	16.4	0.08%	0.94%
1338	Walnut Springs	1.8	1.9	1.0	0.5%	15.6	0.28%	2.84%
1340	Waskom	3.0	3.4	1.3	-2.5%	14.3	0.22%	2.23%
1341	Watauga	5.0	5.6	1.4	0.9%	18.7	0.34%	3.35%
1342	Waxahachie	3.8	4.5	2.2	1.8%	18.9	0.23%	2.27%
1344	Weatherford	5.1	5.6	1.6	0.1%	18.1	0.31%	3.14%
1345	Webster	4.8	5.6	1.4	0.6%	18.5	0.30%	3.03%
1346	Weimar	5.9	6.3	1.0	-0.3%	15.0	0.36%	3.63%
1350	Wellington	7.7	7.1	1.3	-3.1%	11.4	0.29%	4.00%
1352	Wells	1.2	1.1	3.5	-3.2%	19.2	0.05%	0.50%
1354	Weslaco	3.8	4.1	1.4	-1.2%	17.4	0.25%	2.52%
1356	West	2.6	2.6	1.8	-1.0%	16.5	0.16%	1.63%
1358	West Columbia	3.3	2.9	1.5	-1.1%	14.9	0.12%	1.20%
1359	West Lake Hills	4.4	5.1	0.8	0.2%	18.1	0.31%	3.08%
1361	West Orange	7.2	8.3	1.4	-0.2%	15.3	0.44%	4.35%
1365	West Tawakoni	2.1	2.4	1.2	0.4%	17.3	0.16%	1.62%
1364	West Univ. Place	5.0	5.6	1.0	-2.0%	16.6	0.30%	2.97%
1363	Westlake	2.0	2.4	3.5	8.0%	20.0	0.12%	1.23%
1362	Westover Hills	1.6	1.7	1.0	0.3%	17.2	0.10%	0.98%
1366	Westworth Village	2.5	2.7	1.9	3.8%	20.9	0.16%	1.58%
1368	Wharton	3.3	3.3	2.5	0.2%	16.3	0.19%	1.93%
1370	Wheeler	4.9	5.1	2.3	-4.1%	17.2	0.49%	4.88%
1372	White Deer	2.1	2.9	1.0	-0.4%	13.1	0.25%	2.47%
1377	White Oak	5.8	6.0	1.5	-0.3%	17.1	0.36%	3.60%
1378	White Settlement	4.2	5.2	1.2	0.3%	18.3	0.26%	2.56%
1374	Whiteface	5.9	5.0	3.0	-0.2%	15.1	0.22%	2.20%
1375	Whitehouse	2.9	3.2	1.9	1.5%	21.1	0.16%	1.64%
1376	Whitesboro	3.6	3.6	1.6	-1.0%	16.3	0.22%	2.18%
1380	Whitewright	2.0	1.8	2.0	-0.4%	18.2	0.08%	0.78%
1382	Whitney	1.5	1.6	1.4	3.2%	19.0	0.09%	0.93%
1384	Wichita Falls	5.2	6.3	1.4	-2.4%	15.4	0.31%	3.15%
1386	Willis	2.8	3.0	1.8	2.7%	19.2	0.17%	1.67%
1387	Willow Park	1.0	1.1	2.9	9.8%	23.0	0.06%	0.63%
1388	Wills Point	3.6	4.2	1.5	-0.6%	16.4	0.23%	2.27%
1390	Wilmer	1.6	1.6	2.2	3.4%	20.0	0.08%	1.04%
1392	Wimberley	0.9	1.0	1.8	13.4%	21.2	0.08%	0.77%
1393	Windcrest	2.9	2.9	1.4	0.0%	18.3	0.18%	1.76%
1395	Winfield	1.2	1.1	NA	0.9%	13.0	0.04%	0.91%
1396	Wink	1.9	1.8	2.8	2.6%	17.1	0.16%	1.59%
1398	Winnsboro	2.9	3.2	1.5	-0.5%	16.7	0.18%	1.83%
1399	Winona	4.7	2.8	2.0	-4.6%	14.5	0.17%	1.66%
1400	Winters	5.3	5.6	0.9	-3.5%	16.7	0.38%	3.84%
1403	Wolfforth	2.2	2.8	4.6	3.7%	20.1	0.14%	1.38%
1409	Woodcreek	1.0	1.0	1.5	8.0%	10.3	0.15%	1.50%
1404	Woodsboro	1.8	1.3	3.3	0.9%	18.9	0.07%	0.67%
1406	Woodville	5.3	6.0	1.9	-3.6%	18.1	0.32%	3.17%
1407	Woodway	4.7	5.5	1.9	0.7%	18.7	0.28%	2.85%
1408	Wortham	2.4	2.2	2.0	0.2%	22.7	0.09%	1.28%
1410	Wylie	3.2	3.9	3.1	4.2%	21.8	0.19%	1.88%
1412	Yoakum	5.5	6.4	1.4	-2.0%	15.1	0.34%	3.43%
1414	Yorktown	3.9	3.9	1.0	-4.0%	12.1	0.29%	3.28%
1415	Zavalla	2.2	1.7	4.5	-0.1%	19.1	0.09%	0.89%

**SECTION 9**



**INDIVIDUAL CITY REPORTS**

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Abernathy	Abilene	Addison	Agua Dulce	Alamo	Alamo Heights	Alba
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$562,265	\$127,356,908	\$48,568,655	\$61,823	\$5,740,841	\$11,365,644	\$501,679
b. Noncontributing Members	350,903	25,786,415	16,447,648	0	1,664,104	4,184,976	0
c. Annuitants	<u>520,551</u>	<u>162,420,324</u>	<u>71,629,880</u>	<u>0</u>	<u>4,243,869</u>	<u>13,019,469</u>	<u>36,842</u>
2. Total Actuarial Accrued Liability	\$1,433,719	\$315,563,647	\$136,646,183	\$61,823	\$11,648,814	\$28,570,089	\$538,521
3. Actuarial value of assets	<u>1,329,644</u>	<u>290,457,687</u>	<u>129,816,071</u>	<u>30,228</u>	<u>10,640,703</u>	<u>22,501,474</u>	<u>378,106</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$104,075	\$25,105,960	\$6,830,112	\$31,595	\$1,008,111	\$6,068,615	\$160,415
5. Funded Ratio: (3) / (2)	92.7%	92.0%	95.0%	48.9%	91.3%	78.8%	70.2%
6. Annual Payroll	\$685,593	\$54,582,722	\$21,590,583	\$107,670	\$5,378,220	\$5,848,625	\$231,663
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	2.62%	7.63%	8.57%	2.13%	4.87%	9.69%	4.58%
Prior Service	<u>1.08%</u>	<u>3.34%</u>	<u>2.81%</u>	<u>5.51%</u>	<u>1.33%</u>	<u>6.78%</u>	<u>9.18%</u>
Total Retirement	3.70%	10.97%	11.38%	7.64%	6.20%	16.47%	13.76%
Supplemental Death	<u>0.20%</u>	<u>0.36%</u>	<u>0.18%</u>	<u>0.14%</u>	<u>0.20%</u>	<u>0.24%</u>	<u>0.15%</u>
Total Rate	3.90%	11.33%	11.56%	7.78%	6.40%	16.71%	13.91%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	7.50%	N/A	15.50%	N/A	9.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	20.6 years	19.9 years	15.0 years	6.0 years	20.6 years	23.8 years	9.0 years
Number of annuitants	6	864	216	0	46	78	1
Number of active contributing members	17	1,043	270	3	143	97	5
Number of inactive members	35	638	233	0	117	88	0
Average age of contributing members	43.3 years	43.6 years	40.4 years	55.0 years	40.8 years	41.6 years	54.0 years
Average length of service of contributing members	6.2 years	10.1 years	11.2 years	7.5 years	8.2 years	11.6 years	14.4 years

	Albany	Aledo	Alice	Allen	Alpine	Alto	Alton
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$760,063	\$679,998	\$17,928,057	\$140,776,303	\$2,899,711	\$470,191	\$3,148,603
b. Noncontributing Members	17,304	190,899	2,973,611	29,131,943	693,116	350,569	1,036,860
c. Annuitants	<u>304,526</u>	<u>459,247</u>	<u>20,236,713</u>	<u>62,721,876</u>	<u>3,160,037</u>	<u>394,719</u>	<u>2,396,864</u>
2. Total Actuarial Accrued Liability	\$1,081,893	\$1,330,144	\$41,138,381	\$232,630,122	\$6,752,864	\$1,215,479	\$6,582,327
3. Actuarial value of assets	<u>957,533</u>	<u>1,018,549</u>	<u>42,544,852</u>	<u>202,145,715</u>	<u>8,202,211</u>	<u>1,151,858</u>	<u>6,064,735</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$124,360	\$311,595	(\$1,406,471)	\$30,484,407	(\$1,449,347)	\$63,621	\$517,592
5. Funded Ratio: (3) / (2)	88.5%	76.6%	103.4%	86.9%	121.5%	94.8%	92.1%
6. Annual Payroll	\$643,000	\$695,944	\$10,010,263	\$53,241,926	\$3,521,209	\$489,862	\$3,456,829
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.07%	10.19%	5.13%	10.68%	3.61%	10.75%	10.14%
Prior Service	<u>1.43%</u>	<u>3.60%</u>	<u>-0.55%</u>	<u>3.70%</u>	<u>-1.60%</u>	<u>1.03%</u>	<u>0.96%</u>
Total Retirement	5.50%	13.79%	4.58%	14.38%	2.01%	11.78%	11.10%
Supplemental Death	<u>0.45%</u>	<u>0.27%</u>	<u>0.00%</u>	<u>0.13%</u>	<u>0.23%</u>	<u>0.45%</u>	<u>0.14%</u>
Total Rate	5.95%	14.06%	4.58%	14.51%	2.24%	12.23%	11.24%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	1.87%	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	9.50%	N/A	11.50%	N/A	11.50%	13.50%	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	19.4 years	17.2 years	N/A	24.0 years	N/A	17.5 years	24.4 years
Number of annuitants	7	9	167	246	33	9	20
Number of active contributing members	17	14	202	774	82	13	85
Number of inactive members	7	15	89	491	90	23	112
Average age of contributing members	56.4 years	46.4 years	46.7 years	42.9 years	42.3 years	40.8 years	38.5 years
Average length of service of contributing members	10.1 years	8.9 years	10.7 years	10.8 years	6.0 years	4.8 years	5.7 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Alvarado	Alvin	Alvord	Amarillo	Amherst	Anahuac	Andrews
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,148,865	\$31,840,119	\$74,055	\$196,155,593	\$85,633	\$221,208	\$12,265,702
b. Noncontributing Members	793,945	7,939,117	338,658	28,286,839	14,545	430,586	1,751,641
c. Annuitants	<u>615,431</u>	<u>29,358,894</u>	<u>72,885</u>	<u>272,171,106</u>	<u>78,616</u>	<u>434,233</u>	<u>14,790,131</u>
2. Total Actuarial Accrued Liability	\$4,558,241	\$69,138,130	\$485,598	\$496,613,538	\$178,794	\$1,086,027	\$28,807,474
3. Actuarial value of assets	<u>4,195,188</u>	<u>59,477,447</u>	<u>475,970</u>	<u>440,164,575</u>	<u>372,067</u>	<u>1,032,640</u>	<u>24,404,383</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$363,053	\$9,660,683	\$9,628	\$56,448,963	(\$193,273)	\$53,387	\$4,403,091
5. Funded Ratio: (3) / (2)	92.0%	86.0%	98.0%	88.6%	208.1%	95.1%	84.7%
6. Annual Payroll	\$3,163,392	\$11,157,189	\$311,171	\$92,839,411	\$132,491	\$452,518	\$4,892,886
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.58%	9.76%	5.28%	7.37%	4.07%	7.20%	8.89%
Prior Service	<u>0.76%</u>	<u>7.57%</u>	<u>0.34%</u>	<u>4.95%</u>	<u>-4.07%</u>	<u>1.39%</u>	<u>7.29%</u>
Total Retirement	5.34%	17.33%	5.62%	12.32%	0.00%	8.59%	16.18%
Supplemental Death	<u>0.13%</u>	<u>0.21%</u>	<u>0.50%</u>	<u>0.00%</u>	<u>0.00%</u>	<u>0.27%</u>	<u>0.00%</u>
Total Rate	5.47%	17.54%	6.12%	12.32%	0.00%	8.86%	16.18%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	23.0 years	15.3 years	11.8 years	16.9 years	N/A	11.1 years	17.0 years
Number of annuitants	13	134	3	1,208	2	5	38
Number of active contributing members	61	216	7	1,825	5	10	77
Number of inactive members	51	238	7	1,140	4	16	44
Average age of contributing members	43.1 years	41.1 years	41.6 years	43.4 years	44.7 years	42.4 years	39.4 years
Average length of service of contributing members	8.1 years	9.9 years	6.1 years	8.5 years	9.6 years	4.9 years	8.6 years

	Angleton	Anna	Annetta	Anson	Anthony	Aransas Pass	Archer City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$11,298,929	\$5,331,232	\$56,799	\$932,773	\$768,816	\$5,787,499	\$645,770
b. Noncontributing Members	3,359,856	1,612,066	19,466	137,153	172,982	1,940,974	311,109
c. Annuitants	<u>13,950,486</u>	<u>2,458,180</u>	<u>0</u>	<u>244,001</u>	<u>658,192</u>	<u>8,341,025</u>	<u>149,058</u>
2. Total Actuarial Accrued Liability	\$28,609,271	\$9,401,478	\$76,265	\$1,313,927	\$1,599,990	\$16,069,498	\$1,105,937
3. Actuarial value of assets	<u>25,069,549</u>	<u>8,100,844</u>	<u>72,394</u>	<u>1,422,002</u>	<u>1,297,818</u>	<u>14,175,211</u>	<u>1,036,671</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$3,539,722	\$1,300,634	\$3,871	(\$108,075)	\$302,172	\$1,894,287	\$69,266
5. Funded Ratio: (3) / (2)	87.6%	86.2%	94.9%	108.2%	81.1%	88.2%	93.7%
6. Annual Payroll	\$6,891,671	\$5,193,394	\$98,181	\$878,215	\$1,317,295	\$4,986,552	\$840,710
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	8.37%	12.49%	8.72%	1.19%	1.23%	7.42%	3.46%
Prior Service	<u>3.68%</u>	<u>1.60%</u>	<u>0.73%</u>	<u>-0.48%</u>	<u>1.65%</u>	<u>2.45%</u>	<u>0.61%</u>
Total Retirement	12.05%	14.09%	9.45%	0.71%	2.88%	9.87%	4.07%
Supplemental Death	<u>0.23%</u>	<u>0.09%</u>	<u>0.09%</u>	<u>0.28%</u>	<u>0.13%</u>	<u>0.23%</u>	<u>0.38%</u>
Total Rate	12.28%	14.18%	9.54%	0.99%	3.01%	10.10%	4.45%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	7.50%	N/A	N/A	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	20.4 years	24.3 years	6.1 years	N/A	20.3 years	24.0 years	19.3 years
Number of annuitants	71	13	0	8	9	52	5
Number of active contributing members	129	89	2	25	35	110	18
Number of inactive members	70	47	1	34	21	129	11
Average age of contributing members	41.5 years	39.7 years	53.2 years	45.1 years	40.0 years	40.6 years	53.0 years
Average length of service of contributing members	8.1 years	9.2 years	3.6 years	9.1 years	7.1 years	6.5 years	11.0 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Arcola	Argyle	Arlington	Arp	Aspermont	Athens	Atlanta
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$313,894	\$2,736,561	\$547,445,977	\$142,513	\$340,964	\$13,651,302	\$2,802,048
b. Noncontributing Members	32,817	1,295,307	96,895,570	120,982	28,664	3,169,054	472,222
c. Annuitants	0	1,977,491	672,988,834	400,916	150,625	19,547,894	1,397,144
2. Total Actuarial Accrued Liability	\$346,711	\$6,009,359	\$1,317,330,381	\$664,411	\$520,253	\$36,368,250	\$4,671,414
3. Actuarial value of assets	220,596	5,724,570	1,144,057,115	726,289	643,384	29,921,977	4,248,993
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$126,115	\$284,789	\$173,273,266	(\$61,878)	(\$123,131)	\$6,446,273	\$422,421
5. Funded Ratio: (3) / (2)	63.6%	95.3%	86.8%	109.3%	123.7%	82.3%	91.0%
6. Annual Payroll	\$744,014	\$2,148,152	\$190,395,189	\$298,286	\$324,729	\$6,794,305	\$1,699,364
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	2.16%	11.97%	9.56%	2.57%	1.31%	9.16%	5.31%
Prior Service	1.77%	0.91%	7.26%	-0.81%	-1.31%	7.29%	1.66%
Total Retirement	3.93%	12.88%	16.82%	1.76%	0.00%	16.45%	6.97%
Supplemental Death	0.14%	0.00%	0.19%	0.21%	0.28%	0.21%	0.26%
Total Rate	4.07%	12.88%	17.01%	1.97%	0.28%	16.66%	7.23%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	16.87%	1.92%	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	7.50%	7.50%	N/A	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	12.1 years	21.8 years	17.4 years	N/A	N/A	18.3 years	24.1 years
Number of annuitants	0	17	1,876	4	2	86	19
Number of active contributing members	15	27	2,578	10	7	116	41
Number of inactive members	8	26	1,204	11	2	82	17
Average age of contributing members	51.0 years	43.8 years	41.8 years	40.1 years	48.8 years	41.1 years	50.3 years
Average length of service of contributing members	5.8 years	9.3 years	11.1 years	6.5 years	11.9 years	10.0 years	10.9 years

	Aubrey	Avinger	Azle	Baird	Balch Springs	Balcones Heights	Ballinger
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$2,672,483	\$119,018	\$14,984,311	\$205,719	\$27,192,907	\$6,381,172	\$1,237,791
b. Noncontributing Members	1,184,971	0	3,949,399	239,832	4,424,069	1,892,250	210,671
c. Annuitants	398,837	0	9,152,163	249,964	10,912,192	7,083,426	2,344,404
2. Total Actuarial Accrued Liability	\$4,256,291	\$119,018	\$28,085,873	\$695,515	\$42,529,168	\$15,356,848	\$3,792,866
3. Actuarial value of assets	4,205,334	128,975	23,985,514	772,886	35,213,051	15,992,127	3,778,741
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$50,957	(\$9,957)	\$4,100,359	(\$77,371)	\$7,316,117	(\$635,279)	\$14,125
5. Funded Ratio: (3) / (2)	98.8%	108.4%	85.4%	111.1%	82.8%	104.1%	99.6%
6. Annual Payroll	\$3,486,549	\$63,355	\$7,693,555	\$479,725	\$11,206,390	\$3,014,648	\$1,591,317
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	5.54%	2.74%	8.40%	1.76%	9.22%	8.65%	3.12%
Prior Service	0.10%	-0.61%	3.78%	-0.63%	4.20%	-0.82%	0.06%
Total Retirement	5.64%	2.13%	12.18%	1.13%	13.42%	7.83%	3.18%
Supplemental Death	0.11%	0.15%	0.19%	0.16%	0.18%	0.25%	0.37%
Total Rate	5.75%	2.28%	12.37%	1.29%	13.60%	8.08%	3.55%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	9.50%	12.50%	N/A	N/A	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	22.7 years	N/A	20.7 years	N/A	24.1 years	N/A	25.0 years
Number of annuitants	14	0	83	4	94	56	22
Number of active contributing members	67	2	128	11	176	52	35
Number of inactive members	86	0	128	9	111	43	18
Average age of contributing members	38.4 years	52.3 years	41.6 years	45.2 years	41.9 years	43.7 years	45.2 years
Average length of service of contributing members	7.7 years	16.5 years	9.2 years	6.0 years	8.9 years	12.5 years	5.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Balmerhea	Bandera	Bangs	Bartlett	Bartonville	Bastrop	Bay City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$32,483	\$587,722	\$864,225	\$411,270	\$354,643	\$11,851,181	\$14,337,809
b. Noncontributing Members	2,025	429,662	379,732	392,481	262,740	2,220,114	2,711,717
c. Annuitants	0	1,621,265	951,952	449,827	710,278	8,382,687	20,413,460
2. Total Actuarial Accrued Liability	\$34,508	\$2,638,649	\$2,195,909	\$1,253,578	\$1,327,661	\$22,453,982	\$37,462,986
3. Actuarial value of assets	51,877	2,704,576	2,119,424	1,437,188	950,603	18,877,080	33,623,688
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$17,369)	(\$65,927)	\$76,485	(\$183,610)	\$377,058	\$3,576,902	\$3,839,298
5. Funded Ratio: (3) / (2)	150.3%	102.5%	96.5%	114.6%	71.6%	84.1%	89.8%
6. Annual Payroll	\$34,119	\$920,458	\$487,532	\$547,129	\$460,910	\$7,962,358	\$7,756,696
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.73%	11.59%	10.74%	8.29%	7.14%	8.59%	5.71%
Prior Service	-1.73%	-0.28%	1.22%	-1.31%	8.88%	2.88%	4.05%
Total Retirement	0.00%	11.31%	11.96%	6.98%	16.02%	11.47%	9.76%
Supplemental Death	0.06%	0.57%	0.26%	0.44%	0.16%	0.17%	0.32%
Total Rate	0.06%	11.88%	12.22%	7.42%	16.18%	11.64%	10.08%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	16.13%	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	11.50%	N/A	12.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	N/A	18.1 years	N/A	11.5 years	24.2 years	16.9 years
Number of annuitants	0	13	10	9	8	62	121
Number of active contributing members	1	19	12	12	7	131	157
Number of inactive members	1	37	22	28	9	62	97
Average age of contributing members	50.2 years	46.8 years	52.0 years	51.1 years	47.3 years	45.4 years	42.2 years
Average length of service of contributing members	11.3 years	5.9 years	6.8 years	5.5 years	6.9 years	9.9 years	9.6 years

	Bayou Vista	Baytown	Beaumont	Bedford	Bee Cave	Beeville	Bellaire
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$79,911	\$189,480,515	\$214,021,277	\$29,432,090	\$3,947,371	\$4,414,698	\$39,093,978
b. Noncontributing Members	143,698	23,922,945	24,514,504	5,742,199	1,563,302	1,431,733	6,087,477
c. Annuitants	191,370	153,554,845	269,533,265	8,313,457	1,361,168	5,413,683	43,059,776
2. Total Actuarial Accrued Liability	\$414,979	\$366,958,305	\$508,069,046	\$43,487,746	\$6,871,841	\$11,260,114	\$88,241,231
3. Actuarial value of assets	467,465	304,353,997	436,111,481	31,099,442	6,313,662	13,659,079	74,766,606
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$52,486)	\$62,604,308	\$71,957,565	\$12,388,304	\$558,179	(\$2,398,965)	\$13,474,625
5. Funded Ratio: (3) / (2)	112.6%	82.9%	85.8%	71.5%	91.9%	121.3%	84.7%
6. Annual Payroll	\$333,488	\$63,332,778	\$64,224,448	\$24,313,005	\$3,202,570	\$4,344,195	\$11,874,246
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	3.27%	10.15%	9.92%	5.48%	7.99%	3.41%	11.12%
Prior Service	-0.61%	7.52%	9.92%	3.37%	1.15%	-2.15%	9.02%
Total Retirement	2.66%	17.67%	19.84%	8.85%	9.14%	1.26%	20.14%
Supplemental Death	0.20%	0.16%	0.00%	0.00%	0.14%	0.00%	0.24%
Total Rate	2.86%	17.83%	19.84%	8.85%	9.28%	1.26%	20.38%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	0.93%	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	13.50%	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	18.6 years	15.2 years	23.1 years	23.1 years	N/A	17.5 years
Number of annuitants	5	497	928	80	11	71	135
Number of active contributing members	7	855	1,003	339	46	101	159
Number of inactive members	12	370	419	174	42	93	117
Average age of contributing members	41.0 years	41.2 years	44.7 years	41.2 years	41.7 years	43.8 years	44.7 years
Average length of service of contributing members	4.2 years	10.6 years	11.5 years	11.7 years	7.6 years	9.4 years	12.5 years



**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Bellmead	Bells	Bellville	Belton	Benbrook	Berryville	Bertram
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$4,543,234	\$97,044	\$5,886,824	\$10,803,964	\$29,172,969	\$59,317	\$202,642
b. Noncontributing Members	2,269,802	111,722	985,439	3,021,853	4,037,455	0	205,701
c. Annuitants	7,035,151	98,104	6,163,946	11,690,731	29,336,679	128,950	230,649
2. Total Actuarial Accrued Liability	\$13,848,187	\$306,870	\$13,036,209	\$25,516,548	\$62,547,103	\$188,267	\$638,992
3. Actuarial value of assets	14,608,940	401,094	10,137,225	23,129,940	55,581,850	195,679	633,485
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$760,753)	(\$94,224)	\$2,898,984	\$2,386,608	\$6,965,253	(\$7,412)	\$5,507
5. Funded Ratio: (3) / (2)	105.5%	130.7%	77.8%	90.6%	88.9%	103.9%	99.1%
6. Annual Payroll	\$3,725,032	\$399,114	\$2,564,117	\$8,901,771	\$10,470,313	\$103,655	\$566,684
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	8.73%	4.35%	6.70%	6.40%	11.63%	4.05%	4.20%
Prior Service	-0.80%	-0.92%	9.92%	1.72%	4.95%	-0.28%	0.08%
Total Retirement	7.93%	3.43%	16.62%	8.12%	16.58%	3.77%	4.28%
Supplemental Death	0.21%	0.17%	0.40%	0.22%	0.16%	0.92%	0.00%
Total Rate	8.14%	3.60%	17.02%	8.34%	16.74%	4.69%	4.28%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	3.55%	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	12.50%	N/A	N/A	12.50%	N/A	9.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	N/A	15.5 years	24.3 years	19.2 years	N/A	17.0 years
Number of annuitants	34	5	41	90	82	3	6
Number of active contributing members	74	11	50	168	126	3	14
Number of inactive members	73	18	33	156	69	0	14
Average age of contributing members	42.7 years	38.4 years	47.5 years	40.8 years	39.9 years	66.3 years	37.9 years
Average length of service of contributing members	8.1 years	6.5 years	11.5 years	10.2 years	11.8 years	4.3 years	6.0 years

	Big Lake	Big Sandy	Big Spring	Bishop	Blanco	Blooming Grove	Blossom
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,506,637	\$170,672	\$22,361,573	\$1,283,219	\$437,779	\$265,632	\$408,720
b. Noncontributing Members	1,857,946	137,922	5,333,287	323,058	161,386	89,109	63,554
c. Annuitants	1,863,062	694,897	31,601,053	1,095,574	424,426	162,348	343,061
2. Total Actuarial Accrued Liability	\$7,227,645	\$1,003,491	\$59,295,913	\$2,701,851	\$1,023,591	\$517,089	\$815,335
3. Actuarial value of assets	5,414,010	960,744	48,721,263	2,701,976	937,129	453,982	860,774
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,813,635	\$42,747	\$10,574,650	(\$125)	\$86,462	\$63,107	(\$45,439)
5. Funded Ratio: (3) / (2)	74.9%	95.7%	82.2%	100.0%	91.6%	87.8%	105.6%
6. Annual Payroll	\$1,262,702	\$412,083	\$9,460,350	\$789,476	\$1,026,785	\$164,558	\$195,228
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	7.49%	1.47%	8.75%	3.02%	5.72%	6.92%	5.61%
Prior Service	11.01%	1.56%	9.23%	0.00%	0.55%	4.85%	-0.91%
Total Retirement	18.50%	3.03%	17.98%	3.02%	6.27%	11.77%	4.70%
Supplemental Death	0.28%	0.36%	0.46%	0.36%	0.21%	0.26%	0.93%
Total Rate	18.78%	3.39%	18.44%	3.38%	6.48%	12.03%	5.63%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	18.54%	N/A	18.40%	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	7.50%	N/A	11.50%	13.50%	11.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	18.4 years	7.8 years	17.8 years	N/A	23.3 years	9.6 years	N/A
Number of annuitants	10	6	156	15	8	2	4
Number of active contributing members	23	11	177	21	23	4	4
Number of inactive members	7	11	101	17	29	3	1
Average age of contributing members	44.9 years	42.5 years	41.5 years	49.3 years	40.4 years	48.1 years	54.3 years
Average length of service of contributing members	9.9 years	3.9 years	7.5 years	9.5 years	3.8 years	14.1 years	13.0 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Blue Mound	Blue Ridge	Boerne	Bogata	Bonham	Booker	Borger
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$407,983	\$56,148	\$51,808,980	\$178,184	\$9,968,858	\$715,017	\$26,303,435
b. Noncontributing Members	337,111	81,581	4,494,302	23,416	2,992,640	165,329	3,241,234
c. Annuitants	153,604	12,320	19,247,310	111,132	6,821,107	151,401	19,306,582
2. Total Actuarial Accrued Liability	\$898,698	\$150,049	\$75,550,592	\$312,732	\$19,782,605	\$1,031,747	\$48,851,251
3. Actuarial value of assets	886,199	202,876	57,737,668	384,317	17,603,909	1,020,505	43,348,791
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$12,499	(\$52,827)	\$17,812,924	(\$71,585)	\$2,178,696	\$11,242	\$5,502,460
5. Funded Ratio: (3) / (2)	98.6%	135.2%	76.4%	122.9%	89.0%	98.9%	88.7%
6. Annual Payroll	\$1,118,696	\$246,518	\$16,414,672	\$343,149	\$5,397,146	\$493,648	\$9,321,506
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.41%	2.84%	11.73%	1.43%	6.34%	5.54%	8.88%
Prior Service	0.07%	-0.83%	7.02%	-0.81%	2.97%	0.21%	4.27%
Total Retirement	4.48%	2.01%	18.75%	0.62%	9.31%	5.75%	13.15%
Supplemental Death	0.14%	0.36%	0.17%	0.21%	0.00%	0.29%	0.30%
Total Rate	4.62%	2.37%	18.92%	0.83%	9.31%	6.04%	13.45%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	7.50%	12.50%	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	23.8 years	N/A	23.9 years	N/A	19.5 years	14.9 years	20.1 years
Number of annuitants	6	1	86	4	55	2	87
Number of active contributing members	22	6	264	10	107	10	166
Number of inactive members	33	6	101	5	141	15	74
Average age of contributing members	39.9 years	45.6 years	43.9 years	42.2 years	43.6 years	51.0 years	42.1 years
Average length of service of contributing members	8.3 years	2.1 years	10.3 years	6.1 years	9.9 years	8.9 years	9.7 years

	Bovina	Bowie	Boyd	Brady	Brazoria	Breckenridge	Bremond
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$165,541	\$7,461,851	\$429,597	\$5,740,364	\$2,120,044	\$2,647,658	\$611,975
b. Noncontributing Members	58,028	2,179,443	314,478	2,104,234	802,866	575,278	172,250
c. Annuitants	174,622	7,541,126	410,257	3,639,526	1,859,735	5,320,623	19,993
2. Total Actuarial Accrued Liability	\$398,191	\$17,182,420	\$1,154,332	\$11,484,124	\$4,782,645	\$8,543,559	\$804,218
3. Actuarial value of assets	451,425	16,033,512	1,173,975	10,670,836	4,817,082	7,772,234	707,580
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$53,234)	\$1,148,908	(\$19,643)	\$813,288	(\$34,437)	\$771,325	\$96,638
5. Funded Ratio: (3) / (2)	113.4%	93.3%	101.7%	92.9%	100.7%	91.0%	88.0%
6. Annual Payroll	\$390,619	\$3,903,786	\$855,475	\$4,454,020	\$1,247,957	\$2,330,692	\$288,954
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.24%	7.20%	3.79%	8.39%	6.11%	4.70%	6.32%
Prior Service	-0.53%	2.28%	-0.09%	1.24%	-0.11%	2.26%	8.23%
Total Retirement	0.71%	9.48%	3.70%	9.63%	6.00%	6.96%	14.55%
Supplemental Death	0.44%	0.34%	0.00%	0.27%	0.31%	0.38%	0.56%
Total Rate	1.15%	9.82%	3.70%	9.90%	6.31%	7.34%	15.11%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	7.50%	11.50%	11.50%	12.50%	11.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	19.9 years	N/A	22.0 years	N/A	24.0 years	4.5 years
Number of annuitants	5	69	7	58	18	48	1
Number of active contributing members	10	82	17	97	28	65	7
Number of inactive members	17	71	25	111	19	52	13
Average age of contributing members	42.8 years	44.1 years	38.2 years	44.8 years	41.0 years	43.7 years	50.0 years
Average length of service of contributing members	5.7 years	9.6 years	7.6 years	7.8 years	7.6 years	8.2 years	15.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Brenham	Bridge City	Bridgeport	Bronte	Brookshire	Brownfield	Brownsboro
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$20,525,940	\$10,163,212	\$4,615,631	\$329,869	\$3,504,342	\$8,394,802	\$160,959
b. Noncontributing Members	5,674,570	1,431,208	2,897,417	13,795	1,549,712	707,970	34,213
c. Annuitants	24,611,111	9,933,286	6,236,564	144,608	1,412,840	10,035,225	232,156
2. Total Actuarial Accrued Liability	\$50,811,621	\$21,527,706	\$13,749,612	\$488,272	\$6,466,894	\$19,137,997	\$427,328
3. Actuarial value of assets	45,528,632	18,743,684	11,695,299	402,008	5,951,714	20,675,400	145,028
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$5,282,989	\$2,784,022	\$2,054,313	\$86,264	\$515,180	(\$1,537,403)	\$282,300
5. Funded Ratio: (3) / (2)	89.6%	87.1%	85.1%	82.3%	92.0%	108.0%	33.9%
6. Annual Payroll	\$11,771,926	\$3,628,348	\$3,140,860	\$135,186	\$1,889,127	\$4,060,367	\$303,774
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.91%	9.81%	9.02%	2.56%	7.05%	5.51%	1.64%
Prior Service	5.10%	4.95%	4.62%	10.17%	1.80%	-1.47%	9.18%
Total Retirement	10.01%	14.76%	13.64%	12.73%	8.85%	4.04%	10.82%
Supplemental Death	0.00%	0.29%	0.24%	0.23%	0.15%	0.00%	0.28%
Total Rate	10.01%	15.05%	13.88%	12.96%	9.00%	4.04%	11.10%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	12.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	10.9 years	24.0 years	24.0 years	7.5 years	23.1 years	N/A	13.0 years
Number of annuitants	143	51	48	1	12	48	1
Number of active contributing members	202	58	66	3	39	86	9
Number of inactive members	146	27	81	1	46	37	3
Average age of contributing members	41.1 years	46.8 years	39.6 years	58.2 years	43.6 years	44.4 years	47.0 years
Average length of service of contributing members	10.5 years	11.0 years	7.2 years	19.7 years	8.1 years	10.2 years	5.9 years

	Brownsville	Brownsville PUB	Brownwood	Brownwood Health Dept.	Brownwood Public Library	Bruceville-Eddy	Bryan
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$221,242,390	\$117,665,909	\$24,263,639	\$721,759	\$184,518	\$364,779	\$184,953,607
b. Noncontributing Members	13,255,337	9,836,823	4,416,642	146,843	3,888	339,801	32,012,286
c. Annuitants	160,300,951	69,384,852	26,066,361	771,503	162,533	472,094	149,856,440
2. Total Actuarial Accrued Liability	\$394,798,678	\$196,887,584	\$54,746,642	\$1,640,105	\$350,939	\$1,176,674	\$366,822,333
3. Actuarial value of assets	350,512,970	166,091,082	48,216,577	1,431,132	379,345	1,257,111	312,632,529
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$44,285,708	\$30,796,502	\$6,530,065	\$208,973	(\$28,406)	(\$80,437)	\$54,189,804
5. Funded Ratio: (3) / (2)	88.8%	84.4%	88.1%	87.3%	108.1%	106.8%	85.2%
6. Annual Payroll	\$63,064,448	\$31,306,553	\$10,496,593	\$464,766	\$183,372	\$597,866	\$62,743,020
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	10.77%	10.25%	8.49%	7.87%	5.25%	5.62%	9.05%
Prior Service	6.23%	7.32%	4.62%	3.80%	-0.60%	-0.52%	6.33%
Total Retirement	17.00%	17.57%	13.11%	11.67%	4.65%	5.10%	15.38%
Supplemental Death	0.24%	0.27%	0.00%	0.00%	0.00%	0.30%	0.00%
Total Rate	17.24%	17.84%	13.11%	11.67%	4.65%	5.40%	15.38%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	11.53%	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	11.50%	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	15.0 years	19.2 years	19.3 years	16.1 years	N/A	N/A	19.7 years
Number of annuitants	614	283	146	12	3	8	630
Number of active contributing members	1,102	579	228	12	10	15	889
Number of inactive members	313	121	90	2	3	17	482
Average age of contributing members	43.9 years	43.6 years	43.3 years	46.4 years	58.8 years	40.3 years	42.0 years
Average length of service of contributing members	12.0 years	12.3 years	8.6 years	10.1 years	7.3 years	5.4 years	11.4 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Bryson	Buda	Buffalo	Bullard	Bulverde	Bunker Hill Village	Burkburnett
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$83,619	\$9,066,387	\$931,010	\$2,136,653	\$1,062,019	\$2,093,817	\$6,046,194
b. Noncontributing Members	45,907	1,745,873	168,315	270,625	888,090	276,672	2,287,578
c. Annuitants	343,784	2,114,806	442,421	210,055	1,083,964	1,147,316	6,998,291
2. Total Actuarial Accrued Liability	\$473,310	\$12,927,066	\$1,541,746	\$2,617,333	\$3,034,073	\$3,517,805	\$15,332,063
3. Actuarial value of assets	625,958	10,955,609	1,574,743	1,972,478	2,841,510	3,446,972	13,742,657
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$152,648)	\$1,971,457	(\$32,997)	\$644,855	\$192,563	\$70,833	\$1,589,406
5. Funded Ratio: (3) / (2)	132.3%	84.7%	102.1%	75.4%	93.7%	98.0%	89.6%
6. Annual Payroll	\$94,440	\$6,349,524	\$731,289	\$1,236,705	\$1,639,158	\$689,736	\$3,236,436
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.35%	11.78%	4.41%	7.10%	8.45%	9.53%	6.79%
Prior Service	-6.29%	1.98%	-0.18%	3.42%	0.81%	1.19%	3.41%
Total Retirement	0.06%	13.76%	4.23%	10.52%	9.26%	10.72%	10.20%
Supplemental Death	0.00%	0.14%	0.42%	0.18%	0.11%	0.24%	0.41%
Total Rate	0.06%	13.90%	4.65%	10.70%	9.37%	10.96%	10.61%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	N/A	11.50%	12.50%	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	24.4 years	N/A	23.4 years	21.4 years	10.8 years	21.3 years
Number of annuitants	1	17	7	5	12	5	56
Number of active contributing members	3	113	20	26	27	8	74
Number of inactive members	3	64	11	16	31	5	38
Average age of contributing members	51.0 years	42.5 years	51.1 years	44.8 years	42.3 years	51.1 years	44.4 years
Average length of service of contributing members	6.5 years	6.7 years	7.8 years	11.4 years	7.9 years	17.5 years	8.3 years

	Burleson	Burnet	Cactus	Caddo Mills	Caldwell	Calvert	Cameron
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$62,638,569	\$11,794,784	\$1,165,932	\$387,201	\$5,743,907	\$162,602	\$2,363,965
b. Noncontributing Members	11,662,547	2,473,348	289,835	109,587	646,518	58,543	518,118
c. Annuitants	37,387,074	12,812,341	520,594	149,073	5,152,670	93,391	3,146,416
2. Total Actuarial Accrued Liability	\$111,688,190	\$27,080,473	\$1,976,361	\$645,861	\$11,543,095	\$314,536	\$6,028,499
3. Actuarial value of assets	91,860,842	23,444,051	1,925,250	617,898	11,187,819	392,965	4,787,002
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$19,827,348	\$3,636,422	\$51,111	\$27,963	\$355,276	(\$78,429)	\$1,241,497
5. Funded Ratio: (3) / (2)	82.2%	86.6%	97.4%	95.7%	96.9%	124.9%	79.4%
6. Annual Payroll	\$24,796,197	\$6,630,670	\$2,078,755	\$628,671	\$2,279,619	\$466,137	\$1,844,755
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	10.87%	9.31%	4.87%	5.15%	5.75%	2.05%	5.37%
Prior Service	5.16%	3.53%	0.16%	0.39%	1.47%	-0.65%	4.89%
Total Retirement	16.03%	12.84%	5.03%	5.54%	7.22%	1.40%	10.26%
Supplemental Death	0.13%	0.18%	0.22%	0.14%	0.45%	0.35%	0.32%
Total Rate	16.16%	13.02%	5.25%	5.68%	7.67%	1.75%	10.58%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	16.12%	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	13.50%	13.50%	N/A	11.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	24.0 years	24.1 years	24.5 years	15.2 years	14.0 years	N/A	20.4 years
Number of annuitants	147	69	9	3	31	5	37
Number of active contributing members	347	119	41	15	54	10	43
Number of inactive members	169	65	55	11	35	19	40
Average age of contributing members	42.2 years	39.9 years	37.7 years	42.7 years	52.1 years	48.9 years	46.5 years
Average length of service of contributing members	10.9 years	8.7 years	4.3 years	4.1 years	13.2 years	5.6 years	9.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Campbell	Canadian	Caney City	Canton	Canyon	Carmine	Carrizo Springs
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$176,823	\$2,275,601	\$14,991	\$6,545,381	\$15,324,146	\$134,944	\$1,435,285
b. Noncontributing Members	0	797,422	10,793	1,826,892	3,394,454	0	277,923
c. Annuitants	0	2,278,408	0	3,700,456	14,647,280	3,536	3,164,442
2. Total Actuarial Accrued Liability	\$176,823	\$5,351,431	\$25,784	\$12,072,729	\$33,365,880	\$138,480	\$4,877,650
3. Actuarial value of assets	83,886	3,985,837	37,744	10,496,036	30,539,364	182,140	4,791,602
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$92,937	\$1,365,594	(\$11,960)	\$1,576,693	\$2,826,516	(\$43,660)	\$86,048
5. Funded Ratio: (3) / (2)	47.4%	74.5%	146.4%	86.9%	91.5%	131.5%	98.2%
6. Annual Payroll	\$63,576	\$1,062,856	\$146,245	\$3,077,797	\$5,892,031	\$65,387	\$1,644,188
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.50%	9.73%	2.94%	8.22%	10.04%	2.81%	4.70%
Prior Service	39.59%	8.27%	-0.32%	3.56%	3.81%	-2.60%	0.33%
Total Retirement	41.09%	18.00%	2.62%	11.78%	13.85%	0.21%	5.03%
Supplemental Death	0.17%	0.24%	0.14%	0.24%	0.21%	0.05%	0.40%
Total Rate	41.26%	18.24%	2.76%	12.02%	14.06%	0.26%	5.43%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	18.04%	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	N/A	7.50%	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	4.0 years	24.1 years	N/A	21.3 years	17.5 years	N/A	24.6 years
Number of annuitants	0	10	0	34	47	2	24
Number of active contributing members	2	20	2	70	96	2	49
Number of inactive members	0	8	6	50	40	0	40
Average age of contributing members	59.5 years	44.0 years	57.4 years	46.8 years	43.7 years	41.9 years	47.3 years
Average length of service of contributing members	22.2 years	9.4 years	1.7 years	9.1 years	10.7 years	16.0 years	7.3 years

	Carrollton	Carthage	Castle Hills	Castroville	Cedar Hill	Cedar Park	Celeste
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$167,024,317	\$12,656,365	\$5,970,845	\$1,048,561	\$63,084,612	\$77,131,409	\$38,734
b. Noncontributing Members	60,667,998	1,830,275	1,502,519	1,599,153	11,112,803	11,417,752	51,214
c. Annuitants	221,735,675	18,880,708	12,085,811	3,371,650	42,123,819	21,983,443	11,533
2. Total Actuarial Accrued Liability	\$449,427,990	\$33,367,348	\$19,559,175	\$6,019,364	\$116,321,234	\$110,532,604	\$101,481
3. Actuarial value of assets	429,681,970	28,776,311	17,399,987	5,566,246	101,902,410	87,040,296	81,217
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$19,746,020	\$4,591,037	\$2,159,188	\$453,118	\$14,418,824	\$23,492,308	\$20,264
5. Funded Ratio: (3) / (2)	95.6%	86.2%	89.0%	92.5%	87.6%	78.7%	80.0%
6. Annual Payroll	\$60,008,765	\$4,181,582	\$3,515,930	\$1,879,554	\$23,524,596	\$33,459,309	\$101,952
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	8.43%	9.20%	8.43%	6.99%	9.88%	9.75%	2.85%
Prior Service	3.41%	9.42%	4.40%	1.55%	4.21%	4.74%	2.45%
Total Retirement	11.84%	18.62%	12.83%	8.54%	14.09%	14.49%	5.30%
Supplemental Death	0.00%	0.34%	0.26%	0.43%	0.16%	0.12%	0.37%
Total Rate	11.84%	18.96%	13.09%	8.97%	14.25%	14.61%	5.67%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	18.88%	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	11.50%	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	12.3 years	16.3 years	20.4 years	24.1 years	21.7 years	22.3 years	9.9 years
Number of annuitants	697	59	55	36	183	144	1
Number of active contributing members	817	73	60	41	342	482	4
Number of inactive members	657	42	47	69	179	261	9
Average age of contributing members	41.5 years	45.6 years	40.8 years	47.7 years	41.7 years	41.4 years	63.0 years
Average length of service of contributing members	11.1 years	11.5 years	10.5 years	5.7 years	11.5 years	10.4 years	4.5 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Celina	Center	Centerville	Chandler	Charlotte	Chester	Chico
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$5,850,427	\$8,056,510	\$877,456	\$473,930	\$365,506	\$326,667	\$134,126
b. Noncontributing Members	1,879,627	530,958	59,739	95,730	106,305	220,071	120,069
c. Annuitants	1,230,010	5,612,293	125,573	622,020	71,565	0	182,170
2. Total Actuarial Accrued Liability	\$8,960,064	\$14,199,761	\$1,062,768	\$1,191,680	\$543,376	\$546,738	\$436,365
3. Actuarial value of assets	9,042,722	13,116,967	927,486	885,815	694,019	600,582	419,363
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$82,658)	\$1,082,794	\$135,282	\$305,865	(\$150,643)	(\$53,844)	\$17,002
5. Funded Ratio: (3) / (2)	100.9%	92.4%	87.3%	74.3%	127.7%	109.8%	96.1%
6. Annual Payroll	\$10,327,566	\$3,292,994	\$230,184	\$1,162,451	\$351,122	\$36,311	\$253,883
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.30%	9.71%	6.56%	3.51%	4.56%	5.97%	2.32%
Prior Service	-0.03%	2.36%	13.71%	2.62%	-1.67%	-5.77%	0.92%
Total Retirement	6.27%	12.07%	20.27%	6.13%	2.89%	0.20%	3.24%
Supplemental Death	0.11%	0.23%	0.00%	0.24%	0.15%	0.65%	0.83%
Total Rate	6.38%	12.30%	20.27%	6.37%	3.04%	0.85%	4.07%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	N/A	N/A	N/A	9.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	20.3 years	4.8 years	12.9 years	N/A	N/A	8.8 years
Number of annuitants	17	43	1	9	1	0	4
Number of active contributing members	159	73	5	26	9	2	6
Number of inactive members	96	19	3	9	9	2	5
Average age of contributing members	39.6 years	42.3 years	58.6 years	51.0 years	46.8 years	72.8 years	56.0 years
Average length of service of contributing members	7.7 years	9.6 years	16.7 years	6.8 years	6.0 years	30.1 years	8.8 years

	Childress	Chillicothe	Chireno	Christine	Cibolo	Cisco	Clarendon
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$4,063,694	\$145,397	\$1,003,811	\$26,920	\$11,543,283	\$1,889,301	\$627,283
b. Noncontributing Members	563,373	82,530	0	102	1,823,668	304,274	103,933
c. Annuitants	5,439,297	0	999,969	15,710	3,382,007	1,736,893	152,436
2. Total Actuarial Accrued Liability	\$10,066,364	\$227,927	\$2,003,780	\$42,732	\$16,748,958	\$3,930,468	\$883,652
3. Actuarial value of assets	7,851,384	149,852	1,527,537	52,370	14,490,139	3,914,962	1,022,487
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$2,214,980	\$78,075	\$476,243	(\$9,638)	\$2,258,819	\$15,506	(\$138,835)
5. Funded Ratio: (3) / (2)	78.0%	65.7%	76.2%	122.6%	86.5%	99.6%	115.7%
6. Annual Payroll	\$2,064,240	\$243,875	\$289,623	\$35,490	\$7,466,076	\$1,447,808	\$543,080
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	9.09%	2.03%	10.08%	0.76%	10.53%	6.27%	2.42%
Prior Service	6.93%	5.28%	12.19%	-0.76%	1.97%	0.07%	-1.00%
Total Retirement	16.02%	7.31%	22.27%	0.00%	12.50%	6.34%	1.42%
Supplemental Death	0.39%	0.15%	0.53%	0.00%	0.12%	0.13%	0.51%
Total Rate	16.41%	7.46%	22.80%	0.00%	12.62%	6.47%	1.93%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	22.66%	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	13.50%	11.50%	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	23.9 years	7.0 years	19.3 years	N/A	23.7 years	23.0 years	N/A
Number of annuitants	41	0	4	2	38	19	7
Number of active contributing members	56	6	6	1	138	37	17
Number of inactive members	48	2	0	1	89	31	19
Average age of contributing members	45.5 years	52.6 years	46.7 years	36.9 years	41.3 years	39.3 years	54.3 years
Average length of service of contributing members	7.1 years	7.0 years	13.5 years	10.3 years	9.2 years	8.4 years	10.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Clarksville	Clarksville City	Clear Lake Shores	Cleburne	Cleveland	Clifton	Clute
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$571,772	\$117,774	\$1,073,734	\$31,324,939	\$6,641,924	\$1,501,164	\$7,656,696
b. Noncontributing Members	642,844	35,842	290,976	8,480,343	1,925,888	428,076	4,080,027
c. Annuitants	1,649,816	1,113,815	1,038,666	56,103,869	4,787,613	572,882	11,656,607
2. Total Actuarial Accrued Liability	\$2,864,432	\$1,267,431	\$2,403,376	\$95,909,151	\$13,355,425	\$2,502,122	\$23,393,330
3. Actuarial value of assets	3,601,723	1,350,672	2,125,792	78,663,975	11,313,154	2,596,718	22,849,819
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$737,291)	(\$83,241)	\$277,584	\$17,245,176	\$2,042,271	(\$94,596)	\$543,511
5. Funded Ratio: (3) / (2)	125.7%	106.6%	88.5%	82.0%	84.7%	103.8%	97.7%
6. Annual Payroll	\$894,031	\$200,699	\$1,102,562	\$15,903,734	\$3,784,693	\$1,165,945	\$5,130,334
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.91%	5.50%	9.06%	7.92%	6.58%	2.09%	9.82%
Prior Service	-3.21%	-1.61%	1.71%	8.15%	3.92%	-0.32%	0.70%
Total Retirement	3.70%	3.89%	10.77%	16.07%	10.50%	1.77%	10.52%
Supplemental Death	0.28%	0.47%	0.13%	0.31%	0.31%	0.39%	0.19%
Total Rate	3.98%	4.36%	10.90%	16.38%	10.81%	2.16%	10.71%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	2.58%	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	11.50%	N/A	12.50%	N/A	11.50%	7.50%	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	N/A	22.2 years	19.4 years	20.5 years	N/A	24.5 years
Number of annuitants	20	7	5	223	47	14	62
Number of active contributing members	25	4	17	291	86	25	93
Number of inactive members	50	3	16	207	80	22	96
Average age of contributing members	45.9 years	38.8 years	43.7 years	43.1 years	40.9 years	52.0 years	41.1 years
Average length of service of contributing members	6.7 years	4.3 years	8.8 years	8.9 years	8.8 years	11.9 years	7.0 years

	Clyde	Coahoma	Cockrell Hill	Coleman	College Station	Colleyville	Collinsville
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$2,339,924	\$429,681	\$2,801,328	\$7,077,555	\$139,706,932	\$29,406,802	\$275,371
b. Noncontributing Members	628,441	147,817	1,193,831	2,042,111	33,657,309	8,171,897	2,116
c. Annuitants	1,815,932	307,271	1,111,267	7,286,320	143,783,314	26,931,551	233,230
2. Total Actuarial Accrued Liability	\$4,784,297	\$884,769	\$5,106,426	\$16,405,986	\$317,147,555	\$64,510,250	\$510,717
3. Actuarial value of assets	4,125,058	892,544	5,332,539	14,300,863	278,638,676	62,825,823	497,956
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$659,239	(\$7,775)	(\$226,113)	\$2,105,123	\$38,508,879	\$1,684,427	\$12,761
5. Funded Ratio: (3) / (2)	86.2%	100.9%	104.4%	87.2%	87.9%	97.4%	97.5%
6. Annual Payroll	\$1,364,586	\$262,374	\$1,515,554	\$2,712,604	\$60,709,367	\$13,813,709	\$393,797
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	9.95%	6.60%	9.70%	9.63%	8.57%	8.55%	5.02%
Prior Service	3.11%	-0.12%	-0.58%	7.29%	4.73%	0.84%	0.33%
Total Retirement	13.06%	6.48%	9.12%	16.92%	13.30%	9.39%	5.35%
Supplemental Death	0.34%	0.40%	0.22%	0.00%	0.00%	0.18%	0.28%
Total Rate	13.40%	6.88%	9.34%	16.92%	13.30%	9.57%	5.63%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	11.50%	13.50%	N/A	N/A	13.50%	12.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	24.1 years	N/A	N/A	14.2 years	19.2 years	21.6 years	12.6 years
Number of annuitants	16	4	14	57	498	148	5
Number of active contributing members	33	5	32	56	922	187	8
Number of inactive members	29	3	37	40	603	147	2
Average age of contributing members	46.3 years	53.9 years	43.7 years	46.7 years	39.8 years	41.6 years	47.7 years
Average length of service of contributing members	9.9 years	10.9 years	10.6 years	11.9 years	9.8 years	11.3 years	10.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM  
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	Colmesneil	Colorado City	Columbus	Comanche	Combes	Commerce	Conroe
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$224,279	\$2,598,060	\$4,309,415	\$1,640,061	\$310,188	\$3,590,619	\$83,047,104
b. Noncontributing Members	622	1,120,699	1,193,152	356,664	317,252	2,921,836	12,491,808
c. Annuitants	88,501	2,510,228	3,791,348	1,480,417	0	5,721,770	57,710,354
2. Total Actuarial Accrued Liability	\$313,402	\$6,228,987	\$9,293,915	\$3,477,142	\$627,440	\$12,234,225	\$153,249,266
3. Actuarial value of assets	275,762	6,373,486	8,319,582	3,198,810	178,772	11,665,446	128,597,057
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$37,640	(\$144,499)	\$974,333	\$278,332	\$448,668	\$568,779	\$24,652,209
5. Funded Ratio: (3) / (2)	88.0%	102.3%	89.5%	92.0%	28.5%	95.4%	83.9%
6. Annual Payroll	\$155,545	\$1,696,805	\$1,907,681	\$1,194,892	\$598,935	\$2,907,382	\$31,275,974
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	3.73%	7.96%	7.64%	3.10%	1.46%	6.49%	10.02%
Prior Service	5.53%	-0.33%	4.33%	1.74%	5.26%	1.41%	6.28%
Total Retirement	9.26%	7.63%	11.97%	4.84%	6.72%	7.90%	16.30%
Supplemental Death	0.08%	0.67%	0.34%	0.44%	0.00%	0.39%	0.00%
Total Rate	9.34%	8.30%	12.31%	5.28%	6.72%	8.29%	16.30%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	12.50%	N/A	7.50%	N/A	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	4.9 years	N/A	16.0 years	20.3 years	21.0 years	21.5 years	17.4 years
Number of annuitants	1	32	33	22	0	66	191
Number of active contributing members	4	43	37	30	17	74	474
Number of inactive members	1	45	24	12	10	108	189
Average age of contributing members	39.8 years	47.7 years	45.0 years	44.6 years	41.1 years	39.0 years	41.1 years
Average length of service of contributing members	8.5 years	7.7 years	11.0 years	9.5 years	6.1 years	6.4 years	9.6 years

	Converse	Cooper	Coppell	Copper Canyon	Copperas Cove	Corinth	Corpus Christi
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$15,855,366	\$622,948	\$90,780,848	\$343,220	\$23,745,291	\$24,644,095	\$378,987,723
b. Noncontributing Members	4,900,080	49,087	17,999,037	49,061	8,836,285	7,828,687	49,379,446
c. Annuitants	12,661,166	928,866	68,755,039	133,064	34,334,015	13,061,557	487,330,502
2. Total Actuarial Accrued Liability	\$33,416,612	\$1,600,901	\$177,534,924	\$525,345	\$66,915,591	\$45,534,339	\$915,697,671
3. Actuarial value of assets	27,676,525	1,488,725	155,740,223	500,457	58,874,594	38,905,736	768,661,048
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$5,740,087	\$112,176	\$21,794,701	\$24,888	\$8,040,997	\$6,628,603	\$147,036,623
5. Funded Ratio: (3) / (2)	82.8%	93.0%	87.7%	95.3%	88.0%	85.4%	83.9%
6. Annual Payroll	\$8,624,117	\$457,691	\$31,336,362	\$197,409	\$12,569,008	\$11,022,201	\$138,572,315
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	9.73%	3.21%	11.24%	9.44%	8.29%	11.52%	8.61%
Prior Service	4.28%	2.20%	4.91%	2.86%	4.28%	3.93%	9.34%
Total Retirement	14.01%	5.41%	16.15%	12.30%	12.57%	15.45%	17.95%
Supplemental Death	0.15%	0.30%	0.15%	0.29%	0.30%	0.15%	0.00%
Total Rate	14.16%	5.71%	16.30%	12.59%	12.87%	15.60%	17.95%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	12.51%	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	8.50%	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	24.1 years	14.8 years	20.8 years	4.9 years	24.1 years	23.9 years	15.7 years
Number of annuitants	65	8	253	4	239	86	2,324
Number of active contributing members	173	13	395	3	266	163	2,455
Number of inactive members	154	6	229	2	248	139	1,297
Average age of contributing members	39.2 years	49.5 years	42.5 years	57.1 years	41.6 years	42.0 years	44.6 years
Average length of service of contributing members	7.8 years	10.8 years	11.5 years	14.5 years	10.9 years	11.9 years	10.5 years



**TEXAS MUNICIPAL RETIREMENT SYSTEM  
ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Corrigan	Corsicana	Cotulla	Crandall	Crane	Crawford	Crockett
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$600,791	\$26,785,093	\$1,947,900	\$2,058,105	\$2,866,120	\$108,642	\$3,092,476
b. Noncontributing Members	208,926	5,169,908	60,083	774,810	276,979	3,940	732,391
c. Annuitants	860,413	28,167,723	669,956	1,302,633	3,402,859	59,442	7,333,521
2. Total Actuarial Accrued Liability	\$1,670,130	\$60,122,724	\$2,677,939	\$4,135,548	\$6,545,958	\$172,024	\$11,158,388
3. Actuarial value of assets	1,693,838	52,579,096	2,233,979	4,198,935	7,020,838	183,632	10,526,212
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$23,708)	\$7,543,628	\$443,960	(\$63,387)	(\$474,880)	(\$11,608)	\$632,176
5. Funded Ratio: (3) / (2)	101.4%	87.5%	83.4%	101.5%	107.3%	106.7%	94.3%
6. Annual Payroll	\$1,060,541	\$9,620,670	\$1,616,898	\$1,618,568	\$1,411,374	\$205,883	\$2,298,712
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	3.52%	7.74%	4.61%	11.19%	9.43%	1.20%	6.44%
Prior Service	-0.09%	7.03%	1.84%	-0.15%	-1.31%	-0.22%	2.16%
Total Retirement	3.43%	14.77%	6.45%	11.04%	8.12%	0.98%	8.60%
Supplemental Death	0.29%	0.35%	0.32%	0.18%	0.31%	0.00%	0.47%
Total Rate	3.72%	15.12%	6.77%	11.22%	8.43%	0.98%	9.07%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	11.50%	N/A	11.50%	13.50%	15.50%	7.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	16.0 years	22.6 years	N/A	N/A	N/A	20.0 years
Number of annuitants	14	160	17	15	16	1	63
Number of active contributing members	30	167	42	29	24	6	56
Number of inactive members	48	89	39	36	6	2	50
Average age of contributing members	40.1 years	44.4 years	48.5 years	41.4 years	47.2 years	38.3 years	42.2 years
Average length of service of contributing members	4.8 years	12.0 years	6.4 years	7.8 years	10.3 years	7.4 years	7.4 years

	Crosbyton	Cross Plains	Cross Roads	Crowell	Crowley	Crystal City	Cuero
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$448,350	\$715,283	\$383,002	\$51,985	\$12,260,736	\$1,316,385	\$8,449,869
b. Noncontributing Members	208,104	327,940	32,973	206	2,544,187	812,704	1,499,255
c. Annuitants	722,767	319,748	32,542	46,339	7,528,025	1,395,750	6,394,654
2. Total Actuarial Accrued Liability	\$1,379,221	\$1,362,971	\$448,517	\$98,530	\$22,332,948	\$3,524,839	\$16,343,778
3. Actuarial value of assets	1,522,536	1,307,198	399,219	23,765	19,169,491	4,279,488	13,593,307
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$143,315)	\$55,773	\$49,298	\$74,765	\$3,163,457	(\$754,649)	\$2,750,471
5. Funded Ratio: (3) / (2)	110.4%	95.9%	89.0%	24.1%	85.8%	121.4%	83.2%
6. Annual Payroll	\$361,164	\$395,273	\$817,200	\$173,907	\$6,550,603	\$1,491,603	\$4,877,878
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	5.69%	5.28%	6.88%	1.37%	8.24%	3.87%	7.03%
Prior Service	-1.54%	1.87%	0.58%	4.53%	3.09%	-1.97%	3.63%
Total Retirement	4.15%	7.15%	7.46%	5.90%	11.33%	1.90%	10.66%
Supplemental Death	1.62%	0.21%	0.07%	0.10%	0.14%	0.00%	0.30%
Total Rate	5.77%	7.36%	7.53%	6.00%	11.47%	1.90%	10.96%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	1.40%	N/A
Statutory Maximum Rate (Total Retirement Only)	10.50%	9.50%	N/A	N/A	12.50%	13.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	9.0 years	13.4 years	12.0 years	24.3 years	N/A	24.1 years
Number of annuitants	11	3	1	1	59	21	59
Number of active contributing members	9	8	11	7	114	52	85
Number of inactive members	16	6	2	2	93	88	41
Average age of contributing members	51.3 years	47.0 years	40.8 years	40.8 years	42.3 years	42.0 years	46.3 years
Average length of service of contributing members	7.6 years	10.2 years	10.8 years	3.4 years	10.3 years	5.4 years	11.6 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Cumby	Daingerfield	Daisetta	Dalhart	Dalworthington Gardens	Danbury	Darrouzett
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$63,900	\$1,010,544	\$99,335	\$3,718,193	\$2,899,211	\$204,920	\$33,599
b. Noncontributing Members	92,230	531,934	134,846	656,352	1,467,572	90,446	64,032
c. Annuitants	156,443	1,177,514	30,170	4,452,492	4,854,670	251,848	157,845
2. Total Actuarial Accrued Liability	\$312,573	\$2,719,992	\$264,351	\$8,827,037	\$9,221,453	\$547,214	\$255,476
3. Actuarial value of assets	285,395	2,732,196	312,755	8,739,025	6,906,529	500,327	248,186
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$27,178	(\$12,204)	(\$48,404)	\$88,012	\$2,314,924	\$46,887	\$7,290
5. Funded Ratio: (3) / (2)	91.3%	100.4%	118.3%	99.0%	74.9%	91.4%	97.1%
6. Annual Payroll	\$424,625	\$788,528	\$180,970	\$2,981,318	\$1,653,786	\$400,018	\$84,639
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.14%	5.71%	1.92%	4.80%	12.34%	4.86%	3.93%
Prior Service	0.53%	-0.06%	-1.04%	0.19%	10.88%	1.18%	1.41%
Total Retirement	1.67%	5.65%	0.88%	4.99%	23.22%	6.04%	5.34%
Supplemental Death	0.11%	0.00%	0.46%	0.27%	0.15%	0.19%	0.32%
Total Rate	1.78%	5.65%	1.34%	5.26%	23.37%	6.23%	5.66%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	22.79%	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	9.50%	N/A	11.50%	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	16.5 years	N/A	N/A	24.3 years	19.3 years	12.7 years	7.1 years
Number of annuitants	5	15	2	35	15	2	1
Number of active contributing members	10	18	6	66	26	7	3
Number of inactive members	19	13	12	75	25	9	3
Average age of contributing members	33.4 years	45.3 years	51.5 years	42.1 years	44.1 years	49.1 years	61.7 years
Average length of service of contributing members	1.9 years	8.9 years	5.8 years	8.0 years	13.4 years	5.9 years	3.0 years

	Dayton	De Leon	DeSoto	Decatur	Deer Park	Dekalb	Del Rio
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,691,163	\$142,999	\$50,597,550	\$18,198,252	\$69,774,173	\$465,647	\$23,844,089
b. Noncontributing Members	1,871,045	213,681	18,624,268	4,133,323	6,388,183	146,222	2,389,367
c. Annuitants	3,796,305	270,656	59,677,754	5,971,582	64,264,395	293,185	10,662,848
2. Total Actuarial Accrued Liability	\$9,358,513	\$627,336	\$128,899,572	\$28,303,157	\$140,426,751	\$905,054	\$36,896,304
3. Actuarial value of assets	8,576,913	615,281	122,399,381	24,924,091	130,519,266	997,414	27,535,640
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$781,600	\$12,055	\$6,500,191	\$3,379,066	\$9,907,485	(\$92,360)	\$9,360,664
5. Funded Ratio: (3) / (2)	91.6%	98.1%	95.0%	88.1%	92.9%	110.2%	74.6%
6. Annual Payroll	\$5,206,981	\$464,588	\$24,726,493	\$6,437,649	\$21,385,931	\$565,193	\$20,197,392
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	5.62%	1.84%	9.30%	10.46%	10.39%	3.62%	3.41%
Prior Service	0.96%	0.22%	1.76%	3.38%	3.19%	-0.64%	3.79%
Total Retirement	6.58%	2.06%	11.06%	13.84%	13.58%	2.98%	7.20%
Supplemental Death	0.18%	0.42%	0.21%	0.25%	0.22%	0.23%	0.23%
Total Rate	6.76%	2.48%	11.27%	14.09%	13.80%	3.21%	7.43%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	3.16%	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	7.50%	N/A	N/A	N/A	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	24.3 years	16.7 years	22.6 years	24.1 years	21.7 years	N/A	16.8 years
Number of annuitants	50	6	262	51	204	11	132
Number of active contributing members	106	13	343	116	311	16	492
Number of inactive members	96	16	268	91	150	9	229
Average age of contributing members	40.9 years	45.3 years	42.6 years	45.8 years	41.3 years	48.5 years	43.4 years
Average length of service of contributing members	6.2 years	7.8 years	10.3 years	12.6 years	12.0 years	8.0 years	9.1 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Dell City	Denison	Denton	Denver City	Deport	Devine	Diboll
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$192,514	\$24,386,188	\$252,989,347	\$2,956,844	\$13,256	\$5,287,201	\$3,255,769
b. Noncontributing Members	2,388	5,766,892	57,416,582	818,524	1,639	246,771	2,000,279
c. Annuitants	195,452	38,933,813	219,821,592	6,120,823	69,200	1,567,829	6,310,375
2. Total Actuarial Accrued Liability	\$390,354	\$69,086,893	\$530,227,521	\$9,896,191	\$84,095	\$7,101,801	\$11,566,423
3. Actuarial value of assets	366,834	64,086,155	448,451,879	9,580,173	79,476	4,172,542	10,341,451
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$23,520	\$5,000,738	\$81,775,642	\$316,018	\$4,619	\$2,929,259	\$1,224,972
5. Funded Ratio: (3) / (2)	94.0%	92.8%	84.6%	96.8%	94.5%	58.8%	89.4%
6. Annual Payroll	\$47,811	\$12,328,928	\$97,498,129	\$1,445,316	\$109,352	\$2,140,932	\$1,720,782
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.75%	7.99%	10.37%	6.74%	1.57%	6.11%	10.31%
Prior Service	8.07%	3.65%	7.24%	3.39%	0.78%	10.06%	5.05%
Total Retirement	12.82%	11.64%	17.61%	10.13%	2.35%	16.17%	15.36%
Supplemental Death	0.78%	0.00%	0.18%	0.30%	0.21%	0.21%	0.31%
Total Rate	13.60%	11.64%	17.79%	10.43%	2.56%	16.38%	15.67%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	15.56%
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	7.1 years	14.7 years	15.6 years	7.8 years	6.2 years	19.6 years	23.9 years
Number of annuitants	1	176	703	22	1	15	43
Number of active contributing members	1	237	1,322	31	3	45	38
Number of inactive members	1	143	649	33	2	15	41
Average age of contributing members	46.5 years	42.8 years	42.7 years	45.0 years	42.2 years	43.4 years	42.5 years
Average length of service of contributing members	25.3 years	8.7 years	10.8 years	8.0 years	1.9 years	9.9 years	8.7 years

	Dickens	Dickinson	Dilley	Dimmitt	Donna	Double Oak	Dripping Springs
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$35,729	\$11,337,774	\$1,645,610	\$1,380,006	\$7,652,375	\$674,005	\$753,019
b. Noncontributing Members	32,612	3,617,010	150,032	453,614	1,101,171	155,755	197,497
c. Annuitants	0	5,672,609	1,101,263	2,788,153	3,023,453	143,764	56,440
2. Total Actuarial Accrued Liability	\$68,341	\$20,627,393	\$2,896,905	\$4,621,773	\$11,776,999	\$973,524	\$1,006,956
3. Actuarial value of assets	78,822	18,839,194	2,256,731	5,192,838	8,518,721	905,349	891,946
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$10,481)	\$1,788,199	\$640,174	(\$571,065)	\$3,258,278	\$68,175	\$115,010
5. Funded Ratio: (3) / (2)	115.3%	91.3%	77.9%	112.4%	72.3%	93.0%	88.6%
6. Annual Payroll	\$73,918	\$5,468,647	\$1,548,140	\$1,000,724	\$5,933,972	\$675,663	\$1,482,964
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	2.91%	7.61%	6.65%	7.51%	7.29%	7.02%	5.25%
Prior Service	-0.55%	2.16%	2.76%	-2.22%	3.82%	0.90%	0.63%
Total Retirement	2.36%	9.77%	9.41%	5.29%	11.11%	7.92%	5.88%
Supplemental Death	0.06%	0.18%	0.22%	0.00%	0.00%	0.29%	0.12%
Total Rate	2.42%	9.95%	9.63%	5.29%	11.11%	8.21%	6.00%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	4.52%	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	13.50%	12.50%	12.50%	13.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	23.1 years	22.8 years	N/A	21.3 years	14.9 years	16.8 years
Number of annuitants	0	39	23	22	33	4	1
Number of active contributing members	2	97	40	26	144	11	26
Number of inactive members	2	95	44	33	101	8	25
Average age of contributing members	48.0 years	43.9 years	42.2 years	48.4 years	42.8 years	47.8 years	43.8 years
Average length of service of contributing members	4.5 years	9.2 years	6.7 years	7.1 years	6.5 years	12.7 years	3.7 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Driscoll	Dublin	Dumas	Duncanville	Eagle Lake	Eagle Pass	Early
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$36,045	\$1,823,971	\$11,214,290	\$33,925,644	\$1,505,814	\$34,619,170	\$1,562,451
b. Noncontributing Members	71,590	743,850	3,418,649	12,839,263	603,259	4,407,173	222,056
c. Annuitants	<u>0</u>	<u>2,459,471</u>	<u>8,264,394</u>	<u>67,470,851</u>	<u>2,798,241</u>	<u>35,311,671</u>	<u>926,384</u>
2. Total Actuarial Accrued Liability	\$107,635	\$5,027,292	\$22,897,333	\$114,235,758	\$4,907,314	\$74,338,014	\$2,710,891
3. Actuarial value of assets	<u>110,937</u>	<u>4,185,612</u>	<u>18,505,860</u>	<u>111,412,478</u>	<u>4,671,823</u>	<u>70,924,019</u>	<u>2,762,599</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$3,302)	\$841,680	\$4,391,473	\$2,823,280	\$235,491	\$3,413,995	(\$51,708)
5. Funded Ratio: (3) / (2)	103.1%	83.3%	80.8%	97.5%	95.2%	95.4%	101.9%
6. Annual Payroll	\$188,891	\$1,767,801	\$5,925,353	\$18,131,265	\$1,189,599	\$17,811,676	\$1,299,076
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.97%	9.53%	8.14%	5.24%	8.23%	6.69%	3.74%
Prior Service	<u>-0.07%</u>	<u>3.06%</u>	<u>4.78%</u>	<u>1.88%</u>	<u>1.42%</u>	<u>1.94%</u>	<u>-0.15%</u>
Total Retirement	1.90%	12.59%	12.92%	7.12%	9.65%	8.63%	3.59%
Supplemental Death	<u>0.35%</u>	<u>0.24%</u>	<u>0.21%</u>	<u>0.00%</u>	<u>0.39%</u>	<u>0.28%</u>	<u>0.19%</u>
Total Rate	2.25%	12.83%	13.13%	7.12%	10.04%	8.91%	3.78%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	12.50%	11.50%	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	24.1 years	24.0 years	10.1 years	21.1 years	12.6 years	N/A
Number of annuitants	0	23	67	237	19	192	10
Number of active contributing members	5	48	114	263	26	415	30
Number of inactive members	14	57	82	197	33	196	16
Average age of contributing members	51.7 years	40.9 years	42.6 years	43.3 years	49.0 years	41.4 years	41.8 years
Average length of service of contributing members	2.8 years	4.7 years	9.5 years	10.1 years	7.8 years	9.2 years	7.4 years

	Earth	East Bernard	East Mountain	East Tawakoni	Eastland	Ector	Eden
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$78,897	\$69,644	\$19,838	\$251,828	\$2,108,837	\$217,397	\$310,544
b. Noncontributing Members	66,666	495	226,321	104,815	435,102	0	104,444
c. Annuitants	<u>129,152</u>	<u>26,807</u>	<u>130,724</u>	<u>390,074</u>	<u>2,629,656</u>	<u>16,302</u>	<u>902,583</u>
2. Total Actuarial Accrued Liability	\$274,715	\$96,946	\$376,883	\$746,717	\$5,173,595	\$233,699	\$1,317,571
3. Actuarial value of assets	<u>209,006</u>	<u>82,675</u>	<u>379,566</u>	<u>774,131</u>	<u>4,703,091</u>	<u>244,800</u>	<u>1,343,269</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$65,709	\$14,271	(\$2,683)	(\$27,414)	\$470,504	(\$11,101)	(\$25,698)
5. Funded Ratio: (3) / (2)	76.1%	85.3%	100.7%	103.7%	90.9%	104.8%	102.0%
6. Annual Payroll	\$144,001	\$156,392	\$40,900	\$339,462	\$1,898,141	\$180,384	\$255,175
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.99%	3.50%	14.59%	6.53%	7.29%	1.94%	3.69%
Prior Service	<u>4.43%</u>	<u>1.81%</u>	<u>-0.26%</u>	<u>-0.31%</u>	<u>1.71%</u>	<u>-0.24%</u>	<u>-0.39%</u>
Total Retirement	6.42%	5.31%	14.33%	6.22%	9.00%	1.70%	3.30%
Supplemental Death	<u>0.49%</u>	<u>0.17%</u>	<u>0.44%</u>	<u>0.33%</u>	<u>0.31%</u>	<u>0.25%</u>	<u>0.60%</u>
Total Rate	6.91%	5.48%	14.77%	6.55%	9.31%	1.95%	3.90%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	14.15%	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	11.50%	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	13.7 years	5.7 years	N/A	N/A	21.6 years	N/A	N/A
Number of annuitants	4	1	2	4	22	1	14
Number of active contributing members	7	5	1	10	40	4	7
Number of inactive members	7	1	7	4	45	0	7
Average age of contributing members	47.6 years	49.5 years	54.5 years	52.4 years	44.3 years	54.4 years	51.2 years
Average length of service of contributing members	3.7 years	3.6 years	6.3 years	6.9 years	9.7 years	11.8 years	9.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Edgewood	Edinburg	Edna	El Campo	Eldorado	Electra	Elgin
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$233,491	\$88,918,015	\$4,512,355	\$17,165,318	\$1,255,339	\$754,880	\$7,559,251
b. Noncontributing Members	58,486	10,798,160	1,379,692	3,518,305	176,862	414,858	3,033,777
c. Annuitants	162,740	60,248,923	2,966,777	13,322,048	1,328,176	814,204	4,685,942
2. Total Actuarial Accrued Liability	\$454,717	\$159,965,098	\$8,858,824	\$34,005,671	\$2,760,377	\$1,983,942	\$15,278,970
3. Actuarial value of assets	398,594	127,392,337	8,038,358	27,815,330	2,430,847	1,927,057	12,568,059
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$56,123	\$32,572,761	\$820,466	\$6,190,341	\$329,530	\$56,885	\$2,710,911
5. Funded Ratio: (3) / (2)	87.7%	79.6%	90.7%	81.8%	88.1%	97.1%	82.3%
6. Annual Payroll	\$404,161	\$39,180,301	\$1,603,690	\$6,318,950	\$904,449	\$1,034,884	\$4,630,012
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.58%	8.67%	5.73%	7.07%	5.09%	1.38%	9.89%
Prior Service	1.23%	5.81%	4.50%	6.90%	2.36%	0.50%	3.92%
Total Retirement	5.81%	14.48%	10.23%	13.97%	7.45%	1.88%	13.81%
Supplemental Death	0.41%	0.17%	0.41%	0.25%	0.62%	0.43%	0.24%
Total Rate	6.22%	14.65%	10.64%	14.22%	8.07%	2.31%	14.05%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	10.50%	7.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	15.1 years	21.2 years	16.2 years	20.9 years	23.8 years	15.3 years	22.6 years
Number of annuitants	7	282	29	75	7	26	37
Number of active contributing members	11	854	33	118	22	28	91
Number of inactive members	8	399	34	68	23	35	75
Average age of contributing members	46.9 years	40.4 years	49.1 years	40.8 years	39.3 years	44.3 years	46.7 years
Average length of service of contributing members	6.6 years	8.2 years	12.9 years	10.7 years	6.6 years	8.1 years	8.3 years

	Elkhart	Elmendorf	Emory	Ennis	Eules	Eustace	Everman
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$219,661	\$293,749	\$891,204	\$31,870,682	\$110,053,701	\$431,028	\$2,359,285
b. Noncontributing Members	149,236	42,152	179,141	3,304,970	14,488,892	80,804	644,505
c. Annuitants	354,244	14,331	779,944	38,510,160	103,519,980	330,841	3,873,002
2. Total Actuarial Accrued Liability	\$723,141	\$350,232	\$1,850,289	\$73,685,812	\$228,062,573	\$842,673	\$6,876,792
3. Actuarial value of assets	712,050	338,894	1,798,838	65,759,210	206,060,848	723,365	6,553,702
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$11,091	\$11,338	\$51,451	\$7,926,602	\$22,001,725	\$119,308	\$323,090
5. Funded Ratio: (3) / (2)	98.5%	96.8%	97.2%	89.2%	90.4%	85.8%	95.3%
6. Annual Payroll	\$300,869	\$886,588	\$1,060,595	\$12,297,058	\$30,670,642	\$396,796	\$2,280,699
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	3.88%	1.37%	6.29%	11.92%	11.44%	5.82%	7.04%
Prior Service	0.41%	0.10%	0.31%	4.81%	6.58%	4.05%	0.94%
Total Retirement	4.29%	1.47%	6.60%	16.73%	18.02%	9.87%	7.98%
Supplemental Death	0.00%	0.14%	0.24%	0.25%	0.00%	0.27%	0.19%
Total Rate	4.29%	1.61%	6.84%	16.98%	18.02%	10.14%	8.17%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	13.50%	N/A	N/A	13.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	11.7 years	18.0 years	24.0 years	19.1 years	14.4 years	9.3 years	22.9 years
Number of annuitants	5	1	12	145	263	8	22
Number of active contributing members	9	17	24	190	383	11	50
Number of inactive members	13	15	12	63	168	10	45
Average age of contributing members	45.6 years	40.0 years	45.8 years	42.1 years	42.7 years	42.9 years	41.4 years
Average length of service of contributing members	5.0 years	5.4 years	7.2 years	11.4 years	14.0 years	5.3 years	7.7 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Fair Oaks Ranch	Fairfield	Fairview	Falfurrias	Falls City	Farmers Branch	Farmersville
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$5,049,899	\$2,101,186	\$8,222,702	\$1,075,747	\$176,280	\$101,105,632	\$3,632,118
b. Noncontributing Members	1,595,672	1,007,356	2,051,897	312,276	155,132	35,370,310	428,832
c. Annuitants	2,287,714	2,807,130	588,743	1,361,960	0	141,856,064	2,213,569
2. Total Actuarial Accrued Liability	\$8,933,285	\$5,915,672	\$10,863,342	\$2,749,983	\$331,412	\$278,332,006	\$6,274,519
3. Actuarial value of assets	8,204,558	6,126,798	9,534,377	2,629,981	289,369	245,955,643	5,787,339
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$728,727	(\$211,126)	\$1,328,965	\$120,002	\$42,043	\$32,376,363	\$487,180
5. Funded Ratio: (3) / (2)	91.8%	103.6%	87.8%	95.6%	87.3%	88.4%	92.2%
6. Annual Payroll	\$3,802,539	\$1,639,686	\$5,339,027	\$1,619,840	\$172,344	\$30,962,006	\$2,185,090
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	10.34%	7.78%	9.45%	2.48%	5.09%	10.08%	6.86%
Prior Service	1.23%	-0.50%	1.63%	0.52%	2.36%	9.04%	1.43%
Total Retirement	11.57%	7.28%	11.08%	3.00%	7.45%	19.12%	8.29%
Supplemental Death	0.14%	0.32%	0.13%	0.29%	0.15%	0.10%	0.21%
Total Rate	11.71%	7.60%	11.21%	3.29%	7.60%	19.22%	8.50%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	13.50%	N/A	9.50%	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	24.1 years	N/A	23.4 years	20.8 years	13.7 years	15.8 years	24.2 years
Number of annuitants	14	26	7	23	0	345	21
Number of active contributing members	65	37	72	37	4	403	35
Number of inactive members	46	26	46	42	11	354	15
Average age of contributing members	42.0 years	45.1 years	42.5 years	47.4 years	54.4 years	41.5 years	45.5 years
Average length of service of contributing members	6.1 years	6.4 years	10.2 years	7.5 years	6.4 years	11.8 years	10.5 years

	Farwell	Fate	Fayetteville	Ferris	Flatonia	Florence	Floresville
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$331,939	\$2,142,274	\$121,779	\$604,720	\$2,276,525	\$233,246	\$4,071,582
b. Noncontributing Members	182,673	1,132,389	0	1,293,231	694,967	147,043	958,155
c. Annuitants	732,940	633,136	29,345	2,043,452	2,427,755	136,662	3,282,643
2. Total Actuarial Accrued Liability	\$1,247,552	\$3,907,799	\$151,124	\$3,941,403	\$5,399,247	\$516,951	\$8,312,380
3. Actuarial value of assets	1,087,297	3,855,682	140,929	3,958,185	4,904,743	540,402	7,017,497
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$160,255	\$52,117	\$10,195	(\$16,782)	\$494,504	(\$23,451)	\$1,294,883
5. Funded Ratio: (3) / (2)	87.2%	98.7%	93.3%	100.4%	90.8%	104.5%	84.4%
6. Annual Payroll	\$279,495	\$3,467,121	\$125,884	\$2,060,885	\$1,053,106	\$461,456	\$3,477,492
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	12.08%	10.11%	1.95%	5.22%	10.59%	4.50%	6.79%
Prior Service	4.76%	0.10%	1.22%	-0.03%	5.18%	-0.20%	2.60%
Total Retirement	16.84%	10.21%	3.17%	5.19%	15.77%	4.30%	9.39%
Supplemental Death	0.15%	0.09%	0.00%	0.32%	0.24%	0.14%	0.00%
Total Rate	16.99%	10.30%	3.17%	5.51%	16.01%	4.44%	9.39%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	16.92%	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	9.50%	N/A	N/A	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	16.4 years	21.8 years	7.8 years	N/A	11.3 years	N/A	21.1 years
Number of annuitants	3	12	1	31	14	4	32
Number of active contributing members	6	53	4	46	20	11	66
Number of inactive members	9	43	0	73	13	14	39
Average age of contributing members	46.8 years	40.5 years	55.4 years	40.6 years	44.8 years	43.7 years	45.2 years
Average length of service of contributing members	8.5 years	7.2 years	7.3 years	3.9 years	9.9 years	4.5 years	6.8 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Flower Mound	Floydada	Forest Hill	Forney	Fort Stockton	Franklin	Frankston
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$98,642,382	\$2,051,724	\$11,498,628	\$18,393,329	\$5,483,806	\$386,679	\$287,985
b. Noncontributing Members	20,291,675	302,606	3,317,079	3,564,840	2,278,408	68,058	75,959
c. Annuitants	39,439,454	2,778,016	9,817,951	7,749,061	10,606,094	203,213	137,377
2. Total Actuarial Accrued Liability	\$158,373,511	\$5,132,346	\$24,633,658	\$29,707,230	\$18,368,308	\$657,950	\$501,321
3. Actuarial value of assets	138,120,882	4,672,302	22,463,712	24,570,570	15,501,993	703,117	515,901
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$20,252,629	\$460,044	\$2,169,946	\$5,136,660	\$2,866,315	(\$45,167)	(\$14,580)
5. Funded Ratio: (3) / (2)	87.2%	91.0%	91.2%	82.7%	84.4%	106.9%	102.9%
6. Annual Payroll	\$41,455,732	\$1,048,402	\$5,805,007	\$11,083,267	\$5,856,406	\$577,521	\$524,903
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	8.07%	6.67%	10.43%	11.18%	6.17%	3.61%	1.55%
Prior Service	3.22%	3.30%	2.41%	2.98%	3.49%	-0.30%	-0.11%
Total Retirement	11.29%	9.97%	12.84%	14.16%	9.66%	3.31%	1.44%
Supplemental Death	0.12%	0.37%	0.14%	0.10%	0.47%	0.00%	0.21%
Total Rate	11.41%	10.34%	12.98%	14.26%	10.13%	3.31%	1.65%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	N/A	13.50%	N/A	11.50%	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	23.2 years	19.6 years	24.1 years	24.2 years	20.5 years	N/A	N/A
Number of annuitants	246	21	77	28	75	5	4
Number of active contributing members	609	22	88	158	116	15	12
Number of inactive members	451	20	94	57	96	9	7
Average age of contributing members	40.8 years	44.3 years	40.0 years	39.8 years	41.0 years	39.9 years	44.8 years
Average length of service of contributing members	9.9 years	7.5 years	8.5 years	8.3 years	6.0 years	5.2 years	7.9 years

	Fredericksburg	Freeport	Freer	Friendswood	Frona	Frisco	Fritch
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$32,729,201	\$12,227,739	\$471,237	\$42,610,618	\$1,778,297	\$234,878,378	\$521,407
b. Noncontributing Members	3,816,453	5,160,462	372,251	8,997,981	777,230	29,047,857	567,041
c. Annuitants	18,387,724	12,567,957	487,694	34,217,601	2,819,038	43,597,384	492,724
2. Total Actuarial Accrued Liability	\$54,933,378	\$29,956,158	\$1,331,182	\$85,826,200	\$5,374,565	\$307,523,619	\$1,581,172
3. Actuarial value of assets	43,510,033	24,647,128	1,035,928	73,229,644	5,118,717	262,258,242	2,303,981
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$11,423,345	\$5,309,030	\$295,254	\$12,596,556	\$255,848	\$45,265,377	(\$722,809)
5. Funded Ratio: (3) / (2)	79.2%	82.3%	77.8%	85.3%	95.2%	85.3%	145.7%
6. Annual Payroll	\$10,597,897	\$6,742,218	\$721,182	\$15,542,926	\$901,610	\$98,939,109	\$786,567
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	8.58%	9.14%	3.42%	11.01%	6.34%	11.48%	7.35%
Prior Service	8.34%	5.07%	3.15%	5.54%	2.83%	2.96%	-3.58%
Total Retirement	16.92%	14.21%	6.57%	16.55%	9.17%	14.44%	3.77%
Supplemental Death	0.24%	0.20%	0.37%	0.19%	0.27%	0.10%	0.28%
Total Rate	17.16%	14.41%	6.94%	16.74%	9.44%	14.54%	4.05%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	2.56%
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	N/A	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	18.1 years	24.1 years	20.1 years	21.9 years	13.3 years	23.9 years	N/A
Number of annuitants	101	76	8	134	15	206	10
Number of active contributing members	167	124	19	211	25	1,270	18
Number of inactive members	68	108	18	117	21	508	35
Average age of contributing members	45.1 years	40.8 years	44.5 years	43.4 years	42.0 years	41.2 years	37.4 years
Average length of service of contributing members	13.4 years	7.0 years	6.3 years	12.1 years	9.8 years	9.9 years	4.8 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Frost	Fulshear	Fulton	Gainesville	Galena Park	Ganado	Garden Ridge
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$45,351	\$1,846,299	\$177,864	\$24,065,527	\$8,131,268	\$1,411,389	\$1,936,717
b. Noncontributing Members	44,228	358,921	36,846	4,174,782	1,969,082	1,478,282	617,730
c. Annuitants	195,051	135,248	369,815	23,099,387	8,699,786	727,026	889,527
2. Total Actuarial Accrued Liability	\$284,630	\$2,340,468	\$584,525	\$51,339,696	\$18,800,136	\$3,616,697	\$3,443,974
3. Actuarial value of assets	248,225	2,109,094	440,498	41,653,128	17,670,035	3,616,058	3,040,633
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$36,405	\$231,374	\$144,027	\$9,686,568	\$1,130,101	\$639	\$403,341
5. Funded Ratio: (3) / (2)	87.2%	90.1%	75.4%	81.1%	94.0%	100.0%	88.3%
6. Annual Payroll	\$126,026	\$3,573,738	\$230,366	\$12,110,211	\$3,877,353	\$502,048	\$1,726,890
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	3.00%	6.79%	6.16%	5.42%	8.87%	11.95%	6.00%
Prior Service	3.47%	0.47%	16.73%	6.43%	1.88%	0.01%	1.54%
Total Retirement	6.47%	7.26%	22.89%	11.85%	10.75%	11.96%	7.54%
Supplemental Death	0.00%	0.10%	0.45%	0.27%	0.29%	0.75%	0.22%
Total Rate	6.47%	7.36%	23.34%	12.12%	11.04%	12.71%	7.76%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	7.50%	N/A	N/A	N/A	N/A	N/A	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	10.7 years	19.8 years	4.1 years	17.5 years	24.0 years	15.8 years	23.2 years
Number of annuitants	4	2	5	150	55	10	16
Number of active contributing members	4	56	4	214	84	10	29
Number of inactive members	1	24	2	133	63	7	24
Average age of contributing members	53.2 years	43.0 years	51.8 years	41.3 years	39.9 years	53.6 years	46.3 years
Average length of service of contributing members	5.1 years	8.2 years	7.6 years	9.7 years	6.9 years	11.9 years	12.1 years

	Garland	Garrison	Gary	Gatesville	George West	Georgetown	Giddings
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$524,188,089	\$897,844	\$314,368	\$10,361,287	\$709,979	\$108,542,568	\$8,319,846
b. Noncontributing Members	58,726,206	512,179	3,476	796,029	478,639	16,564,556	1,464,743
c. Annuitants	455,390,962	789,322	169,987	9,398,441	560,695	44,235,450	7,112,555
2. Total Actuarial Accrued Liability	\$1,038,305,257	\$2,199,345	\$487,831	\$20,555,757	\$1,749,313	\$169,342,574	\$16,897,144
3. Actuarial value of assets	993,884,690	2,059,139	434,057	17,616,118	1,528,492	146,839,886	13,911,264
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$44,420,567	\$140,206	\$53,774	\$2,939,639	\$220,821	\$22,502,688	\$2,985,880
5. Funded Ratio: (3) / (2)	95.7%	93.6%	89.0%	85.7%	87.4%	86.7%	82.3%
6. Annual Payroll	\$161,867,402	\$413,011	\$228,872	\$4,037,736	\$1,336,045	\$50,877,501	\$3,041,743
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	8.59%	11.07%	3.67%	9.50%	4.28%	9.42%	9.12%
Prior Service	2.60%	4.01%	1.92%	5.20%	1.09%	3.03%	9.05%
Total Retirement	11.19%	15.08%	5.59%	14.70%	5.37%	12.45%	18.17%
Supplemental Death	0.25%	0.16%	0.00%	0.27%	0.18%	0.13%	0.35%
Total Rate	11.44%	15.24%	5.59%	14.97%	5.55%	12.58%	18.52%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	7.50%	N/A	N/A	13.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	13.7 years	10.4 years	17.5 years	20.4 years	23.1 years	21.8 years	14.3 years
Number of annuitants	1,503	4	1	54	8	211	41
Number of active contributing members	2,051	9	4	80	35	697	64
Number of inactive members	700	4	2	27	44	269	52
Average age of contributing members	44.9 years	47.8 years	51.8 years	43.5 years	45.3 years	42.5 years	45.7 years
Average length of service of contributing members	13.6 years	6.0 years	11.5 years	10.4 years	5.0 years	10.2 years	10.3 years



**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
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	Gilmer	Gladewater	Glen Rose	Glenn Heights	Godley	Goldsmith	Goldthwaite
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$4,761,246	\$1,751,176	\$1,921,535	\$2,674,279	\$304,005	\$256,791	\$2,983,501
b. Noncontributing Members	505,630	2,491,594	219,467	1,940,418	88,895	181,007	218,068
c. Annuitants	5,430,455	3,664,931	2,273,063	3,556,748	129,601	0	3,038,401
2. Total Actuarial Accrued Liability	\$10,697,331	\$7,907,701	\$4,414,065	\$8,171,445	\$522,501	\$437,798	\$6,239,970
3. Actuarial value of assets	9,191,377	7,480,350	3,750,835	9,707,541	479,725	431,925	5,264,694
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,505,954	\$427,351	\$663,230	(\$1,536,096)	\$42,776	\$5,873	\$975,276
5. Funded Ratio: (3) / (2)	85.9%	94.6%	85.0%	118.8%	91.8%	98.7%	84.4%
6. Annual Payroll	\$2,326,791	\$2,742,011	\$1,278,766	\$4,582,544	\$605,046	\$258,358	\$689,200
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	8.76%	7.28%	10.94%	4.86%	1.79%	1.39%	10.49%
Prior Service	4.63%	1.02%	3.35%	-1.30%	0.62%	0.65%	13.71%
Total Retirement	13.39%	8.30%	14.29%	3.56%	2.41%	2.04%	24.20%
Supplemental Death	0.26%	0.24%	0.32%	0.13%	0.25%	0.29%	0.27%
Total Rate	13.65%	8.54%	14.61%	3.69%	2.66%	2.33%	24.47%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	3.52%	N/A	N/A	24.27%
Statutory Maximum Rate (Total Retirement Only)	N/A	11.50%	N/A	12.50%	8.50%	7.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	20.4 years	23.3 years	23.9 years	N/A	15.4 years	3.8 years	14.1 years
Number of annuitants	41	47	20	59	5	0	9
Number of active contributing members	50	59	28	85	12	5	11
Number of inactive members	29	95	18	118	14	2	2
Average age of contributing members	43.3 years	41.2 years	46.3 years	39.3 years	42.7 years	48.1 years	48.3 years
Average length of service of contributing members	10.7 years	5.4 years	6.4 years	7.3 years	7.3 years	11.5 years	14.4 years

	Goliad	Gonzales	Gordon	Gorman	Graford	Graham	Granbury
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$578,990	\$7,260,368	\$21,439	\$199,759	\$131,390	\$6,976,600	\$22,654,128
b. Noncontributing Members	333,357	2,077,268	2,602	60,875	0	963,721	3,666,784
c. Annuitants	1,042,078	9,361,249	0	0	0	10,534,536	19,807,728
2. Total Actuarial Accrued Liability	\$1,954,425	\$18,698,885	\$24,041	\$260,634	\$131,390	\$18,474,857	\$46,128,640
3. Actuarial value of assets	2,178,809	15,774,546	15,577	115,004	126,230	16,207,953	38,524,126
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$224,384)	\$2,924,339	\$8,464	\$145,630	\$5,160	\$2,266,904	\$7,604,514
5. Funded Ratio: (3) / (2)	111.5%	84.4%	64.8%	44.1%	96.1%	87.7%	83.5%
6. Annual Payroll	\$689,225	\$4,699,757	\$190,791	\$244,855	\$136,939	\$4,133,122	\$9,280,396
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.96%	6.05%	1.57%	1.84%	1.89%	6.75%	9.87%
Prior Service	-1.27%	4.33%	0.71%	7.24%	0.88%	3.94%	6.05%
Total Retirement	5.69%	10.38%	2.28%	9.08%	2.77%	10.69%	15.92%
Supplemental Death	0.29%	0.38%	0.07%	0.35%	0.18%	0.44%	0.26%
Total Rate	5.98%	10.76%	2.35%	9.43%	2.95%	11.13%	16.18%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	21.3 years	7.3 years	10.0 years	4.7 years	20.8 years	19.5 years
Number of annuitants	10	59	0	0	0	72	109
Number of active contributing members	16	101	4	7	3	88	175
Number of inactive members	18	117	2	5	0	37	102
Average age of contributing members	43.4 years	40.1 years	42.1 years	51.9 years	51.0 years	44.4 years	44.6 years
Average length of service of contributing members	7.8 years	8.7 years	1.8 years	10.6 years	9.6 years	8.4 years	9.8 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Grand Prairie	Grand Saline	Grandview	Granger	Granite Shoals	Grapeland	Grapevine
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$294,531,547	\$1,055,765	\$470,644	\$102,197	\$1,247,175	\$97,793	\$140,825,060
b. Noncontributing Members	34,883,256	492,918	447,141	114,864	181,273	185,302	21,630,287
c. Annuitants	<u>290,269,260</u>	<u>1,667,940</u>	<u>661,824</u>	<u>268,034</u>	<u>379,061</u>	<u>425,804</u>	<u>141,217,779</u>
2. Total Actuarial Accrued Liability	\$619,684,063	\$3,216,623	\$1,579,609	\$485,095	\$1,807,509	\$708,899	\$303,673,126
3. Actuarial value of assets	<u>540,987,036</u>	<u>3,151,485</u>	<u>1,756,265</u>	<u>557,257</u>	<u>1,851,056</u>	<u>691,131</u>	<u>259,942,950</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$78,697,027	\$65,138	(\$176,656)	(\$72,162)	(\$43,547)	\$17,768	\$43,730,176
5. Funded Ratio: (3) / (2)	87.3%	98.0%	111.2%	114.9%	102.4%	97.5%	85.6%
6. Annual Payroll	\$102,525,371	\$1,008,602	\$872,773	\$430,649	\$1,822,927	\$271,113	\$47,819,036
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	11.00%	6.99%	6.95%	6.98%	4.42%	3.44%	11.72%
Prior Service	<u>6.24%</u>	<u>0.45%</u>	<u>-0.79%</u>	<u>-0.65%</u>	<u>-0.09%</u>	<u>0.61%</u>	<u>7.10%</u>
Total Retirement	17.24%	7.44%	6.16%	6.33%	4.33%	4.05%	18.82%
Supplemental Death	<u>0.20%</u>	<u>0.37%</u>	<u>0.00%</u>	<u>0.00%</u>	<u>0.26%</u>	<u>0.00%</u>	<u>0.00%</u>
Total Rate	17.44%	7.81%	6.16%	6.33%	4.59%	4.05%	18.82%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	11.50%	11.50%	13.50%	N/A	7.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	16.9 years	24.0 years	N/A	N/A	N/A	15.1 years	18.1 years
Number of annuitants	824	18	12	13	11	10	420
Number of active contributing members	1,386	26	15	11	36	9	590
Number of inactive members	643	17	19	12	22	25	282
Average age of contributing members	41.2 years	42.3 years	40.9 years	43.4 years	43.6 years	40.6 years	44.3 years
Average length of service of contributing members	10.9 years	6.4 years	6.8 years	5.9 years	7.2 years	2.6 years	12.3 years

	Greenville	Gregory	Grey Forest	Groesbeck	Groom	Groves	Groveton
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$51,230,746	\$206,890	\$7,816,015	\$1,118,446	\$169,024	\$20,260,900	\$227,935
b. Noncontributing Members	10,364,514	131,796	944,155	227,446	4,972	1,648,636	785
c. Annuitants	<u>61,589,316</u>	<u>97,319</u>	<u>7,326,567</u>	<u>562,332</u>	<u>173,134</u>	<u>19,819,806</u>	<u>28,753</u>
2. Total Actuarial Accrued Liability	\$123,184,576	\$436,005	\$16,086,737	\$1,908,224	\$347,130	\$41,729,342	\$257,473
3. Actuarial value of assets	<u>114,942,198</u>	<u>625,949</u>	<u>13,391,762</u>	<u>1,687,528</u>	<u>352,228</u>	<u>40,539,822</u>	<u>259,678</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$8,242,378	(\$189,944)	\$2,694,975	\$220,696	(\$5,098)	\$1,189,520	(\$2,205)
5. Funded Ratio: (3) / (2)	93.3%	143.6%	83.2%	88.4%	101.5%	97.1%	100.9%
6. Annual Payroll	\$19,997,777	\$480,858	\$2,955,278	\$1,302,939	\$239,832	\$6,801,548	\$221,281
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	7.34%	6.06%	9.68%	1.15%	3.06%	6.89%	1.99%
Prior Service	<u>3.98%</u>	<u>-1.54%</u>	<u>6.85%</u>	<u>1.34%</u>	<u>-0.08%</u>	<u>2.00%</u>	<u>-0.04%</u>
Total Retirement	11.32%	4.52%	16.53%	2.49%	2.98%	8.89%	1.95%
Supplemental Death	<u>0.28%</u>	<u>0.30%</u>	<u>0.21%</u>	<u>0.27%</u>	<u>0.00%</u>	<u>0.00%</u>	<u>0.57%</u>
Total Rate	11.60%	4.82%	16.74%	2.76%	2.98%	8.89%	2.52%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	4.76%	16.66%	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	9.50%	N/A	N/A	7.50%	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	13.4 years	N/A	19.0 years	19.7 years	N/A	11.0 years	N/A
Number of annuitants	304	2	24	15	4	97	2
Number of active contributing members	332	11	38	31	5	103	10
Number of inactive members	169	17	14	17	2	46	4
Average age of contributing members	44.2 years	50.3 years	44.9 years	45.7 years	49.3 years	43.6 years	55.7 years
Average length of service of contributing members	11.2 years	8.6 years	9.1 years	10.7 years	7.1 years	13.6 years	9.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Gruver	Gun Barrel City	Gunter	Hale Center	Hallettsville	Hallsville	Haltom City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$520,294	\$1,552,641	\$93,257	\$299,266	\$4,579,390	\$473,504	\$55,952,756
b. Noncontributing Members	395,675	889,392	88,289	67,100	340,208	53,147	14,005,804
c. Annuitants	<u>508,108</u>	<u>967,736</u>	<u>117,329</u>	<u>95,400</u>	<u>3,374,250</u>	<u>211,410</u>	<u>59,007,692</u>
2. Total Actuarial Accrued Liability	\$1,424,077	\$3,409,769	\$298,875	\$461,766	\$8,293,848	\$738,061	\$128,966,252
3. Actuarial value of assets	<u>1,318,300</u>	<u>3,778,599</u>	<u>382,827</u>	<u>414,512</u>	<u>7,524,914</u>	<u>588,764</u>	<u>108,310,669</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$105,777	(\$368,830)	(\$83,952)	\$47,254	\$768,934	\$149,297	\$20,655,583
5. Funded Ratio: (3) / (2)	92.6%	110.8%	128.1%	89.8%	90.7%	79.8%	84.0%
6. Annual Payroll	\$255,244	\$1,760,696	\$531,260	\$456,198	\$1,530,990	\$867,563	\$18,191,694
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	8.36%	5.67%	5.20%	3.32%	7.05%	1.68%	10.48%
Prior Service	<u>6.49%</u>	<u>-0.82%</u>	<u>-0.62%</u>	<u>0.93%</u>	<u>5.37%</u>	<u>1.12%</u>	<u>8.53%</u>
Total Retirement	14.85%	4.85%	4.58%	4.25%	12.42%	2.80%	19.01%
Supplemental Death	<u>0.00%</u>	<u>0.24%</u>	<u>0.14%</u>	<u>0.13%</u>	<u>0.39%</u>	<u>0.20%</u>	<u>0.22%</u>
Total Rate	14.85%	5.09%	4.72%	4.38%	12.81%	3.00%	19.23%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	11.50%	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	7.4 years	N/A	N/A	14.8 years	11.8 years	23.7 years	20.1 years
Number of annuitants	4	22	5	2	25	4	224
Number of active contributing members	5	40	11	9	32	19	266
Number of inactive members	7	44	11	8	17	14	163
Average age of contributing members	56.2 years	44.2 years	43.2 years	45.3 years	46.7 years	46.5 years	43.7 years
Average length of service of contributing members	7.7 years	6.9 years	4.6 years	7.0 years	16.3 years	9.0 years	12.3 years

	Hamilton	Hamlin	Happy	Harker Heights	Harlingen	Harlingen Waterworks Sys	Hart
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,347,992	\$784,629	\$266,238	\$33,906,388	\$35,373,450	\$8,600,711	\$140,763
b. Noncontributing Members	451,392	196,761	134,698	6,980,403	8,854,613	1,518,394	42,021
c. Annuitants	<u>2,834,954</u>	<u>1,834,862</u>	<u>220,486</u>	<u>16,744,091</u>	<u>51,351,933</u>	<u>13,771,492</u>	<u>16,551</u>
2. Total Actuarial Accrued Liability	\$4,634,338	\$2,816,252	\$621,422	\$57,630,882	\$95,579,996	\$23,890,597	\$199,335
3. Actuarial value of assets	<u>3,954,719</u>	<u>2,764,025</u>	<u>635,656</u>	<u>47,845,085</u>	<u>92,190,943</u>	<u>24,274,622</u>	<u>150,369</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$679,619	\$52,227	(\$14,234)	\$9,785,797	\$3,389,053	(\$384,025)	\$48,966
5. Funded Ratio: (3) / (2)	85.3%	98.1%	102.3%	83.0%	96.5%	101.6%	75.4%
6. Annual Payroll	\$1,195,763	\$613,606	\$100,041	\$13,321,180	\$9,026,343	\$5,746,055	\$160,788
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	9.20%	3.60%	8.51%	10.08%	4.76%	1.96%	1.09%
Prior Service	<u>4.67%</u>	<u>0.57%</u>	<u>-0.55%</u>	<u>4.73%</u>	<u>5.56%</u>	<u>-0.26%</u>	<u>2.82%</u>
Total Retirement	13.87%	4.17%	7.96%	14.81%	10.32%	1.70%	3.91%
Supplemental Death	<u>0.42%</u>	<u>0.62%</u>	<u>0.87%</u>	<u>0.15%</u>	<u>0.72%</u>	<u>0.50%</u>	<u>0.00%</u>
Total Rate	14.29%	4.79%	8.83%	14.96%	11.04%	2.20%	3.91%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	15.50%	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	16.7 years	23.6 years	N/A	24.0 years	8.9 years	N/A	14.2 years
Number of annuitants	23	13	2	88	343	128	1
Number of active contributing members	28	17	2	219	150	112	5
Number of inactive members	30	8	2	150	73	49	1
Average age of contributing members	43.2 years	45.4 years	53.5 years	41.2 years	51.3 years	45.8 years	40.2 years
Average length of service of contributing members	4.9 years	6.5 years	12.8 years	13.2 years	20.5 years	12.5 years	9.4 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM  
ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Haskell	Haslet	Hawkins	Hays	Hearne	Heath	Hedley
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$431,562	\$2,535,593	\$1,188,182	\$28,059	\$4,917,722	\$6,361,590	\$4,295
b. Noncontributing Members	230,207	400,941	163,948	0	1,533,656	2,652,855	151,899
c. Annuitants	683,669	413,076	723,731	128,134	3,276,778	3,950,049	18,692
2. Total Actuarial Accrued Liability	\$1,345,438	\$3,349,610	\$2,075,861	\$156,193	\$9,728,156	\$12,964,494	\$174,886
3. Actuarial value of assets	1,931,490	3,310,567	2,270,850	161,197	7,750,722	11,588,640	192,815
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$586,052)	\$39,043	(\$194,989)	(\$5,004)	\$1,977,434	\$1,375,854	(\$17,929)
5. Funded Ratio: (3) / (2)	143.6%	98.8%	109.4%	103.2%	79.7%	89.4%	110.3%
6. Annual Payroll	\$782,891	\$1,542,517	\$405,994	\$39,253	\$2,376,979	\$4,192,901	\$33,852
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.90%	8.63%	8.69%	9.94%	9.12%	9.85%	5.25%
Prior Service	-1.90%	0.16%	-1.87%	-0.50%	5.80%	2.15%	-2.06%
Total Retirement	0.00%	8.79%	6.82%	9.44%	14.92%	12.00%	3.19%
Supplemental Death	0.29%	0.17%	0.22%	0.63%	0.35%	0.15%	1.08%
Total Rate	0.29%	8.96%	7.04%	10.07%	15.27%	12.15%	4.27%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	6.78%	N/A	N/A	N/A	4.03%
Statutory Maximum Rate (Total Retirement Only)	9.50%	15.50%	N/A	N/A	N/A	13.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	25.0 years	N/A	N/A	21.2 years	23.3 years	N/A
Number of annuitants	10	7	13	3	27	23	1
Number of active contributing members	18	25	9	1	54	51	2
Number of inactive members	15	23	3	0	39	36	9
Average age of contributing members	41.9 years	45.8 years	48.3 years	56.3 years	44.9 years	44.4 years	54.2 years
Average length of service of contributing members	6.0 years	9.7 years	11.9 years	2.8 years	8.5 years	11.7 years	0.8 years

	Hedwig Village	Helotes	Hemphill	Hempstead	Henderson	Henrietta	Hereford
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$2,233,670	\$5,042,785	\$1,760,130	\$7,405,696	\$15,529,328	\$1,192,100	\$11,626,719
b. Noncontributing Members	959,028	1,290,366	343,310	331,351	2,894,625	399,836	1,266,113
c. Annuitants	2,898,105	1,585,960	1,692,654	4,628,930	17,480,317	1,579,977	10,387,774
2. Total Actuarial Accrued Liability	\$6,090,803	\$7,919,111	\$3,796,094	\$12,365,977	\$35,904,270	\$3,171,913	\$23,280,606
3. Actuarial value of assets	5,608,253	7,306,057	3,298,051	11,487,509	29,787,095	2,609,869	20,502,280
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$482,550	\$613,054	\$498,043	\$878,468	\$6,117,175	\$562,044	\$2,778,326
5. Funded Ratio: (3) / (2)	92.1%	92.3%	86.9%	92.9%	83.0%	82.3%	88.1%
6. Annual Payroll	\$2,138,447	\$3,939,729	\$1,262,700	\$3,581,393	\$6,724,149	\$734,713	\$5,483,267
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.54%	5.76%	4.70%	6.16%	10.08%	9.97%	6.63%
Prior Service	2.07%	1.38%	2.79%	1.58%	6.66%	5.08%	3.82%
Total Retirement	6.61%	7.14%	7.49%	7.74%	16.74%	15.05%	10.45%
Supplemental Death	0.22%	0.13%	0.39%	0.23%	0.29%	0.29%	0.30%
Total Rate	6.83%	7.27%	7.88%	7.97%	16.97%	15.34%	10.75%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	16.84%	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	13.50%	11.50%	N/A	N/A	N/A	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	14.4 years	15.0 years	20.8 years	24.0 years	19.7 years	23.6 years	18.9 years
Number of annuitants	17	17	15	25	77	14	54
Number of active contributing members	28	68	26	69	124	17	96
Number of inactive members	23	44	11	36	63	12	30
Average age of contributing members	46.9 years	40.9 years	47.1 years	49.2 years	39.2 years	45.9 years	41.4 years
Average length of service of contributing members	11.0 years	10.0 years	7.7 years	10.9 years	9.4 years	8.3 years	10.5 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Hewitt	Hickory Creek	Hico	Hidalgo	Higgins	Highland Park	Highland Village
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$11,931,351	\$2,756,659	\$221,147	\$11,798,302	\$42,782	\$38,984,700	\$28,116,996
b. Noncontributing Members	2,283,862	588,327	240,834	4,382,876	0	4,647,675	7,030,256
c. Annuitants	7,831,553	745,047	816,797	6,306,616	301,384	40,706,128	12,485,901
2. Total Actuarial Accrued Liability	\$22,046,766	\$4,090,033	\$1,278,778	\$22,487,794	\$344,166	\$84,338,503	\$47,633,153
3. Actuarial value of assets	17,990,629	3,460,121	1,276,863	19,809,031	353,885	80,504,628	42,307,405
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$4,056,137	\$629,912	\$1,915	\$2,678,763	(\$9,719)	\$3,833,875	\$5,325,748
5. Funded Ratio: (3) / (2)	81.6%	84.6%	99.9%	88.1%	102.8%	95.5%	88.8%
6. Annual Payroll	\$4,911,248	\$1,262,118	\$504,788	\$6,127,541	\$110,784	\$13,891,512	\$10,911,121
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	11.11%	10.20%	8.21%	8.84%	4.29%	6.10%	10.42%
Prior Service	5.33%	3.49%	0.28%	3.67%	-0.34%	3.23%	3.14%
Total Retirement	16.44%	13.69%	8.49%	12.51%	3.95%	9.33%	13.56%
Supplemental Death	0.14%	0.10%	0.43%	0.00%	0.34%	0.00%	0.16%
Total Rate	16.58%	13.79%	8.92%	12.51%	4.29%	9.33%	13.72%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	16.55%	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	13.50%	13.50%	13.50%	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	24.0 years	24.2 years	1.4 years	16.6 years	N/A	10.5 years	24.2 years
Number of annuitants	34	12	10	49	3	118	83
Number of active contributing members	93	21	13	147	3	124	151
Number of inactive members	72	16	8	99	0	40	109
Average age of contributing members	40.5 years	39.3 years	40.1 years	43.0 years	61.3 years	45.7 years	42.8 years
Average length of service of contributing members	10.4 years	8.9 years	2.9 years	7.6 years	6.1 years	15.6 years	11.8 years

	Hill Country Village	Hillsboro	Hilshire Village	Hitchcock	Holland	Holliday	Hollywood Park
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,125,761	\$10,993,777	\$118,968	\$1,126,291	\$495,518	\$550,140	\$3,762,557
b. Noncontributing Members	566,010	2,944,600	3,885	905,726	7,013	218,938	704,249
c. Annuitants	479,180	8,023,068	11,060	2,456,336	146,891	115	2,325,999
2. Total Actuarial Accrued Liability	\$2,170,951	\$21,961,445	\$133,913	\$4,488,353	\$649,422	\$769,193	\$6,792,805
3. Actuarial value of assets	2,229,176	19,118,757	120,711	4,608,682	650,135	792,467	6,007,713
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$58,225)	\$2,842,688	\$13,202	(\$120,329)	(\$713)	(\$23,274)	\$785,092
5. Funded Ratio: (3) / (2)	102.7%	87.1%	90.1%	102.7%	100.1%	103.0%	88.4%
6. Annual Payroll	\$905,830	\$5,033,694	\$123,744	\$2,161,053	\$302,440	\$388,520	\$2,237,148
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.10%	6.08%	5.37%	4.35%	5.76%	2.80%	6.76%
Prior Service	-0.25%	5.20%	4.38%	-0.22%	-0.01%	-0.23%	2.26%
Total Retirement	3.85%	11.28%	9.75%	4.13%	5.75%	2.57%	9.02%
Supplemental Death	0.11%	0.00%	0.22%	0.20%	0.64%	0.00%	0.20%
Total Rate	3.96%	11.28%	9.97%	4.33%	6.39%	2.57%	9.22%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	11.50%	N/A	N/A	11.50%	10.50%	9.50%	10.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	14.5 years	2.6 years	N/A	N/A	N/A	24.1 years
Number of annuitants	5	68	1	26	3	1	22
Number of active contributing members	14	105	2	40	8	9	38
Number of inactive members	19	76	1	55	1	5	27
Average age of contributing members	44.2 years	42.8 years	47.8 years	46.2 years	55.3 years	48.8 years	45.7 years
Average length of service of contributing members	12.5 years	10.5 years	7.5 years	8.1 years	9.4 years	11.6 years	10.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Hondo	Honey Grove	Hooks	Horizon City	Howe	Hubbard	Hudson
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$5,375,889	\$339,773	\$464,717	\$2,184,153	\$1,389,185	\$147,604	\$747,886
b. Noncontributing Members	2,293,735	358,144	693,361	7,670	572,436	167,612	66,125
c. Annuitants	9,044,200	1,029,534	616,603	0	479,013	221,561	157,263
2. Total Actuarial Accrued Liability	\$16,713,824	\$1,727,451	\$1,774,681	\$2,191,823	\$2,440,634	\$536,777	\$971,274
3. Actuarial value of assets	15,522,842	1,693,473	1,418,206	687,446	2,522,617	553,489	951,558
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,190,982	\$33,978	\$356,475	\$1,504,377	(\$81,983)	(\$16,712)	\$19,716
5. Funded Ratio: (3) / (2)	92.9%	98.0%	79.9%	31.4%	103.4%	103.1%	98.0%
6. Annual Payroll	\$4,741,130	\$434,516	\$588,837	\$3,178,273	\$832,260	\$450,724	\$623,195
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.74%	5.89%	7.60%	2.70%	5.25%	3.01%	3.82%
Prior Service	1.61%	0.75%	5.92%	3.05%	-0.38%	-0.14%	0.26%
Total Retirement	8.35%	6.64%	13.52%	5.75%	4.87%	2.87%	4.08%
Supplemental Death	0.21%	0.49%	0.23%	0.09%	0.45%	0.15%	0.20%
Total Rate	8.56%	7.13%	13.75%	5.84%	5.32%	3.02%	4.28%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	11.50%	9.50%	13.50%	N/A	11.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	24.2 years	13.5 years	13.2 years	24.0 years	N/A	N/A	16.5 years
Number of annuitants	68	8	5	0	9	5	3
Number of active contributing members	114	9	13	73	17	12	12
Number of inactive members	92	18	10	7	21	18	8
Average age of contributing members	42.8 years	44.2 years	42.0 years	40.3 years	45.8 years	37.9 years	45.9 years
Average length of service of contributing members	7.0 years	10.4 years	7.9 years	6.0 years	11.0 years	4.8 years	10.2 years

	Hudson Oaks	Hughes Springs	Humble	Hunters Creek Village	Huntington	Huntsville	Hurst
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,455,342	\$2,837,055	\$43,647,351	\$866,614	\$1,623,805	\$36,187,787	\$74,084,797
b. Noncontributing Members	853,669	276	2,801,810	152,724	238,826	7,919,175	11,149,622
c. Annuitants	668,136	1,824,372	35,361,695	719,647	2,072,914	51,438,234	84,809,287
2. Total Actuarial Accrued Liability	\$4,977,147	\$4,661,703	\$81,810,856	\$1,738,985	\$3,935,545	\$95,545,196	\$170,043,706
3. Actuarial value of assets	4,284,133	5,000,474	73,994,353	1,147,932	3,326,697	76,547,878	158,779,700
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$693,014	(\$338,771)	\$7,816,503	\$591,053	\$608,848	\$18,997,318	\$11,264,006
5. Funded Ratio: (3) / (2)	86.1%	107.3%	90.4%	66.0%	84.5%	80.1%	93.4%
6. Annual Payroll	\$1,669,817	\$631,535	\$15,947,561	\$553,890	\$800,880	\$14,509,419	\$27,922,583
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	9.43%	10.45%	9.43%	9.55%	10.40%	7.80%	8.24%
Prior Service	2.69%	-2.09%	3.88%	9.02%	4.92%	10.49%	3.44%
Total Retirement	12.12%	8.36%	13.31%	18.57%	15.32%	18.29%	11.68%
Supplemental Death	0.12%	0.22%	0.17%	0.48%	0.26%	0.25%	0.00%
Total Rate	12.24%	8.58%	13.48%	19.05%	15.58%	18.54%	11.68%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	N/A	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	23.9 years	N/A	17.6 years	16.0 years	23.8 years	17.8 years	15.8 years
Number of annuitants	11	7	121	8	13	213	292
Number of active contributing members	24	12	202	8	18	255	397
Number of inactive members	20	1	57	3	14	166	202
Average age of contributing members	38.5 years	53.9 years	42.7 years	45.7 years	44.1 years	43.2 years	42.4 years
Average length of service of contributing members	9.5 years	16.5 years	12.4 years	14.3 years	9.8 years	11.2 years	12.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Hutchins	Hutto	Huxley	Idalou	Ingleside	Ingram	Iowa Colony
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$5,133,924	\$9,394,474	\$285,665	\$369,939	\$5,551,335	\$333,054	\$57,965
b. Noncontributing Members	2,015,813	4,995,006	139,274	271,609	1,609,530	83,381	11,936
c. Annuitants	<u>2,378,655</u>	<u>3,564,550</u>	<u>400,946</u>	<u>0</u>	<u>5,167,486</u>	<u>557,855</u>	<u>506,106</u>
2. Total Actuarial Accrued Liability	\$9,528,392	\$17,954,030	\$825,885	\$641,548	\$12,328,351	\$974,290	\$576,007
3. Actuarial value of assets	<u>8,718,150</u>	<u>17,628,494</u>	<u>973,758</u>	<u>631,639</u>	<u>12,361,371</u>	<u>846,870</u>	<u>507,869</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$810,242	\$325,536	(\$147,873)	\$9,909	(\$33,020)	\$127,420	\$68,138
5. Funded Ratio: (3) / (2)	91.5%	98.2%	117.9%	98.5%	100.3%	86.9%	88.2%
6. Annual Payroll	\$4,176,044	\$10,968,855	\$368,742	\$603,943	\$3,784,123	\$585,059	\$511,441
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	7.79%	11.98%	2.34%	3.96%	7.35%	6.16%	4.83%
Prior Service	<u>1.26%</u>	<u>0.19%</u>	<u>-1.56%</u>	<u>0.14%</u>	<u>-0.03%</u>	<u>1.77%</u>	<u>3.47%</u>
Total Retirement	9.05%	12.17%	0.78%	4.10%	7.32%	7.93%	8.30%
Supplemental Death	<u>0.13%</u>	<u>0.10%</u>	<u>0.33%</u>	<u>0.06%</u>	<u>0.30%</u>	<u>0.00%</u>	<u>0.13%</u>
Total Rate	9.18%	12.27%	1.11%	4.16%	7.62%	7.93%	8.43%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	11.50%	N/A	9.50%	N/A	11.50%	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	23.8 years	23.8 years	N/A	15.2 years	N/A	16.9 years	4.2 years
Number of annuitants	27	30	6	0	47	13	2
Number of active contributing members	71	171	10	12	89	13	11
Number of inactive members	66	122	7	16	77	12	5
Average age of contributing members	40.5 years	41.6 years	39.6 years	38.5 years	47.6 years	44.7 years	38.9 years
Average length of service of contributing members	9.3 years	7.0 years	8.6 years	10.8 years	9.9 years	6.8 years	4.5 years

	Iowa Park	Iraan	Irving	Italy	Itasca	Jacinto City	Jacksboro
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$4,487,625	\$816,484	\$362,543,636	\$153,260	\$1,201,415	\$6,728,439	\$2,764,192
b. Noncontributing Members	1,132,756	93,868	55,765,542	136,992	84,822	801,838	1,510,117
c. Annuitants	<u>3,754,033</u>	<u>706,396</u>	<u>383,478,687</u>	<u>361,844</u>	<u>866,824</u>	<u>2,543,309</u>	<u>3,538,127</u>
2. Total Actuarial Accrued Liability	\$9,374,414	\$1,616,748	\$801,787,865	\$652,096	\$2,153,061	\$10,073,586	\$7,812,436
3. Actuarial value of assets	<u>8,370,490</u>	<u>1,260,577</u>	<u>732,851,995</u>	<u>512,462</u>	<u>2,296,009</u>	<u>9,291,746</u>	<u>6,505,817</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,003,924	\$356,171	\$68,935,870	\$139,634	(\$142,948)	\$781,840	\$1,306,619
5. Funded Ratio: (3) / (2)	89.3%	78.0%	91.4%	78.6%	106.6%	92.2%	83.3%
6. Annual Payroll	\$1,888,369	\$285,257	\$113,998,687	\$786,430	\$716,796	\$2,985,820	\$1,956,474
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	7.29%	6.24%	9.71%	1.80%	11.79%	4.90%	10.19%
Prior Service	<u>5.96%</u>	<u>11.99%</u>	<u>5.00%</u>	<u>1.19%</u>	<u>-0.78%</u>	<u>2.63%</u>	<u>4.32%</u>
Total Retirement	13.25%	18.23%	14.71%	2.99%	11.01%	7.53%	14.51%
Supplemental Death	<u>0.28%</u>	<u>0.28%</u>	<u>0.22%</u>	<u>0.26%</u>	<u>0.27%</u>	<u>0.31%</u>	<u>0.31%</u>
Total Rate	13.53%	18.51%	14.93%	3.25%	11.28%	7.84%	14.82%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	13.50%	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	11.2 years	13.5 years	16.5 years	22.6 years	N/A	12.8 years	23.9 years
Number of annuitants	29	5	1,081	11	8	30	22
Number of active contributing members	44	6	1,514	18	16	72	41
Number of inactive members	35	4	584	26	26	37	50
Average age of contributing members	44.2 years	50.2 years	43.6 years	47.8 years	47.2 years	46.0 years	44.3 years
Average length of service of contributing members	9.5 years	12.2 years	12.8 years	6.7 years	7.1 years	9.5 years	7.7 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Jacksonville	Jasper	Jefferson	Jersey Village	Jewett	Joaquin	Johnson City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$12,064,839	\$14,373,349	\$1,004,912	\$9,210,866	\$462,458	\$141,473	\$1,078,281
b. Noncontributing Members	2,456,880	1,553,817	243,584	5,848,376	38,728	15,088	473,504
c. Annuitants	17,234,685	11,648,911	572,927	11,263,419	773,210	193,796	790,649
2. Total Actuarial Accrued Liability	\$31,756,404	\$27,576,077	\$1,821,423	\$26,322,661	\$1,274,396	\$350,357	\$2,342,434
3. Actuarial value of assets	28,553,202	25,709,590	2,047,478	22,803,461	1,054,659	271,315	1,982,439
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$3,203,202	\$1,866,487	(\$226,055)	\$3,519,200	\$219,737	\$79,042	\$359,995
5. Funded Ratio: (3) / (2)	89.9%	93.2%	112.4%	86.6%	82.8%	77.4%	84.6%
6. Annual Payroll	\$6,256,702	\$6,057,287	\$724,137	\$5,803,088	\$251,825	\$282,231	\$810,852
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	7.11%	5.25%	2.14%	9.85%	5.20%	2.00%	6.37%
Prior Service	3.57%	3.43%	-1.22%	3.90%	8.54%	2.57%	3.31%
Total Retirement	10.68%	8.68%	0.92%	13.75%	13.74%	4.57%	9.68%
Supplemental Death	0.31%	0.32%	0.40%	0.22%	0.17%	0.57%	0.14%
Total Rate	10.99%	9.00%	1.32%	13.97%	13.91%	5.14%	9.82%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	12.62%	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	15.50%	N/A	N/A	N/A	N/A	10.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	21.5 years	11.2 years	N/A	24.1 years	14.2 years	14.4 years	19.2 years
Number of annuitants	109	78	12	57	4	6	8
Number of active contributing members	118	122	17	95	5	7	14
Number of inactive members	91	53	28	100	2	3	13
Average age of contributing members	40.5 years	46.2 years	46.3 years	43.6 years	49.2 years	52.0 years	45.0 years
Average length of service of contributing members	9.3 years	11.1 years	10.0 years	8.2 years	13.3 years	6.5 years	8.8 years

	Jones Creek	Jonestown	Josephine	Joshua	Jourdanton	Junction	Justin
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$272,555	\$1,012,347	\$395,043	\$1,653,868	\$1,684,164	\$1,515,586	\$1,493,610
b. Noncontributing Members	2,407	361,336	92,117	1,300,751	304,931	178,136	678,009
c. Annuitants	249,198	549,177	0	853,547	1,136,012	2,713,811	356,816
2. Total Actuarial Accrued Liability	\$524,160	\$1,922,860	\$487,160	\$3,808,166	\$3,125,107	\$4,407,533	\$2,528,435
3. Actuarial value of assets	447,809	1,754,449	492,272	3,899,728	3,027,055	3,751,838	2,201,651
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$76,351	\$168,411	(\$5,112)	(\$91,562)	\$98,052	\$655,695	\$326,784
5. Funded Ratio: (3) / (2)	85.4%	91.2%	101.0%	102.4%	96.9%	85.1%	87.1%
6. Annual Payroll	\$383,566	\$1,367,447	\$562,562	\$1,881,750	\$1,492,258	\$988,964	\$1,994,819
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	3.06%	6.69%	5.95%	5.95%	5.36%	10.67%	6.47%
Prior Service	2.49%	0.83%	-0.04%	-0.19%	0.42%	4.28%	1.10%
Total Retirement	5.55%	7.52%	5.91%	5.76%	5.78%	14.95%	7.57%
Supplemental Death	0.30%	0.28%	0.06%	0.10%	0.44%	0.31%	0.00%
Total Rate	5.85%	7.80%	5.97%	5.86%	6.22%	15.26%	7.57%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	13.50%	9.50%	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	9.7 years	22.6 years	N/A	N/A	24.7 years	24.0 years	22.5 years
Number of annuitants	5	12	0	9	18	17	10
Number of active contributing members	9	27	12	35	38	24	39
Number of inactive members	2	17	4	50	30	17	33
Average age of contributing members	44.0 years	48.7 years	37.9 years	42.6 years	47.0 years	47.2 years	39.3 years
Average length of service of contributing members	10.6 years	7.4 years	8.8 years	9.3 years	10.1 years	5.6 years	6.2 years



**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Karnes City	Katy	Kaufman	Keene	Keller	Kemah	Kemp
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,813,355	\$32,515,573	\$7,098,972	\$2,296,110	\$53,280,477	\$2,746,955	\$458,909
b. Noncontributing Members	410,770	4,115,617	1,060,741	2,796,370	14,308,300	1,187,090	245,119
c. Annuitants	932,806	19,177,065	7,431,871	5,595,831	43,123,071	1,823,446	304,518
2. Total Actuarial Accrued Liability	\$3,156,931	\$55,808,255	\$15,591,584	\$10,688,311	\$110,711,848	\$5,757,491	\$1,008,546
3. Actuarial value of assets	2,581,115	50,324,893	13,307,615	9,575,921	94,091,295	5,618,463	1,042,006
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$575,816	\$5,483,362	\$2,283,969	\$1,112,390	\$16,620,553	\$139,028	(\$33,460)
5. Funded Ratio: (3) / (2)	81.8%	90.2%	85.4%	89.6%	85.0%	97.6%	103.3%
6. Annual Payroll	\$1,304,796	\$16,728,551	\$3,193,381	\$2,407,580	\$20,141,041	\$2,367,412	\$786,649
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	5.91%	11.48%	10.00%	8.91%	10.02%	5.87%	5.84%
Prior Service	2.86%	2.26%	4.86%	3.36%	6.05%	0.41%	-0.17%
Total Retirement	8.77%	13.74%	14.86%	12.27%	16.07%	6.28%	5.67%
Supplemental Death	0.19%	0.15%	0.23%	0.29%	0.15%	0.17%	0.00%
Total Rate	8.96%	13.89%	15.09%	12.56%	16.22%	6.45%	5.67%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	N/A	N/A	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	23.8 years	21.6 years	22.4 years	19.9 years	20.7 years	22.2 years	N/A
Number of annuitants	11	70	54	29	172	21	10
Number of active contributing members	25	250	63	45	289	35	21
Number of inactive members	15	84	47	64	216	34	23
Average age of contributing members	47.4 years	40.1 years	43.2 years	40.6 years	40.8 years	44.4 years	40.3 years
Average length of service of contributing members	11.0 years	8.2 years	11.8 years	6.6 years	11.6 years	11.6 years	4.4 years

	Kenedy	Kennedale	Kerens	Kermit	Kerrville	Kerrville PUB	Kilgore
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,192,614	\$6,768,404	\$281,409	\$6,008,549	\$39,388,780	\$11,764,952	\$19,421,080
b. Noncontributing Members	1,141,017	5,559,766	37,082	2,365,059	8,386,428	5,714,764	2,925,829
c. Annuitants	844,428	5,789,340	162,702	5,272,561	39,720,124	12,182,606	25,427,995
2. Total Actuarial Accrued Liability	\$3,178,059	\$18,117,510	\$481,193	\$13,646,169	\$87,495,332	\$29,662,322	\$47,774,904
3. Actuarial value of assets	2,986,401	16,340,651	216,429	10,778,018	79,738,677	27,740,511	42,849,733
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$191,658	\$1,776,859	\$264,764	\$2,868,151	\$7,756,655	\$1,921,811	\$4,925,171
5. Funded Ratio: (3) / (2)	94.0%	90.2%	45.0%	79.0%	91.1%	93.5%	89.7%
6. Annual Payroll	\$2,379,703	\$4,219,434	\$444,033	\$2,774,045	\$18,517,403	\$4,155,772	\$8,197,392
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	2.88%	10.65%	5.88%	9.00%	7.79%	8.77%	9.87%
Prior Service	0.52%	2.74%	6.17%	6.66%	2.68%	3.19%	3.97%
Total Retirement	3.40%	13.39%	12.05%	15.66%	10.47%	11.96%	13.84%
Supplemental Death	0.13%	0.25%	0.14%	0.31%	0.26%	0.23%	0.32%
Total Rate	3.53%	13.64%	12.19%	15.97%	10.73%	12.19%	14.16%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	7.50%	N/A	N/A	N/A	15.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	24.0 years	23.7 years	12.3 years	24.0 years	24.3 years	21.9 years	23.1 years
Number of annuitants	12	44	1	31	256	41	133
Number of active contributing members	51	71	11	56	307	53	160
Number of inactive members	56	114	5	109	200	29	94
Average age of contributing members	40.6 years	43.3 years	50.2 years	44.6 years	43.4 years	44.2 years	44.1 years
Average length of service of contributing members	6.6 years	10.8 years	9.0 years	7.0 years	10.1 years	11.4 years	9.4 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Killeen	Kingsville	Kirby	Kirbyville	Knox City	Kosse	Kountze
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$84,098,375	\$26,592,405	\$3,992,287	\$630,635	\$266,777	\$35,513	\$731,975
b. Noncontributing Members	15,979,165	7,295,921	1,240,974	211,593	129,837	27,007	103,061
c. Annuitants	106,491,950	31,859,086	4,556,314	1,319,727	270,772	0	181,416
2. Total Actuarial Accrued Liability	\$206,569,490	\$65,747,412	\$9,789,575	\$2,161,955	\$667,386	\$62,520	\$1,016,452
3. Actuarial value of assets	178,074,160	62,850,055	8,409,997	1,791,762	765,236	35,068	990,916
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$28,495,330	\$2,897,357	\$1,379,578	\$370,193	(\$97,850)	\$27,452	\$25,536
5. Funded Ratio: (3) / (2)	86.2%	95.6%	85.9%	82.9%	114.7%	56.1%	97.5%
6. Annual Payroll	\$47,692,266	\$12,229,782	\$2,592,021	\$923,978	\$362,184	\$170,790	\$1,058,521
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	5.46%	6.56%	11.08%	3.30%	3.78%	1.85%	1.44%
Prior Service	5.87%	1.81%	3.41%	2.61%	-1.05%	2.63%	0.16%
Total Retirement	11.33%	8.37%	14.49%	5.91%	2.73%	4.48%	1.60%
Supplemental Death	0.22%	0.00%	0.15%	0.60%	0.41%	0.12%	0.21%
Total Rate	11.55%	8.37%	14.64%	6.51%	3.14%	4.60%	1.81%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	N/A	N/A	7.50%	9.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	13.1 years	18.4 years	24.3 years	24.1 years	N/A	7.1 years	24.0 years
Number of annuitants	569	187	33	20	7	0	4
Number of active contributing members	917	265	59	25	9	5	24
Number of inactive members	581	177	90	32	10	1	53
Average age of contributing members	43.2 years	44.1 years	40.4 years	51.0 years	54.2 years	45.2 years	48.0 years
Average length of service of contributing members	11.4 years	9.6 years	8.5 years	5.6 years	11.8 years	3.2 years	7.1 years

	Kress	Krugerville	Krum	Kyle	La Coste	La Feria	La Grange
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$13,970	\$557,116	\$1,533,380	\$21,988,578	\$320,951	\$3,155,080	\$9,895,538
b. Noncontributing Members	6,639	81,311	733,288	2,354,334	751	840,989	1,709,021
c. Annuitants	238,172	90,119	172,687	4,349,849	88,282	4,141,628	5,754,026
2. Total Actuarial Accrued Liability	\$258,781	\$728,546	\$2,439,355	\$28,692,761	\$409,984	\$8,137,697	\$17,358,585
3. Actuarial value of assets	343,548	709,035	2,450,252	24,404,533	445,414	6,021,807	15,678,694
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$84,767)	\$19,511	(\$10,897)	\$4,288,228	(\$35,430)	\$2,115,890	\$1,679,891
5. Funded Ratio: (3) / (2)	132.8%	97.3%	100.4%	85.1%	108.6%	74.0%	90.3%
6. Annual Payroll	\$30,743	\$637,158	\$2,197,335	\$12,698,981	\$353,347	\$2,291,383	\$3,094,287
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	3.25%	7.43%	6.40%	10.80%	2.19%	7.81%	9.35%
Prior Service	-3.25%	0.31%	-0.02%	2.19%	-0.39%	7.90%	4.65%
Total Retirement	0.00%	7.74%	6.38%	12.99%	1.80%	15.71%	14.00%
Supplemental Death	0.00%	0.11%	0.11%	0.11%	0.00%	0.34%	0.31%
Total Rate	0.00%	7.85%	6.49%	13.10%	1.80%	16.05%	14.31%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	13.50%	13.50%	8.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	12.7 years	N/A	23.9 years	N/A	15.8 years	15.8 years
Number of annuitants	3	3	8	29	4	33	37
Number of active contributing members	1	8	41	222	9	60	65
Number of inactive members	1	5	33	114	1	54	39
Average age of contributing members	41.0 years	47.6 years	42.1 years	40.1 years	50.8 years	43.0 years	49.3 years
Average length of service of contributing members	4.7 years	12.3 years	9.7 years	8.1 years	10.8 years	7.5 years	11.6 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	La Grulla	La Joya	La Marque	La Porte	La Vernia	Lacy-Lakeview	Ladonia
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$386,277	\$638,025	\$12,112,928	\$79,563,154	\$365,494	\$5,728,166	\$36,262
b. Noncontributing Members	43,877	314,506	5,610,065	10,164,859	82,090	773,181	20,433
c. Annuitants	<u>284,893</u>	<u>735,707</u>	<u>13,451,353</u>	<u>82,775,662</u>	<u>230,376</u>	<u>3,021,857</u>	<u>39,815</u>
2. Total Actuarial Accrued Liability	\$715,047	\$1,688,238	\$31,174,346	\$172,503,675	\$677,960	\$9,523,204	\$96,510
3. Actuarial value of assets	<u>933,357</u>	<u>862,290</u>	<u>26,153,257</u>	<u>155,768,932</u>	<u>525,239</u>	<u>7,726,606</u>	<u>133,317</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$218,310)	\$825,948	\$5,021,089	\$16,734,743	\$152,721	\$1,796,598	(\$36,807)
5. Funded Ratio: (3) / (2)	130.5%	51.1%	83.9%	90.3%	77.5%	81.1%	138.1%
6. Annual Payroll	\$515,156	\$1,205,856	\$6,885,152	\$24,572,902	\$908,492	\$2,217,915	\$59,817
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	7.04%	1.50%	9.78%	9.10%	4.40%	9.67%	6.86%
Prior Service	<u>-1.65%</u>	<u>5.39%</u>	<u>4.77%</u>	<u>6.24%</u>	<u>1.12%</u>	<u>5.19%</u>	<u>-2.40%</u>
Total Retirement	5.39%	6.89%	14.55%	15.34%	5.52%	14.86%	4.46%
Supplemental Death	<u>0.43%</u>	<u>0.25%</u>	<u>0.21%</u>	<u>0.20%</u>	<u>0.16%</u>	<u>0.23%</u>	<u>0.43%</u>
Total Rate	5.82%	7.14%	14.76%	15.54%	5.68%	15.09%	4.89%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	4.28%
Statutory Maximum Rate (Total Retirement Only)	11.50%	N/A	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	17.7 years	24.6 years	14.4 years	22.7 years	24.3 years	N/A
Number of annuitants	8	10	96	236	4	24	3
Number of active contributing members	18	37	128	373	21	51	2
Number of inactive members	17	80	134	195	16	28	5
Average age of contributing members	44.2 years	45.8 years	40.0 years	42.5 years	43.6 years	42.2 years	49.4 years
Average length of service of contributing members	7.3 years	6.1 years	7.5 years	12.0 years	7.1 years	10.2 years	3.0 years

	Lago Vista	Laguna Vista	Lake Dallas	Lake Jackson	Lake Worth	Lakeport	Lakeside
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$7,020,781	\$711,549	\$1,341,246	\$35,144,985	\$12,274,576	\$163,219	\$1,487,913
b. Noncontributing Members	2,259,525	138,173	2,393,614	6,402,733	3,819,338	115,752	259,070
c. Annuitants	<u>2,795,960</u>	<u>0</u>	<u>5,931,769</u>	<u>28,170,011</u>	<u>8,736,059</u>	<u>26,113</u>	<u>88,971</u>
2. Total Actuarial Accrued Liability	\$12,076,266	\$849,722	\$9,666,629	\$69,717,729	\$24,829,973	\$305,084	\$1,835,954
3. Actuarial value of assets	<u>11,228,940</u>	<u>957,337</u>	<u>8,879,852</u>	<u>65,426,380</u>	<u>19,849,208</u>	<u>439,926</u>	<u>1,516,053</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$847,326	(\$107,615)	\$786,777	\$4,291,349	\$4,980,765	(\$134,842)	\$319,901
5. Funded Ratio: (3) / (2)	93.0%	112.7%	91.9%	93.8%	79.9%	144.2%	82.6%
6. Annual Payroll	\$4,646,098	\$801,830	\$1,944,131	\$12,653,794	\$5,858,512	\$219,431	\$914,531
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.61%	4.60%	10.77%	7.93%	10.56%	2.71%	8.35%
Prior Service	<u>1.25%</u>	<u>-0.52%</u>	<u>2.70%</u>	<u>3.48%</u>	<u>5.80%</u>	<u>-2.39%</u>	<u>2.56%</u>
Total Retirement	7.86%	4.08%	13.47%	11.41%	16.36%	0.32%	10.91%
Supplemental Death	<u>0.21%</u>	<u>0.12%</u>	<u>0.23%</u>	<u>0.24%</u>	<u>0.18%</u>	<u>0.14%</u>	<u>0.30%</u>
Total Rate	8.07%	4.20%	13.70%	11.65%	16.54%	0.46%	11.21%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	12.50%	N/A	13.50%	N/A	N/A	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	21.7 years	N/A	22.7 years	12.4 years	22.0 years	N/A	19.7 years
Number of annuitants	34	0	44	136	48	1	5
Number of active contributing members	96	17	35	234	99	6	18
Number of inactive members	50	12	50	183	65	3	20
Average age of contributing members	46.8 years	49.9 years	40.9 years	42.9 years	42.3 years	41.1 years	50.5 years
Average length of service of contributing members	8.3 years	8.2 years	7.1 years	10.3 years	10.0 years	7.3 years	15.6 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Lakeside City	Lakeway	Lamesa	Lampasas	Lancaster	Laredo	Lavon
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$135,631	\$15,215,147	\$5,644,181	\$15,930,104	\$34,971,305	\$390,370,682	\$833,342
b. Noncontributing Members	35,449	4,166,090	1,950,823	2,011,042	14,899,632	22,090,608	364,138
c. Annuitants	53,239	5,647,053	8,716,605	10,427,880	41,477,593	284,581,931	220,464
2. Total Actuarial Accrued Liability	\$224,319	\$25,028,290	\$16,311,609	\$28,369,026	\$91,348,530	\$697,043,221	\$1,417,944
3. Actuarial value of assets	222,669	20,623,277	16,558,646	23,786,077	76,964,139	549,526,917	1,342,430
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,650	\$4,405,013	(\$247,037)	\$4,582,949	\$14,384,391	\$147,516,304	\$75,514
5. Funded Ratio: (3) / (2)	99.3%	82.4%	101.5%	83.8%	84.3%	78.8%	94.7%
6. Annual Payroll	\$233,573	\$7,482,331	\$3,688,458	\$5,752,890	\$18,476,797	\$121,023,641	\$984,307
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.76%	9.82%	4.90%	9.90%	8.81%	10.29%	6.76%
Prior Service	0.09%	3.81%	-0.26%	5.64%	5.09%	10.74%	0.54%
Total Retirement	1.85%	13.63%	4.64%	15.54%	13.90%	21.03%	7.30%
Supplemental Death	0.30%	0.18%	0.00%	0.28%	0.17%	0.24%	0.14%
Total Rate	2.15%	13.81%	4.64%	15.82%	14.07%	21.27%	7.44%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	15.50%	13.50%	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	9.5 years	23.9 years	N/A	20.7 years	24.2 years	15.1 years	20.7 years
Number of annuitants	3	60	58	67	202	1,089	4
Number of active contributing members	5	113	75	119	264	2,273	19
Number of inactive members	3	99	71	70	254	622	17
Average age of contributing members	46.9 years	44.7 years	45.6 years	43.1 years	40.5 years	43.5 years	45.3 years
Average length of service of contributing members	10.0 years	9.2 years	7.2 years	10.4 years	8.2 years	10.6 years	9.0 years

	League City	Leander	Lefors	Leon Valley	Leonard	Levelland	Lewisville
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$87,696,378	\$32,886,368	\$60,666	\$15,452,721	\$215,756	\$12,876,235	\$163,477,596
b. Noncontributing Members	14,770,677	4,384,925	19,160	6,525,267	251,215	3,293,698	22,280,511
c. Annuitants	60,139,077	7,055,244	0	25,409,096	377,879	13,413,465	149,142,125
2. Total Actuarial Accrued Liability	\$162,606,132	\$44,326,537	\$79,826	\$47,387,084	\$844,850	\$29,583,398	\$334,900,232
3. Actuarial value of assets	138,725,298	37,032,973	68,356	41,276,188	948,958	28,497,849	290,509,007
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$23,880,834	\$7,293,564	\$11,470	\$6,110,896	(\$104,108)	\$1,085,549	\$44,391,225
5. Funded Ratio: (3) / (2)	85.3%	83.5%	85.6%	87.1%	112.3%	96.3%	86.7%
6. Annual Payroll	\$36,184,258	\$20,678,966	\$121,768	\$6,846,206	\$658,278	\$5,290,535	\$58,844,804
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	9.64%	9.76%	1.27%	11.05%	1.50%	8.77%	10.45%
Prior Service	5.04%	2.26%	2.38%	6.60%	-0.62%	1.83%	6.26%
Total Retirement	14.68%	12.02%	3.65%	17.65%	0.88%	10.60%	16.71%
Supplemental Death	0.17%	0.12%	0.05%	0.25%	0.25%	0.21%	0.00%
Total Rate	14.85%	12.14%	3.70%	17.90%	1.13%	10.81%	16.71%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	15.50%	13.50%	N/A	N/A	9.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	18.5 years	24.2 years	4.4 years	19.4 years	N/A	14.9 years	16.4 years
Number of annuitants	246	61	0	107	8	55	460
Number of active contributing members	556	315	4	115	15	95	805
Number of inactive members	276	117	12	74	19	37	393
Average age of contributing members	41.6 years	41.4 years	35.4 years	43.9 years	38.9 years	42.2 years	40.7 years
Average length of service of contributing members	9.5 years	8.5 years	4.5 years	11.7 years	6.0 years	10.9 years	11.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Lexington	Liberty	Liberty Hill	Lindale	Linden	Lindsay	Lipan
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$209,332	\$7,779,170	\$990,372	\$5,036,540	\$399,173	\$20,161	\$199,489
b. Noncontributing Members	390,886	2,190,327	290,661	927,435	89,745	0	2,932
c. Annuitants	1,362,404	7,115,261	104,821	3,204,124	396,309	0	0
2. Total Actuarial Accrued Liability	\$1,962,622	\$17,084,758	\$1,385,854	\$9,168,099	\$885,227	\$20,161	\$202,421
3. Actuarial value of assets	1,756,212	12,407,017	1,311,194	6,832,868	945,902	13,356	197,513
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$206,410	\$4,677,741	\$74,660	\$2,335,231	(\$60,675)	\$6,805	\$4,908
5. Funded Ratio: (3) / (2)	89.5%	72.6%	94.6%	74.5%	106.9%	66.2%	97.6%
6. Annual Payroll	\$487,523	\$4,929,183	\$2,170,058	\$2,726,374	\$608,512	\$154,734	\$158,986
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.86%	5.32%	6.80%	8.37%	1.40%	4.27%	1.76%
Prior Service	2.96%	11.21%	0.23%	6.79%	-0.39%	0.59%	0.56%
Total Retirement	9.82%	16.53%	7.03%	15.16%	1.01%	4.86%	2.32%
Supplemental Death	0.00%	0.00%	0.12%	0.00%	0.34%	0.13%	0.18%
Total Rate	9.82%	16.53%	7.15%	15.16%	1.35%	4.99%	2.50%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	7.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	21.1 years	10.9 years	22.7 years	17.6 years	N/A	9.0 years	6.3 years
Number of annuitants	10	45	2	13	8	0	0
Number of active contributing members	12	102	42	54	16	4	4
Number of inactive members	22	132	16	32	11	0	1
Average age of contributing members	43.3 years	42.5 years	44.7 years	43.7 years	45.0 years	52.9 years	56.7 years
Average length of service of contributing members	4.0 years	9.4 years	5.8 years	8.4 years	6.7 years	1.3 years	13.3 years

	Little Elm	Littlefield	Live Oak	Liverpool	Livingston	Llano	Lockhart
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$31,600,675	\$3,463,056	\$24,198,333	\$75,602	\$17,209,921	\$4,581,145	\$17,067,303
b. Noncontributing Members	5,884,828	1,763,409	5,637,663	23,349	1,019,113	755,163	4,779,835
c. Annuitants	6,729,918	3,722,371	16,760,102	0	12,011,268	3,476,085	13,914,870
2. Total Actuarial Accrued Liability	\$44,215,421	\$8,948,836	\$46,596,098	\$98,951	\$30,240,302	\$8,812,393	\$35,762,008
3. Actuarial value of assets	37,484,069	8,481,858	39,810,445	97,422	26,404,470	7,012,992	31,268,347
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$6,731,352	\$466,978	\$6,785,653	\$1,529	\$3,835,832	\$1,799,401	\$4,493,661
5. Funded Ratio: (3) / (2)	84.8%	94.8%	85.4%	98.5%	87.3%	79.6%	87.4%
6. Annual Payroll	\$18,255,089	\$2,452,426	\$7,053,207	\$235,760	\$4,635,631	\$2,430,874	\$6,723,506
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	11.00%	6.37%	10.61%	1.74%	8.96%	7.69%	7.19%
Prior Service	2.42%	1.52%	7.53%	0.09%	7.24%	5.76%	5.28%
Total Retirement	13.42%	7.89%	18.14%	1.83%	16.20%	13.45%	12.47%
Supplemental Death	0.11%	0.38%	0.21%	0.14%	0.26%	0.46%	0.27%
Total Rate	13.53%	8.27%	18.35%	1.97%	16.46%	13.91%	12.74%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	16.43%	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	11.50%	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	23.3 years	17.3 years	17.9 years	9.1 years	15.3 years	18.2 years	17.6 years
Number of annuitants	52	44	75	0	44	42	80
Number of active contributing members	270	57	115	5	84	47	138
Number of inactive members	162	54	70	3	14	27	119
Average age of contributing members	40.5 years	41.8 years	44.0 years	44.3 years	44.6 years	47.8 years	43.1 years
Average length of service of contributing members	8.8 years	8.8 years	14.0 years	3.8 years	11.9 years	9.0 years	10.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Lockney	Lone Star	Longview	Loraine	Lorena	Lorenzo	Los Fresnos
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$99,399	\$568,486	\$84,014,910	\$8,397	\$1,133,505	\$92,523	\$3,651,844
b. Noncontributing Members	65,232	303,910	12,522,393	60,866	347,070	79,490	558,629
c. Annuitants	284,024	644,667	93,631,435	42,721	408,848	213,008	1,058,138
2. Total Actuarial Accrued Liability	\$448,655	\$1,517,063	\$190,168,738	\$111,984	\$1,889,423	\$385,021	\$5,268,611
3. Actuarial value of assets	815,266	1,632,869	173,303,280	124,416	1,699,991	591,298	4,460,388
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$366,611)	(\$115,806)	\$16,865,458	(\$12,432)	\$189,432	(\$206,277)	\$808,223
5. Funded Ratio: (3) / (2)	181.7%	107.6%	91.1%	111.1%	90.0%	153.6%	84.7%
6. Annual Payroll	\$280,782	\$460,860	\$35,056,083	\$93,188	\$736,160	\$219,557	\$2,205,131
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	2.54%	3.19%	7.42%	3.21%	8.77%	5.60%	4.84%
Prior Service	-2.54%	-0.98%	3.78%	-0.52%	1.77%	-3.66%	2.41%
Total Retirement	0.00%	2.21%	11.20%	2.69%	10.54%	1.94%	7.25%
Supplemental Death	0.24%	0.27%	0.31%	0.07%	0.18%	0.00%	0.19%
Total Rate	0.24%	2.48%	11.51%	2.76%	10.72%	1.94%	7.44%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	7.50%	7.50%	15.50%	N/A	12.50%	9.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	N/A	17.7 years	N/A	21.6 years	N/A	23.2 years
Number of annuitants	3	8	527	2	10	6	16
Number of active contributing members	7	10	652	3	19	6	59
Number of inactive members	4	14	335	6	10	6	36
Average age of contributing members	47.4 years	40.3 years	43.3 years	38.9 years	46.1 years	42.9 years	41.3 years
Average length of service of contributing members	3.7 years	9.3 years	10.0 years	1.0 years	10.4 years	3.8 years	9.8 years

	Lott	Lovelady	Lubbock	Lucas	Lufkin	Luling	Lumberton
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$162,605	\$93,333	\$305,939,493	\$3,200,582	\$50,327,994	\$5,463,094	\$7,390,590
b. Noncontributing Members	47,728	0	45,646,739	559,032	7,467,276	1,057,494	405,738
c. Annuitants	26,345	11,152	404,291,660	1,304,264	50,455,510	3,444,619	3,622,495
2. Total Actuarial Accrued Liability	\$236,678	\$104,485	\$755,877,892	\$5,063,878	\$108,250,780	\$9,965,207	\$11,418,823
3. Actuarial value of assets	252,603	97,577	651,083,015	4,290,837	91,727,516	9,721,185	9,744,296
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$15,925)	\$6,908	\$104,794,877	\$773,041	\$16,523,264	\$244,022	\$1,674,527
5. Funded Ratio: (3) / (2)	106.7%	93.4%	86.1%	84.7%	84.7%	97.6%	85.3%
6. Annual Payroll	\$359,386	\$125,278	\$108,717,380	\$2,552,348	\$17,640,379	\$3,926,371	\$2,472,836
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.50%	6.16%	10.01%	10.61%	8.67%	5.85%	10.30%
Prior Service	-0.17%	1.46%	7.46%	2.08%	7.73%	0.48%	5.44%
Total Retirement	1.33%	7.62%	17.47%	12.69%	16.40%	6.33%	15.74%
Supplemental Death	0.12%	0.21%	0.00%	0.10%	0.29%	0.40%	0.28%
Total Rate	1.45%	7.83%	17.47%	12.79%	16.69%	6.73%	16.02%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	15.50%	N/A	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	4.1 years	18.2 years	21.6 years	16.6 years	18.2 years	17.2 years
Number of annuitants	4	1	1,409	20	246	42	25
Number of active contributing members	8	3	1,819	39	354	90	43
Number of inactive members	22	0	848	17	189	64	11
Average age of contributing members	40.2 years	41.7 years	43.5 years	40.9 years	43.5 years	44.5 years	46.5 years
Average length of service of contributing members	4.3 years	5.7 years	10.3 years	7.3 years	10.2 years	9.1 years	10.6 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Lyford	Lyle	Madisonville	Magnolia	Malakoff	Manor	Mansfield
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$552,878	\$3,921,210	\$2,432,003	\$862,467	\$2,145,268	\$4,372,186	\$116,376,300
b. Noncontributing Members	13,399	53,048	461,680	369,509	232,542	481,875	10,900,590
c. Annuitants	79,867	214,548	1,945,445	422,037	668,666	579,827	61,631,007
2. Total Actuarial Accrued Liability	\$646,144	\$4,188,806	\$4,839,128	\$1,654,013	\$3,046,476	\$5,433,888	\$188,907,897
3. Actuarial value of assets	571,339	3,544,339	4,251,761	1,719,046	2,732,150	4,010,583	163,320,180
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$74,805	\$644,467	\$587,367	(\$65,033)	\$314,326	\$1,423,305	\$25,587,717
5. Funded Ratio: (3) / (2)	88.4%	84.6%	87.9%	103.9%	89.7%	73.8%	86.5%
6. Annual Payroll	\$472,067	\$1,261,814	\$1,604,860	\$1,588,387	\$1,428,288	\$4,385,072	\$38,645,682
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.25%	6.56%	6.62%	4.97%	5.95%	5.70%	11.38%
Prior Service	1.58%	4.03%	2.66%	-0.16%	1.49%	3.06%	4.67%
Total Retirement	2.83%	10.59%	9.28%	4.81%	7.44%	8.76%	16.05%
Supplemental Death	0.00%	0.16%	0.44%	0.21%	0.27%	0.09%	0.14%
Total Rate	2.83%	10.75%	9.72%	5.02%	7.71%	8.85%	16.19%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	11.50%	11.50%	12.50%	13.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	12.9 years	17.6 years	19.9 years	N/A	22.2 years	13.8 years	20.8 years
Number of annuitants	2	3	24	13	15	9	206
Number of active contributing members	13	24	36	31	26	79	509
Number of inactive members	10	8	34	30	11	37	184
Average age of contributing members	48.0 years	46.5 years	44.0 years	43.4 years	50.3 years	38.2 years	41.8 years
Average length of service of contributing members	13.0 years	11.8 years	8.7 years	6.8 years	10.8 years	7.8 years	11.7 years

	Manvel	Marble Falls	Marfa	Marion	Marlin	Marquez	Marshall
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,434,579	\$13,934,195	\$1,692,556	\$468,481	\$1,404,412	\$125,155	\$21,648,129
b. Noncontributing Members	418,435	3,022,788	319,105	85,990	1,217,823	0	3,869,374
c. Annuitants	693,344	10,038,214	1,104,233	407,003	2,921,294	0	35,134,877
2. Total Actuarial Accrued Liability	\$4,546,358	\$26,995,197	\$3,115,894	\$961,474	\$5,543,529	\$125,155	\$60,652,380
3. Actuarial value of assets	3,466,113	24,048,754	3,434,970	1,135,367	5,089,556	24,970	53,343,255
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,080,245	\$2,946,443	(\$319,076)	(\$173,893)	\$453,973	\$100,185	\$7,309,125
5. Funded Ratio: (3) / (2)	76.2%	89.1%	110.2%	118.1%	91.8%	20.0%	87.9%
6. Annual Payroll	\$3,055,520	\$7,512,572	\$1,822,612	\$463,801	\$2,038,301	\$103,028	\$9,007,503
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	5.96%	7.94%	3.88%	6.19%	6.59%	2.09%	10.00%
Prior Service	4.01%	2.66%	-0.68%	-1.46%	1.44%	16.00%	6.23%
Total Retirement	9.97%	10.60%	3.20%	4.73%	8.03%	18.09%	16.23%
Supplemental Death	0.12%	0.23%	0.37%	0.52%	0.49%	0.17%	0.38%
Total Rate	10.09%	10.83%	3.57%	5.25%	8.52%	18.26%	16.61%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	4.98%	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	13.50%	11.50%	11.50%	11.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	10.9 years	23.4 years	N/A	N/A	24.0 years	7.0 years	19.7 years
Number of annuitants	10	88	20	7	53	0	184
Number of active contributing members	54	118	41	10	48	3	194
Number of inactive members	37	67	32	13	105	0	86
Average age of contributing members	41.7 years	41.8 years	48.1 years	50.1 years	43.5 years	58.4 years	45.1 years
Average length of service of contributing members	7.6 years	10.0 years	6.6 years	10.3 years	5.0 years	12.0 years	9.8 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Mart	Martindale	Mason	Matador	Mathis	Maud	Maypearl
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$348,509	\$122,164	\$1,575,234	\$62,953	\$1,029,951	\$97,520	\$84,731
b. Noncontributing Members	457,648	94,089	364,726	38,375	821,003	76,951	108,232
c. Annuitants	514,338	12,361	1,918,403	141,958	1,343,099	0	48,422
2. Total Actuarial Accrued Liability	\$1,320,495	\$228,614	\$3,858,363	\$243,286	\$3,194,053	\$174,471	\$241,385
3. Actuarial value of assets	1,641,243	199,276	3,629,565	209,603	3,915,288	144,638	261,096
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$320,748)	\$29,338	\$228,798	\$33,683	(\$721,235)	\$29,833	(\$19,711)
5. Funded Ratio: (3) / (2)	124.3%	87.2%	94.1%	86.2%	122.6%	82.9%	108.2%
6. Annual Payroll	\$571,042	\$157,711	\$1,272,514	\$134,373	\$2,093,883	\$278,383	\$171,242
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	5.29%	5.84%	4.36%	2.22%	5.67%	2.26%	1.65%
Prior Service	-2.19%	4.46%	1.76%	5.21%	-1.34%	1.23%	-0.45%
Total Retirement	3.10%	10.30%	6.12%	7.43%	4.33%	3.49%	1.20%
Supplemental Death	0.39%	0.15%	0.41%	0.35%	0.36%	0.19%	0.24%
Total Rate	3.49%	10.45%	6.53%	7.78%	4.69%	3.68%	1.44%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	2.92%	N/A	N/A	N/A	4.58%	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	9.50%	N/A	9.50%	N/A	13.50%	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	4.6 years	13.2 years	5.5 years	N/A	10.8 years	N/A
Number of annuitants	10	1	16	2	29	0	3
Number of active contributing members	14	4	28	4	51	7	4
Number of inactive members	32	6	12	2	109	13	14
Average age of contributing members	45.7 years	54.8 years	44.0 years	50.8 years	41.9 years	43.5 years	43.4 years
Average length of service of contributing members	5.2 years	7.0 years	7.7 years	9.7 years	4.1 years	6.0 years	8.0 years

	McAllen	McCamey	McGregor	McKinney	McLean	McLendon-Chisholm	Meadow
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$163,941,611	\$1,746,174	\$4,438,045	\$205,438,718	\$256,353	\$49,001	\$88,137
b. Noncontributing Members	28,167,349	3,062	1,292,329	37,132,047	101,610	20,686	2,310
c. Annuitants	106,535,123	216,515	2,727,584	87,930,667	162,059	78,837	0
2. Total Actuarial Accrued Liability	\$298,644,083	\$1,965,751	\$8,457,958	\$330,501,432	\$520,022	\$148,524	\$90,447
3. Actuarial value of assets	274,623,425	2,069,184	7,893,549	283,553,508	511,673	193,014	60,789
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$24,020,658	(\$103,433)	\$564,409	\$46,947,924	\$8,349	(\$44,490)	\$29,658
5. Funded Ratio: (3) / (2)	92.0%	105.3%	93.3%	85.8%	98.4%	130.0%	67.2%
6. Annual Payroll	\$76,635,648	\$616,253	\$2,924,752	\$87,703,209	\$242,678	\$502,194	\$173,747
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.47%	3.01%	8.41%	11.48%	1.97%	1.91%	1.76%
Prior Service	3.72%	-0.65%	1.25%	3.45%	0.48%	-0.34%	2.47%
Total Retirement	8.19%	2.36%	9.66%	14.93%	2.45%	1.57%	4.23%
Supplemental Death	0.00%	0.11%	0.32%	0.11%	0.31%	0.12%	0.10%
Total Rate	8.19%	2.47%	9.98%	15.04%	2.76%	1.69%	4.33%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	2.42%	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	9.50%	12.50%	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	10.3 years	N/A	23.8 years	24.0 years	8.4 years	N/A	8.1 years
Number of annuitants	589	3	35	342	3	2	0
Number of active contributing members	1,618	13	56	1,155	5	7	6
Number of inactive members	481	2	47	492	5	1	7
Average age of contributing members	41.9 years	44.2 years	45.8 years	41.4 years	57.7 years	39.6 years	44.4 years
Average length of service of contributing members	10.0 years	11.3 years	10.4 years	10.6 years	11.4 years	8.0 years	5.5 years



**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Meadowlakes	Meadows Place	Melissa	Memorial Villages PD	Memphis	Menard	Mercedes
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$543,162	\$3,093,311	\$4,538,315	\$4,605,131	\$1,547,122	\$113,048	\$7,149,893
b. Noncontributing Members	147,955	1,373,046	517,439	1,461,136	43,621	240,973	2,267,330
c. Annuitants	9,684	3,562,236	1,360,287	9,572,705	1,397,302	1,208,841	13,295,480
2. Total Actuarial Accrued Liability	\$700,801	\$8,028,593	\$6,416,041	\$15,638,972	\$2,988,045	\$1,562,862	\$22,712,703
3. Actuarial value of assets	727,731	7,256,073	4,867,967	12,885,380	2,669,461	1,914,678	18,927,343
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$26,930)	\$772,520	\$1,548,074	\$2,753,592	\$318,584	(\$351,816)	\$3,785,360
5. Funded Ratio: (3) / (2)	103.8%	90.4%	75.9%	82.4%	89.3%	122.5%	83.3%
6. Annual Payroll	\$1,114,932	\$1,791,729	\$3,207,352	\$3,453,524	\$595,951	\$304,972	\$4,857,864
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	2.49%	5.86%	9.36%	6.18%	6.79%	3.50%	10.55%
Prior Service	-0.09%	4.30%	3.27%	5.13%	3.67%	-3.50%	6.18%
Total Retirement	2.40%	10.16%	12.63%	11.31%	10.46%	0.00%	16.73%
Supplemental Death	0.22%	0.18%	0.14%	0.24%	0.27%	0.00%	0.21%
Total Rate	2.62%	10.34%	12.77%	11.55%	10.73%	0.00%	16.94%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	13.50%	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	12.9 years	22.2 years	24.1 years	21.8 years	N/A	17.5 years
Number of annuitants	1	18	16	40	8	6	65
Number of active contributing members	26	30	56	43	19	9	126
Number of inactive members	10	31	48	24	10	9	90
Average age of contributing members	50.5 years	44.4 years	42.0 years	45.0 years	47.8 years	46.2 years	40.8 years
Average length of service of contributing members	3.3 years	10.0 years	9.8 years	12.6 years	10.4 years	5.2 years	7.4 years

	Meridian	Merkel	Mertzton	Mesquite	Mexia	Miami	Midland
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$712,943	\$684,425	\$85,773	\$232,981,151	\$8,430,499	\$184,373	\$118,036,553
b. Noncontributing Members	20,408	230,432	157,343	24,836,574	2,678,251	0	26,109,593
c. Annuitants	92,458	915,404	256,048	265,762,416	7,309,898	0	197,587,372
2. Total Actuarial Accrued Liability	\$825,809	\$1,830,261	\$499,164	\$523,580,141	\$18,418,648	\$184,373	\$341,733,518
3. Actuarial value of assets	910,284	1,514,710	284,792	456,258,800	17,229,326	140,196	300,807,016
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$84,475)	\$315,551	\$214,372	\$67,321,341	\$1,189,322	\$44,177	\$40,926,502
5. Funded Ratio: (3) / (2)	110.2%	82.8%	57.1%	87.1%	93.5%	76.0%	88.0%
6. Annual Payroll	\$480,872	\$536,824	\$230,943	\$80,861,885	\$4,193,258	\$100,812	\$50,641,677
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.03%	9.81%	4.51%	8.42%	9.99%	2.52%	8.25%
Prior Service	-0.68%	4.06%	6.55%	9.22%	1.84%	8.24%	6.28%
Total Retirement	3.35%	13.87%	11.06%	17.64%	11.83%	10.76%	14.53%
Supplemental Death	0.13%	0.25%	0.20%	0.00%	0.30%	0.29%	0.28%
Total Rate	3.48%	14.12%	11.26%	17.64%	12.13%	11.05%	14.81%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	11.50%	N/A	N/A	N/A	13.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	21.5 years	20.8 years	11.3 years	24.1 years	6.0 years	18.0 years
Number of annuitants	2	8	2	835	61	0	646
Number of active contributing members	11	15	6	1,120	97	3	751
Number of inactive members	8	19	11	470	95	0	688
Average age of contributing members	43.4 years	44.1 years	39.7 years	42.8 years	43.6 years	63.5 years	41.2 years
Average length of service of contributing members	9.3 years	4.8 years	2.8 years	11.6 years	7.9 years	13.4 years	8.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM  
ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Midlothian	Milano	Miles	Milford	Mineola	Mineral Wells	Mission
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$31,661,688	\$29,562	\$65,686	\$220,106	\$2,977,256	\$11,638,980	\$64,137,761
b. Noncontributing Members	6,941,722	0	159,072	73,677	854,962	3,314,395	6,686,565
c. Annuitants	17,402,554	0	43,219	566,919	3,486,523	20,468,946	32,861,324
2. Total Actuarial Accrued Liability	\$56,005,964	\$29,562	\$267,977	\$860,702	\$7,318,741	\$35,422,321	\$103,685,650
3. Actuarial value of assets	46,668,877	22,031	348,518	757,791	7,541,149	33,309,076	93,714,268
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$9,337,087	\$7,531	(\$80,541)	\$102,911	(\$222,408)	\$2,113,245	\$9,971,382
5. Funded Ratio: (3) / (2)	83.3%	74.5%	130.1%	88.0%	103.0%	94.0%	90.4%
6. Annual Payroll	\$16,846,697	\$33,722	\$146,485	\$281,095	\$2,341,256	\$9,029,239	\$32,716,226
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	11.44%	3.34%	2.02%	3.13%	5.42%	6.47%	6.71%
Prior Service	3.56%	8.44%	-2.02%	5.41%	-0.37%	2.11%	2.04%
Total Retirement	15.00%	11.78%	0.00%	8.54%	5.05%	8.58%	8.75%
Supplemental Death	0.15%	0.41%	0.16%	0.29%	0.23%	0.32%	0.17%
Total Rate	15.15%	12.19%	0.16%	8.83%	5.28%	8.90%	8.92%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	7.50%	N/A	11.50%	11.50%	12.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	24.2 years	2.8 years	N/A	8.3 years	N/A	14.7 years	22.7 years
Number of annuitants	101	0	1	6	31	127	217
Number of active contributing members	261	1	5	7	51	183	695
Number of inactive members	121	0	9	9	41	112	369
Average age of contributing members	40.3 years	70.2 years	45.4 years	34.9 years	43.6 years	43.3 years	42.8 years
Average length of service of contributing members	9.8 years	10.3 years	8.7 years	4.8 years	9.6 years	8.1 years	10.0 years

	Missouri City	Monahans	Mont Belvieu	Montgomery	Moody	Morgan's Point	Morgan's Point Resort
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$47,171,667	\$8,392,310	\$11,730,392	\$693,326	\$362,115	\$1,671,311	\$2,008,071
b. Noncontributing Members	15,695,562	1,424,271	2,540,544	375,123	14,439	527,213	730,255
c. Annuitants	53,976,994	5,121,454	10,413,164	468,703	507,503	2,634,418	1,478,750
2. Total Actuarial Accrued Liability	\$116,844,223	\$14,938,035	\$24,684,100	\$1,537,152	\$884,057	\$4,832,942	\$4,217,076
3. Actuarial value of assets	109,685,125	14,011,751	20,576,995	1,709,515	838,234	4,713,751	3,811,268
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$7,159,098	\$926,284	\$4,107,105	(\$172,363)	\$45,823	\$119,191	\$405,808
5. Funded Ratio: (3) / (2)	93.9%	93.8%	83.4%	111.2%	94.8%	97.5%	90.4%
6. Annual Payroll	\$25,216,058	\$4,058,963	\$8,003,262	\$1,498,968	\$494,722	\$891,201	\$1,396,465
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	5.26%	5.38%	10.60%	6.15%	1.35%	9.09%	9.99%
Prior Service	3.66%	1.73%	3.32%	-0.45%	0.88%	1.17%	1.86%
Total Retirement	8.92%	7.11%	13.92%	5.70%	2.23%	10.26%	11.85%
Supplemental Death	0.15%	0.22%	0.12%	0.00%	0.24%	0.09%	0.27%
Total Rate	9.07%	7.33%	14.04%	5.70%	2.47%	10.35%	12.12%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	15.50%	N/A	N/A	13.50%	7.50%	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	9.4 years	18.8 years	23.8 years	N/A	13.7 years	16.8 years	24.3 years
Number of annuitants	199	26	31	11	4	19	27
Number of active contributing members	346	64	124	26	11	13	29
Number of inactive members	203	50	34	23	12	3	16
Average age of contributing members	40.9 years	42.6 years	40.8 years	40.8 years	44.8 years	41.8 years	42.6 years
Average length of service of contributing members	10.2 years	10.5 years	7.1 years	6.6 years	9.6 years	11.6 years	6.8 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Morton	Moulton	Mount Enterprise	Mt. Pleasant	Mt. Vernon	Muenster	Muleshoe
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,871,630	\$549,655	\$1,951	\$22,663,577	\$2,364,958	\$534,170	\$5,416,275
b. Noncontributing Members	380,221	621,038	70,498	7,638,828	526,640	340,281	1,030,903
c. Annuitants	256,272	1,138,922	130,411	12,860,825	1,188,845	714,680	4,612,692
2. Total Actuarial Accrued Liability	\$2,508,123	\$2,309,615	\$202,860	\$43,163,230	\$4,080,443	\$1,589,131	\$11,059,870
3. Actuarial value of assets	2,712,311	2,363,503	214,279	36,956,521	3,686,671	1,919,976	9,212,843
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$204,188)	(\$53,888)	(\$11,419)	\$6,206,709	\$393,772	(\$330,845)	\$1,847,027
5. Funded Ratio: (3) / (2)	108.1%	102.3%	105.6%	85.6%	90.3%	120.8%	83.3%
6. Annual Payroll	\$380,516	\$519,174	\$67,112	\$8,503,355	\$1,024,444	\$554,323	\$1,372,265
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.42%	4.57%	2.35%	9.42%	8.76%	4.84%	9.08%
Prior Service	-2.09%	-0.40%	-0.66%	5.21%	2.63%	-2.32%	10.62%
Total Retirement	4.33%	4.17%	1.69%	14.63%	11.39%	2.52%	19.70%
Supplemental Death	0.25%	0.27%	0.23%	0.20%	0.40%	0.00%	0.33%
Total Rate	4.58%	4.44%	1.92%	14.83%	11.79%	2.52%	20.03%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	2.14%	19.93%
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	13.50%	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	N/A	N/A	20.5 years	21.9 years	N/A	17.9 years
Number of annuitants	3	13	1	96	17	9	28
Number of active contributing members	8	11	2	164	24	13	32
Number of inactive members	6	22	3	86	15	8	29
Average age of contributing members	51.5 years	44.7 years	48.8 years	42.0 years	45.1 years	51.7 years	44.3 years
Average length of service of contributing members	20.6 years	6.8 years	0.3 years	9.5 years	9.3 years	7.3 years	12.0 years

	Munday	Murphy	Nacogdoches	Naples	Nash	Nassau Bay	Natalia
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$157,830	\$13,484,525	\$50,620,440	\$114,765	\$2,787,168	\$6,389,637	\$198,748
b. Noncontributing Members	51,939	6,251,607	4,942,646	58,149	125,957	1,436,833	114,904
c. Annuitants	196,037	5,544,357	53,270,772	291,191	918,323	3,767,049	79,769
2. Total Actuarial Accrued Liability	\$405,806	\$25,280,489	\$108,833,858	\$464,105	\$3,831,448	\$11,593,519	\$393,421
3. Actuarial value of assets	331,093	22,056,397	95,441,255	588,546	2,520,068	9,191,808	353,323
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$74,713	\$3,224,092	\$13,392,603	(\$124,441)	\$1,311,380	\$2,401,711	\$40,098
5. Funded Ratio: (3) / (2)	81.6%	87.2%	87.7%	126.8%	65.8%	79.3%	89.8%
6. Annual Payroll	\$290,602	\$8,283,999	\$17,450,228	\$317,295	\$1,087,962	\$2,822,204	\$415,969
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.50%	11.71%	8.53%	2.92%	9.47%	9.36%	1.87%
Prior Service	1.94%	2.53%	5.78%	-1.53%	8.81%	5.64%	0.90%
Total Retirement	3.44%	14.24%	14.31%	1.39%	18.28%	15.00%	2.77%
Supplemental Death	0.30%	0.14%	0.29%	0.26%	0.23%	0.21%	0.19%
Total Rate	3.74%	14.38%	14.60%	1.65%	18.51%	15.21%	2.96%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	15.50%	N/A	9.50%	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	18.9 years	23.7 years	18.9 years	N/A	19.8 years	24.0 years	14.1 years
Number of annuitants	4	47	234	6	10	28	3
Number of active contributing members	7	120	295	9	20	41	12
Number of inactive members	6	107	138	13	8	34	16
Average age of contributing members	45.7 years	41.2 years	43.6 years	40.8 years	42.2 years	46.1 years	44.5 years
Average length of service of contributing members	8.5 years	11.3 years	12.5 years	5.3 years	9.3 years	15.4 years	6.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM  
ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Navasota	Nederland	Needville	New Boston	New Braunfels	New Braunfels Utilities	New Deal
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$6,134,861	\$26,073,401	\$1,825,833	\$1,411,021	\$110,291,344	\$49,834,221	\$206,311
b. Noncontributing Members	1,426,985	3,645,919	282,771	598,073	12,824,794	6,389,978	41,316
c. Annuitants	5,642,204	28,967,135	922,624	1,540,203	62,423,475	41,618,530	107,511
2. Total Actuarial Accrued Liability	\$13,204,050	\$58,686,455	\$3,031,228	\$3,549,297	\$185,539,613	\$97,842,729	\$355,138
3. Actuarial value of assets	13,450,932	60,539,925	2,975,335	4,210,737	147,198,352	81,211,112	411,994
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$246,882)	(\$1,853,470)	\$55,893	(\$661,440)	\$38,341,261	\$16,631,617	(\$56,856)
5. Funded Ratio: (3) / (2)	101.9%	103.2%	98.2%	118.6%	79.3%	83.0%	116.0%
6. Annual Payroll	\$3,349,985	\$8,850,024	\$946,575	\$1,501,446	\$42,537,240	\$20,180,697	\$222,747
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.09%	8.18%	3.47%	3.06%	11.11%	10.59%	1.86%
Prior Service	-0.29%	-0.82%	0.45%	-1.71%	5.81%	7.27%	-0.99%
Total Retirement	5.80%	7.36%	3.92%	1.35%	16.92%	17.86%	0.87%
Supplemental Death	0.28%	0.00%	0.48%	0.29%	0.16%	0.16%	0.00%
Total Rate	6.08%	7.36%	4.40%	1.64%	17.08%	18.02%	0.87%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	7.22%	N/A	N/A	N/A	17.95%	N/A
Statutory Maximum Rate (Total Retirement Only)	11.50%	N/A	9.50%	7.50%	N/A	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	N/A	18.8 years	N/A	24.0 years	15.1 years	N/A
Number of annuitants	49	106	11	15	280	128	2
Number of active contributing members	72	125	17	38	638	306	4
Number of inactive members	56	29	11	36	313	85	5
Average age of contributing members	42.2 years	43.9 years	55.0 years	47.7 years	41.5 years	41.3 years	50.1 years
Average length of service of contributing members	9.4 years	14.1 years	12.4 years	8.5 years	10.3 years	8.6 years	8.7 years

	New Fairview	New London	New Summerfield	New Waverly	Newark	Newton	Nixon
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$172,792	\$814,888	\$469,626	\$564,408	\$52,060	\$3,712,766	\$500,196
b. Noncontributing Members	0	129,917	92,449	0	3,448	90,662	152,768
c. Annuitants	15,415	202,290	58,186	275,346	31,237	3,144,575	201,085
2. Total Actuarial Accrued Liability	\$188,207	\$1,147,095	\$620,261	\$839,754	\$86,745	\$6,948,003	\$854,049
3. Actuarial value of assets	125,194	1,184,074	633,544	703,227	78,728	5,516,185	946,547
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$63,013	(\$36,979)	(\$13,283)	\$136,527	\$8,017	\$1,431,818	(\$92,498)
5. Funded Ratio: (3) / (2)	66.5%	103.2%	102.1%	83.7%	90.8%	79.4%	110.8%
6. Annual Payroll	\$82,199	\$368,476	\$382,137	\$211,432	\$281,525	\$1,083,074	\$715,503
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.09%	3.83%	7.75%	7.03%	1.71%	10.78%	1.17%
Prior Service	10.24%	-0.39%	-0.14%	9.44%	0.54%	10.68%	-0.50%
Total Retirement	11.33%	3.44%	7.61%	16.47%	2.25%	21.46%	0.67%
Supplemental Death	0.31%	0.00%	0.00%	0.36%	0.08%	0.32%	0.26%
Total Rate	11.64%	3.44%	7.61%	16.83%	2.33%	21.78%	0.93%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	7.50%	13.50%	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	9.0 years	N/A	N/A	8.2 years	6.0 years	17.1 years	N/A
Number of annuitants	1	4	5	3	1	14	7
Number of active contributing members	1	9	8	4	4	22	17
Number of inactive members	0	6	6	0	5	6	33
Average age of contributing members	39.5 years	49.7 years	47.9 years	57.6 years	43.0 years	42.6 years	43.1 years
Average length of service of contributing members	17.8 years	13.5 years	8.3 years	20.0 years	3.6 years	12.4 years	7.7 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Nocona	Nolanville	Normangee	North Richland Hills	Northlake	O'Donnell	Oak Point
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,844,028	\$142,849	\$49,482	\$114,398,794	\$3,255,085	\$85,590	\$1,920,697
b. Noncontributing Members	449,933	118,956	41,312	23,295,789	595,208	72,142	1,034,035
c. Annuitants	825,202	27,492	130,449	134,074,094	109,075	97,302	251,348
2. Total Actuarial Accrued Liability	\$3,119,163	\$289,297	\$221,243	\$271,768,677	\$3,959,368	\$255,034	\$3,206,080
3. Actuarial value of assets	2,746,061	248,403	307,302	244,109,034	3,512,075	223,220	2,927,250
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$373,102	\$40,894	(\$86,059)	\$27,659,643	\$447,293	\$31,814	\$278,830
5. Funded Ratio: (3) / (2)	88.0%	85.9%	138.9%	89.8%	88.7%	87.5%	91.3%
6. Annual Payroll	\$858,164	\$672,458	\$228,837	\$38,572,310	\$2,519,004	\$166,530	\$2,052,294
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.72%	1.51%	5.02%	11.32%	8.63%	1.50%	6.17%
Prior Service	3.55%	0.43%	-1.46%	5.51%	1.20%	3.59%	1.00%
Total Retirement	10.27%	1.94%	3.56%	16.83%	9.83%	5.09%	7.17%
Supplemental Death	0.37%	0.08%	0.29%	0.00%	0.11%	0.26%	0.11%
Total Rate	10.64%	2.02%	3.85%	16.83%	9.94%	5.35%	7.28%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	3.38%	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	11.50%	N/A	11.50%	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	18.7 years	20.5 years	N/A	18.3 years	22.3 years	6.2 years	19.6 years
Number of annuitants	16	2	2	407	4	2	8
Number of active contributing members	21	16	7	559	44	5	33
Number of inactive members	21	22	7	306	25	3	39
Average age of contributing members	51.3 years	39.3 years	48.1 years	42.2 years	38.0 years	48.7 years	40.8 years
Average length of service of contributing members	9.8 years	4.5 years	1.6 years	12.0 years	7.7 years	8.2 years	7.0 years

	Oak Ridge North	Odem	Odessa	Oglesby	Old River-Winfree	Olmos Park	Olney
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$7,317,852	\$357,442	\$108,749,775	\$13,612	\$47,507	\$1,445,347	\$681,447
b. Noncontributing Members	967,236	11,937	23,553,709	0	5,662	1,560,070	257,524
c. Annuitants	2,895,991	879,011	145,911,514	68,345	0	2,857,508	435,707
2. Total Actuarial Accrued Liability	\$11,181,079	\$1,248,390	\$278,214,998	\$81,957	\$53,169	\$5,862,925	\$1,374,678
3. Actuarial value of assets	10,135,073	939,438	245,446,934	80,870	78,939	6,207,372	1,307,706
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,046,006	\$308,952	\$32,768,064	\$1,087	(\$25,770)	(\$344,447)	\$66,972
5. Funded Ratio: (3) / (2)	90.6%	75.3%	88.2%	98.7%	148.5%	105.9%	95.1%
6. Annual Payroll	\$2,601,838	\$650,347	\$43,313,432	\$53,613	\$37,391	\$1,967,792	\$871,587
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	8.95%	4.76%	8.19%	1.10%	2.35%	3.67%	6.19%
Prior Service	2.61%	3.41%	5.68%	0.33%	-2.35%	-0.68%	0.57%
Total Retirement	11.56%	8.17%	13.87%	1.43%	0.00%	2.99%	6.76%
Supplemental Death	0.18%	0.46%	0.27%	0.39%	0.00%	0.00%	0.23%
Total Rate	11.74%	8.63%	14.14%	1.82%	0.00%	2.99%	6.99%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	7.50%	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	23.8 years	20.3 years	19.0 years	7.0 years	N/A	N/A	22.3 years
Number of annuitants	14	11	549	2	0	40	10
Number of active contributing members	40	18	694	2	1	37	21
Number of inactive members	32	7	522	0	1	73	15
Average age of contributing members	45.1 years	43.4 years	42.9 years	38.0 years	58.2 years	40.9 years	47.0 years
Average length of service of contributing members	12.1 years	4.9 years	9.4 years	4.3 years	13.6 years	7.7 years	7.4 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Omaha	Onalaska	Orange	Orange Grove	Ore City	Overton	Ovilla
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$105,156	\$241,760	\$34,552,038	\$579,438	\$119,018	\$709,991	\$1,709,992
b. Noncontributing Members	42,569	77,005	4,934,212	76,300	164,986	435,714	875,631
c. Annuitants	196,367	27,022	36,878,418	623,475	112,940	358,697	1,015,333
2. Total Actuarial Accrued Liability	\$344,092	\$345,787	\$76,364,668	\$1,279,213	\$396,944	\$1,504,402	\$3,600,956
3. Actuarial value of assets	279,757	423,717	70,304,318	1,354,997	423,398	1,704,501	3,279,148
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$64,335	(\$77,930)	\$6,060,350	(\$75,784)	(\$26,454)	(\$200,099)	\$321,808
5. Funded Ratio: (3) / (2)	81.3%	122.5%	92.1%	105.9%	106.7%	113.3%	91.1%
6. Annual Payroll	\$223,583	\$505,276	\$9,434,825	\$390,402	\$403,693	\$805,751	\$1,345,382
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.78%	3.02%	9.98%	8.88%	1.39%	4.75%	8.12%
Prior Service	3.13%	-0.60%	4.78%	-0.76%	-0.26%	-0.97%	1.60%
Total Retirement	4.91%	2.42%	14.76%	8.12%	1.13%	3.78%	9.72%
Supplemental Death	0.18%	0.20%	0.00%	0.20%	0.12%	0.24%	0.19%
Total Rate	5.09%	2.62%	14.76%	8.32%	1.25%	4.02%	9.91%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	7.90%	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	9.50%	N/A	12.50%	7.50%	12.50%	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	11.5 years	N/A	19.2 years	N/A	N/A	N/A	22.7 years
Number of annuitants	3	4	135	5	3	11	18
Number of active contributing members	6	12	156	11	10	22	25
Number of inactive members	2	17	57	13	6	27	37
Average age of contributing members	47.8 years	44.5 years	45.2 years	44.9 years	41.9 years	45.0 years	43.7 years
Average length of service of contributing members	5.8 years	4.6 years	13.1 years	7.2 years	3.7 years	7.8 years	9.0 years

	Oyster Creek	Paducah	Palacios	Palestine	Palmer	Palmhurst	Palmview
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$2,031,346	\$49,156	\$2,543,881	\$13,976,545	\$1,558,118	\$774,491	\$989,629
b. Noncontributing Members	286,765	168,886	1,736,135	5,932,761	565,721	185,809	682,496
c. Annuitants	1,326,147	994,147	2,630,923	28,120,828	418,937	58,510	330,936
2. Total Actuarial Accrued Liability	\$3,644,258	\$1,212,189	\$6,910,939	\$48,030,134	\$2,542,776	\$1,018,810	\$2,003,061
3. Actuarial value of assets	3,260,867	1,467,399	5,520,981	39,950,767	2,174,898	987,867	1,726,923
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$383,391	(\$255,210)	\$1,389,958	\$8,079,367	\$367,878	\$30,943	\$276,138
5. Funded Ratio: (3) / (2)	89.5%	121.1%	79.9%	83.2%	85.5%	97.0%	86.2%
6. Annual Payroll	\$1,168,662	\$190,753	\$1,561,332	\$8,415,682	\$1,185,183	\$1,129,722	\$3,152,839
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	8.85%	4.74%	10.22%	7.79%	9.03%	5.35%	1.10%
Prior Service	2.34%	-4.74%	6.54%	6.19%	2.03%	0.18%	0.62%
Total Retirement	11.19%	0.00%	16.76%	13.98%	11.06%	5.53%	1.72%
Supplemental Death	0.25%	0.55%	0.31%	0.31%	0.11%	0.10%	0.07%
Total Rate	11.44%	0.55%	17.07%	14.29%	11.17%	5.63%	1.79%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	9.50%	N/A	N/A	13.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	20.5 years	N/A	19.6 years	24.0 years	23.4 years	23.0 years	20.6 years
Number of annuitants	18	12	22	169	6	4	4
Number of active contributing members	23	8	37	164	22	27	66
Number of inactive members	8	8	45	161	31	39	48
Average age of contributing members	44.6 years	52.9 years	41.9 years	41.3 years	41.1 years	39.0 years	37.4 years
Average length of service of contributing members	8.6 years	3.7 years	7.0 years	8.2 years	5.2 years	6.0 years	5.6 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Pampa	Panhandle	Panorama Village	Pantego	Paris	Parker	Pasadena
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$18,678,317	\$1,631,992	\$1,110,387	\$2,961,956	\$30,842,276	\$1,803,887	\$236,796,688
b. Noncontributing Members	2,885,314	553,148	131,369	3,699,948	5,875,526	503,541	29,482,230
c. Annuitants	26,354,052	1,379,313	922,759	10,087,921	28,912,475	1,901,646	213,061,613
2. Total Actuarial Accrued Liability	\$47,917,683	\$3,564,453	\$2,164,515	\$16,749,825	\$65,630,277	\$4,209,074	\$479,340,531
3. Actuarial value of assets	35,995,911	3,039,820	2,168,786	14,515,177	63,734,198	3,202,782	451,475,642
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$11,921,772	\$524,633	(\$4,271)	\$2,234,648	\$1,896,079	\$1,006,292	\$27,864,889
5. Funded Ratio: (3) / (2)	75.1%	85.3%	100.2%	86.7%	97.1%	76.1%	94.2%
6. Annual Payroll	\$7,770,175	\$891,980	\$739,425	\$2,811,603	\$12,460,749	\$1,629,792	\$69,140,595
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	9.44%	6.97%	5.27%	10.76%	3.98%	8.33%	9.50%
Prior Service	12.35%	4.07%	-0.02%	5.10%	2.80%	4.90%	3.74%
Total Retirement	21.79%	11.04%	5.25%	15.86%	6.78%	13.23%	13.24%
Supplemental Death	0.41%	0.00%	0.39%	0.19%	0.36%	0.16%	0.30%
Total Rate	22.20%	11.04%	5.64%	16.05%	7.14%	13.39%	13.54%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	12.50%	N/A	N/A	13.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	17.2 years	21.7 years	N/A	24.2 years	6.2 years	17.5 years	14.1 years
Number of annuitants	152	12	14	59	227	12	766
Number of active contributing members	152	16	14	43	246	24	1,031
Number of inactive members	102	14	10	88	144	14	329
Average age of contributing members	41.6 years	48.0 years	50.0 years	43.7 years	44.7 years	42.6 years	44.0 years
Average length of service of contributing members	8.8 years	10.4 years	9.2 years	10.5 years	12.4 years	10.7 years	12.6 years

	Pearland	Pearsall	Pecos City	Pelican Bay	Penitas	Perryton	Pflugerville
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$102,661,876	\$2,768,224	\$7,730,464	\$248,651	\$617,770	\$14,347,546	\$35,566,633
b. Noncontributing Members	19,749,657	1,369,006	2,461,422	21,339	147,560	1,515,050	11,695,335
c. Annuitants	50,819,135	2,841,830	7,116,101	0	21,139	8,847,625	25,322,949
2. Total Actuarial Accrued Liability	\$173,230,668	\$6,979,060	\$17,307,987	\$269,990	\$786,469	\$24,710,221	\$72,584,917
3. Actuarial value of assets	148,291,074	6,472,536	16,840,369	112,065	587,532	23,220,745	61,229,051
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$24,939,594	\$506,524	\$467,618	\$157,925	\$198,937	\$1,489,476	\$11,355,866
5. Funded Ratio: (3) / (2)	85.6%	92.7%	97.3%	41.5%	74.7%	94.0%	84.4%
6. Annual Payroll	\$50,008,992	\$2,815,506	\$7,592,448	\$491,154	\$1,503,056	\$3,898,565	\$21,241,111
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	9.88%	3.14%	5.97%	1.28%	3.07%	7.93%	9.84%
Prior Service	3.22%	1.18%	0.40%	2.85%	0.90%	3.93%	3.45%
Total Retirement	13.10%	4.32%	6.37%	4.13%	3.97%	11.86%	13.29%
Supplemental Death	0.11%	0.22%	0.20%	0.07%	0.07%	0.34%	0.14%
Total Rate	13.21%	4.54%	6.57%	4.20%	4.04%	12.20%	13.43%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	15.50%	8.50%	11.50%	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	24.0 years	23.2 years	24.2 years	15.0 years	22.1 years	12.4 years	24.0 years
Number of annuitants	255	26	70	0	2	42	102
Number of active contributing members	713	70	143	14	37	78	331
Number of inactive members	315	70	125	11	32	66	224
Average age of contributing members	40.6 years	40.5 years	43.6 years	39.8 years	37.8 years	43.0 years	40.7 years
Average length of service of contributing members	9.1 years	7.3 years	6.5 years	4.9 years	5.0 years	10.6 years	8.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Pharr	Pilot Point	Pinehurst	Pineland	Piney Point Village	Pittsburg	Plains
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$47,406,148	\$2,552,724	\$2,988,858	\$374,211	\$284,981	\$3,800,430	\$1,281,438
b. Noncontributing Members	8,817,566	1,352,878	353,901	23,282	130,186	403,968	13,230
c. Annuitants	<u>35,627,621</u>	<u>1,815,100</u>	<u>3,356,212</u>	<u>1,814,559</u>	<u>287,768</u>	<u>4,486,718</u>	<u>718,261</u>
2. Total Actuarial Accrued Liability	\$91,851,335	\$5,720,702	\$6,698,971	\$2,212,052	\$702,935	\$8,691,116	\$2,012,929
3. Actuarial value of assets	<u>82,727,422</u>	<u>4,817,784</u>	<u>5,181,445</u>	<u>2,395,365</u>	<u>687,713</u>	<u>8,064,123</u>	<u>2,052,422</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$9,123,913	\$902,918	\$1,517,526	(\$183,313)	\$15,222	\$626,993	(\$39,493)
5. Funded Ratio: (3) / (2)	90.1%	84.2%	77.3%	108.3%	97.8%	92.8%	102.0%
6. Annual Payroll	\$31,228,717	\$2,787,572	\$1,195,184	\$441,374	\$445,127	\$1,621,938	\$393,086
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	5.09%	9.53%	11.51%	5.62%	6.32%	9.36%	4.98%
Prior Service	<u>2.38%</u>	<u>2.10%</u>	<u>8.27%</u>	<u>-1.62%</u>	<u>0.44%</u>	<u>3.45%</u>	<u>-0.39%</u>
Total Retirement	7.47%	11.63%	19.78%	4.00%	6.76%	12.81%	4.59%
Supplemental Death	<u>0.18%</u>	<u>0.15%</u>	<u>0.36%</u>	<u>0.42%</u>	<u>0.29%</u>	<u>0.32%</u>	<u>0.20%</u>
Total Rate	7.65%	11.78%	20.14%	4.42%	7.05%	13.13%	4.79%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	12.50%	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	16.9 years	23.8 years	24.0 years	N/A	9.3 years	14.9 years	N/A
Number of annuitants	240	22	30	8	6	22	6
Number of active contributing members	613	55	21	10	6	36	9
Number of inactive members	189	64	9	4	7	29	3
Average age of contributing members	40.5 years	40.1 years	48.9 years	42.4 years	57.0 years	41.6 years	44.0 years
Average length of service of contributing members	8.8 years	7.0 years	10.9 years	7.5 years	13.5 years	8.4 years	12.1 years

	Plainview	Plano	Pleasanton	Point	Ponder	Port Aransas	Port Arthur
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$13,862,584	\$572,408,095	\$10,516,980	\$233,025	\$937,063	\$10,096,228	\$92,780,302
b. Noncontributing Members	6,388,300	70,076,687	2,628,962	261,593	97,348	1,005,380	11,701,496
c. Annuitants	<u>23,060,469</u>	<u>486,779,473</u>	<u>8,634,522</u>	<u>144,312</u>	<u>54,957</u>	<u>6,493,604</u>	<u>107,247,839</u>
2. Total Actuarial Accrued Liability	\$43,311,353	\$1,129,264,255	\$21,780,464	\$638,930	\$1,089,368	\$17,595,212	\$211,729,637
3. Actuarial value of assets	<u>41,377,740</u>	<u>1,027,405,440</u>	<u>16,480,799</u>	<u>575,037</u>	<u>1,025,039</u>	<u>14,519,263</u>	<u>182,999,599</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,933,613	\$101,858,815	\$5,299,665	\$63,893	\$64,329	\$3,075,949	\$28,730,038
5. Funded Ratio: (3) / (2)	95.5%	91.0%	75.7%	90.0%	94.1%	82.5%	86.4%
6. Annual Payroll	\$6,402,953	\$178,960,042	\$5,749,382	\$377,417	\$829,356	\$5,894,098	\$38,917,988
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	9.39%	11.50%	8.97%	10.90%	5.10%	8.02%	7.22%
Prior Service	<u>2.42%</u>	<u>5.18%</u>	<u>6.21%</u>	<u>2.02%</u>	<u>0.67%</u>	<u>3.36%</u>	<u>6.70%</u>
Total Retirement	11.81%	16.68%	15.18%	12.92%	5.77%	11.38%	13.92%
Supplemental Death	<u>0.00%</u>	<u>0.00%</u>	<u>0.15%</u>	<u>0.00%</u>	<u>0.40%</u>	<u>0.22%</u>	<u>0.32%</u>
Total Rate	11.81%	16.68%	15.33%	12.92%	6.17%	11.60%	14.24%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	N/A	12.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	17.8 years	14.5 years	22.4 years	10.3 years	15.6 years	24.1 years	14.5 years
Number of annuitants	115	1,358	47	3	3	60	503
Number of active contributing members	137	2,428	112	10	15	116	578
Number of inactive members	58	1,110	78	18	7	61	152
Average age of contributing members	45.6 years	43.4 years	41.0 years	34.5 years	55.5 years	45.8 years	47.1 years
Average length of service of contributing members	9.7 years	12.1 years	7.2 years	3.8 years	10.3 years	7.8 years	12.2 years



**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Port Isabel	Port Lavaca	Port Neches	Portland	Post	Poteet	Poth
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$2,655,221	\$4,452,069	\$23,464,959	\$15,777,303	\$1,146,817	\$580,094	\$548,494
b. Noncontributing Members	1,116,340	1,980,291	1,422,434	2,225,560	358,443	168,317	45,968
c. Annuitants	1,978,428	5,400,422	26,057,805	11,635,569	926,640	688,173	177,507
2. Total Actuarial Accrued Liability	\$5,749,989	\$11,832,782	\$50,945,198	\$29,638,432	\$2,431,900	\$1,436,584	\$771,969
3. Actuarial value of assets	5,854,948	11,129,254	46,269,902	24,394,828	1,795,347	1,671,127	654,928
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$104,959)	\$703,528	\$4,675,296	\$5,243,604	\$636,553	(\$234,543)	\$117,041
5. Funded Ratio: (3) / (2)	101.8%	94.1%	90.8%	82.3%	73.8%	116.3%	84.8%
6. Annual Payroll	\$2,495,840	\$3,954,586	\$7,402,493	\$7,821,410	\$816,423	\$1,025,543	\$399,575
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.17%	4.61%	9.18%	8.24%	6.80%	3.79%	2.23%
Prior Service	-0.16%	1.15%	4.75%	4.98%	6.98%	-0.89%	2.38%
Total Retirement	4.01%	5.76%	13.93%	13.22%	13.78%	2.90%	4.61%
Supplemental Death	0.26%	0.41%	0.00%	0.23%	0.92%	0.21%	0.53%
Total Rate	4.27%	6.17%	13.93%	13.45%	14.70%	3.11%	5.14%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	2.96%	N/A
Statutory Maximum Rate (Total Retirement Only)	9.50%	9.50%	N/A	N/A	N/A	9.50%	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	24.0 years	18.9 years	19.3 years	14.8 years	N/A	16.9 years
Number of annuitants	30	68	85	75	14	13	4
Number of active contributing members	71	82	96	151	21	30	8
Number of inactive members	80	125	25	93	15	44	16
Average age of contributing members	42.5 years	40.7 years	42.4 years	42.8 years	51.4 years	41.4 years	53.5 years
Average length of service of contributing members	7.3 years	7.1 years	14.7 years	9.2 years	6.1 years	5.5 years	12.4 years

	Pottsboro	Prairie View	Premont	Presidio	Primera	Princeton	Prosper
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,214,681	\$346,248	\$100,539	\$851,978	\$343,543	\$5,740,656	\$19,465,579
b. Noncontributing Members	288,911	24,355	184,644	633,868	97,217	869,771	5,160,323
c. Annuitants	158,505	0	352,380	241,087	156,436	1,843,741	1,877,472
2. Total Actuarial Accrued Liability	\$1,662,097	\$370,603	\$637,563	\$1,726,933	\$597,196	\$8,454,168	\$26,503,374
3. Actuarial value of assets	1,590,699	218,708	1,010,235	1,913,886	710,491	7,610,886	22,650,840
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$71,398	\$151,895	(\$372,672)	(\$186,953)	(\$113,295)	\$843,282	\$3,852,534
5. Funded Ratio: (3) / (2)	95.7%	59.0%	158.5%	110.8%	119.0%	90.0%	85.5%
6. Annual Payroll	\$1,021,055	\$898,213	\$542,556	\$1,600,366	\$596,360	\$5,210,407	\$15,989,474
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.28%	1.82%	1.65%	1.25%	1.39%	10.37%	12.17%
Prior Service	0.47%	1.22%	-1.65%	-0.45%	-0.74%	1.04%	1.57%
Total Retirement	6.75%	3.04%	0.00%	0.80%	0.65%	11.41%	13.74%
Supplemental Death	0.22%	0.12%	0.43%	0.17%	0.11%	0.12%	0.00%
Total Rate	6.97%	3.16%	0.43%	0.97%	0.76%	11.53%	13.74%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	N/A	7.50%	N/A	7.50%	13.50%	15.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	22.6 years	20.0 years	N/A	N/A	N/A	24.1 years	23.7 years
Number of annuitants	11	0	11	6	4	18	19
Number of active contributing members	21	22	18	40	21	98	226
Number of inactive members	13	9	24	33	24	33	103
Average age of contributing members	45.7 years	47.2 years	46.6 years	45.0 years	43.0 years	42.2 years	41.0 years
Average length of service of contributing members	12.1 years	4.2 years	2.6 years	7.7 years	7.1 years	6.7 years	8.1 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Providence Village	Quanah	Queen City	Quinlan	Quintana	Quitaque	Quitman
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$243,576	\$651,300	\$306,090	\$614,717	\$63,677	\$241,732	\$3,065,762
b. Noncontributing Members	12,509	87,209	285,205	97,010	68,549	0	336,217
c. Annuitants	34,830	2,586,626	183,152	54,876	0	33,172	1,043,156
2. Total Actuarial Accrued Liability	\$290,915	\$3,325,135	\$774,447	\$766,603	\$132,226	\$274,904	\$4,445,135
3. Actuarial value of assets	221,330	3,177,232	899,319	863,021	124,806	253,840	4,624,301
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$69,585	\$147,903	(\$124,872)	(\$96,418)	\$7,420	\$21,064	(\$179,166)
5. Funded Ratio: (3) / (2)	76.1%	95.6%	116.1%	112.6%	94.4%	92.3%	104.0%
6. Annual Payroll	\$512,548	\$507,454	\$591,120	\$767,191	\$195,029	\$132,563	\$1,082,224
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.80%	5.44%	2.42%	10.18%	3.55%	1.25%	6.35%
Prior Service	2.11%	3.50%	-0.82%	-0.49%	0.68%	3.12%	-0.64%
Total Retirement	6.91%	8.94%	1.60%	9.69%	4.23%	4.37%	5.71%
Supplemental Death	0.10%	0.54%	0.14%	0.11%	0.09%	0.34%	0.37%
Total Rate	7.01%	9.48%	1.74%	9.80%	4.32%	4.71%	6.08%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	7.50%	12.50%	N/A	N/A	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	7.5 years	10.8 years	N/A	N/A	6.4 years	5.7 years	N/A
Number of annuitants	1	19	4	3	0	1	10
Number of active contributing members	8	12	14	17	3	4	23
Number of inactive members	1	7	20	19	8	0	13
Average age of contributing members	43.8 years	41.9 years	44.2 years	39.3 years	54.1 years	46.3 years	44.9 years
Average length of service of contributing members	5.8 years	8.8 years	5.2 years	8.0 years	2.7 years	14.5 years	12.1 years

	Ralls	Rancho Viejo	Ranger	Rankin	Ransom Canyon	Raymondville	Red Oak
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$334,774	\$1,660,603	\$1,511,816	\$120,609	\$1,837,024	\$3,469,633	\$6,617,467
b. Noncontributing Members	115,671	82,494	433,906	136,901	89,945	667,000	1,782,456
c. Annuitants	1,265,750	1,030,835	277,932	451,450	319,543	4,271,299	2,924,923
2. Total Actuarial Accrued Liability	\$1,716,195	\$2,773,932	\$2,223,654	\$708,960	\$2,246,512	\$8,407,932	\$11,324,846
3. Actuarial value of assets	1,630,117	2,781,358	2,437,969	723,488	1,609,734	9,683,543	9,909,968
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$86,078	(\$7,426)	(\$214,315)	(\$14,528)	\$636,778	(\$1,275,611)	\$1,414,878
5. Funded Ratio: (3) / (2)	95.0%	100.3%	109.6%	102.0%	71.7%	115.2%	87.5%
6. Annual Payroll	\$405,634	\$591,260	\$833,261	\$237,435	\$650,603	\$2,324,590	\$7,335,545
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	5.60%	5.51%	8.76%	1.20%	5.33%	4.32%	5.49%
Prior Service	1.75%	-0.05%	-1.00%	-0.24%	9.06%	-2.14%	1.28%
Total Retirement	7.35%	5.46%	7.76%	0.96%	14.39%	2.18%	6.77%
Supplemental Death	0.60%	0.11%	0.00%	0.35%	0.20%	0.47%	0.11%
Total Rate	7.95%	5.57%	7.76%	1.31%	14.59%	2.65%	6.88%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	1.96%	N/A
Statutory Maximum Rate (Total Retirement Only)	9.50%	11.50%	12.50%	7.50%	N/A	15.50%	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	16.6 years	N/A	N/A	N/A	14.2 years	N/A	22.9 years
Number of annuitants	12	2	6	4	3	48	34
Number of active contributing members	13	11	19	5	12	71	105
Number of inactive members	9	5	55	5	2	35	76
Average age of contributing members	50.6 years	38.6 years	39.2 years	37.6 years	47.7 years	41.6 years	39.6 years
Average length of service of contributing members	7.6 years	11.8 years	7.2 years	5.8 years	15.7 years	7.4 years	8.6 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Redwater	Refugio	Reklaw	Reno (Lamar County)	Reno (Parker County)	Rhome	Rice
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$176,023	\$1,147,009	\$473,820	\$735,829	\$267,599	\$327,144	\$147,953
b. Noncontributing Members	108,974	102,877	817,442	389,025	87,802	300,248	72,673
c. Annuitants	30,604	771,461	256,849	40,357	91,223	499,732	58,864
2. Total Actuarial Accrued Liability	\$315,601	\$2,021,347	\$1,548,111	\$1,165,211	\$446,624	\$1,127,124	\$279,490
3. Actuarial value of assets	305,027	2,701,247	1,397,442	1,256,313	492,331	1,235,561	306,886
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$10,574	(\$679,900)	\$150,669	(\$91,102)	(\$45,707)	(\$108,437)	(\$27,396)
5. Funded Ratio: (3) / (2)	96.6%	133.6%	90.3%	107.8%	110.2%	109.6%	109.8%
6. Annual Payroll	\$285,262	\$1,219,199	\$220,652	\$676,709	\$801,533	\$866,475	\$443,148
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	2.32%	0.97%	8.23%	5.64%	3.50%	6.91%	1.46%
Prior Service	0.50%	-0.97%	7.69%	-0.52%	-0.22%	-0.49%	-0.24%
Total Retirement	2.82%	0.00%	15.92%	5.12%	3.28%	6.42%	1.22%
Supplemental Death	0.11%	0.00%	0.50%	0.08%	0.15%	0.15%	0.12%
Total Rate	2.93%	0.00%	16.42%	5.20%	3.43%	6.57%	1.34%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	7.50%	N/A	11.50%	N/A	13.50%	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	8.9 years	N/A	11.1 years	N/A	N/A	N/A	N/A
Number of annuitants	1	17	3	1	9	11	3
Number of active contributing members	8	28	5	14	17	17	13
Number of inactive members	3	12	4	10	20	17	17
Average age of contributing members	47.6 years	45.5 years	51.3 years	42.4 years	35.8 years	43.0 years	39.7 years
Average length of service of contributing members	5.2 years	10.8 years	9.0 years	9.3 years	4.1 years	8.2 years	4.6 years

	Richardson	Richland Hills	Richmond	Richwood	Riesel	Rio Grande City	Rio Vista
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$247,748,803	\$5,930,786	\$24,581,912	\$1,155,324	\$373,520	\$6,478,961	\$37,361
b. Noncontributing Members	43,304,698	6,929,523	4,424,705	446,321	111,964	2,015,703	331,996
c. Annuitants	275,855,064	20,552,561	19,801,654	2,817,617	57,406	2,662,048	173,246
2. Total Actuarial Accrued Liability	\$566,908,565	\$33,412,870	\$48,808,271	\$4,419,262	\$542,890	\$11,156,712	\$542,603
3. Actuarial value of assets	513,963,111	30,510,776	43,249,148	3,770,227	395,065	10,287,138	500,641
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$52,945,454	\$2,902,094	\$5,559,123	\$649,035	\$147,825	\$869,574	\$41,962
5. Funded Ratio: (3) / (2)	90.7%	91.3%	88.6%	85.3%	72.8%	92.2%	92.3%
6. Annual Payroll	\$77,952,017	\$4,888,858	\$9,777,096	\$1,393,712	\$367,845	\$5,393,535	\$312,269
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	7.98%	11.73%	10.65%	7.87%	1.03%	5.93%	2.69%
Prior Service	6.82%	4.32%	4.48%	3.30%	4.64%	1.03%	1.37%
Total Retirement	14.80%	16.05%	15.13%	11.17%	5.67%	6.96%	4.06%
Supplemental Death	0.00%	0.31%	0.18%	0.19%	0.19%	0.12%	0.14%
Total Rate	14.80%	16.36%	15.31%	11.36%	5.86%	7.08%	4.20%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	12.8 years	19.9 years	17.7 years	20.7 years	10.7 years	24.2 years	13.4 years
Number of annuitants	770	109	81	19	2	25	3
Number of active contributing members	1,005	76	159	23	8	147	9
Number of inactive members	468	123	110	23	7	104	11
Average age of contributing members	43.5 years	39.6 years	42.4 years	43.0 years	39.8 years	41.2 years	44.4 years
Average length of service of contributing members	13.3 years	8.6 years	11.4 years	8.4 years	9.7 years	6.9 years	1.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Rising Star	River Oaks	Roanoke	Robert Lee	Robinson	Robstown	Robstown Utility Systems
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$35,198	\$6,814,501	\$29,792,826	\$14,398	\$8,842,885	\$7,558,992	\$7,949,969
b. Noncontributing Members	27,693	1,551,656	6,400,155	11,184	1,275,473	1,560,979	1,250,082
c. Annuitants	95,358	6,544,978	7,100,676	146,614	4,244,990	7,928,510	6,764,931
2. Total Actuarial Accrued Liability	\$158,249	\$14,911,135	\$43,293,657	\$172,196	\$14,363,348	\$17,048,481	\$15,964,982
3. Actuarial value of assets	261,737	13,393,464	35,547,384	123,870	11,461,932	16,280,901	13,902,495
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$103,488)	\$1,517,671	\$7,746,273	\$48,326	\$2,901,416	\$767,580	\$2,062,487
5. Funded Ratio: (3) / (2)	165.4%	89.8%	82.1%	71.9%	79.8%	95.5%	87.1%
6. Annual Payroll	\$192,639	\$2,829,096	\$11,086,402	\$187,392	\$3,785,991	\$5,618,930	\$2,491,683
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.88%	10.59%	12.96%	0.93%	8.56%	4.34%	5.05%
Prior Service	-1.88%	4.22%	4.50%	2.91%	4.94%	1.18%	7.44%
Total Retirement	0.00%	14.81%	17.46%	3.84%	13.50%	5.52%	12.49%
Supplemental Death	0.54%	0.42%	0.00%	0.32%	0.20%	0.18%	0.38%
Total Rate	0.54%	15.23%	17.46%	4.16%	13.70%	5.70%	12.87%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	N/A	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	18.1 years	24.1 years	11.4 years	24.0 years	15.6 years	15.3 years
Number of annuitants	3	51	35	3	23	58	38
Number of active contributing members	6	69	131	6	71	101	43
Number of inactive members	17	49	66	7	36	68	56
Average age of contributing members	46.7 years	44.6 years	43.4 years	28.6 years	42.9 years	40.8 years	45.1 years
Average length of service of contributing members	2.1 years	10.4 years	12.7 years	1.1 years	11.0 years	8.7 years	14.9 years

	Roby	Rockdale	Rockport	Rocksprings	Rockwall	Rogers	Rollingwood
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$140,645	\$3,271,826	\$16,532,998	\$74,343	\$59,738,925	\$170,497	\$800,638
b. Noncontributing Members	148,579	958,448	3,258,227	17,883	9,952,495	179,594	782,186
c. Annuitants	431,837	1,703,570	15,640,080	294,328	31,196,080	631,972	1,176,729
2. Total Actuarial Accrued Liability	\$721,061	\$5,933,844	\$35,431,305	\$386,554	\$100,887,500	\$982,063	\$2,759,553
3. Actuarial value of assets	749,127	5,413,382	29,301,846	448,363	89,613,928	833,687	2,521,623
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$28,066)	\$520,462	\$6,129,459	(\$61,809)	\$11,273,572	\$148,376	\$237,930
5. Funded Ratio: (3) / (2)	103.9%	91.2%	82.7%	116.0%	88.8%	84.9%	91.4%
6. Annual Payroll	\$76,650	\$2,106,714	\$6,631,297	\$239,170	\$21,557,292	\$311,854	\$1,036,720
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.39%	6.66%	10.89%	2.61%	11.87%	5.11%	9.44%
Prior Service	-1.43%	1.59%	6.46%	-1.01%	3.37%	4.73%	1.86%
Total Retirement	4.96%	8.25%	17.35%	1.60%	15.24%	9.84%	11.30%
Supplemental Death	1.59%	0.38%	0.30%	0.00%	0.15%	0.00%	0.25%
Total Rate	6.55%	8.63%	17.65%	1.60%	15.39%	9.84%	11.55%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	6.21%	N/A	N/A	N/A	N/A	9.42%	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	11.50%	N/A	N/A	N/A	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	24.2 years	21.1 years	N/A	24.0 years	13.9 years	17.1 years
Number of annuitants	4	25	75	2	109	8	11
Number of active contributing members	2	46	114	8	289	6	15
Number of inactive members	3	42	68	12	117	12	20
Average age of contributing members	46.2 years	45.4 years	46.0 years	44.0 years	43.7 years	40.2 years	41.9 years
Average length of service of contributing members	12.4 years	9.3 years	11.5 years	3.6 years	13.4 years	5.3 years	7.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Roma	Roscoe	Rosebud	Rosenberg	Rotan	Round Rock	Rowlett
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$8,771,503	\$283,538	\$166,107	\$36,774,044	\$398,907	\$191,643,490	\$65,638,938
b. Noncontributing Members	1,280,754	54,243	41,970	11,645,392	104,521	22,478,771	20,861,902
c. Annuitants	4,597,206	273,685	97,671	35,231,739	4,449	97,084,032	56,273,184
2. Total Actuarial Accrued Liability	\$14,649,463	\$611,466	\$305,748	\$83,651,175	\$507,877	\$311,206,293	\$142,774,024
3. Actuarial value of assets	13,183,697	618,450	313,342	67,260,898	671,743	264,071,563	127,646,343
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,465,766	(\$6,984)	(\$7,594)	\$16,390,277	(\$163,866)	\$47,134,730	\$15,127,681
5. Funded Ratio: (3) / (2)	90.0%	101.1%	102.5%	80.4%	132.3%	84.9%	89.4%
6. Annual Payroll	\$4,136,677	\$354,619	\$426,059	\$17,525,639	\$281,792	\$69,141,943	\$28,499,621
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.83%	1.96%	1.90%	9.76%	1.36%	10.99%	9.41%
Prior Service	3.41%	-0.08%	-0.07%	6.53%	-1.36%	4.85%	3.62%
Total Retirement	10.24%	1.88%	1.83%	16.29%	0.00%	15.84%	13.03%
Supplemental Death	0.35%	0.30%	0.46%	0.12%	0.48%	0.14%	0.00%
Total Rate	10.59%	2.18%	2.29%	16.41%	0.48%	15.98%	13.03%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	11.50%	N/A	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	13.5 years	N/A	N/A	21.2 years	N/A	20.6 years	21.9 years
Number of annuitants	53	4	8	168	1	357	250
Number of active contributing members	123	7	12	278	6	980	408
Number of inactive members	106	2	12	184	6	427	280
Average age of contributing members	45.7 years	56.6 years	46.3 years	38.1 years	50.3 years	42.1 years	41.5 years
Average length of service of contributing members	10.5 years	8.9 years	6.8 years	8.8 years	12.3 years	10.9 years	10.3 years

	Royse City	Rule	Runaway Bay	Runge	Rusk	Sabinal	Sachse
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$7,683,182	\$9,006	\$205,108	\$607,010	\$2,876,038	\$631,313	\$17,678,822
b. Noncontributing Members	1,717,478	78,378	159,772	71,565	510,188	67,956	6,745,012
c. Annuitants	2,085,388	139,390	341,939	82,796	1,159,267	348,137	12,074,725
2. Total Actuarial Accrued Liability	\$11,486,048	\$226,774	\$706,819	\$761,371	\$4,545,493	\$1,047,406	\$36,498,559
3. Actuarial value of assets	9,123,862	274,819	852,830	622,237	4,707,615	1,158,287	31,016,457
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$2,362,186	(\$48,045)	(\$146,011)	\$139,134	(\$162,122)	(\$110,881)	\$5,482,102
5. Funded Ratio: (3) / (2)	79.4%	121.2%	120.7%	81.7%	103.6%	110.6%	85.0%
6. Annual Payroll	\$4,605,661	\$89,855	\$730,268	\$100,657	\$1,831,457	\$439,197	\$10,185,908
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	12.07%	3.67%	3.11%	4.29%	6.48%	3.24%	11.15%
Prior Service	3.40%	-2.08%	-0.78%	16.77%	-0.34%	-0.98%	3.50%
Total Retirement	15.47%	1.59%	2.33%	21.06%	6.14%	2.26%	14.65%
Supplemental Death	0.15%	0.21%	0.25%	0.85%	0.21%	0.48%	0.14%
Total Rate	15.62%	1.80%	2.58%	21.91%	6.35%	2.74%	14.79%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	11.50%	9.50%	N/A	10.50%	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	23.0 years	N/A	N/A	10.1 years	N/A	N/A	23.7 years
Number of annuitants	22	1	10	2	17	6	85
Number of active contributing members	76	3	17	3	39	14	155
Number of inactive members	49	4	25	3	18	23	138
Average age of contributing members	43.3 years	37.1 years	40.2 years	65.1 years	46.9 years	51.1 years	41.4 years
Average length of service of contributing members	7.7 years	1.0 years	3.2 years	19.5 years	12.6 years	9.5 years	9.5 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Saginaw	Saint Jo	Salado	San Angelo	San Antonio	San Antonio Water System	San Augustine
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$27,362,794	\$44,764	\$160,986	\$96,586,544	\$827,358,981	\$104,646,462	\$3,073,946
b. Noncontributing Members	2,677,125	71,056	378,058	15,330,752	147,362,901	18,806,705	909,900
c. Annuitants	16,513,870	395,593	156,402	139,061,074	831,235,458	107,442,314	1,741,368
2. Total Actuarial Accrued Liability	\$46,553,789	\$511,413	\$695,446	\$250,978,370	\$1,805,957,340	\$230,895,481	\$5,725,214
3. Actuarial value of assets	34,160,659	612,751	797,487	207,531,336	1,577,728,210	206,011,189	5,495,583
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$12,393,130	(\$101,338)	(\$102,041)	\$43,447,034	\$228,229,130	\$24,884,292	\$229,631
5. Funded Ratio: (3) / (2)	73.4%	119.8%	114.7%	82.7%	87.4%	89.2%	96.0%
6. Annual Payroll	\$9,324,728	\$192,877	\$544,904	\$37,751,432	\$411,698,127	\$116,665,163	\$1,190,234
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	11.56%	6.80%	6.90%	8.18%	7.05%	2.11%	7.39%
Prior Service	9.55%	-2.05%	-0.73%	9.15%	4.93%	1.63%	1.34%
Total Retirement	21.11%	4.75%	6.17%	17.33%	11.98%	3.74%	8.73%
Supplemental Death	0.17%	0.69%	0.23%	0.00%	0.00%	0.00%	0.40%
Total Rate	21.28%	5.44%	6.40%	17.33%	11.98%	3.74%	9.13%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	4.40%	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	10.50%	N/A	N/A	N/A	5.50%	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	20.3 years	N/A	N/A	17.7 years	15.0 years	18.5 years	22.9 years
Number of annuitants	59	6	5	647	4,998	1,299	23
Number of active contributing members	149	7	11	722	7,145	1,716	29
Number of inactive members	86	14	22	342	3,228	740	20
Average age of contributing members	42.6 years	40.8 years	45.9 years	43.2 years	45.0 years	44.9 years	46.7 years
Average length of service of contributing members	12.5 years	1.2 years	11.5 years	9.6 years	10.6 years	13.4 years	7.9 years

	San Benito	San Felipe	San Juan	San Marcos	San Saba	Sanger	Sansom Park
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$6,145,187	\$151,049	\$8,178,782	\$123,918,065	\$3,326,982	\$7,494,189	\$833,866
b. Noncontributing Members	1,797,771	18,311	2,681,325	17,888,660	495,229	839,601	1,014,472
c. Annuitants	5,870,843	176,580	3,371,231	98,150,251	2,865,748	3,130,390	564,888
2. Total Actuarial Accrued Liability	\$13,813,801	\$345,940	\$14,231,338	\$239,956,976	\$6,687,959	\$11,464,180	\$2,413,226
3. Actuarial value of assets	12,708,715	301,588	14,214,409	196,471,525	6,064,421	10,098,194	2,687,409
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,105,086	\$44,352	\$16,929	\$43,485,451	\$623,538	\$1,365,986	(\$274,183)
5. Funded Ratio: (3) / (2)	92.0%	87.2%	99.9%	81.9%	90.7%	88.1%	111.4%
6. Annual Payroll	\$6,275,367	\$166,166	\$9,332,289	\$46,585,960	\$1,865,796	\$4,130,010	\$1,404,894
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	3.69%	1.63%	4.38%	10.67%	6.18%	6.42%	7.69%
Prior Service	1.30%	3.42%	0.01%	7.32%	2.15%	2.14%	-0.76%
Total Retirement	4.99%	5.05%	4.39%	17.99%	8.33%	8.56%	6.93%
Supplemental Death	0.33%	0.23%	0.20%	0.16%	0.35%	0.14%	0.15%
Total Rate	5.32%	5.28%	4.59%	18.15%	8.68%	8.70%	7.08%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	18.04%	N/A	N/A	6.96%
Statutory Maximum Rate (Total Retirement Only)	11.50%	N/A	12.50%	N/A	10.50%	12.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	19.6 years	9.7 years	24.0 years	17.8 years	24.1 years	23.8 years	N/A
Number of annuitants	101	4	65	341	23	22	16
Number of active contributing members	170	4	233	664	43	66	35
Number of inactive members	131	4	138	299	20	27	90
Average age of contributing members	43.7 years	46.3 years	42.1 years	42.4 years	45.9 years	43.8 years	40.8 years
Average length of service of contributing members	8.1 years	8.9 years	8.2 years	10.0 years	9.0 years	12.9 years	7.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Santa Fe	Savoy	Schertz	Schulenburg	Seabrook	Seadrift	Seagoville
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$6,241,222	\$87,924	\$45,491,238	\$5,681,424	\$18,715,748	\$676,484	\$12,200,274
b. Noncontributing Members	2,377,884	123,824	8,379,866	1,083,714	1,444,009	110,420	1,894,174
c. Annuitants	5,996,004	59,841	24,340,673	8,153,481	19,140,285	50,004	6,432,089
2. Total Actuarial Accrued Liability	\$14,615,110	\$271,589	\$78,211,777	\$14,918,619	\$39,300,042	\$836,908	\$20,526,537
3. Actuarial value of assets	11,911,110	352,316	61,021,465	12,603,957	34,203,671	742,864	18,238,669
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$2,704,000	(\$80,727)	\$17,190,312	\$2,314,662	\$5,096,371	\$94,044	\$2,287,868
5. Funded Ratio: (3) / (2)	81.5%	129.7%	78.0%	84.5%	87.0%	88.8%	88.9%
6. Annual Payroll	\$3,458,472	\$114,995	\$20,301,576	\$1,979,571	\$7,255,824	\$618,939	\$5,432,024
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.62%	5.19%	10.86%	9.52%	9.95%	1.26%	8.06%
Prior Service	5.56%	-2.73%	5.46%	10.78%	6.18%	2.04%	3.04%
Total Retirement	12.18%	2.46%	16.32%	20.30%	16.13%	3.30%	11.10%
Supplemental Death	0.00%	0.40%	0.13%	0.28%	0.17%	0.17%	0.21%
Total Rate	12.18%	2.86%	16.45%	20.58%	16.30%	3.47%	11.31%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	1.24%	16.43%	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	10.50%	N/A	N/A	N/A	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	20.6 years	N/A	24.0 years	14.3 years	15.2 years	8.9 years	20.2 years
Number of annuitants	31	3	116	28	79	3	57
Number of active contributing members	63	3	344	40	109	14	103
Number of inactive members	65	9	209	20	39	1	66
Average age of contributing members	44.4 years	55.2 years	42.1 years	46.1 years	42.0 years	45.4 years	43.6 years
Average length of service of contributing members	8.3 years	16.8 years	9.3 years	11.1 years	11.1 years	10.6 years	11.0 years

	Seagraves	Sealy	Seguin	Selma	Seminole	Seven Points	Seymour
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$293,022	\$8,564,754	\$55,010,391	\$11,974,090	\$6,937,488	\$339,216	\$1,612,399
b. Noncontributing Members	91,870	3,551,657	10,090,870	2,434,558	2,609,768	119,437	376,908
c. Annuitants	1,738,716	5,610,715	55,138,119	8,026,856	8,263,285	405,415	2,726,319
2. Total Actuarial Accrued Liability	\$2,123,608	\$17,727,126	\$120,239,380	\$22,435,504	\$17,810,541	\$864,068	\$4,715,626
3. Actuarial value of assets	1,853,238	15,367,515	86,455,782	19,017,086	16,256,778	1,683,762	4,271,899
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$270,370	\$2,359,611	\$33,783,598	\$3,418,418	\$1,553,763	(\$819,694)	\$443,727
5. Funded Ratio: (3) / (2)	87.3%	86.7%	71.9%	84.8%	91.3%	194.9%	90.6%
6. Annual Payroll	\$741,950	\$3,683,349	\$22,349,476	\$5,860,317	\$3,051,181	\$617,143	\$1,133,062
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	7.72%	9.18%	9.92%	11.40%	8.40%	9.63%	3.48%
Prior Service	2.37%	4.13%	12.30%	3.74%	3.75%	-5.17%	3.92%
Total Retirement	10.09%	13.31%	22.22%	15.14%	12.15%	4.46%	7.40%
Supplemental Death	0.78%	0.19%	0.28%	0.10%	0.32%	0.31%	0.61%
Total Rate	10.87%	13.50%	22.50%	15.24%	12.47%	4.77%	8.01%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	1.92%	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	N/A	13.50%	8.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	23.6 years	24.0 years	16.9 years	24.3 years	19.6 years	N/A	12.8 years
Number of annuitants	17	29	253	26	35	6	27
Number of active contributing members	19	64	395	85	57	19	29
Number of inactive members	27	43	214	49	53	25	26
Average age of contributing members	48.7 years	41.2 years	41.8 years	40.4 years	41.2 years	44.4 years	45.9 years
Average length of service of contributing members	4.7 years	8.4 years	9.1 years	11.0 years	7.0 years	4.1 years	9.7 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Shady Shores	Shallowater	Shamrock	Shavano Park	Shenandoah	Shepherd	Sherman
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$95,503	\$662,284	\$295,299	\$4,888,648	\$6,998,513	\$189,962	\$69,314,611
b. Noncontributing Members	0	572,434	428,873	2,525,260	4,333,318	130,781	9,791,768
c. Annuitants	0	315,059	1,567,904	2,287,552	4,385,725	299,626	76,553,287
2. Total Actuarial Accrued Liability	\$95,503	\$1,549,777	\$2,292,076	\$9,701,460	\$15,717,556	\$620,369	\$155,659,666
3. Actuarial value of assets	84,463	1,598,695	1,895,693	8,538,637	11,759,882	761,495	135,697,789
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$11,040	(\$48,918)	\$396,383	\$1,162,823	\$3,957,674	(\$141,126)	\$19,961,877
5. Funded Ratio: (3) / (2)	88.4%	103.2%	82.7%	88.0%	74.8%	122.7%	87.2%
6. Annual Payroll	\$116,814	\$633,449	\$515,877	\$3,024,001	\$3,844,780	\$334,407	\$27,761,227
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	7.86%	4.87%	3.23%	11.23%	11.33%	4.05%	9.03%
Prior Service	2.32%	-0.30%	6.31%	2.51%	7.26%	-1.64%	5.46%
Total Retirement	10.18%	4.57%	9.54%	13.74%	18.59%	2.41%	14.49%
Supplemental Death	0.05%	0.18%	1.41%	0.17%	0.14%	0.10%	0.26%
Total Rate	10.23%	4.75%	10.95%	13.91%	18.73%	2.51%	14.75%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	10.50%	N/A	13.50%	N/A	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	4.5 years	N/A	16.9 years	23.5 years	24.2 years	N/A	18.6 years
Number of annuitants	0	6	18	33	22	3	346
Number of active contributing members	2	15	14	49	52	10	452
Number of inactive members	0	14	9	78	42	8	175
Average age of contributing members	47.7 years	45.7 years	51.0 years	42.4 years	42.3 years	40.4 years	42.2 years
Average length of service of contributing members	11.5 years	6.3 years	5.0 years	10.3 years	10.5 years	3.6 years	10.5 years

	Shiner	Shoreacres	Silsbee	Silverton	Simonton	Sinton	Skellytown
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$2,352,825	\$372,172	\$7,242,749	\$75,936	\$18,041	\$5,041,456	\$38,824
b. Noncontributing Members	522,991	782,302	1,099,407	60,022	0	1,143,285	94,225
c. Annuitants	2,068,089	722,615	11,083,297	687,930	0	3,627,383	82,267
2. Total Actuarial Accrued Liability	\$4,943,905	\$1,877,089	\$19,425,453	\$823,888	\$18,041	\$9,812,124	\$215,316
3. Actuarial value of assets	3,960,527	2,071,048	15,572,853	842,933	11,669	8,408,815	277,398
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$983,378	(\$193,959)	\$3,852,600	(\$19,045)	\$6,372	\$1,403,309	(\$62,082)
5. Funded Ratio: (3) / (2)	80.1%	110.3%	80.2%	102.3%	64.7%	85.7%	128.8%
6. Annual Payroll	\$1,478,766	\$593,917	\$3,253,407	\$157,310	\$128,205	\$2,227,921	\$175,867
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	5.46%	6.20%	10.20%	6.02%	1.64%	8.24%	3.95%
Prior Service	5.35%	-1.27%	8.45%	-0.47%	0.91%	4.05%	-1.37%
Total Retirement	10.81%	4.93%	18.65%	5.55%	2.55%	12.29%	2.58%
Supplemental Death	0.53%	0.27%	0.00%	0.34%	0.03%	0.23%	0.10%
Total Rate	11.34%	5.20%	18.65%	5.89%	2.58%	12.52%	2.68%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	2.51%
Statutory Maximum Rate (Total Retirement Only)	N/A	9.50%	N/A	N/A	N/A	N/A	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	17.2 years	N/A	20.5 years	N/A	6.2 years	24.1 years	N/A
Number of annuitants	17	7	56	3	0	27	1
Number of active contributing members	31	10	66	4	2	51	5
Number of inactive members	18	17	28	6	0	53	10
Average age of contributing members	48.5 years	53.1 years	45.7 years	46.1 years	43.5 years	41.9 years	44.5 years
Average length of service of contributing members	12.3 years	5.3 years	10.0 years	4.4 years	2.5 years	8.8 years	2.0 years



**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Slaton	Smithville	Smyer	Snyder	Somerset	Somerville	Sonora
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,302,570	\$3,860,668	\$322,948	\$13,890,283	\$116,072	\$486,431	\$1,226,725
b. Noncontributing Members	897,577	1,325,317	3,937	3,635,306	125,107	304,195	297,207
c. Annuitants	4,070,018	1,871,658	0	16,029,122	83,493	476,436	3,301,492
2. Total Actuarial Accrued Liability	\$8,270,165	\$7,057,643	\$326,885	\$33,554,711	\$324,672	\$1,267,062	\$4,825,424
3. Actuarial value of assets	8,140,953	6,321,840	317,624	30,569,698	368,683	1,366,069	4,371,243
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$129,212	\$735,803	\$9,261	\$2,985,013	(\$44,011)	(\$99,007)	\$454,181
5. Funded Ratio: (3) / (2)	98.4%	89.6%	97.2%	91.1%	113.6%	107.8%	90.6%
6. Annual Payroll	\$2,048,209	\$2,738,716	\$80,963	\$5,042,877	\$457,959	\$619,577	\$1,251,583
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.31%	4.99%	5.38%	9.50%	2.71%	5.63%	6.59%
Prior Service	0.44%	2.07%	5.09%	4.24%	-0.37%	-0.62%	2.33%
Total Retirement	6.75%	7.06%	10.47%	13.74%	2.34%	5.01%	8.92%
Supplemental Death	0.34%	0.35%	0.14%	0.32%	1.51%	0.47%	0.39%
Total Rate	7.09%	7.41%	10.61%	14.06%	3.85%	5.48%	9.31%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	12.50%	9.50%	13.50%	N/A	9.50%	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	23.5 years	18.3 years	2.4 years	20.3 years	N/A	N/A	24.3 years
Number of annuitants	33	32	0	61	4	13	32
Number of active contributing members	45	64	2	83	12	15	31
Number of inactive members	28	73	1	55	29	19	25
Average age of contributing members	42.0 years	47.5 years	58.0 years	42.2 years	42.3 years	52.5 years	42.5 years
Average length of service of contributing members	9.6 years	8.1 years	23.3 years	9.3 years	2.5 years	7.6 years	8.3 years

	Sour Lake	South Houston	South Padre Island	Southlake	Southmayd	Southside Place	Spearman
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$806,562	\$15,783,703	\$20,166,585	\$64,020,212	\$69,278	\$3,246,246	\$2,145,828
b. Noncontributing Members	153,164	2,750,008	5,203,470	19,131,185	17,220	530,418	615,472
c. Annuitants	238,354	8,809,040	13,962,008	28,019,919	66,911	2,053,170	3,566,881
2. Total Actuarial Accrued Liability	\$1,198,080	\$27,342,751	\$39,332,063	\$111,171,316	\$153,409	\$5,829,834	\$6,328,181
3. Actuarial value of assets	1,307,186	25,868,319	36,860,690	99,096,825	112,566	5,139,296	5,971,161
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$109,106)	\$1,474,432	\$2,471,373	\$12,074,491	\$40,843	\$690,538	\$357,020
5. Funded Ratio: (3) / (2)	109.1%	94.6%	93.7%	89.1%	73.4%	88.2%	94.4%
6. Annual Payroll	\$715,008	\$5,857,703	\$8,812,268	\$26,010,217	\$312,227	\$1,591,560	\$1,160,635
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.31%	6.43%	10.75%	9.41%	1.48%	8.57%	9.01%
Prior Service	-0.59%	3.24%	1.80%	2.98%	2.12%	2.78%	1.97%
Total Retirement	5.72%	9.67%	12.55%	12.39%	3.60%	11.35%	10.98%
Supplemental Death	0.20%	0.33%	0.18%	0.13%	0.10%	0.38%	0.31%
Total Rate	5.92%	10.00%	12.73%	12.52%	3.70%	11.73%	11.29%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	13.50%	N/A	13.50%	13.50%	N/A	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	9.4 years	24.1 years	24.1 years	7.2 years	24.3 years	24.3 years
Number of annuitants	4	62	73	130	1	15	23
Number of active contributing members	16	119	173	343	8	22	26
Number of inactive members	30	77	99	236	6	12	35
Average age of contributing members	47.9 years	46.2 years	44.0 years	41.8 years	39.5 years	47.9 years	45.6 years
Average length of service of contributing members	11.1 years	12.1 years	9.1 years	11.5 years	4.3 years	11.6 years	7.1 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Splendora	Spring Valley Village	Springtown	Spur	Stafford	Stamford	Stanton
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$546,461	\$3,686,611	\$1,530,888	\$300,435	\$20,269,247	\$1,542,130	\$2,196,352
b. Noncontributing Members	42,056	1,503,285	1,530,160	160,613	4,897,889	360,864	420,270
c. Annuitants	256,928	6,787,205	1,871,355	458,722	20,696,614	1,558,195	1,137,573
2. Total Actuarial Accrued Liability	\$845,445	\$11,977,101	\$4,932,403	\$919,770	\$45,863,750	\$3,461,189	\$3,754,195
3. Actuarial value of assets	304,688	11,538,300	5,487,692	858,691	41,686,690	3,659,039	3,527,423
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$540,757	\$438,801	(\$555,289)	\$61,079	\$4,177,060	(\$197,850)	\$226,772
5. Funded Ratio: (3) / (2)	36.0%	96.3%	111.3%	93.4%	90.9%	105.7%	94.0%
6. Annual Payroll	\$1,210,197	\$3,030,953	\$1,851,376	\$294,672	\$10,870,344	\$1,054,822	\$1,332,835
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	2.50%	5.74%	10.66%	2.29%	11.40%	5.46%	4.55%
Prior Service	2.95%	0.93%	-1.17%	2.92%	2.65%	-0.73%	1.14%
Total Retirement	5.45%	6.67%	9.49%	5.21%	14.05%	4.73%	5.69%
Supplemental Death	0.12%	0.18%	0.18%	0.18%	0.23%	0.63%	0.19%
Total Rate	5.57%	6.85%	9.67%	5.39%	14.28%	5.36%	5.88%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	13.50%	N/A	N/A	9.50%	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	23.1 years	24.3 years	N/A	8.4 years	21.6 years	N/A	22.4 years
Number of annuitants	1	36	24	4	87	22	7
Number of active contributing members	26	39	47	10	187	23	19
Number of inactive members	10	25	62	15	85	25	9
Average age of contributing members	42.7 years	41.8 years	40.4 years	40.6 years	42.9 years	49.1 years	46.5 years
Average length of service of contributing members	4.3 years	11.6 years	7.0 years	7.2 years	8.4 years	10.8 years	12.1 years

	Star Harbor	Stephenville	Sterling City	Stinnett	Stockdale	Stratford	Sudan
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$243,144	\$19,269,655	\$331,486	\$762,324	\$242,958	\$586,533	\$487,081
b. Noncontributing Members	266,805	4,749,160	37,263	426,039	3,331	125,659	2,695
c. Annuitants	414,076	17,972,160	213,704	774,041	37,084	520,980	261,842
2. Total Actuarial Accrued Liability	\$924,025	\$41,990,975	\$582,453	\$1,962,404	\$283,373	\$1,233,172	\$751,618
3. Actuarial value of assets	878,890	43,224,131	593,094	2,400,407	234,983	1,285,570	804,662
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$45,135	(\$1,233,156)	(\$10,641)	(\$438,003)	\$48,390	(\$52,398)	(\$53,044)
5. Funded Ratio: (3) / (2)	95.1%	102.9%	101.8%	122.3%	82.9%	104.2%	107.1%
6. Annual Payroll	\$169,784	\$9,183,455	\$272,754	\$801,968	\$378,131	\$662,596	\$398,610
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	7.70%	7.57%	1.33%	2.23%	2.85%	5.19%	1.56%
Prior Service	2.93%	-0.52%	-0.15%	-2.13%	1.90%	-0.31%	-0.52%
Total Retirement	10.63%	7.05%	1.18%	0.10%	4.75%	4.88%	1.04%
Supplemental Death	0.86%	0.26%	0.00%	0.33%	0.33%	0.26%	0.00%
Total Rate	11.49%	7.31%	1.18%	0.43%	5.08%	5.14%	1.04%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	7.50%	9.50%	N/A	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	11.9 years	N/A	N/A	N/A	7.9 years	N/A	N/A
Number of annuitants	6	101	4	9	1	11	3
Number of active contributing members	4	156	6	17	8	13	9
Number of inactive members	6	119	5	15	2	20	1
Average age of contributing members	50.8 years	42.4 years	49.9 years	39.3 years	58.6 years	39.4 years	47.7 years
Average length of service of contributing members	8.5 years	10.4 years	17.7 years	6.0 years	13.4 years	7.0 years	12.0 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Sugar Land	Sulphur Springs	Sundown	Sunnyvale	Sunray	Sunrise Beach Village	Sunset Valley
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$170,390,608	\$19,622,013	\$1,324,393	\$2,012,135	\$1,168,320	\$205,651	\$4,216,085
b. Noncontributing Members	25,600,196	2,402,774	866,649	1,663,497	338,817	70,601	1,642,493
c. Annuitants	76,635,625	20,730,506	1,176,900	2,968,083	1,295,855	120,192	1,757,075
2. Total Actuarial Accrued Liability	\$272,626,429	\$42,755,293	\$3,367,942	\$6,643,715	\$2,802,992	\$396,444	\$7,615,653
3. Actuarial value of assets	243,913,573	40,523,772	3,081,967	5,892,053	2,452,644	397,098	6,667,687
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$28,712,856	\$2,231,521	\$285,975	\$751,662	\$350,348	(\$654)	\$947,966
5. Funded Ratio: (3) / (2)	89.5%	94.8%	91.5%	88.7%	87.5%	100.2%	87.6%
6. Annual Payroll	\$56,300,584	\$8,837,693	\$528,013	\$2,766,323	\$558,797	\$521,850	\$2,113,932
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	10.84%	4.74%	8.08%	10.22%	10.02%	1.40%	11.07%
Prior Service	3.59%	2.72%	4.07%	1.75%	5.08%	0.00%	2.90%
Total Retirement	14.43%	7.46%	12.15%	11.97%	15.10%	1.40%	13.97%
Supplemental Death	0.14%	0.30%	0.38%	0.24%	0.31%	0.20%	0.11%
Total Rate	14.57%	7.76%	12.53%	12.21%	15.41%	1.60%	14.08%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	15.25%	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	N/A	7.50%	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	20.9 years	11.7 years	19.2 years	24.1 years	17.0 years	N/A	24.0 years
Number of annuitants	257	125	15	20	8	3	8
Number of active contributing members	766	145	11	46	12	10	29
Number of inactive members	313	83	12	39	13	9	28
Average age of contributing members	42.6 years	44.7 years	50.5 years	42.1 years	44.5 years	42.9 years	41.8 years
Average length of service of contributing members	11.9 years	12.2 years	9.8 years	8.1 years	6.6 years	6.1 years	9.6 years

	Surfside Beach	Sweeny	Sweetwater	TMRS	Taft	Tahoka	Talty
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$311,281	\$1,511,944	\$16,259,462	\$36,096,759	\$827,402	\$1,157,057	\$91,884
b. Noncontributing Members	122,207	738,126	1,407,907	2,851,840	641,733	128,166	12,005
c. Annuitants	206,020	3,367,532	16,792,115	14,244,910	2,015,981	1,054,750	41,250
2. Total Actuarial Accrued Liability	\$639,508	\$5,617,602	\$34,459,484	\$53,193,509	\$3,485,116	\$2,339,973	\$145,139
3. Actuarial value of assets	786,165	4,659,490	29,351,110	45,596,010	2,874,527	3,005,537	57,329
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$146,657)	\$958,112	\$5,108,374	\$7,597,499	\$610,589	(\$665,564)	\$87,810
5. Funded Ratio: (3) / (2)	122.9%	82.9%	85.2%	85.7%	82.5%	128.4%	39.5%
6. Annual Payroll	\$877,140	\$1,054,630	\$5,979,411	\$12,704,136	\$1,060,450	\$759,537	\$130,081
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	2.06%	9.38%	9.24%	11.26%	12.65%	3.99%	5.84%
Prior Service	-0.65%	6.45%	7.11%	4.24%	3.87%	-3.41%	8.86%
Total Retirement	1.41%	15.83%	16.35%	15.50%	16.52%	0.58%	14.70%
Supplemental Death	0.18%	0.46%	0.26%	0.17%	0.45%	0.36%	0.36%
Total Rate	1.59%	16.29%	16.61%	15.67%	16.97%	0.94%	15.06%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	0.86%	N/A
Statutory Maximum Rate (Total Retirement Only)	9.50%	N/A	N/A	N/A	N/A	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	20.6 years	16.4 years	20.7 years	23.1 years	N/A	9.2 years
Number of annuitants	5	18	83	36	16	10	1
Number of active contributing members	24	24	111	118	27	20	7
Number of inactive members	27	21	38	34	71	10	1
Average age of contributing members	44.0 years	42.1 years	45.8 years	47.4 years	45.3 years	46.8 years	55.6 years
Average length of service of contributing members	3.6 years	7.0 years	11.2 years	11.7 years	6.0 years	8.3 years	5.7 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Tatum	Taylor	Teague	Temple	Tenaha	Terrell	Terrell Hills
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$253,107	\$15,555,240	\$602,739	\$93,647,890	\$41,359	\$31,344,173	\$6,912,715
b. Noncontributing Members	105,712	4,477,386	843,480	16,652,165	25,059	2,920,177	2,782,960
c. Annuitants	67,991	13,895,219	1,603,255	104,463,776	231,475	28,194,141	5,917,171
2. Total Actuarial Accrued Liability	\$426,810	\$33,927,845	\$3,049,474	\$214,763,831	\$297,893	\$62,458,491	\$15,612,846
3. Actuarial value of assets	409,498	28,489,248	3,171,754	182,033,794	369,755	54,171,785	13,090,618
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$17,312	\$5,438,597	(\$122,280)	\$32,730,037	(\$71,862)	\$8,286,706	\$2,522,228
5. Funded Ratio: (3) / (2)	95.9%	84.0%	104.0%	84.8%	124.1%	86.7%	83.8%
6. Annual Payroll	\$390,247	\$8,635,456	\$921,344	\$35,459,280	\$337,369	\$11,121,683	\$2,875,589
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.42%	9.13%	8.78%	10.47%	1.19%	10.90%	9.95%
Prior Service	0.39%	4.05%	-0.52%	6.58%	-0.83%	5.36%	5.71%
Total Retirement	1.81%	13.18%	8.26%	17.05%	0.36%	16.26%	15.66%
Supplemental Death	0.21%	0.28%	0.33%	0.29%	0.50%	0.27%	0.22%
Total Rate	2.02%	13.46%	8.59%	17.34%	0.86%	16.53%	15.88%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	7.50%	N/A	13.50%	N/A	7.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	15.0 years	24.1 years	N/A	20.5 years	N/A	20.2 years	23.6 years
Number of annuitants	4	110	23	434	6	136	31
Number of active contributing members	9	159	21	689	6	190	48
Number of inactive members	18	127	44	430	4	61	58
Average age of contributing members	44.6 years	42.1 years	38.4 years	43.5 years	36.7 years	43.6 years	40.4 years
Average length of service of contributing members	7.3 years	8.4 years	4.2 years	10.0 years	2.7 years	10.9 years	9.3 years

	Tex Municipal League IEBP	Tex Municipal League IRP	Texarkana	Texarkana Police Dept	Texarkana Water Utilities	Texas City	Texas Municipal League
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$18,905,819	\$113,651,311	\$21,689,871	\$17,229,543	\$20,786,146	\$64,627,057	\$10,263,313
b. Noncontributing Members	8,028,682	11,845,738	5,005,800	3,825,926	2,372,586	7,831,139	5,414,329
c. Annuitants	9,231,731	40,104,843	32,004,398	27,468,310	20,784,349	86,670,971	8,212,551
2. Total Actuarial Accrued Liability	\$36,166,232	\$165,601,892	\$58,700,069	\$48,523,779	\$43,943,081	\$159,129,167	\$23,890,193
3. Actuarial value of assets	34,642,320	164,044,995	51,202,002	44,217,965	38,070,870	138,842,561	21,035,333
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,523,912	\$1,556,897	\$7,498,067	\$4,305,814	\$5,872,211	\$20,286,606	\$2,854,860
5. Funded Ratio: (3) / (2)	95.8%	99.1%	87.2%	91.1%	86.6%	87.3%	88.1%
6. Annual Payroll	\$11,691,929	\$26,699,389	\$8,968,852	\$6,106,050	\$7,494,256	\$24,278,789	\$3,497,250
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.22%	10.14%	9.11%	10.21%	9.63%	9.91%	7.78%
Prior Service	1.49%	0.41%	6.20%	4.55%	6.51%	6.69%	6.49%
Total Retirement	5.71%	10.55%	15.31%	14.76%	16.14%	16.60%	14.27%
Supplemental Death	0.15%	0.18%	0.00%	0.00%	0.00%	0.00%	0.25%
Total Rate	5.86%	10.73%	15.31%	14.76%	16.14%	16.60%	14.52%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	12.50%	N/A	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	10.9 years	20.9 years	20.5 years	24.0 years	16.6 years	17.3 years	17.5 years
Number of annuitants	34	84	195	82	114	316	26
Number of active contributing members	126	250	207	86	161	424	33
Number of inactive members	94	47	94	28	51	194	18
Average age of contributing members	47.7 years	49.4 years	45.8 years	36.9 years	44.5 years	43.2 years	48.5 years
Average length of service of contributing members	9.8 years	15.2 years	9.3 years	12.1 years	10.1 years	10.3 years	13.6 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	The Colony	Thompsons	Thorndale	Thrall	Three Rivers	Throckmorton	Tiki Island
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$54,950,490	\$219,396	\$406,768	\$94,983	\$5,954,022	\$100,890	\$463,941
b. Noncontributing Members	8,591,496	0	60,541	78,497	319,169	3,127	190,354
c. Annuitants	41,910,156	25,275	443,367	0	3,699,335	599,277	100,527
2. Total Actuarial Accrued Liability	\$105,452,142	\$244,671	\$910,676	\$173,480	\$9,972,526	\$703,294	\$754,822
3. Actuarial value of assets	91,984,010	225,417	879,501	146,321	6,235,742	694,047	697,471
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$13,468,132	\$19,254	\$31,175	\$27,159	\$3,736,784	\$9,247	\$57,351
5. Funded Ratio: (3) / (2)	87.2%	92.1%	96.6%	84.3%	62.5%	98.7%	92.4%
6. Annual Payroll	\$26,096,397	\$130,538	\$316,200	\$219,913	\$2,045,516	\$151,028	\$519,969
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	9.94%	1.86%	6.22%	4.12%	10.20%	5.60%	2.15%
Prior Service	3.55%	2.39%	1.06%	2.57%	13.66%	0.75%	1.23%
Total Retirement	13.49%	4.25%	7.28%	6.69%	23.86%	6.35%	3.38%
Supplemental Death	0.15%	0.17%	0.30%	0.27%	0.48%	0.42%	0.19%
Total Rate	13.64%	4.42%	7.58%	6.96%	24.34%	6.77%	3.57%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	6.61%	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	9.50%	N/A	N/A	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	21.7 years	7.2 years	12.5 years	5.4 years	19.1 years	10.0 years	11.2 years
Number of annuitants	197	1	8	0	22	9	1
Number of active contributing members	367	3	10	6	40	5	8
Number of inactive members	196	0	6	7	22	1	7
Average age of contributing members	42.3 years	58.7 years	49.0 years	52.2 years	48.2 years	40.2 years	51.6 years
Average length of service of contributing members	10.6 years	14.8 years	6.0 years	7.4 years	10.2 years	4.9 years	8.8 years

	Timpson	Tioga	Tolar	Tom Bean	Tomball	Trent	Trenton
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$598,255	\$404,541	\$71,450	\$193,828	\$23,300,575	\$249,714	\$158,528
b. Noncontributing Members	46,353	45,019	123,992	57,286	5,780,280	0	37,459
c. Annuitants	341,599	0	399,066	27,724	18,741,203	12,776	170,767
2. Total Actuarial Accrued Liability	\$986,207	\$449,560	\$594,508	\$278,838	\$47,822,058	\$262,490	\$366,754
3. Actuarial value of assets	1,099,997	480,871	603,248	333,939	40,572,212	258,100	408,696
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$113,790)	(\$31,311)	(\$8,740)	(\$55,101)	\$7,249,846	\$4,390	(\$41,942)
5. Funded Ratio: (3) / (2)	111.5%	107.0%	101.5%	119.8%	84.8%	98.3%	111.4%
6. Annual Payroll	\$422,850	\$407,984	\$277,614	\$301,120	\$12,134,564	\$92,370	\$207,589
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	2.72%	2.03%	6.84%	3.56%	9.47%	4.77%	4.83%
Prior Service	-1.05%	-0.30%	-0.12%	-0.71%	3.84%	1.52%	-0.79%
Total Retirement	1.67%	1.73%	6.72%	2.85%	13.31%	6.29%	4.04%
Supplemental Death	0.31%	0.12%	0.18%	0.14%	0.22%	0.63%	0.36%
Total Rate	1.98%	1.85%	6.90%	2.99%	13.53%	6.92%	4.40%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	7.50%	9.50%	N/A	10.50%	N/A	11.50%	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	N/A	N/A	N/A	24.1 years	3.4 years	N/A
Number of annuitants	4	0	4	2	90	1	4
Number of active contributing members	8	10	6	8	177	2	6
Number of inactive members	5	9	7	15	91	0	9
Average age of contributing members	49.4 years	45.1 years	41.1 years	40.3 years	41.0 years	64.7 years	48.2 years
Average length of service of contributing members	12.8 years	8.3 years	4.8 years	7.2 years	8.8 years	23.0 years	8.5 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Trinidad	Trinity	Trophy Club	Troup	Troy	Tulia	Turkey
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$315,646	\$892,168	\$7,802,120	\$874,978	\$932,712	\$3,461,066	\$28,329
b. Noncontributing Members	49,979	187,210	7,577,966	120,828	50,153	779,432	1,249
c. Annuitants	125,998	524,158	6,238,519	498,201	208,667	5,471,255	240,670
2. Total Actuarial Accrued Liability	\$491,623	\$1,603,536	\$21,618,605	\$1,494,007	\$1,191,532	\$9,711,753	\$270,248
3. Actuarial value of assets	487,531	1,551,511	19,704,130	1,416,157	1,150,569	9,465,604	212,548
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$4,092	\$52,025	\$1,914,475	\$77,850	\$40,963	\$246,149	\$57,700
5. Funded Ratio: (3) / (2)	99.2%	96.8%	91.1%	94.8%	96.6%	97.5%	78.6%
6. Annual Payroll	\$258,714	\$760,335	\$5,578,910	\$926,173	\$707,340	\$1,538,358	\$143,579
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	1.89%	6.41%	11.26%	4.61%	9.73%	8.16%	2.11%
Prior Service	0.16%	0.43%	2.19%	0.53%	0.48%	1.31%	3.01%
Total Retirement	2.05%	6.84%	13.45%	5.14%	10.21%	9.47%	5.12%
Supplemental Death	0.47%	0.42%	0.17%	0.43%	0.42%	0.29%	0.80%
Total Rate	2.52%	7.26%	13.62%	5.57%	10.63%	9.76%	5.92%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	7.50%	11.50%	N/A	9.50%	13.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	13.3 years	25.2 years	24.4 years	25.2 years	16.5 years	16.8 years	19.0 years
Number of annuitants	4	9	40	13	8	28	6
Number of active contributing members	5	23	77	22	13	36	4
Number of inactive members	10	38	109	18	5	27	2
Average age of contributing members	52.2 years	48.4 years	44.9 years	43.8 years	53.2 years	44.6 years	50.5 years
Average length of service of contributing members	12.0 years	6.3 years	13.3 years	9.4 years	17.1 years	10.2 years	9.2 years

	Tye	Tyler	Universal City	University Park	Uvalde	Valley Mills	Valley View
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$321,916	\$113,784,996	\$25,212,976	\$49,523,319	\$8,704,949	\$48,045	\$46,098
b. Noncontributing Members	144,710	12,826,939	3,123,043	5,085,539	2,573,152	23,343	6,524
c. Annuitants	614,081	133,613,709	13,794,760	48,305,727	7,266,308	0	10,693
2. Total Actuarial Accrued Liability	\$1,080,707	\$260,225,644	\$42,130,779	\$102,914,585	\$18,544,409	\$71,388	\$63,315
3. Actuarial value of assets	920,620	207,581,889	31,981,959	99,449,610	17,128,268	85,070	68,806
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$160,087	\$52,643,755	\$10,148,820	\$3,464,975	\$1,416,141	(\$13,682)	(\$5,491)
5. Funded Ratio: (3) / (2)	85.2%	79.8%	75.9%	96.6%	92.4%	119.2%	108.7%
6. Annual Payroll	\$668,019	\$38,245,192	\$8,275,509	\$17,788,634	\$7,088,488	\$346,919	\$231,452
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	3.82%	9.42%	9.86%	5.75%	4.40%	2.29%	2.00%
Prior Service	1.75%	11.63%	8.52%	3.05%	1.35%	-0.15%	-0.09%
Total Retirement	5.57%	21.05%	18.38%	8.80%	5.75%	2.14%	1.91%
Supplemental Death	0.18%	0.33%	0.17%	0.00%	0.25%	0.12%	0.13%
Total Rate	5.75%	21.38%	18.55%	8.80%	6.00%	2.26%	2.04%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	9.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	19.8 years	16.1 years	21.3 years	7.4 years	22.3 years	N/A	N/A
Number of annuitants	10	584	71	164	75	0	1
Number of active contributing members	15	684	131	220	166	9	5
Number of inactive members	9	300	97	48	122	11	8
Average age of contributing members	38.3 years	43.7 years	42.4 years	46.0 years	40.4 years	49.0 years	48.4 years
Average length of service of contributing members	5.3 years	9.9 years	10.8 years	15.5 years	8.0 years	7.1 years	6.1 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Van	Van Alstyne	Van Horn	Vega	Venus	Vernon	Victoria
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,326,358	\$2,287,503	\$2,747,446	\$763,756	\$717,770	\$7,922,935	\$73,340,046
b. Noncontributing Members	261,891	1,741,866	195,339	2,842	259,585	3,714,927	22,277,387
c. Annuitants	1,096,857	1,368,210	1,767,173	1,144,368	1,114,349	10,916,669	111,060,526
2. Total Actuarial Accrued Liability	\$2,685,106	\$5,397,579	\$4,709,958	\$1,910,966	\$2,091,704	\$22,554,531	\$206,677,959
3. Actuarial value of assets	2,742,322	4,792,936	4,205,069	1,617,930	2,060,131	20,174,648	169,229,327
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$57,216)	\$604,643	\$504,889	\$293,036	\$31,573	\$2,379,883	\$37,448,632
5. Funded Ratio: (3) / (2)	102.1%	88.8%	89.3%	84.7%	98.5%	89.4%	81.9%
6. Annual Payroll	\$964,609	\$2,198,166	\$1,300,489	\$268,175	\$1,291,331	\$3,950,410	\$32,285,298
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	7.51%	8.19%	4.72%	10.82%	10.44%	7.44%	7.66%
Prior Service	-0.23%	1.77%	3.24%	13.54%	0.18%	4.76%	8.66%
Total Retirement	7.28%	9.96%	7.96%	24.36%	10.62%	12.20%	16.32%
Supplemental Death	0.36%	0.18%	0.22%	0.24%	0.00%	0.54%	0.30%
Total Rate	7.64%	10.14%	8.18%	24.60%	10.62%	12.74%	16.62%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	24.03%	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	12.50%	12.50%	9.50%	N/A	13.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	24.0 years	18.1 years	9.9 years	19.7 years	18.4 years	19.1 years
Number of annuitants	12	19	14	4	15	71	485
Number of active contributing members	20	46	27	6	22	88	579
Number of inactive members	17	55	10	1	14	111	433
Average age of contributing members	47.4 years	36.7 years	46.0 years	44.2 years	38.6 years	41.3 years	40.6 years
Average length of service of contributing members	12.0 years	5.5 years	11.2 years	7.8 years	7.1 years	9.0 years	9.8 years

	Vidor	Village Fire Department	Village of the Hills	Waco	Waelder	Wake Village	Waller
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$8,613,696	\$6,868,054	\$39,333	\$255,536,050	\$695,451	\$1,265,669	\$1,167,303
b. Noncontributing Members	2,209,633	3,495,512	0	26,341,025	255,481	361,633	356,344
c. Annuitants	10,279,835	9,456,503	0	249,881,566	194,491	3,045,704	1,916,687
2. Total Actuarial Accrued Liability	\$21,103,164	\$19,820,069	\$39,333	\$531,758,641	\$1,145,423	\$4,673,006	\$3,440,334
3. Actuarial value of assets	18,844,309	19,370,526	33,397	465,254,600	1,118,048	3,962,667	3,508,894
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$2,258,855	\$449,543	\$5,936	\$66,504,041	\$27,375	\$710,339	(\$68,560)
5. Funded Ratio: (3) / (2)	89.3%	97.7%	84.9%	87.5%	97.6%	84.8%	102.0%
6. Annual Payroll	\$3,581,236	\$4,017,260	\$100,126	\$87,805,163	\$791,550	\$1,107,683	\$1,691,292
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	9.09%	3.42%	6.65%	7.70%	2.27%	9.49%	4.18%
Prior Service	5.10%	1.43%	1.34%	6.99%	0.28%	4.11%	-0.16%
Total Retirement	14.19%	4.85%	7.99%	14.69%	2.55%	13.60%	4.02%
Supplemental Death	0.37%	0.14%	0.05%	0.00%	0.47%	0.43%	0.36%
Total Rate	14.56%	4.99%	8.04%	14.69%	3.02%	14.03%	4.38%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	7.50%	N/A	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	17.1 years	9.5 years	4.9 years	14.3 years	17.3 years	24.3 years	N/A
Number of annuitants	51	28	0	1,093	5	25	20
Number of active contributing members	68	48	1	1,449	18	26	35
Number of inactive members	48	34	0	643	22	15	26
Average age of contributing members	48.5 years	39.6 years	46.3 years	44.4 years	43.4 years	39.8 years	47.2 years
Average length of service of contributing members	9.0 years	10.5 years	20.8 years	11.8 years	9.1 years	7.7 years	6.6 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Wallis	Walnut Springs	Waskom	Watauga	Waxahachie	Weatherford	Webster
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$210,055	\$94,178	\$971,989	\$27,217,770	\$43,395,052	\$66,226,692	\$35,815,346
b. Noncontributing Members	359,665	0	184,475	9,998,435	4,925,979	10,084,957	7,436,973
c. Annuitants	646,103	75,253	1,192,248	18,575,448	30,477,940	53,660,273	26,225,518
2. Total Actuarial Accrued Liability	\$1,215,823	\$169,431	\$2,348,712	\$55,791,653	\$78,798,971	\$129,971,922	\$69,477,837
3. Actuarial value of assets	1,321,795	160,699	2,030,818	49,338,378	64,943,490	116,587,605	59,232,305
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$105,972)	\$8,732	\$317,894	\$6,453,275	\$13,855,481	\$13,384,317	\$10,245,532
5. Funded Ratio: (3) / (2)	108.7%	94.8%	86.5%	88.4%	82.4%	89.7%	85.3%
6. Annual Payroll	\$670,371	\$93,475	\$730,504	\$9,903,482	\$18,009,017	\$23,394,374	\$12,313,397
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	2.89%	1.54%	3.14%	10.09%	10.01%	9.71%	12.02%
Prior Service	-0.62%	2.33%	3.46%	4.78%	5.58%	4.07%	5.37%
Total Retirement	2.27%	3.87%	6.60%	14.87%	15.59%	13.78%	17.39%
Supplemental Death	0.21%	0.22%	0.29%	0.18%	0.20%	0.21%	0.23%
Total Rate	2.48%	4.09%	6.89%	15.05%	15.79%	13.99%	17.62%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	14.97%	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	8.50%	N/A	7.50%	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	4.4 years	18.2 years	21.5 years	20.0 years	20.6 years	24.0 years
Number of annuitants	6	2	10	108	136	231	112
Number of active contributing members	12	2	13	155	293	362	159
Number of inactive members	20	0	12	159	54	187	104
Average age of contributing members	43.4 years	50.8 years	47.8 years	43.3 years	41.5 years	41.8 years	43.5 years
Average length of service of contributing members	3.9 years	10.2 years	12.0 years	12.2 years	9.9 years	10.9 years	12.8 years

	Weimar	Wellington	Wells	Weslaco	West	West Columbia	West Lake Hills
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,840,412	\$1,878,084	\$31,491	\$18,889,189	\$1,207,470	\$2,233,078	\$1,774,089
b. Noncontributing Members	1,021,530	9,241	37,551	4,098,904	124,700	353,750	2,753,115
c. Annuitants	3,552,153	1,398,968	200,270	21,907,089	1,225,363	2,182,629	5,178,673
2. Total Actuarial Accrued Liability	\$8,414,095	\$3,286,293	\$269,312	\$44,895,182	\$2,557,533	\$4,769,457	\$9,705,877
3. Actuarial value of assets	7,739,095	3,483,939	305,859	40,961,418	2,498,232	5,303,064	8,306,820
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$675,000	(\$197,646)	(\$36,547)	\$3,933,764	\$59,301	(\$533,607)	\$1,399,057
5. Funded Ratio: (3) / (2)	92.0%	106.0%	113.6%	91.2%	97.7%	111.2%	85.6%
6. Annual Payroll	\$1,342,320	\$475,828	\$238,638	\$11,142,875	\$962,828	\$1,710,596	\$1,830,485
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	9.15%	4.85%	3.82%	5.04%	5.19%	5.42%	11.09%
Prior Service	5.15%	-1.62%	-0.60%	3.06%	0.98%	-1.21%	5.31%
Total Retirement	14.30%	3.23%	3.22%	8.10%	6.17%	4.21%	16.40%
Supplemental Death	0.36%	0.44%	0.00%	0.26%	0.28%	0.00%	0.49%
Total Rate	14.66%	3.67%	3.22%	8.36%	6.45%	4.21%	16.89%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	3.82%	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	7.50%	N/A	11.50%	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	12.4 years	N/A	N/A	16.9 years	7.3 years	N/A	24.0 years
Number of annuitants	26	11	2	167	12	23	31
Number of active contributing members	27	14	7	240	22	34	25
Number of inactive members	13	5	2	161	10	32	34
Average age of contributing members	46.4 years	50.0 years	40.6 years	42.2 years	45.4 years	43.9 years	42.5 years
Average length of service of contributing members	13.1 years	15.1 years	2.6 years	9.6 years	9.4 years	8.7 years	6.7 years



**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	West Orange	West Tawakoni	West Univ. Place	Westlake	Westover Hills	Westworth Village	Wharton
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$5,185,578	\$885,063	\$20,007,888	\$6,833,867	\$737,373	\$3,396,581	\$9,425,282
b. Noncontributing Members	1,316,456	68,336	8,798,260	1,135,015	417,143	1,114,826	2,516,857
c. Annuitants	4,375,414	542,570	25,650,130	1,545,491	1,072,432	2,210,081	5,946,844
2. Total Actuarial Accrued Liability	\$10,877,448	\$1,495,969	\$54,456,278	\$9,514,373	\$2,226,948	\$6,721,488	\$17,888,983
3. Actuarial value of assets	9,325,499	1,297,006	47,520,943	7,883,908	2,110,104	6,132,103	17,311,190
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,551,949	\$198,963	\$6,935,335	\$1,630,465	\$116,844	\$589,385	\$577,793
5. Funded Ratio: (3) / (2)	85.7%	86.7%	87.3%	82.9%	94.8%	91.2%	96.8%
6. Annual Payroll	\$1,429,029	\$623,477	\$10,068,885	\$4,024,894	\$1,358,536	\$2,449,978	\$5,631,019
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	9.74%	5.25%	8.44%	9.07%	5.61%	10.52%	4.66%
Prior Service	8.69%	3.04%	4.39%	2.70%	0.56%	1.56%	0.72%
Total Retirement	18.43%	8.29%	12.83%	11.77%	6.17%	12.08%	5.38%
Supplemental Death	0.00%	0.36%	0.23%	0.11%	0.50%	0.20%	0.24%
Total Rate	18.43%	8.65%	13.06%	11.88%	6.67%	12.28%	5.62%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	13.50%	13.50%	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	18.4 years	14.2 years	24.5 years	22.7 years	23.8 years	23.9 years	20.9 years
Number of annuitants	17	12	117	13	23	23	40
Number of active contributing members	23	14	114	45	24	43	98
Number of inactive members	12	12	110	27	14	52	67
Average age of contributing members	48.4 years	39.5 years	42.9 years	45.2 years	41.2 years	43.7 years	45.3 years
Average length of service of contributing members	13.8 years	7.1 years	12.2 years	10.1 years	8.6 years	9.6 years	11.3 years

	Wheeler	White Deer	White Oak	White Settlement	Whiteface	Whitehouse	Whitesboro
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$268,227	\$217,442	\$6,586,392	\$14,501,713	\$415,301	\$2,760,632	\$4,295,424
b. Noncontributing Members	63,416	157,455	1,332,693	4,752,427	265,685	1,393,256	915,668
c. Annuitants	1,001,676	316,741	5,424,643	16,850,975	14,229	1,637,629	2,254,169
2. Total Actuarial Accrued Liability	\$1,333,319	\$691,638	\$13,343,728	\$36,105,115	\$695,215	\$5,791,517	\$7,465,261
3. Actuarial value of assets	1,271,461	504,230	12,576,990	28,745,652	795,823	5,269,037	7,218,222
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$61,858	\$187,408	\$766,738	\$7,359,463	(\$100,608)	\$522,480	\$247,039
5. Funded Ratio: (3) / (2)	95.4%	72.9%	94.3%	79.6%	114.5%	91.0%	96.7%
6. Annual Payroll	\$274,209	\$240,621	\$2,222,131	\$7,060,887	\$141,001	\$2,037,561	\$2,081,756
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.90%	3.85%	11.85%	9.78%	6.02%	6.76%	5.16%
Prior Service	2.15%	6.61%	2.24%	7.29%	-2.78%	1.73%	1.16%
Total Retirement	9.05%	10.46%	14.09%	17.07%	3.24%	8.49%	6.32%
Supplemental Death	0.21%	0.99%	0.29%	0.20%	1.09%	0.23%	0.30%
Total Rate	9.26%	11.45%	14.38%	17.27%	4.33%	8.72%	6.62%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	9.07%	11.21%	N/A	N/A	3.51%	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	N/A	N/A	11.50%	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	13.7 years	17.6 years	24.2 years	21.1 years	N/A	22.7 years	13.2 years
Number of annuitants	3	6	30	98	1	22	29
Number of active contributing members	7	6	44	119	3	41	47
Number of inactive members	3	9	20	149	1	42	38
Average age of contributing members	41.3 years	56.9 years	46.6 years	41.4 years	54.2 years	38.1 years	47.3 years
Average length of service of contributing members	5.4 years	6.3 years	13.5 years	8.4 years	16.1 years	9.3 years	11.4 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Whitewright	Whitney	Wichita Falls	Willis	Willow Park	Wills Point	Wilmer
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$319,779	\$557,214	\$133,278,813	\$3,262,462	\$1,536,953	\$1,480,840	\$2,517,905
b. Noncontributing Members	586,228	261,966	15,443,817	1,005,595	438,403	740,981	593,344
c. Annuitants	383,188	420,336	144,935,024	2,228,239	528,149	2,780,595	992,780
2. Total Actuarial Accrued Liability	\$1,289,195	\$1,239,516	\$293,657,654	\$6,496,296	\$2,503,505	\$5,002,416	\$4,104,029
3. Actuarial value of assets	1,423,184	1,188,331	238,621,848	6,013,659	2,250,388	4,195,372	4,133,343
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$133,989)	\$51,185	\$55,035,806	\$482,637	\$253,117	\$807,044	(\$29,314)
5. Funded Ratio: (3) / (2)	110.4%	95.9%	81.3%	92.6%	89.9%	83.9%	100.7%
6. Annual Payroll	\$735,509	\$819,817	\$47,744,687	\$2,261,516	\$2,245,067	\$1,255,114	\$2,451,712
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	3.57%	3.41%	6.91%	8.33%	6.28%	5.87%	4.54%
Prior Service	-0.71%	0.41%	9.66%	1.41%	0.81%	5.59%	-0.05%
Total Retirement	2.86%	3.82%	16.57%	9.74%	7.09%	11.46%	4.49%
Supplemental Death	0.28%	0.21%	0.00%	0.23%	0.11%	0.36%	0.11%
Total Rate	3.14%	4.03%	16.57%	9.97%	7.20%	11.82%	4.60%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	9.50%	7.50%	N/A	13.50%	N/A	N/A	12.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	N/A	23.8 years	16.2 years	23.1 years	20.3 years	16.6 years	N/A
Number of annuitants	9	14	684	22	14	23	26
Number of active contributing members	18	20	975	40	40	34	56
Number of inactive members	35	23	478	33	31	48	63
Average age of contributing members	40.3 years	45.8 years	44.9 years	44.0 years	40.9 years	39.4 years	41.1 years
Average length of service of contributing members	4.2 years	10.2 years	11.6 years	9.8 years	7.9 years	5.3 years	8.1 years

	Wimberley	Windcrest	Winfield	Wink	Winnsboro	Winona	Winters
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$142,158	\$3,321,814	\$52,365	\$475,745	\$2,038,163	\$55,012	\$495,698
b. Noncontributing Members	298,849	2,487,785	22,295	200,766	801,115	126,525	210,490
c. Annuitants	48,615	4,590,135	0	285,502	2,938,599	296,628	2,670,333
2. Total Actuarial Accrued Liability	\$489,622	\$10,399,734	\$74,660	\$962,013	\$5,777,877	\$478,165	\$3,376,521
3. Actuarial value of assets	415,603	10,169,210	79,300	957,324	5,209,726	771,792	3,137,609
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$74,019	\$230,524	(\$4,640)	\$4,689	\$568,151	(\$293,627)	\$238,912
5. Funded Ratio: (3) / (2)	84.9%	97.8%	106.2%	99.5%	90.2%	161.4%	92.9%
6. Annual Payroll	\$504,835	\$3,632,821	\$79,683	\$511,067	\$1,789,047	\$180,875	\$592,726
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	4.38%	6.56%	2.90%	6.50%	6.58%	12.00%	8.01%
Prior Service	1.76%	0.41%	-0.23%	0.10%	2.09%	-6.32%	3.07%
Total Retirement	6.14%	6.97%	2.67%	6.60%	8.67%	5.68%	11.08%
Supplemental Death	0.24%	0.22%	0.21%	0.23%	0.24%	0.48%	0.66%
Total Rate	6.38%	7.19%	2.88%	6.83%	8.91%	6.16%	11.74%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	2.92%	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	10.50%	N/A	N/A	11.50%	13.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	10.2 years	24.1 years	N/A	11.0 years	23.2 years	N/A	19.4 years
Number of annuitants	5	50	0	4	27	2	18
Number of active contributing members	9	69	2	11	40	4	16
Number of inactive members	13	64	2	7	32	7	11
Average age of contributing members	40.8 years	44.6 years	58.9 years	44.5 years	43.1 years	54.0 years	42.8 years
Average length of service of contributing members	4.5 years	6.8 years	17.0 years	5.1 years	7.7 years	1.9 years	6.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2019**

	Wolfforth	Woodcreek	Woodsboro	Woodville	Woodway	Wortham	Wylie
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$2,307,280	\$56,272	\$337,694	\$4,475,990	\$14,640,993	\$347,192	\$56,322,779
b. Noncontributing Members	97,651	32,354	11,646	435,551	2,339,030	103,264	7,341,026
c. Annuitants	<u>2,351,828</u>	<u>63,224</u>	<u>255,412</u>	<u>3,658,726</u>	<u>12,807,482</u>	<u>266,981</u>	<u>21,420,882</u>
2. Total Actuarial Accrued Liability	\$4,756,759	\$151,850	\$604,752	\$8,570,267	\$29,787,505	\$717,437	\$85,084,687
3. Actuarial value of assets	<u>3,687,133</u>	<u>149,503</u>	<u>837,582</u>	<u>7,434,310</u>	<u>25,109,370</u>	<u>773,747</u>	<u>69,013,784</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,069,626	\$2,347	(\$232,830)	\$1,135,957	\$4,678,135	(\$56,310)	\$16,070,903
5. Funded Ratio: (3) / (2)	77.5%	98.5%	138.5%	86.7%	84.3%	107.8%	81.1%
6. Annual Payroll	\$1,686,708	\$146,427	\$485,007	\$1,505,847	\$5,547,080	\$338,151	\$23,136,355
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	6.79%	7.01%	3.53%	9.99%	9.66%	6.70%	10.92%
Prior Service	<u>4.24%</u>	<u>0.25%</u>	<u>-1.87%</u>	<u>6.93%</u>	<u>7.61%</u>	<u>-0.65%</u>	<u>4.48%</u>
Total Retirement	11.03%	7.26%	1.66%	16.92%	17.27%	6.05%	15.40%
Supplemental Death	<u>0.14%</u>	<u>0.36%</u>	<u>0.16%</u>	<u>0.29%</u>	<u>0.18%</u>	<u>0.09%</u>	<u>0.10%</u>
Total Rate	11.17%	7.62%	1.82%	17.21%	17.45%	6.14%	15.50%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	1.40%	N/A	N/A	5.95%	15.40%
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	7.50%	N/A	N/A	12.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	22.6 years	7.4 years	N/A	14.6 years	14.7 years	N/A	24.0 years
Number of annuitants	8	2	3	16	43	4	107
Number of active contributing members	37	3	10	31	83	8	334
Number of inactive members	17	2	3	12	66	8	183
Average age of contributing members	37.2 years	60.7 years	48.6 years	46.8 years	42.2 years	39.0 years	40.0 years
Average length of service of contributing members	5.8 years	8.0 years	9.9 years	11.5 years	10.4 years	5.4 years	9.7 years

	Yoakum	Yorktown	Zavalla				
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$12,684,325	\$616,712	\$111,823				
b. Noncontributing Members	1,924,050	97,073	152,892				
c. Annuitants	<u>13,156,162</u>	<u>793,876</u>	<u>256,146</u>				
2. Total Actuarial Accrued Liability	\$27,764,537	\$1,507,661	\$520,861				
3. Actuarial value of assets	<u>23,313,080</u>	<u>1,511,544</u>	<u>663,881</u>				
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$4,451,457	(\$3,883)	(\$143,020)				
5. Funded Ratio: (3) / (2)	84.0%	100.3%	127.5%				
6. Annual Payroll	\$4,271,533	\$410,689	\$291,080				
<b>CITY CONTRIBUTION RATES FOR 2021</b>							
Retirement							
Normal Cost	7.71%	1.22%	3.77%				
Prior Service	<u>8.39%</u>	<u>-0.04%</u>	<u>-1.91%</u>				
Total Retirement	16.10%	1.18%	1.86%				
Supplemental Death	<u>0.33%</u>	<u>0.65%</u>	<u>0.00%</u>				
Total Rate	16.43%	1.83%	1.86%				
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	0.93%				
Statutory Maximum Rate (Total Retirement Only)	N/A	7.50%	9.50%				
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2021	17.2 years	N/A	N/A				
Number of annuitants	60	11	2				
Number of active contributing members	81	11	9				
Number of inactive members	70	17	15				
Average age of contributing members	45.2 years	49.0 years	40.1 years				
Average length of service of contributing members	11.9 years	12.0 years	3.0 years				

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF MUNICIPALITIES WITH NO ACTIVE MEMBERS - DECEMBER 31, 2019**

	Burton	Covington	Crystal Beach	Floresville No. 1	Graham Regional Med Cntr	Richland Springs	Roy H. Laird Mem Hospital
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Noncontributing Members	28,206	7,158	0	0	7,365,384	0	5,325,944
c. Annuitants	<u>0</u>	<u>0</u>	<u>76,512</u>	<u>17,038</u>	<u>10,213,459</u>	<u>96,317</u>	<u>7,129,017</u>
2. Total Actuarial Accrued Liability	\$28,206	\$7,158	\$76,512	\$17,038	\$17,578,843	\$96,317	\$12,454,961
3. Actuarial value of assets	<u>24,757</u>	<u>9,382</u>	<u>463,549</u>	<u>54,815</u>	<u>18,969,265</u>	<u>204,361</u>	<u>12,185,444</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$3,449	(\$2,224)	(\$387,037)	(\$37,777)	(\$1,390,422)	(\$108,044)	\$269,517
5. Funded Ratio: (3) / (2)	87.8%	131.1%	605.9%	321.7%	107.9%	212.2%	97.8%
6. Annual Payroll	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CITY CONTRIBUTION AMOUNT FOR 2021</b>							
Amortization Period	18	N/A	N/A	N/A	N/A	N/A	8
Retirement Benefits	\$ 326	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43,255
Supplemental Death Benefit	-	-	-	-	11,270	144	12,337
Total Contribution Requirement	<u>\$ 326</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 11,270</u>	<u>\$ 144</u>	<u>\$ 55,592</u>
<b>ADDITIONAL INFORMATION</b>							
Number of annuitants	0	0	3	1	89	2	63
Number of inactive members	1	1	0	0	139	0	26

	Santa Anna	Texhoma	Volente				
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$0	\$0	\$0				
b. Noncontributing Members	0	0	30,412				
c. Annuitants	<u>568</u>	<u>58,283</u>	<u>0</u>				
2. Total Actuarial Accrued Liability	\$568	\$58,283	\$30,412				
3. Actuarial value of assets	<u>657,620</u>	<u>65,119</u>	<u>38,185</u>				
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$657,052)	(\$6,836)	(\$7,773)				
5. Funded Ratio: (3) / (2)	115778.2%	111.7%	125.6%				
6. Annual Payroll	\$0	\$0	\$0				
<b>CITY CONTRIBUTION AMOUNT FOR 2021</b>							
Amortization Period	N/A	N/A	N/A				
Retirement Benefits	\$ -	\$ -	\$ -				
Supplemental Death Benefit	-	355	-				
Total Contribution Requirement	<u>\$ -</u>	<u>\$ 355</u>	<u>\$ -</u>				
<b>ADDITIONAL INFORMATION</b>							
Number of annuitants	1	2	0				
Number of inactive members	0	0	2				