

# Texas Municipal Retirement System

Actuarial Valuation Report  
as of December 31, 2017



May 25, 2018

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, 2017**

This is the December 31, 2017 actuarial valuation of the Texas Municipal Retirement System (“TMRS” or the “System”) which determines the contribution rates for the calendar year beginning January 1, 2019. 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 883 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, 2017 actuarial valuation will be applicable for the calendar year beginning January 1, 2019 and ending December 31, 2019.

#### **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. This method was adopted effective December 31, 2013. 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. 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 after a maximum of 30 years for 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 87.4% and increased from 86.3% 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 7.11% which exceeded the assumed rate of 6.75%, as well as the upcoming COLA being less than assumed and positive system-wide amortization as the equivalent single funding period decreases. (Please note that each city is responsible for its own assets and liabilities and will have its own funded ratio.) On a market value of assets basis, the funded ratio of TMRS as a whole is 90.1% compared to 84.2% 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, 2018. In addition to the 875 plans that are actively participating in TMRS, there are another eight (8) plans that are in inactive status. No new plan provisions occurred during 2017 that impacted the valuation results, other than individual changes adopted by the various municipalities.

Of the 875 active cities, 584 (67%) have adopted annually repeating updated service credits. In addition, 458 (52%) of the cities have adopted annually repeating annuity increases.

However, the larger participating employers have almost all adopted annually repeating benefits. Therefore, of the 110,208 actively contributing members, 87% are covered under an annually repeating updated service credit benefit structure and 69% are covered under an annually repeating annuity

increase structure.

Eleven municipalities began participation in the System during 2017. Exhibit VI in Section 1 of our Report shows these cities, the number of contributing members, total payroll, and the 2019 retirement rates.

There were 54 cities which modified their pension benefit provisions since the prior valuation. Of these municipalities, 49 adopted changes which increased benefits, while 5 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 eleven new cities increased the overall liability of the System by \$31.9 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 the 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, 2010 to December 31, 2014. These assumptions were adopted in 2015 and were first used in the December 31, 2015 valuation. Healthy post-retirement mortality rates and the APRs used to annuitize members' account balances at retirement were updated based on the mortality experience investigation study dated December 31, 2013. In addition, in conjunction with these changes in 2013, the Board adopted a change in the actuarial cost method from Projected Unit Credit to Entry Age Normal and a one-time change to the amortization policy as described in Section 6 of this report. There have been no changes in the assumption since the prior valuation.

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, 2017. 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, 2017.

### 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	2017	2016
Membership		
• Member cities	883	872
• Number of		
- Active members	110,208	108,891
- Retirees and beneficiaries	62,776	59,611
- Inactive members	<u>57,369</u>	<u>53,721</u>
- Total	230,353	222,223
• Valuation Payroll (Projected next year)	\$ 6.396 billion	\$ 6.122 billion
• Prior Year Payroll	\$ 6.188 billion	\$ 5.885 billion
Minimum Contribution Rates	FY 2019	FY 2018
• Straight average	8.88%	9.02%
• Dollar weighted average	13.08%	13.22%
Assets		
• Market value	\$ 28.649 billion	\$ 25.233 billion
• Estimated yield on market value	13.8%	6.7%
• Member contributions	\$ 410.5 million	\$ 389.9 million
• Employer contributions	838.4 million	768.3 million
• Benefit, refund, and expense payments	1,329.9 million	1,235.3 million
• Net external cash flow	(81.0) million	(77.2) million
Actuarial Information - Pension Trust		
• Actuarial accrued liability (AAL)	\$ 31.812 billion	\$ 29.963 billion
• Unfunded actuarial accrued liability (UAAL)	\$ 3.998 billion	\$ 4.119 billion
• UAAL as % of pay	64.6%	70.0%
• Funded ratio	87.4%	86.3%
• Employer normal cost % - Aggregate	8.43%	8.41%
• Actuarially Determined Employer Contribution -	13.09%	13.27%
• Equivalent Single Amortization Period	18.8 years	19.7 years
Number of Member Cities with:		
• Increase in Full Rate	262	411
• Decrease in Full Rate	580	427
• No change in Full Rate	22	20
• New cities	11	6
• Benefit changes (retirement only)	54	47
Changes in the UAAL		
• Interest	\$ 280.2 million	\$ 273.9 million
• Amortization payments	(305.6) million	(290.5) million
• Asset experience	(92.9) million	75.8 million
• Assumption/Methods changes	0.0 million	0.0 million
• Liability experience	(13.1) million	(8.1) million
• Benefit modifications/New Cities	31.9 million	26.6 million
• Contributions different than actuarially calculated	<u>(21.7) million</u>	<u>10.3 million</u>
• Total	\$ (121.2) million	\$ 88.0 million

## Executive Summary Supplemental Death Trust

Item	2017	2016
Membership (TMRS Active Cities)		
• Cities with only active coverage	3	3
- Number of members with active only coverage	445	425
• Cities with active and retiree coverage	761	750
- Number of members covered		
- Active members	73,312	72,317
- Retirees	28,947	26,884
- Inactive members	<u>8,989</u>	<u>8,513</u>
- Total	111,248	107,714
- Valuation Payroll (Projected next year)	\$ 4.226 billion	\$ 4.037 billion
- Prior Year Payroll	\$ 4.097 billion	\$ 3.887 billion
Average Contribution Rates For Participating Cities	FY 2019	FY 2018
• Straight Average		
- Active coverage	0.17%	0.17%
- Retiree coverage	0.06%	0.05%
• Dollar Weighted Average		
- Active coverage	0.14%	0.14%
- Retiree coverage	0.04%	0.04%
Actuarial Information - OPEB		
• Actuarial accrued liability (AAL)	\$ 169.7 million	\$ 160.4 million
• Fund Value of Assets	<u>18.9 million</u>	<u>20.6 million</u>
• Unfunded actuarial accrued liability (UAAL)	\$ 150.8 million	\$ 139.8 million
• UAAL as % of pay	3.7%	3.6%
• Funded ratio	11.1%	12.8%

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

	<u>December 31, 2017</u>	<u>December 31, 2016</u>
<u>I. Valuation Results for Employer Plans</u>		
1. Actuarial accrued liability (AAL)		
a. Contributing Members	\$ 15,722,570,819	\$ 14,991,141,890
b. Noncontributing Members	2,676,526,747	2,493,166,869
c. Annuitants	<u>13,412,028,940</u>	<u>12,478,445,564</u>
d. Total AAL	\$ 31,811,126,506	\$ 29,962,754,323
2. Actuarial value of assets (AVA)		
a. Benefit Accumulation Fund (Smoothed)	\$ 27,481,720,284	\$ 25,716,441,276
b. Interest Reserve Account	301,294,030	99,256,708
c. Perpetual Endowment	20,472,126	18,870,631
d. Expense Fund	<u>9,648,891</u>	<u>8,998,802</u>
e. Total AVA	\$ 27,813,135,331	\$ 25,843,567,417
3. Total unfunded actuarial accrued liability (UAAL) [1d - 2e]	\$ 3,997,991,175	\$ 4,119,186,906
4. Funded Ratio [2 / 1]	87.4%	86.3%
<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	\$ 460,745	\$ 529,202
2. Actuarial value of assets of the Supplemental Disability Benefits Fund	<u>\$ 433,979</u>	<u>\$ 480,707</u>
3. Unfunded/(overfunded) actuarial accrued liability [UAAL/(OAAL)] in Supplemental Disability Benefits Fund [1 - 2]	\$ 26,766	\$ 48,495
4. Funded Ratio [2 / 1]	94.2%	90.8%

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

	Valuation of	
	December 31, 2017	December 31, 2016
1. Market value of assets at beginning of year	\$ 25,233,205,773	\$ 23,708,162,580
2. Revenue for the year		
a. Contributions		
i. Employee	\$ 410,527,770	\$ 389,919,391
ii. Employer	838,363,116	768,252,338
iii. Total Contributions	\$ 1,248,890,886	\$ 1,158,171,729
b. Net investment income		
i. Interest and dividends	\$ 477,401,145	\$ 349,544,758
ii. Net apprec/(deprec) in fair value of investmen	3,106,434,028	1,317,283,876
iii. Net securities lending income	-	(3,463,379)
iv. Investment expenses	(86,702,096)	(61,177,837)
v. Net investment income	\$ 3,497,133,077	\$ 1,602,187,418
c. Miscellaneous	\$ 47,105	\$ 25,956
d. Total revenue	\$ 4,746,071,068	\$ 2,760,385,103
3. Expenditures for the year		
a. Benefit payments		
i. Retirement benefits	\$ (1,077,485,262)	\$ (1,005,485,139)
ii. Disability benefits	(17,005,751)	(17,019,188)
iii. Partial lump sum payments	(156,915,521)	(139,559,781)
iv. Total benefit payments	\$ (1,251,406,534)	\$ (1,162,064,108)
b. Refund of contributions	\$ (59,405,912)	\$ (54,181,595)
c. Administrative expenses	(18,124,164)	(18,095,315)
d. Allocation to supplemental death benefits fund	(965,614)	(1,000,892)
e. Total expenditures	\$ (1,329,902,224)	\$ (1,235,341,910)
4. Increase in net assets (Item 2d + Item 3e)	\$ 3,416,168,844	\$ 1,525,043,193
5. Market value of assets at end of year (Item 1 + Item 4)	\$ 28,649,374,617	\$ 25,233,205,773

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

	Year Ending December 31, 2017					
1. Actuarial value of assets at January 1	\$ 25,716,441,276					
2. Net external cash flow						
a. Employer and employee contributions	\$ 1,247,655,284					
b. Benefits and refunds paid	(1,311,103,318)					
c. Subtotal	\$ (63,448,034)					
3. Assumed rate of investment return for 2017	6.75%					
4. Expected investment return for 2017 (Item 1 x Item 3)	\$ 1,735,859,786					
5. Expected actuarial value of assets at December 31 (Item 1+ Item 2c + Item 4)	\$ 27,388,853,028					
6. Market value of assets at December 31	\$ 28,317,525,591					
7. Difference (Item 6 - Item 5)	\$ 928,672,563					
8. Development of amounts to be recognized at December 31, 2017:						
Remaining Deferrals						
Fiscal of Excess (Shortfall)						
Year of Investment	Offsetting of	Net Deferrals	Years	Recognized for	Remaining after	
End	Income	Gains/(Losses)	Remaining	this valuation	this valuation	
	(1)	(2)	(3) = (1) + (2)	(4)	(5) = (3) / (4)	(6) = (3) - (5)
2015	\$ (568,505,625)	\$ 568,505,625	\$ 0	8	\$ 0	\$ 0
2016	(42,336,726)	42,336,726	0	9	0	0
2017	1,539,514,914	(610,842,351)	928,672,563	10	92,867,256	835,805,307
Total	\$ 928,672,563	\$ 0	\$ 928,672,563		\$ 92,867,256	\$ 835,805,307
9. Preliminary Actuarial value of assets at December 31 (Item 6 - Item 8)	\$ 27,481,720,284					
10. Corridor Limits						
a. 85% of market value	\$ 24,069,896,752					
b. 115% of market value	32,565,154,430					
c. 33% adjustment back to corridor limits (if applicable)	-					
11. Final actuarial value of assets at December 31 (Item 9 + Item 10c)	<b>\$ 27,481,720,284</b>					
12. Asset gain (loss) for year (Item 11 - Item 5)	\$ 92,867,256					
13. Return on the Actuarial Value of Assets	7.11%					
14. Ratio of actuarial value to market value	97.0%					

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 2018 TO 2019,  
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		
	2018	2019	2018	2019	
Abilene	7.72%	7.63%	3.64%	3.30%	-0.43%
Allen	10.41%	10.42%	3.58%	3.61%	0.04%
Amarillo	7.21%	7.15%	5.23%	5.03%	-0.26%
Arlington	9.28%	9.27%	6.51%	6.54%	0.02%
Baytown	9.86%	9.90%	7.63%	7.73%	0.14%
Beaumont	9.76%	9.74%	9.98%	9.48%	-0.52%
Brownsville	10.54%	10.53%	7.05%	6.54%	-0.52%
Brownsville PUB	10.24%	10.20%	7.49%	7.25%	-0.28%
Bryan	8.91%	8.88%	6.31%	6.11%	-0.23%
Carrollton	8.40%	8.35%	3.98%	3.60%	-0.43%
College Station	8.63%	8.56%	4.75%	4.64%	-0.18%
Corpus Christi	4.70%	4.69%	6.40%	4.88%	-1.53%
Denton	10.03%	10.00%	7.10%	7.00%	-0.13%
Edinburg	8.37%	8.40%	5.97%	5.84%	-0.10%
Flower Mound	7.98%	8.00%	2.58%	2.67%	0.11%
Frisco	11.24%	11.25%	2.89%	2.96%	0.08%
Garland	8.54%	8.52%	2.52%	2.27%	-0.27%
Georgetown	9.08%	9.08%	3.33%	3.15%	-0.18%
Grand Prairie	10.10%	10.06%	6.02%	5.85%	-0.21%
Grapevine	11.50%	11.44%	7.48%	7.14%	-0.40%
Irving	9.47%	9.53%	5.03%	4.81%	-0.16%
Killeen	5.72%	5.78%	4.06%	4.13%	0.13%
Laredo	10.03%	9.99%	10.84%	10.79%	-0.09%
League City	9.49%	9.35%	5.62%	5.70%	-0.06%
Lewisville	10.14%	10.20%	6.15%	6.08%	-0.01%
Longview	7.29%	7.21%	3.86%	3.54%	-0.40%
Lubbock	9.96%	9.91%	8.09%	7.80%	-0.34%
McAllen	4.86%	4.85%	3.09%	2.91%	-0.19%
McKinney	11.62%	11.51%	3.74%	3.56%	-0.29%
Mesquite	5.61%	5.60%	7.48%	7.09%	-0.40%
Midland	8.54%	8.59%	5.82%	5.62%	-0.15%
Mission	6.44%	6.41%	2.09%	2.01%	-0.11%
New Braunfels	11.18%	11.21%	5.65%	5.75%	0.13%
North Richland Hills	10.98%	11.00%	5.14%	5.15%	0.03%
Odessa	7.97%	7.86%	5.53%	5.21%	-0.43%
Pasadena	9.26%	9.22%	4.59%	4.23%	-0.40%
Pearland	10.15%	10.13%	3.40%	3.17%	-0.25%
Pharr	5.23%	5.25%	2.78%	2.64%	-0.12%
Plano	11.32%	11.34%	5.98%	5.33%	-0.63%
Port Arthur	6.97%	7.01%	7.05%	6.79%	-0.22%
Richardson	7.96%	7.96%	6.84%	6.48%	-0.36%
Round Rock	10.82%	10.77%	4.69%	4.56%	-0.18%
San Angelo	8.53%	8.49%	9.08%	8.97%	-0.15%
San Antonio	6.84%	6.81%	4.82%	4.56%	-0.29%
San Antonio Water System	2.08%	2.06%	1.62%	1.54%	-0.10%
San Marcos	10.27%	10.38%	7.18%	6.96%	-0.11%
Sugar Land	11.13%	11.08%	4.00%	3.70%	-0.35%
Temple	10.16%	10.10%	6.32%	6.33%	-0.05%
Tyler	9.26%	9.23%	11.44%	11.66%	0.19%
Victoria	7.72%	7.70%	8.82%	8.89%	0.05%
Waco	7.53%	7.54%	6.72%	6.48%	-0.23%
Wichita Falls	5.50%	5.49%	7.33%	7.28%	-0.06%
Average - 52 Cities	8.70%	8.69%	5.68%	5.49%	-0.21%

## EXHIBIT V

### TEXAS MUNICIPAL RETIREMENT SYSTEM

CITIES WITH THE 2019 RETIREMENT RATE (INCLUDING PHASE-IN, IF APPLICABLE)  
AT THE STATUTORY MAXIMUM, BASED ON THE DECEMBER 31, 2017 VALUATION

*For the December 31, 2017 actuarial valuation, there were no TMRS employers that exceeded the stat max.*

## EXHIBIT VI

### TEXAS MUNICIPAL RETIREMENT SYSTEM

#### CITIES BEGINNING PARTICIPATION IN 2017

CITY NUMBER	CITY NAME	PARTICIPATION DATE	CONTRIBUTING MEMBERS	ANNUAL COMPENSATION	NORMAL COST	PRIOR SERVICE	TOTAL
00008	Agua Dulce	09-17	3	\$ 81,064	2.29%	6.79%	9.08%
00186	Brownsboro	03-17	10	\$ 376,650	1.85%	8.90%	10.75%
00289	Combes	07-17	18	\$ 593,086	1.49%	5.26%	6.75%
00530	Gorman	01-17	7	\$ 243,149	1.75%	6.80%	8.55%
00706	Kosse	10-17	4	\$ 130,074	2.01%	3.17%	5.18%
00858	Miami	10-17	3	\$ 91,528	2.78%	11.07%	13.85%
00989	Pelican Bay	10-17	12	\$ 404,018	1.52%	3.49%	5.01%
01031	Prairie View	10-17	17	\$ 725,525	2.12%	3.13%	5.25%
01201	Splendora	10-17	24	\$ 1,206,343	2.56%	2.63%	5.19%
01240	Talty	01-17	6	\$ 180,479	2.77%	5.37%	8.14%
01327	Village of the Hills	04-17	1	\$ 82,801	5.59%	0.59%	6.18%

## **SECTION 2**

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### **2019 CONTRIBUTION RATES, INCLUDING A COMPARISON WITH 2018 RATES**

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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	18	18	2.61%	1.54%	4.15%	0.27%	4.42%	2.60%	1.41%	4.01%	0.29%	4.30%	-0.12%	4.30%	7.50%
6	Abilene	1,023	1,031	7.72%	3.64%	11.36%	0.25%	11.61%	7.63%	3.30%	10.93%	0.25%	11.18%	-0.43%	11.18%	NO MAX
7	Addison	246	257	8.15%	2.31%	10.46%	0.16%	10.62%	8.35%	2.34%	10.69%	0.17%	10.86%	0.24%	10.86%	15.50%
8	Agua Dulce	N/A	3	2.30%	6.83%	9.13%	0.09%	9.22%	2.29%	6.79%	9.08%	0.17%	9.25%	0.03%	9.25%	NO MAX
10	Alamo	137	140	4.85%	2.27%	7.12%	0.19%	7.31%	4.87%	2.00%	6.87%	0.20%	7.07%	-0.24%	7.07%	9.50%
12	Alamo Heights	99	93	9.83%	7.06%	16.89%	0.20%	17.09%	9.83%	7.01%	16.84%	0.21%	17.05%	-0.04%	17.05%	NO MAX
14	Alba	5	5	1.70%	1.08%	2.78%	0.16%	2.94%	1.78%	0.66%	2.44%	0.19%	2.63%	-0.31%	2.63%	NO MAX
16	Albany	15	17	3.96%	1.05%	5.01%	0.35%	5.36%	4.09%	1.15%	5.24%	0.39%	5.63%	0.27%	5.63%	9.50%
17	Aledo	14	14	6.82%	1.04%	7.86%	0.16%	8.02%	7.15%	0.31%	7.46%	0.21%	7.67%	-0.35%	7.67%	NO MAX
18	Alice	222	208	5.30%	0.01%	5.31%	0.00%	5.31%	5.26%	-0.45%	4.81%	0.00%	4.81%	-0.50%	4.81%	11.50%
19	Allen	718	737	10.41%	3.58%	13.99%	0.15%	14.14%	10.42%	3.61%	14.03%	0.15%	14.18%	0.04%	14.18%	NO MAX
20	Alpine	64	72	3.59%	-2.62%	0.97%	0.19%	1.16%	3.61%	-2.55%	1.06%	0.19%	1.25%	0.09%	1.25%	11.50%
22	Alto	11	13	10.28%	0.76%	11.04%	0.23%	11.27%	10.46%	1.12%	11.58%	0.25%	11.83%	0.56%	10.55%	13.50%
23	Alton	79	78	12.56%	1.62%	14.18%	0.14%	14.32%	12.37%	1.53%	13.90%	0.16%	14.06%	-0.26%	12.30%	13.50%
24	Alvarado	60	59	4.60%	0.58%	5.18%	0.14%	5.32%	4.59%	0.60%	5.19%	0.15%	5.34%	0.02%	5.34%	NO MAX
26	Alvin	223	210	10.02%	7.61%	17.63%	0.16%	17.79%	9.98%	6.90%	16.88%	0.16%	17.04%	-0.75%	17.04%	NO MAX
28	Alvord	6	7	5.09%	1.36%	6.45%	0.25%	6.70%	4.15%	1.29%	5.44%	0.23%	5.67%	-1.03%	5.67%	NO MAX
30	Amarillo	1,809	1,823	7.21%	5.23%	12.44%	0.00%	12.44%	7.15%	5.03%	12.18%	0.00%	12.18%	-0.26%	12.18%	NO MAX
32	Amherst	4	4	4.11%	-0.52%	3.59%	0.00%	3.59%	4.13%	-4.13%	0.00%	0.00%	0.00%	-3.59%	0.00%	NO MAX
34	Anahuac	5	9	5.86%	1.52%	7.38%	0.13%	7.51%	7.08%	1.67%	8.75%	0.13%	8.88%	1.37%	8.88%	NO MAX
36	Andrews	74	72	8.84%	7.07%	15.91%	0.00%	15.91%	8.77%	7.20%	15.97%	0.00%	15.97%	0.06%	15.97%	NO MAX
38	Angleton	124	120	8.47%	4.05%	12.52%	0.23%	12.75%	8.54%	3.81%	12.35%	0.23%	12.58%	-0.17%	12.58%	NO MAX
40	Anna	59	64	12.62%	1.65%	14.27%	0.11%	14.38%	13.17%	1.50%	14.67%	0.13%	14.80%	0.42%	14.80%	NO MAX
41	Annetta	2	3	8.55%	0.20%	8.75%	0.09%	8.84%	9.28%	0.71%	9.99%	0.62%	10.61%	1.77%	10.61%	NO MAX
44	Anson	23	24	1.20%	0.00%	1.20%	0.24%	1.44%	1.04%	-0.50%	0.54%	0.19%	0.73%	-0.71%	0.73%	7.50%
45	Anthony	33	31	1.48%	1.58%	3.06%	0.14%	3.20%	1.51%	1.48%	2.99%	0.13%	3.12%	-0.08%	3.12%	NO MAX
48	Aransas Pass	113	105	7.63%	3.78%	11.41%	0.16%	11.57%	7.29%	2.42%	9.71%	0.20%	9.91%	-1.66%	9.91%	NO MAX
50	Archer City	18	18	3.68%	0.64%	4.32%	0.28%	4.60%	3.61%	0.57%	4.18%	0.31%	4.49%	-0.11%	4.49%	9.50%
49	Arcola	10	12	2.09%	3.61%	5.70%	0.16%	5.86%	2.01%	2.80%	4.81%	0.18%	4.99%	-0.87%	4.99%	NO MAX
51	Argyle	22	26	11.10%	2.49%	13.59%	0.00%	13.59%	11.26%	2.42%	13.68%	0.00%	13.68%	0.09%	13.68%	NO MAX
52	Arlington	2,462	2,495	9.28%	6.51%	15.79%	0.15%	15.94%	9.27%	6.54%	15.81%	0.15%	15.96%	0.02%	15.96%	NO MAX
54	Arp	9	8	2.23%	-0.27%	1.96%	0.16%	2.12%	2.22%	-0.54%	1.68%	0.18%	1.86%	-0.26%	1.86%	7.50%
60	Aspermont	6	6	1.43%	-1.43%	0.00%	0.17%	0.17%	1.42%	-1.42%	0.00%	0.19%	0.19%	0.02%	0.19%	7.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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	126	10.33%	11.27%	21.60%	0.17%	21.77%	10.32%	10.47%	20.79%	0.18%	20.97%	-0.80%	20.97%	NO MAX
64	Atlanta	40	41	3.47%	0.49%	3.96%	0.21%	4.17%	3.49%	0.09%	3.58%	0.21%	3.79%	-0.38%	3.79%	7.50%
66	Aubrey	45	49	5.76%	0.46%	6.22%	0.16%	6.38%	5.83%	0.30%	6.13%	0.16%	6.29%	-0.09%	6.29%	13.50%
74	Avinger	2	2	3.02%	-1.08%	1.94%	0.18%	2.12%	3.00%	-0.93%	2.07%	0.20%	2.27%	0.15%	2.27%	9.50%
75	Azle	120	117	8.68%	3.52%	12.20%	0.17%	12.37%	8.73%	3.50%	12.23%	0.18%	12.41%	0.04%	12.41%	12.50%
77	Baird	11	11	1.59%	-0.73%	0.86%	0.13%	0.99%	1.57%	-0.70%	0.87%	0.15%	1.02%	0.03%	1.02%	NO MAX
78	Balch Springs	164	168	9.53%	4.71%	14.24%	0.16%	14.40%	9.44%	4.39%	13.83%	0.15%	13.98%	-0.42%	13.98%	NO MAX
79	Balcones Heights	54	55	11.37%	5.22%	16.59%	0.20%	16.79%	11.17%	4.59%	15.76%	0.21%	15.97%	-0.82%	15.97%	NO MAX
80	Ballinger	37	37	3.21%	0.64%	3.85%	0.26%	4.11%	3.30%	0.40%	3.70%	0.29%	3.99%	-0.12%	3.99%	7.50%
82	Balморhea	1	1	1.66%	-1.66%	0.00%	0.07%	0.07%	1.66%	-1.66%	0.00%	0.07%	0.07%	0.00%	0.07%	NO MAX
83	Bandera	17	20	10.12%	-0.92%	9.20%	0.36%	9.56%	11.09%	-0.69%	10.40%	0.41%	10.81%	1.25%	10.81%	NO MAX
84	Bangs	14	15	10.61%	1.81%	12.42%	0.32%	12.74%	10.86%	1.94%	12.80%	0.35%	13.15%	0.41%	13.15%	NO MAX
90	Bartlett	11	13	7.85%	-0.71%	7.14%	0.19%	7.33%	8.93%	-1.06%	7.87%	0.25%	8.12%	0.79%	8.12%	11.50%
91	Bartonville	7	6	7.70%	7.27%	14.97%	0.10%	15.07%	7.34%	7.94%	15.28%	0.11%	15.39%	0.32%	14.34%	NO MAX
92	Bastrop	119	127	8.46%	2.90%	11.36%	0.16%	11.52%	8.54%	2.83%	11.37%	0.17%	11.54%	0.02%	11.54%	12.50%
94	Bay City	166	160	5.77%	3.84%	9.61%	0.22%	9.83%	5.73%	3.78%	9.51%	0.23%	9.74%	-0.09%	9.74%	11.50%
93	Bayou Vista	8	6	4.26%	-0.56%	3.70%	0.25%	3.95%	3.72%	-0.90%	2.82%	0.19%	3.01%	-0.94%	3.01%	NO MAX
96	Baytown	786	819	9.86%	7.63%	17.49%	0.16%	17.65%	9.90%	7.73%	17.63%	0.15%	17.78%	0.13%	17.78%	NO MAX
98	Beaumont	1,003	992	9.76%	9.98%	19.74%	0.00%	19.74%	9.74%	9.48%	19.22%	0.00%	19.22%	-0.52%	19.22%	NO MAX
100	Bedford	341	339	5.59%	3.42%	9.01%	0.00%	9.01%	5.63%	3.39%	9.02%	0.00%	9.02%	0.01%	9.02%	NO MAX
101	Bee Cave	42	42	8.43%	1.18%	9.61%	0.15%	9.76%	8.23%	0.85%	9.08%	0.16%	9.24%	-0.52%	9.24%	13.50%
102	Beeville	120	112	3.57%	-2.62%	0.95%	0.00%	0.95%	3.65%	-2.82%	0.83%	0.00%	0.83%	-0.12%	0.83%	11.50%
106	Bellaire	156	156	11.20%	9.05%	20.25%	0.21%	20.46%	11.22%	9.23%	20.45%	0.20%	20.65%	0.19%	20.65%	NO MAX
109	Bellmead	76	77	8.56%	0.53%	9.09%	0.19%	9.28%	8.77%	0.04%	8.81%	0.19%	9.00%	-0.28%	9.00%	12.50%
110	Bells	7	8	1.61%	-1.61%	0.00%	0.13%	0.13%	1.53%	-1.53%	0.00%	0.11%	0.11%	-0.02%	0.11%	NO MAX
112	Bellville	51	54	6.30%	8.86%	15.16%	0.31%	15.47%	6.25%	9.13%	15.38%	0.25%	15.63%	0.16%	15.63%	NO MAX
114	Belton	164	174	6.05%	1.52%	7.57%	0.18%	7.75%	6.06%	1.42%	7.48%	0.16%	7.64%	-0.11%	7.64%	11.50%
118	Benbrook	116	122	11.30%	5.07%	16.37%	0.15%	16.52%	11.42%	4.76%	16.18%	0.14%	16.32%	-0.20%	16.32%	NO MAX
121	Berryville	3	2	3.19%	-0.38%	2.81%	0.26%	3.07%	3.81%	-0.78%	3.03%	0.40%	3.43%	0.36%	3.43%	9.50%
123	Bertram	10	10	1.97%	0.05%	2.02%	0.00%	2.02%	1.99%	-0.01%	1.98%	0.00%	1.98%	-0.04%	1.98%	7.50%
124	Big Lake	26	24	6.94%	9.27%	16.21%	0.20%	16.41%	6.89%	10.78%	17.67%	0.23%	17.90%	1.49%	17.90%	NO MAX
126	Big Sandy	11	11	1.19%	1.33%	2.52%	0.33%	2.85%	1.45%	0.99%	2.44%	0.22%	2.66%	-0.19%	2.66%	7.50%
128	Big Spring	186	178	8.91%	8.47%	17.38%	0.27%	17.65%	8.91%	8.28%	17.19%	0.29%	17.48%	-0.17%	17.48%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
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CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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					
132	Bishop	23	22	3.03%	0.84%	3.87%	0.24%	4.11%	2.98%	0.53%	3.51%	0.24%	3.75%	-0.36%	3.75%	11.50%
134	Blanco	18	22	1.63%	0.05%	1.68%	0.24%	1.92%	1.53%	0.06%	1.59%	0.23%	1.82%	-0.10%	1.82%	7.50%
140	Blooming Grove	5	5	6.34%	4.01%	10.35%	0.13%	10.48%	6.68%	3.30%	9.98%	0.14%	10.12%	-0.36%	10.12%	11.50%
142	Blossom	4	4	5.80%	-2.07%	3.73%	0.48%	4.21%	5.82%	-2.10%	3.72%	0.53%	4.25%	0.04%	4.25%	11.50%
143	Blue Mound	20	23	4.54%	0.11%	4.65%	0.09%	4.74%	4.51%	0.13%	4.64%	0.10%	4.74%	0.00%	4.74%	NO MAX
144	Blue Ridge	5	5	2.27%	-0.72%	1.55%	0.17%	1.72%	2.92%	-1.11%	1.81%	0.25%	2.06%	0.34%	2.06%	NO MAX
148	Boerne	245	250	11.53%	6.74%	18.27%	0.16%	18.43%	11.45%	6.89%	18.34%	0.17%	18.51%	0.08%	18.51%	NO MAX
150	Bogata	9	9	1.88%	-1.72%	0.16%	0.23%	0.39%	1.57%	-1.57%	0.00%	0.16%	0.16%	-0.23%	0.16%	7.50%
152	Bonham	118	113	4.44%	1.01%	5.45%	0.00%	5.45%	4.43%	0.88%	5.31%	0.00%	5.31%	-0.14%	5.31%	10.50%
154	Booker	11	9	5.64%	0.32%	5.96%	0.25%	6.21%	5.40%	0.45%	5.85%	0.36%	6.21%	0.00%	6.21%	9.50%
156	Borger	165	168	9.36%	5.45%	14.81%	0.21%	15.02%	9.32%	5.25%	14.57%	0.20%	14.77%	-0.25%	14.77%	NO MAX
158	Bovina	11	11	1.13%	-1.07%	0.06%	0.16%	0.22%	1.19%	-1.19%	0.00%	0.18%	0.18%	-0.04%	0.18%	7.50%
160	Bowie	80	75	7.00%	3.58%	10.58%	0.18%	10.76%	7.07%	3.55%	10.62%	0.21%	10.83%	0.07%	10.83%	11.50%
162	Boyd	15	14	4.09%	-0.17%	3.92%	0.00%	3.92%	4.53%	-0.29%	4.24%	0.00%	4.24%	0.32%	4.24%	11.50%
166	Brady	92	94	8.24%	2.30%	10.54%	0.23%	10.77%	8.45%	1.79%	10.24%	0.24%	10.48%	-0.29%	10.48%	12.50%
170	Brazoria	25	26	6.15%	2.45%	8.60%	0.21%	8.81%	6.18%	0.51%	6.69%	0.22%	6.91%	-1.90%	6.91%	11.50%
172	Breckenridge	65	65	4.69%	3.30%	7.99%	0.28%	8.27%	4.66%	2.76%	7.42%	0.27%	7.69%	-0.58%	7.69%	NO MAX
174	Bremond	7	7	5.74%	11.50%	17.24%	0.27%	17.51%	5.71%	10.24%	15.95%	0.26%	16.21%	-1.30%	16.21%	NO MAX
176	Brenham	202	207	5.30%	4.82%	10.12%	0.00%	10.12%	5.20%	4.52%	9.72%	0.00%	9.72%	-0.40%	9.72%	11.50%
177	Bridge City	54	52	9.24%	6.07%	15.31%	0.31%	15.62%	9.44%	5.63%	15.07%	0.28%	15.35%	-0.27%	15.35%	NO MAX
178	Bridgeport	60	59	8.95%	4.76%	13.71%	0.14%	13.85%	8.87%	5.01%	13.88%	0.15%	14.03%	0.18%	14.03%	NO MAX
180	Bronte	3	3	1.95%	11.17%	13.12%	0.16%	13.28%	1.95%	11.03%	12.98%	0.17%	13.15%	-0.13%	12.53%	NO MAX
182	Brookshire	37	40	5.55%	0.08%	5.63%	0.19%	5.82%	5.50%	0.18%	5.68%	0.19%	5.87%	0.05%	5.87%	11.50%
184	Brownfield	90	86	5.34%	0.70%	6.04%	0.00%	6.04%	5.37%	-0.26%	5.11%	0.00%	5.11%	-0.93%	5.11%	NO MAX
186	Brownsboro	N/A	10	1.95%	10.41%	12.36%	0.22%	12.58%	1.85%	8.90%	10.75%	0.37%	11.12%	-1.46%	11.12%	NO MAX
10188	Brownsville	1,158	1,148	10.54%	7.05%	17.59%	0.17%	17.76%	10.53%	6.54%	17.07%	0.18%	17.25%	-0.51%	17.25%	NO MAX
20188	Brownsville PUB	571	587	10.24%	7.49%	17.73%	0.20%	17.93%	10.20%	7.25%	17.45%	0.20%	17.65%	-0.28%	17.65%	NO MAX
10190	Brownwood	227	230	8.59%	4.92%	13.51%	0.00%	13.51%	8.54%	4.59%	13.13%	0.00%	13.13%	-0.38%	13.13%	NO MAX
30190	Brownwood Health Dept.	12	12	8.28%	2.39%	10.67%	0.00%	10.67%	8.24%	1.71%	9.95%	0.00%	9.95%	-0.72%	9.95%	NO MAX
20190	Brownwood Public Library	10	9	5.78%	-1.07%	4.71%	0.00%	4.71%	5.75%	-1.05%	4.70%	0.00%	4.70%	-0.01%	4.70%	11.50%
195	Bruceville-Eddy	16	18	5.62%	-0.16%	5.46%	0.16%	5.62%	5.55%	-0.31%	5.24%	0.16%	5.40%	-0.22%	5.40%	11.50%
192	Bryan	873	875	8.91%	6.31%	15.22%	0.00%	15.22%	8.88%	6.11%	14.99%	0.00%	14.99%	-0.23%	14.99%	NO MAX
193	Bryson	3	3	2.27%	-2.27%	0.00%	0.00%	0.00%	2.64%	-2.64%	0.00%	0.00%	0.00%	0.00%	0.00%	9.50%

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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	86	93	12.25%	2.56%	14.81%	0.17%	14.98%	11.67%	2.27%	13.94%	0.16%	14.10%	-0.88%	14.10%	NO MAX
196	Buffalo	15	15	4.70%	0.10%	4.80%	0.33%	5.13%	4.72%	0.10%	4.82%	0.38%	5.20%	0.07%	5.20%	11.50%
198	Bullard	25	26	5.91%	1.91%	7.82%	0.16%	7.98%	5.94%	1.74%	7.68%	0.18%	7.86%	-0.12%	7.86%	11.50%
203	Bulverde	23	26	7.70%	1.84%	9.54%	0.13%	9.67%	7.53%	1.52%	9.05%	0.12%	9.17%	-0.50%	9.17%	NO MAX
199	Bunker Hill Village	8	7	9.55%	1.30%	10.85%	0.19%	11.04%	9.67%	2.03%	11.70%	0.22%	11.92%	0.88%	11.92%	NO MAX
200	Burkburnett	70	75	6.34%	3.38%	9.72%	0.22%	9.94%	6.42%	3.72%	10.14%	0.25%	10.39%	0.45%	10.39%	NO MAX
202	Burleson	311	328	10.36%	5.04%	15.40%	0.14%	15.54%	10.39%	4.92%	15.31%	0.14%	15.45%	-0.09%	15.45%	NO MAX
204	Burnet	112	110	9.26%	3.70%	12.96%	0.17%	13.13%	9.29%	3.77%	13.06%	0.17%	13.23%	0.10%	13.23%	13.50%
206	Burton	1	1	1.64%	8.17%	9.81%	0.10%	9.91%	1.64%	8.45%	10.09%	0.11%	10.20%	0.29%	10.20%	NO MAX
207	Cactus	33	39	4.93%	0.07%	5.00%	0.14%	5.14%	5.06%	0.03%	5.09%	0.14%	5.23%	0.09%	5.23%	13.50%
208	Caddo Mills	12	13	5.51%	0.68%	6.19%	0.16%	6.35%	5.56%	0.82%	6.38%	0.17%	6.55%	0.20%	6.55%	NO MAX
210	Caldwell	59	59	5.84%	3.41%	9.25%	0.34%	9.59%	5.84%	3.48%	9.32%	0.38%	9.70%	0.11%	9.70%	11.50%
212	Calvert	10	11	2.03%	-0.89%	1.14%	0.30%	1.44%	1.96%	-0.92%	1.04%	0.29%	1.33%	-0.11%	1.33%	NO MAX
214	Cameron	45	43	5.16%	4.78%	9.94%	0.28%	10.22%	5.25%	4.84%	10.09%	0.26%	10.35%	0.13%	10.35%	NO MAX
216	Campbell	2	2	1.69%	37.43%	39.12%	0.17%	39.29%	1.70%	40.11%	41.81%	0.19%	42.00%	2.71%	42.00%	NO MAX
220	Canadian	21	20	8.13%	7.12%	15.25%	0.15%	15.40%	9.39%	6.84%	16.23%	0.18%	16.41%	1.01%	16.41%	NO MAX
221	Caney City	3	4	2.07%	0.27%	2.34%	0.09%	2.43%	1.96%	-0.05%	1.91%	0.08%	1.99%	-0.44%	1.99%	NO MAX
222	Canton	66	69	8.07%	4.24%	12.31%	0.23%	12.54%	8.10%	3.98%	12.08%	0.21%	12.29%	-0.25%	12.29%	NO MAX
224	Canyon	87	90	10.71%	5.63%	16.34%	0.20%	16.54%	10.52%	4.81%	15.33%	0.21%	15.54%	-1.00%	15.54%	NO MAX
227	Carmine	2	2	2.69%	-0.01%	2.68%	0.08%	2.76%	2.68%	-0.01%	2.67%	0.08%	2.75%	-0.01%	2.75%	7.50%
228	Carrizo Springs	39	40	4.83%	0.68%	5.51%	0.33%	5.84%	4.75%	0.49%	5.24%	0.36%	5.60%	-0.24%	5.60%	9.50%
230	Carrollton	795	800	8.40%	3.98%	12.38%	0.00%	12.38%	8.35%	3.60%	11.95%	0.00%	11.95%	-0.43%	11.95%	NO MAX
232	Carthage	77	73	9.15%	9.36%	18.51%	0.27%	18.78%	9.07%	9.69%	18.76%	0.27%	19.03%	0.25%	19.03%	NO MAX
231	Castle Hills	66	67	7.87%	3.70%	11.57%	0.18%	11.75%	7.84%	3.59%	11.43%	0.16%	11.59%	-0.16%	11.59%	NO MAX
234	Castroville	43	40	7.43%	1.80%	9.23%	0.32%	9.55%	7.62%	1.44%	9.06%	0.31%	9.37%	-0.18%	9.37%	11.50%
238	Cedar Hill	331	336	9.65%	4.31%	13.96%	0.15%	14.11%	9.69%	4.02%	13.71%	0.15%	13.86%	-0.25%	13.86%	NO MAX
239	Cedar Park	423	445	9.47%	4.76%	14.23%	0.11%	14.34%	9.53%	4.79%	14.32%	0.12%	14.44%	0.10%	14.44%	NO MAX
240	Celeste	3	4	2.46%	4.38%	6.84%	0.26%	7.10%	2.35%	5.25%	7.60%	0.24%	7.84%	0.74%	7.84%	NO MAX
242	Celina	91	105	6.53%	-0.19%	6.34%	0.13%	6.47%	6.47%	-0.13%	6.34%	0.13%	6.47%	0.00%	6.47%	13.50%
244	Center	73	71	9.88%	5.26%	15.14%	0.18%	15.32%	9.83%	3.33%	13.16%	0.16%	13.32%	-2.00%	13.32%	NO MAX
246	Centerville	5	5	6.66%	13.42%	20.08%	0.00%	20.08%	6.75%	14.91%	21.66%	0.00%	21.66%	1.58%	20.95%	NO MAX
247	Chandler	23	26	2.10%	2.55%	4.65%	0.27%	4.92%	2.17%	2.53%	4.70%	0.25%	4.95%	0.03%	4.95%	NO MAX
248	Charlotte	9	10	4.57%	2.95%	7.52%	0.16%	7.68%	4.61%	1.97%	6.58%	0.17%	6.75%	-0.93%	6.75%	9.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES					2019 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						
249	Chester	2	2	6.91%	-3.52%	3.39%	0.81%	4.20%	6.90%	-5.36%	1.54%	0.88%	2.42%	-1.78%	2.42%	NO MAX
245	Chico	7	7	2.22%	1.05%	3.27%	0.41%	3.68%	2.27%	1.73%	4.00%	0.41%	4.41%	0.73%	4.41%	NO MAX
250	Childress	69	60	9.22%	6.09%	15.31%	0.27%	15.58%	9.29%	5.69%	14.98%	0.32%	15.30%	-0.28%	15.30%	NO MAX
251	Chillicothe	5	6	2.16%	8.92%	11.08%	0.20%	11.28%	2.02%	7.76%	9.78%	0.20%	9.98%	-1.30%	9.98%	NO MAX
253	Chireno	6	6	9.72%	9.91%	19.63%	0.22%	19.85%	9.70%	10.76%	20.46%	0.24%	20.70%	0.85%	20.70%	NO MAX
254	Christine	1	1	0.71%	-0.71%	0.00%	0.00%	0.00%	0.71%	-0.71%	0.00%	0.00%	0.00%	0.00%	0.00%	NO MAX
255	Cibolo	115	123	11.37%	1.69%	13.06%	0.15%	13.21%	10.97%	1.75%	12.72%	0.15%	12.87%	-0.34%	12.87%	13.50%
256	Cisco	33	36	6.10%	-0.27%	5.83%	0.21%	6.04%	6.33%	0.23%	6.56%	0.20%	6.76%	0.72%	6.76%	11.50%
258	Clarendon	16	16	2.78%	-1.27%	1.51%	0.54%	2.05%	2.77%	-1.30%	1.47%	0.60%	2.07%	0.02%	2.07%	9.50%
259	Clarksville	25	24	6.57%	-3.12%	3.45%	0.19%	3.64%	7.26%	-5.07%	2.19%	0.24%	2.43%	-1.21%	2.43%	11.50%
260	Clarksville City	4	4	5.27%	-1.37%	3.90%	0.16%	4.06%	5.28%	-1.25%	4.03%	0.17%	4.20%	0.14%	3.78%	NO MAX
263	Clear Lake Shores	18	17	9.25%	1.92%	11.17%	0.18%	11.35%	9.22%	1.66%	10.88%	0.20%	11.08%	-0.27%	11.08%	12.50%
264	Cleburne	279	285	8.05%	7.80%	15.85%	0.21%	16.06%	8.04%	7.65%	15.69%	0.22%	15.91%	-0.15%	15.91%	NO MAX
266	Cleveland	77	77	6.60%	4.08%	10.68%	0.24%	10.92%	6.60%	4.17%	10.77%	0.25%	11.02%	0.10%	11.02%	11.50%
268	Clifton	26	25	1.94%	-0.24%	1.70%	0.30%	2.00%	1.95%	-0.19%	1.76%	0.35%	2.11%	0.11%	2.11%	7.50%
271	Clute	86	90	9.69%	0.90%	10.59%	0.18%	10.77%	9.74%	0.51%	10.25%	0.19%	10.44%	-0.33%	10.44%	13.50%
272	Clyde	32	32	9.27%	3.30%	12.57%	0.17%	12.74%	9.55%	3.41%	12.96%	0.20%	13.16%	0.42%	13.16%	13.50%
274	Coahoma	5	5	6.50%	-0.50%	6.00%	0.22%	6.22%	6.50%	-0.47%	6.03%	0.23%	6.26%	0.04%	6.26%	11.50%
276	Cockrell Hill	35	32	9.14%	-0.91%	8.23%	0.16%	8.39%	9.29%	-1.11%	8.18%	0.17%	8.35%	-0.04%	8.35%	13.50%
278	Coleman	68	68	8.78%	7.48%	16.26%	0.00%	16.26%	8.98%	7.56%	16.54%	0.00%	16.54%	0.28%	16.54%	NO MAX
280	College Station	885	905	8.63%	4.75%	13.38%	0.00%	13.38%	8.56%	4.64%	13.20%	0.00%	13.20%	-0.18%	13.20%	NO MAX
281	Colleyville	186	185	8.94%	-0.12%	8.82%	0.15%	8.97%	8.73%	-0.17%	8.56%	0.16%	8.72%	-0.25%	8.72%	13.50%
282	Collinsville	7	8	5.45%	-0.15%	5.30%	0.27%	5.57%	5.49%	-0.04%	5.45%	0.26%	5.71%	0.14%	5.71%	12.50%
283	Colmesneil	4	5	3.48%	4.99%	8.47%	0.07%	8.54%	3.69%	4.72%	8.41%	0.07%	8.48%	-0.06%	8.48%	NO MAX
284	Colorado City	41	40	8.51%	0.38%	8.89%	0.38%	9.27%	8.48%	-0.09%	8.39%	0.40%	8.79%	-0.48%	8.79%	12.50%
286	Columbus	37	38	8.60%	5.24%	13.84%	0.21%	14.05%	7.79%	4.60%	12.39%	0.22%	12.61%	-1.44%	12.61%	NO MAX
288	Comanche	29	26	3.20%	1.59%	4.79%	0.28%	5.07%	3.26%	1.46%	4.72%	0.31%	5.03%	-0.04%	5.03%	7.50%
289	Combes	N/A	18	1.42%	4.87%	6.29%	0.14%	6.43%	1.49%	5.26%	6.75%	0.22%	6.97%	0.54%	6.97%	NO MAX
290	Commerce	76	78	6.64%	2.26%	8.90%	0.24%	9.14%	6.69%	1.87%	8.56%	0.23%	8.79%	-0.35%	8.79%	11.50%
294	Conroe	415	419	9.85%	6.61%	16.46%	0.00%	16.46%	9.65%	6.52%	16.17%	0.00%	16.17%	-0.29%	16.17%	NO MAX
295	Converse	149	158	9.75%	4.45%	14.20%	0.14%	14.34%	9.63%	4.12%	13.75%	0.14%	13.89%	-0.45%	13.89%	NO MAX
298	Cooper	13	13	3.25%	1.94%	5.19%	0.34%	5.53%	3.17%	1.76%	4.93%	0.30%	5.23%	-0.30%	5.23%	8.50%
299	Coppell	380	378	11.16%	4.39%	15.55%	0.17%	15.72%	11.06%	4.47%	15.53%	0.16%	15.69%	-0.03%	15.69%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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					
297	Copper Canyon	3	3	10.76%	2.69%	13.45%	0.48%	13.93%	10.72%	2.32%	13.04%	0.51%	13.55%	-0.38%	11.45%	NO MAX
300	Copperas Cove	253	252	8.28%	4.06%	12.34%	0.18%	12.52%	8.24%	3.72%	11.96%	0.20%	12.16%	-0.36%	12.16%	NO MAX
301	Corinth	143	143	11.24%	4.56%	15.80%	0.11%	15.91%	11.08%	4.22%	15.30%	0.14%	15.44%	-0.47%	15.44%	NO MAX
302	Corpus Christi	2,358	2,321	4.70%	6.40%	11.10%	0.00%	11.10%	4.69%	4.88%	9.57%	0.00%	9.57%	-1.53%	9.57%	NO MAX
304	Corrigan	27	29	3.96%	0.17%	4.13%	0.20%	4.33%	3.85%	-0.02%	3.83%	0.22%	4.05%	-0.28%	4.05%	11.50%
306	Corsicana	182	180	7.99%	8.29%	16.28%	0.24%	16.52%	7.90%	7.61%	15.51%	0.23%	15.74%	-0.78%	15.74%	NO MAX
308	Cotulla	38	37	4.66%	1.94%	6.60%	0.28%	6.88%	4.76%	1.91%	6.67%	0.31%	6.98%	0.10%	6.98%	11.50%
311	Covington	1	1	2.77%	6.57%	9.34%	0.10%	9.44%	2.77%	-0.17%	2.60%	0.10%	2.70%	-6.74%	2.70%	NO MAX
310	Crandall	26	29	11.03%	-0.05%	10.98%	0.17%	11.15%	11.27%	-0.59%	10.68%	0.18%	10.86%	-0.29%	10.86%	13.50%
312	Crane	22	22	9.20%	0.83%	10.03%	0.19%	10.22%	9.07%	-0.21%	8.86%	0.20%	9.06%	-1.16%	9.06%	15.50%
314	Crawford	5	5	1.18%	-0.30%	0.88%	0.00%	0.88%	1.35%	-0.37%	0.98%	0.00%	0.98%	0.10%	0.98%	7.50%
316	Crockett	49	54	6.56%	2.07%	8.63%	0.32%	8.95%	6.58%	1.52%	8.10%	0.30%	8.40%	-0.55%	8.40%	11.50%
318	Crosbyton	9	9	5.71%	-1.00%	4.71%	0.68%	5.39%	5.78%	-0.91%	4.87%	0.82%	5.69%	0.30%	5.69%	10.50%
320	Cross Plains	9	8	5.57%	3.26%	8.83%	0.39%	9.22%	5.22%	3.17%	8.39%	0.22%	8.61%	-0.61%	8.61%	9.50%
321	Cross Roads	5	9	6.41%	1.02%	7.43%	0.04%	7.47%	6.82%	0.55%	7.37%	0.07%	7.44%	-0.03%	7.44%	NO MAX
323	Crowley	110	111	8.21%	2.42%	10.63%	0.15%	10.78%	8.30%	2.47%	10.77%	0.13%	10.90%	0.12%	10.90%	12.50%
324	Crystal City	45	50	4.24%	-2.85%	1.39%	0.00%	1.39%	4.05%	-3.20%	0.85%	0.00%	0.85%	-0.54%	0.85%	13.50%
326	Cuero	94	93	6.99%	3.39%	10.38%	0.25%	10.63%	7.01%	3.33%	10.34%	0.28%	10.62%	-0.01%	10.62%	11.50%
328	Cumby	10	10	1.41%	0.55%	1.96%	0.12%	2.08%	1.55%	0.63%	2.18%	0.14%	2.32%	0.24%	2.32%	NO MAX
332	Daingerfield	19	17	5.43%	1.48%	6.91%	0.00%	6.91%	5.53%	0.61%	6.14%	0.00%	6.14%	-0.77%	6.14%	9.50%
334	Daisetta	10	8	2.15%	-0.70%	1.45%	0.27%	1.72%	2.24%	-0.98%	1.26%	0.37%	1.63%	-0.09%	1.63%	NO MAX
336	Dalhart	66	67	4.68%	-0.02%	4.66%	0.18%	4.84%	4.67%	0.01%	4.68%	0.19%	4.87%	0.03%	4.87%	11.50%
339	Dalworthington Gardens	28	26	9.87%	11.22%	21.09%	0.14%	21.23%	10.18%	11.18%	21.36%	0.12%	21.48%	0.25%	21.48%	NO MAX
340	Danbury	11	10	4.44%	2.19%	6.63%	0.15%	6.78%	4.58%	1.57%	6.15%	0.17%	6.32%	-0.46%	6.32%	NO MAX
341	Darrouzett	3	2	2.17%	0.25%	2.42%	0.06%	2.48%	2.42%	-0.45%	1.97%	0.07%	2.04%	-0.44%	2.04%	NO MAX
344	Dayton	87	90	5.78%	1.68%	7.46%	0.22%	7.68%	5.60%	1.68%	7.28%	0.18%	7.46%	-0.22%	7.46%	13.50%
352	De Leon	13	12	1.26%	0.38%	1.64%	0.18%	1.82%	1.34%	0.18%	1.52%	0.19%	1.71%	-0.11%	1.71%	7.50%
10366	DeSoto	342	349	9.38%	1.85%	11.23%	0.16%	11.39%	9.33%	1.60%	10.93%	0.17%	11.10%	-0.29%	11.10%	NO MAX
346	Decatur	109	110	10.90%	4.12%	15.02%	0.25%	15.27%	10.77%	3.88%	14.65%	0.25%	14.90%	-0.37%	14.90%	NO MAX
348	Deer Park	299	305	10.41%	4.03%	14.44%	0.17%	14.61%	10.30%	3.80%	14.10%	0.18%	14.28%	-0.33%	14.28%	NO MAX
350	Dekalb	14	15	3.51%	-0.54%	2.97%	0.18%	3.15%	3.61%	-0.58%	3.03%	0.19%	3.22%	0.07%	3.22%	9.50%
354	Del Rio	476	472	3.69%	3.74%	7.43%	0.21%	7.64%	3.68%	3.76%	7.44%	0.21%	7.65%	0.01%	7.65%	NO MAX
353	Dell City	1	3	4.68%	6.47%	11.15%	0.24%	11.39%	5.24%	5.11%	10.35%	0.13%	10.48%	-0.91%	10.48%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES					2019 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						
356	Denison	217	216	8.51%	4.23%	12.74%	0.00%	12.74%	8.43%	3.74%	12.17%	0.00%	12.17%	-0.57%	12.17%	NO MAX
358	Denton	1,245	1,246	10.03%	7.10%	17.13%	0.18%	17.31%	10.00%	7.00%	17.00%	0.18%	17.18%	-0.13%	17.18%	NO MAX
360	Denver City	29	26	6.64%	6.23%	12.87%	0.30%	13.17%	6.54%	4.76%	11.30%	0.28%	11.58%	-1.59%	11.58%	NO MAX
362	Deport	2	4	1.91%	1.58%	3.49%	0.11%	3.60%	2.17%	1.01%	3.18%	0.46%	3.64%	0.04%	3.64%	NO MAX
370	Devine	38	40	5.91%	10.22%	16.13%	0.18%	16.31%	5.90%	10.51%	16.41%	0.16%	16.57%	0.26%	16.57%	NO MAX
371	Diboll	48	40	9.74%	4.92%	14.66%	0.17%	14.83%	9.84%	4.20%	14.04%	0.20%	14.24%	-0.59%	14.24%	NO MAX
372	Dickens	2	2	2.24%	-0.39%	1.85%	0.07%	1.92%	3.43%	-0.92%	2.51%	0.18%	2.69%	0.77%	2.69%	NO MAX
373	Dickinson	99	103	7.69%	1.77%	9.46%	0.20%	9.66%	7.21%	1.68%	8.89%	0.18%	9.07%	-0.59%	9.07%	13.50%
374	Dilley	35	33	6.04%	2.15%	8.19%	0.21%	8.40%	5.73%	2.26%	7.99%	0.23%	8.22%	-0.18%	8.22%	11.50%
376	Dimmitt	30	32	7.60%	-2.79%	4.81%	0.00%	4.81%	7.33%	-3.61%	3.72%	0.00%	3.72%	-1.09%	3.72%	12.50%
382	Donna	130	131	5.97%	2.60%	8.57%	0.00%	8.57%	5.97%	2.64%	8.61%	0.00%	8.61%	0.04%	8.61%	12.50%
379	Double Oak	12	11	5.27%	0.52%	5.79%	0.25%	6.04%	4.97%	0.50%	5.47%	0.19%	5.66%	-0.38%	5.66%	NO MAX
383	Dripping Springs	18	21	5.81%	1.11%	6.92%	0.14%	7.06%	5.37%	0.99%	6.36%	0.10%	6.46%	-0.60%	6.46%	NO MAX
385	Driscoll	10	8	1.87%	0.47%	2.34%	0.28%	2.62%	1.89%	0.04%	1.93%	0.11%	2.04%	-0.58%	2.04%	NO MAX
384	Dublin	37	39	9.30%	3.18%	12.48%	0.22%	12.70%	9.18%	3.25%	12.43%	0.19%	12.62%	-0.08%	12.62%	NO MAX
386	Dumas	115	113	4.85%	1.23%	6.08%	0.19%	6.27%	4.89%	0.64%	5.53%	0.20%	5.73%	-0.54%	5.73%	9.50%
388	Duncanville	257	257	5.65%	2.24%	7.89%	0.00%	7.89%	5.69%	1.96%	7.65%	0.00%	7.65%	-0.24%	7.65%	NO MAX
394	Eagle Lake	25	26	7.08%	1.95%	9.03%	0.24%	9.27%	7.05%	2.26%	9.31%	0.25%	9.56%	0.29%	9.56%	12.50%
396	Eagle Pass	406	412	6.89%	1.88%	8.77%	0.21%	8.98%	6.89%	1.51%	8.40%	0.22%	8.62%	-0.36%	8.62%	11.50%
397	Early	25	27	3.80%	-0.39%	3.41%	0.16%	3.57%	3.86%	-0.38%	3.48%	0.17%	3.65%	0.08%	3.65%	9.50%
399	Earth	5	7	1.96%	3.57%	5.53%	0.32%	5.85%	1.85%	3.21%	5.06%	0.27%	5.33%	-0.52%	5.33%	NO MAX
393	East Bernard	4	4	3.62%	1.81%	5.43%	0.18%	5.61%	3.63%	1.74%	5.37%	0.19%	5.56%	-0.05%	5.56%	NO MAX
401	East Mountain	5	1	11.52%	2.83%	14.35%	0.10%	14.45%	13.01%	-1.31%	11.70%	0.28%	11.98%	-2.47%	11.98%	NO MAX
395	East Tawakoni	10	9	5.98%	0.26%	6.24%	0.27%	6.51%	5.85%	0.04%	5.89%	0.23%	6.12%	-0.39%	6.12%	NO MAX
398	Eastland	39	40	7.55%	1.97%	9.52%	0.31%	9.83%	7.27%	1.85%	9.12%	0.32%	9.44%	-0.39%	9.44%	11.50%
402	Ector	4	4	2.26%	-0.23%	2.03%	0.35%	2.38%	2.24%	-0.24%	2.00%	0.37%	2.37%	-0.01%	2.37%	NO MAX
406	Eden	12	9	3.47%	-0.12%	3.35%	0.30%	3.65%	3.31%	-0.45%	2.86%	0.30%	3.16%	-0.49%	3.16%	7.50%
408	Edgewood	11	11	2.05%	1.26%	3.31%	0.29%	3.60%	1.84%	1.19%	3.03%	0.29%	3.32%	-0.28%	3.32%	NO MAX
410	Edinburg	775	818	8.37%	5.97%	14.34%	0.15%	14.49%	8.40%	5.84%	14.24%	0.15%	14.39%	-0.10%	14.39%	NO MAX
412	Edna	37	36	5.89%	5.83%	11.72%	0.25%	11.97%	5.86%	4.95%	10.81%	0.27%	11.08%	-0.89%	11.08%	NO MAX
414	El Campo	108	106	6.18%	4.92%	11.10%	0.20%	11.30%	6.17%	4.43%	10.60%	0.19%	10.79%	-0.51%	10.79%	NO MAX
416	Eldorado	18	20	4.96%	2.37%	7.33%	0.32%	7.65%	4.88%	2.33%	7.21%	0.33%	7.54%	-0.11%	7.54%	10.50%
418	Electra	29	27	1.66%	0.51%	2.17%	0.25%	2.42%	1.69%	0.55%	2.24%	0.29%	2.53%	0.11%	2.53%	7.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES					2019 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						
420	Elgin	76	81	10.19%	4.08%	14.27%	0.25%	14.52%	9.78%	4.18%	13.96%	0.27%	14.23%	-0.29%	14.23%	NO MAX
422	Elkhart	5	6	3.72%	2.04%	5.76%	0.00%	5.76%	3.53%	1.51%	5.04%	0.00%	5.04%	-0.72%	5.04%	NO MAX
427	Elmendorf	13	13	1.49%	0.04%	1.53%	0.10%	1.63%	1.38%	0.07%	1.45%	0.10%	1.55%	-0.08%	1.55%	NO MAX
432	Emory	21	21	4.81%	-0.10%	4.71%	0.23%	4.94%	4.57%	-0.07%	4.50%	0.21%	4.71%	-0.23%	4.71%	11.50%
436	Ennis	178	197	11.73%	5.76%	17.49%	0.19%	17.68%	11.79%	5.11%	16.90%	0.18%	17.08%	-0.60%	17.08%	NO MAX
439	Eules	376	384	11.19%	6.61%	17.80%	0.00%	17.80%	11.17%	6.34%	17.51%	0.00%	17.51%	-0.29%	17.51%	NO MAX
440	Eustace	9	7	5.35%	3.74%	9.09%	0.17%	9.26%	5.15%	3.82%	8.97%	0.20%	9.17%	-0.09%	9.08%	13.50%
441	Everman	52	50	7.31%	1.97%	9.28%	0.30%	9.58%	7.53%	2.03%	9.56%	0.31%	9.87%	0.29%	9.87%	11.50%
443	Fair Oaks Ranch	50	54	10.39%	1.66%	12.05%	0.13%	12.18%	10.37%	1.35%	11.72%	0.14%	11.86%	-0.32%	11.86%	13.50%
442	Fairfield	34	35	8.28%	0.03%	8.31%	0.25%	8.56%	8.28%	-0.19%	8.09%	0.27%	8.36%	-0.20%	8.36%	13.50%
445	Fairview	65	68	9.36%	1.46%	10.82%	0.16%	10.98%	9.30%	1.36%	10.66%	0.16%	10.82%	-0.16%	10.82%	NO MAX
20444	Falfurrias	48	45	2.49%	0.80%	3.29%	0.22%	3.51%	2.61%	0.70%	3.31%	0.23%	3.54%	0.03%	3.54%	9.50%
446	Falls City	4	4	4.89%	4.85%	9.74%	0.29%	10.03%	4.87%	2.76%	7.63%	0.17%	7.80%	-2.23%	7.80%	NO MAX
448	Farmers Branch	380	398	10.13%	8.46%	18.59%	0.14%	18.73%	10.03%	8.46%	18.49%	0.13%	18.62%	-0.11%	18.62%	NO MAX
450	Farmersville	35	35	6.94%	1.58%	8.52%	0.22%	8.74%	6.94%	1.63%	8.57%	0.23%	8.80%	0.06%	8.80%	NO MAX
451	Farwell	7	7	11.17%	4.00%	15.17%	0.10%	15.27%	11.30%	3.02%	14.32%	0.14%	14.46%	-0.81%	14.46%	NO MAX
452	Fate	45	47	9.89%	0.71%	10.60%	0.09%	10.69%	9.39%	0.51%	9.90%	0.11%	10.01%	-0.68%	10.01%	NO MAX
454	Fayetteville	3	4	1.76%	-0.23%	1.53%	0.00%	1.53%	1.99%	0.98%	2.97%	0.00%	2.97%	1.44%	2.97%	NO MAX
456	Ferris	38	39	5.33%	0.54%	5.87%	0.19%	6.06%	4.92%	0.39%	5.31%	0.19%	5.50%	-0.56%	5.50%	9.50%
458	Flaton	18	19	10.29%	7.17%	17.46%	0.23%	17.69%	10.30%	5.36%	15.66%	0.23%	15.89%	-1.80%	15.89%	NO MAX
460	Florence	8	10	4.34%	-0.12%	4.22%	0.10%	4.32%	4.50%	-0.25%	4.25%	0.14%	4.39%	0.07%	4.39%	NO MAX
20462	Floresville	62	65	6.68%	4.01%	10.69%	0.00%	10.69%	6.66%	3.89%	10.55%	0.00%	10.55%	-0.14%	10.55%	11.50%
463	Flower Mound	566	583	7.98%	2.58%	10.56%	0.13%	10.69%	8.00%	2.67%	10.67%	0.13%	10.80%	0.11%	10.80%	13.50%
464	Floydada	23	21	6.87%	4.09%	10.96%	0.25%	11.21%	6.95%	3.14%	10.09%	0.23%	10.32%	-0.89%	10.32%	NO MAX
468	Forest Hill	81	83	9.86%	3.46%	13.32%	0.13%	13.45%	10.13%	3.22%	13.35%	0.14%	13.49%	0.04%	13.49%	13.50%
470	Forney	132	143	10.87%	2.37%	13.24%	0.12%	13.36%	11.11%	2.36%	13.47%	0.13%	13.60%	0.24%	13.60%	NO MAX
472	Fort Stockton	119	120	6.24%	4.11%	10.35%	0.26%	10.61%	6.32%	3.65%	9.97%	0.29%	10.26%	-0.35%	10.26%	11.50%
476	Franklin	13	14	3.71%	-0.63%	3.08%	0.00%	3.08%	3.80%	-0.56%	3.24%	0.00%	3.24%	0.16%	3.24%	11.50%
478	Frankston	14	12	1.78%	0.45%	2.23%	0.30%	2.53%	1.68%	-0.22%	1.46%	0.18%	1.64%	-0.89%	1.64%	NO MAX
480	Fredericksburg	164	169	5.99%	3.61%	9.60%	0.22%	9.82%	5.98%	3.61%	9.59%	0.23%	9.82%	0.00%	9.82%	11.50%
482	Freeport	125	120	9.12%	5.13%	14.25%	0.14%	14.39%	8.50%	5.15%	13.65%	0.15%	13.80%	-0.59%	13.80%	NO MAX
481	Freer	15	16	3.77%	3.27%	7.04%	0.35%	7.39%	3.65%	3.40%	7.05%	0.34%	7.39%	0.00%	7.39%	NO MAX
483	Friendswood	204	210	10.77%	4.97%	15.74%	0.21%	15.95%	10.93%	4.76%	15.69%	0.21%	15.90%	-0.05%	15.90%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

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		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						
484	Friona	23	22	6.27%	6.86%	13.13%	0.20%	13.33%	6.34%	2.79%	9.13%	0.18%	9.31%	-4.02%	9.31%	NO MAX
486	Frisco	1,080	1,129	11.24%	2.89%	14.13%	0.13%	14.26%	11.25%	2.96%	14.21%	0.13%	14.34%	0.08%	14.34%	NO MAX
487	Fritch	18	21	7.43%	-4.87%	2.56%	0.25%	2.81%	8.17%	-5.29%	2.88%	0.17%	3.05%	0.24%	3.05%	13.50%
488	Frost	4	3	3.20%	1.38%	4.58%	0.00%	4.58%	3.37%	2.21%	5.58%	0.00%	5.58%	1.00%	5.58%	7.50%
491	Fulshear	43	49	6.91%	0.71%	7.62%	0.11%	7.73%	7.17%	0.76%	7.93%	0.13%	8.06%	0.33%	8.06%	NO MAX
493	Fulton	7	6	7.14%	10.74%	17.88%	0.35%	18.23%	7.03%	12.12%	19.15%	0.27%	19.42%	1.19%	19.42%	NO MAX
492	Gainesville	215	211	4.61%	4.97%	9.58%	0.21%	9.79%	4.61%	4.58%	9.19%	0.21%	9.40%	-0.39%	9.40%	NO MAX
494	Galena Park	69	73	9.11%	4.08%	13.19%	0.20%	13.39%	9.24%	3.08%	12.32%	0.22%	12.54%	-0.85%	12.54%	NO MAX
498	Ganado	10	10	12.22%	1.85%	14.07%	0.39%	14.46%	11.89%	1.70%	13.59%	0.42%	14.01%	-0.45%	14.01%	NO MAX
499	Garden Ridge	27	29	6.27%	1.57%	7.84%	0.18%	8.02%	6.20%	1.56%	7.76%	0.19%	7.95%	-0.07%	7.95%	11.50%
500	Garland	1,967	2,005	8.54%	2.52%	11.06%	0.20%	11.26%	8.52%	2.27%	10.79%	0.21%	11.00%	-0.26%	11.00%	NO MAX
502	Garrison	7	7	10.58%	7.27%	17.85%	0.12%	17.97%	10.73%	8.01%	18.74%	0.14%	18.88%	0.91%	18.88%	NO MAX
503	Gary	4	4	3.76%	3.34%	7.10%	0.00%	7.10%	3.76%	3.34%	7.10%	0.00%	7.10%	0.00%	7.10%	7.50%
504	Gatesville	76	74	9.65%	5.84%	15.49%	0.23%	15.72%	9.55%	5.50%	15.05%	0.23%	15.28%	-0.44%	15.28%	NO MAX
505	George West	33	28	4.31%	1.66%	5.97%	0.15%	6.12%	4.37%	1.79%	6.16%	0.17%	6.33%	0.21%	6.33%	NO MAX
506	Georgetown	630	653	9.08%	3.33%	12.41%	0.13%	12.54%	9.08%	3.15%	12.23%	0.13%	12.36%	-0.18%	12.36%	13.50%
510	Giddings	67	65	9.78%	9.58%	19.36%	0.25%	19.61%	9.02%	9.81%	18.83%	0.28%	19.11%	-0.50%	19.11%	NO MAX
512	Gilmer	47	49	8.59%	5.14%	13.73%	0.20%	13.93%	8.60%	5.06%	13.66%	0.23%	13.89%	-0.04%	13.89%	NO MAX
514	Gladewater	52	55	3.31%	0.00%	3.31%	0.18%	3.49%	3.31%	-0.75%	2.56%	0.19%	2.75%	-0.74%	2.75%	7.50%
516	Glen Rose	25	29	11.69%	3.13%	14.82%	0.29%	15.11%	11.69%	2.88%	14.57%	0.31%	14.88%	-0.23%	14.88%	NO MAX
517	Glenn Heights	70	73	3.68%	-0.09%	3.59%	0.14%	3.73%	3.60%	-0.47%	3.13%	0.14%	3.27%	-0.46%	3.27%	12.50%
518	Godley	10	11	1.46%	0.77%	2.23%	0.12%	2.35%	1.68%	0.85%	2.53%	0.18%	2.71%	0.36%	2.71%	8.50%
519	Goldsmith	3	4	1.86%	2.54%	4.40%	0.44%	4.84%	1.67%	1.95%	3.62%	0.41%	4.03%	-0.81%	4.03%	7.50%
520	Goldthwaite	12	11	10.51%	13.17%	23.68%	0.32%	24.00%	10.37%	11.88%	22.25%	0.26%	22.51%	-1.49%	22.51%	NO MAX
522	Goliad	12	15	5.05%	-2.72%	2.33%	0.26%	2.59%	4.93%	-2.74%	2.19%	0.23%	2.42%	-0.17%	2.42%	NO MAX
524	Gonzales	110	106	6.23%	4.46%	10.69%	0.22%	10.91%	6.28%	4.40%	10.68%	0.23%	10.91%	0.00%	10.91%	NO MAX
530	Gorman	N/A	7	1.41%	9.53%	10.94%	0.10%	11.04%	1.75%	6.80%	8.55%	0.14%	8.69%	-2.35%	8.69%	NO MAX
532	Graford	3	3	2.11%	0.78%	2.89%	0.22%	3.11%	2.09%	0.79%	2.88%	0.24%	3.12%	0.01%	3.12%	NO MAX
10534	Graham	87	84	6.94%	4.36%	11.30%	0.31%	11.61%	6.92%	3.52%	10.44%	0.32%	10.76%	-0.85%	10.76%	NO MAX
536	Granbury	155	157	10.03%	6.11%	16.14%	0.23%	16.37%	10.03%	5.94%	15.97%	0.23%	16.20%	-0.17%	16.20%	NO MAX
540	Grand Prairie	1,283	1,313	10.10%	6.02%	16.12%	0.18%	16.30%	10.06%	5.85%	15.91%	0.18%	16.09%	-0.21%	16.09%	NO MAX
542	Grand Saline	23	22	4.87%	-0.13%	4.74%	0.36%	5.10%	4.73%	-0.50%	4.23%	0.30%	4.53%	-0.57%	4.53%	9.50%
544	Grandview	16	16	6.37%	0.06%	6.43%	0.00%	6.43%	7.29%	-1.10%	6.19%	0.00%	6.19%	-0.24%	6.19%	11.50%

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				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	9	9	2.11%	-1.55%	0.56%	0.00%	0.56%	2.17%	-1.52%	0.65%	0.00%	0.65%	0.09%	0.65%	7.50%
547	Granite Shoals	33	31	4.62%	0.41%	5.03%	0.23%	5.26%	4.62%	0.39%	5.01%	0.26%	5.27%	0.01%	5.27%	NO MAX
548	Grapeland	8	8	3.60%	0.78%	4.38%	0.00%	4.38%	3.51%	0.21%	3.72%	0.00%	3.72%	-0.66%	3.72%	7.50%
550	Grapevine	566	575	11.50%	7.48%	18.98%	0.00%	18.98%	11.44%	7.14%	18.58%	0.00%	18.58%	-0.40%	18.58%	NO MAX
552	Greenville	324	320	7.51%	3.87%	11.38%	0.24%	11.62%	7.43%	3.37%	10.80%	0.26%	11.06%	-0.56%	11.06%	NO MAX
551	Gregory	11	9	5.85%	-1.53%	4.32%	0.18%	4.50%	6.23%	-2.14%	4.09%	0.25%	4.34%	-0.16%	4.34%	9.50%
553	Grey Forest	40	39	9.70%	5.35%	15.05%	0.25%	15.30%	9.47%	5.91%	15.38%	0.22%	15.60%	0.30%	15.60%	NO MAX
556	Groesbeck	32	30	1.33%	1.18%	2.51%	0.22%	2.73%	1.33%	1.17%	2.50%	0.22%	2.72%	-0.01%	2.72%	NO MAX
558	Groom	4	4	3.28%	-0.06%	3.22%	0.00%	3.22%	3.28%	-0.38%	2.90%	0.00%	2.90%	-0.32%	2.90%	7.50%
559	Groves	96	97	7.26%	2.31%	9.57%	0.00%	9.57%	7.28%	2.04%	9.32%	0.00%	9.32%	-0.25%	9.32%	NO MAX
560	Groveton	10	11	1.96%	-0.09%	1.87%	0.33%	2.20%	2.11%	-0.12%	1.99%	0.37%	2.36%	0.16%	2.36%	7.50%
562	Gruver	5	5	7.49%	3.70%	11.19%	0.00%	11.19%	7.50%	5.44%	12.94%	0.00%	12.94%	1.75%	11.96%	12.50%
563	Gun Barrel City	41	39	5.37%	1.00%	6.37%	0.17%	6.54%	5.42%	-0.32%	5.10%	0.19%	5.29%	-1.25%	5.29%	11.50%
564	Gunter	9	8	5.39%	-2.29%	3.10%	0.16%	3.26%	5.38%	-1.42%	3.96%	0.17%	4.13%	0.87%	4.13%	NO MAX
568	Hale Center	10	11	1.88%	0.03%	1.91%	0.22%	2.13%	1.90%	0.06%	1.96%	0.23%	2.19%	0.06%	2.19%	NO MAX
570	Hallettsville	34	34	6.99%	5.60%	12.59%	0.28%	12.87%	6.88%	4.89%	11.77%	0.27%	12.04%	-0.83%	12.04%	NO MAX
572	Hallsville	16	17	1.44%	1.56%	3.00%	0.23%	3.23%	1.58%	1.44%	3.02%	0.22%	3.24%	0.01%	3.24%	NO MAX
574	Haltom City	262	259	10.55%	8.43%	18.98%	0.18%	19.16%	10.56%	8.28%	18.84%	0.18%	19.02%	-0.14%	19.02%	NO MAX
576	Hamilton	22	27	11.48%	7.20%	18.68%	0.22%	18.90%	11.46%	6.42%	17.88%	0.26%	18.14%	-0.76%	18.14%	NO MAX
578	Hamlin	16	15	7.76%	5.35%	13.11%	0.30%	13.41%	7.87%	6.06%	13.93%	0.33%	14.26%	0.85%	14.26%	NO MAX
580	Happy	2	2	8.38%	11.01%	19.39%	0.36%	19.75%	8.36%	-0.03%	8.33%	0.37%	8.70%	-11.05%	8.70%	NO MAX
581	Harker Heights	208	215	10.09%	4.82%	14.91%	0.14%	15.05%	10.03%	4.86%	14.89%	0.14%	15.03%	-0.02%	15.03%	NO MAX
10582	Harlingen	202	179	5.01%	6.39%	11.40%	0.33%	11.73%	4.96%	5.53%	10.49%	0.35%	10.84%	-0.89%	10.84%	15.50%
20582	Harlingen Waterworks Sys	141	135	1.99%	-0.09%	1.90%	0.26%	2.16%	1.99%	-0.12%	1.87%	0.26%	2.13%	-0.03%	2.13%	9.50%
583	Hart	3	5	1.11%	2.91%	4.02%	0.00%	4.02%	1.12%	2.81%	3.93%	0.00%	3.93%	-0.09%	3.93%	NO MAX
586	Haskell	19	19	1.59%	-1.59%	0.00%	0.16%	0.16%	1.74%	-1.74%	0.00%	0.19%	0.19%	0.03%	0.19%	9.50%
587	Haslet	24	24	8.78%	-0.19%	8.59%	0.16%	8.75%	8.91%	-0.12%	8.79%	0.18%	8.97%	0.22%	8.97%	15.50%
588	Hawkins	11	10	8.75%	6.51%	15.26%	0.28%	15.54%	8.65%	6.14%	14.79%	0.22%	15.01%	-0.53%	15.01%	NO MAX
585	Hays	1	1	10.88%	-5.42%	5.46%	0.53%	5.99%	10.07%	-6.87%	3.20%	0.64%	3.84%	-2.15%	3.84%	NO MAX
590	Hearne	50	56	8.74%	6.62%	15.36%	0.21%	15.57%	9.04%	6.04%	15.08%	0.23%	15.31%	-0.26%	15.31%	NO MAX
591	Heath	49	49	9.38%	1.79%	11.17%	0.18%	11.35%	9.55%	1.59%	11.14%	0.20%	11.34%	-0.01%	11.34%	13.50%
592	Hedley	2	2	4.82%	-0.66%	4.16%	0.41%	4.57%	4.72%	-0.60%	4.12%	0.38%	4.50%	-0.07%	4.50%	11.50%
595	Hedwig Village	29	29	4.71%	2.56%	7.27%	0.23%	7.50%	4.97%	2.25%	7.22%	0.25%	7.47%	-0.03%	7.47%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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	62	72	5.33%	1.47%	6.80%	0.13%	6.93%	5.24%	1.33%	6.57%	0.13%	6.70%	-0.23%	6.70%	12.50%
594	Hemphill	25	24	4.95%	3.04%	7.99%	0.35%	8.34%	4.90%	2.88%	7.78%	0.38%	8.16%	-0.18%	8.16%	11.50%
596	Hempstead	71	76	6.36%	1.64%	8.00%	0.22%	8.22%	6.35%	1.55%	7.90%	0.23%	8.13%	-0.09%	8.13%	NO MAX
598	Henderson	123	121	8.64%	7.52%	16.16%	0.16%	16.32%	8.61%	6.54%	15.15%	0.16%	15.31%	-1.01%	15.31%	NO MAX
600	Henrietta	17	17	10.13%	4.51%	14.64%	0.26%	14.90%	9.94%	4.86%	14.80%	0.24%	15.04%	0.14%	15.04%	NO MAX
602	Hereford	96	94	6.45%	4.16%	10.61%	0.21%	10.82%	6.53%	4.03%	10.56%	0.22%	10.78%	-0.04%	10.78%	11.50%
605	Hewitt	91	91	10.89%	5.04%	15.93%	0.12%	16.05%	10.88%	4.88%	15.76%	0.12%	15.88%	-0.17%	15.88%	NO MAX
609	Hickory Creek	20	21	9.86%	2.06%	11.92%	0.09%	12.01%	10.16%	1.91%	12.07%	0.09%	12.16%	0.15%	12.16%	13.50%
606	Hico	12	13	6.38%	-1.00%	5.38%	0.31%	5.69%	5.86%	-1.03%	4.83%	0.25%	5.08%	-0.61%	5.08%	11.50%
607	Hidalgo	150	150	9.59%	2.97%	12.56%	0.00%	12.56%	9.62%	3.11%	12.73%	0.00%	12.73%	0.17%	12.73%	13.50%
608	Higgins	3	3	4.22%	-0.39%	3.83%	0.44%	4.27%	4.03%	-0.57%	3.46%	0.25%	3.71%	-0.56%	3.71%	NO MAX
610	Highland Park	121	118	6.27%	-0.73%	5.54%	0.00%	5.54%	6.31%	-0.90%	5.41%	0.00%	5.41%	-0.13%	5.34%	NO MAX
611	Highland Village	150	153	10.60%	2.95%	13.55%	0.16%	13.71%	10.51%	2.84%	13.35%	0.15%	13.50%	-0.21%	13.50%	NO MAX
613	Hill Country Village	14	15	4.27%	-0.55%	3.72%	0.12%	3.84%	4.24%	-0.53%	3.71%	0.14%	3.85%	0.01%	3.85%	11.50%
612	Hillsboro	100	98	6.18%	5.28%	11.46%	0.00%	11.46%	6.10%	4.95%	11.05%	0.00%	11.05%	-0.41%	11.05%	NO MAX
619	Hilshire Village	2	2	6.67%	9.20%	15.87%	0.21%	16.08%	5.76%	7.23%	12.99%	0.22%	13.21%	-2.87%	13.21%	NO MAX
614	Hitchcock	52	51	3.83%	0.30%	4.13%	0.21%	4.34%	3.98%	0.25%	4.23%	0.25%	4.48%	0.14%	4.48%	11.50%
615	Holland	7	7	6.03%	2.08%	8.11%	0.45%	8.56%	6.00%	2.00%	8.00%	0.48%	8.48%	-0.08%	8.48%	10.50%
616	Holliday	9	10	2.89%	-0.08%	2.81%	0.00%	2.81%	2.80%	-0.08%	2.72%	0.00%	2.72%	-0.09%	2.72%	9.50%
617	Hollywood Park	33	38	6.65%	2.33%	8.98%	0.16%	9.14%	6.79%	2.01%	8.80%	0.17%	8.97%	-0.17%	8.97%	10.50%
618	Hondo	108	111	6.96%	2.02%	8.98%	0.22%	9.20%	6.83%	1.55%	8.38%	0.17%	8.55%	-0.65%	8.55%	11.50%
620	Honey Grove	9	10	6.77%	1.67%	8.44%	0.35%	8.79%	6.50%	1.25%	7.75%	0.34%	8.09%	-0.70%	8.09%	9.50%
622	Hooks	14	14	7.78%	6.41%	14.19%	0.22%	14.41%	8.02%	5.47%	13.49%	0.28%	13.77%	-0.64%	13.77%	13.50%
626	Howe	15	15	5.51%	0.26%	5.77%	0.29%	6.06%	5.48%	-0.06%	5.42%	0.32%	5.74%	-0.32%	5.74%	11.50%
627	Hubbard	12	12	1.28%	-0.69%	0.59%	0.21%	0.80%	1.37%	-0.58%	0.79%	0.23%	1.02%	0.22%	1.02%	NO MAX
628	Hudson	15	15	3.94%	0.50%	4.44%	0.19%	4.63%	3.96%	0.40%	4.36%	0.20%	4.56%	-0.07%	4.56%	NO MAX
629	Hudson Oaks	23	21	9.78%	2.95%	12.73%	0.10%	12.83%	9.86%	2.10%	11.96%	0.12%	12.08%	-0.75%	12.08%	13.50%
630	Hughes Springs	12	12	10.30%	4.40%	14.70%	0.29%	14.99%	10.43%	-1.35%	9.08%	0.30%	9.38%	-5.61%	9.38%	NO MAX
632	Humble	195	197	9.49%	4.10%	13.59%	0.17%	13.76%	9.49%	3.94%	13.43%	0.16%	13.59%	-0.17%	13.59%	NO MAX
633	Hunters Creek Village	8	8	9.40%	6.63%	16.03%	0.38%	16.41%	9.13%	7.10%	16.23%	0.35%	16.58%	0.17%	15.79%	NO MAX
634	Huntington	19	19	10.22%	4.07%	14.29%	0.19%	14.48%	10.03%	4.09%	14.12%	0.21%	14.33%	-0.15%	14.33%	NO MAX
636	Huntsville	258	244	8.03%	10.63%	18.66%	0.19%	18.85%	8.19%	10.18%	18.37%	0.21%	18.58%	-0.27%	18.58%	NO MAX
637	Hurst	401	399	8.03%	2.82%	10.85%	0.00%	10.85%	7.99%	2.86%	10.85%	0.00%	10.85%	0.00%	10.85%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
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CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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					
638	Hutchins	65	66	7.55%	0.83%	8.38%	0.12%	8.50%	7.51%	1.19%	8.70%	0.12%	8.82%	0.32%	8.82%	11.50%
640	Hutto	98	111	11.45%	1.52%	12.97%	0.12%	13.09%	11.90%	0.19%	12.09%	0.12%	12.21%	-0.88%	12.21%	NO MAX
641	Huxley	10	10	2.96%	-1.48%	1.48%	0.24%	1.72%	2.99%	-1.73%	1.26%	0.24%	1.50%	-0.22%	1.50%	9.50%
642	Idalou	14	13	3.73%	0.72%	4.45%	0.07%	4.52%	3.73%	0.62%	4.35%	0.07%	4.42%	-0.10%	4.42%	NO MAX
643	Ingleside	85	75	8.39%	2.66%	11.05%	0.32%	11.37%	7.24%	2.63%	9.87%	0.32%	10.19%	-1.18%	10.19%	11.50%
646	Ingram	14	12	4.56%	1.11%	5.67%	0.00%	5.67%	4.72%	1.02%	5.74%	0.00%	5.74%	0.07%	5.74%	9.50%
647	Iowa Colony	6	8	5.08%	17.41%	22.49%	0.48%	22.97%	5.03%	14.28%	19.31%	0.45%	19.76%	-3.21%	19.76%	NO MAX
644	Iowa Park	45	42	7.05%	8.08%	15.13%	0.25%	15.38%	6.96%	7.73%	14.69%	0.23%	14.92%	-0.46%	14.92%	NO MAX
645	Iraan	6	6	6.47%	10.44%	16.91%	0.42%	17.33%	6.69%	10.31%	17.00%	0.48%	17.48%	0.15%	17.29%	NO MAX
648	Irving	1,421	1,450	9.47%	5.03%	14.50%	0.18%	14.68%	9.53%	4.81%	14.34%	0.18%	14.52%	-0.16%	14.52%	NO MAX
650	Italy	18	16	1.29%	1.30%	2.59%	0.17%	2.76%	1.70%	1.39%	3.09%	0.24%	3.33%	0.57%	3.33%	NO MAX
652	Itasca	16	19	12.57%	-1.90%	10.67%	0.23%	10.90%	11.97%	-1.60%	10.37%	0.23%	10.60%	-0.30%	10.60%	13.50%
654	Jacinto City	59	56	4.60%	2.97%	7.57%	0.28%	7.85%	4.63%	3.15%	7.78%	0.32%	8.10%	0.25%	8.10%	9.50%
656	Jacksboro	39	40	10.11%	3.92%	14.03%	0.19%	14.22%	9.88%	4.37%	14.25%	0.22%	14.47%	0.25%	14.47%	NO MAX
658	Jacksonville	124	135	7.50%	3.58%	11.08%	0.20%	11.28%	7.51%	3.25%	10.76%	0.19%	10.95%	-0.33%	10.95%	NO MAX
660	Jasper	114	119	5.23%	4.29%	9.52%	0.23%	9.75%	5.17%	3.77%	8.94%	0.23%	9.17%	-0.58%	9.17%	15.50%
664	Jefferson	20	19	2.21%	-0.52%	1.69%	0.29%	1.98%	2.27%	-1.05%	1.22%	0.31%	1.53%	-0.45%	1.53%	NO MAX
665	Jersey Village	94	93	10.44%	4.60%	15.04%	0.18%	15.22%	10.09%	4.64%	14.73%	0.16%	14.89%	-0.33%	14.89%	NO MAX
666	Jewett	6	6	5.16%	3.95%	9.11%	0.24%	9.35%	5.17%	4.15%	9.32%	0.26%	9.58%	0.23%	9.58%	9.50%
668	Joaquin	4	5	2.23%	3.03%	5.26%	0.42%	5.68%	1.92%	2.75%	4.67%	0.44%	5.11%	-0.57%	5.11%	NO MAX
670	Johnson City	15	16	6.58%	3.49%	10.07%	0.17%	10.24%	6.52%	3.57%	10.09%	0.19%	10.28%	0.04%	10.28%	10.50%
673	Jones Creek	5	6	4.04%	3.34%	7.38%	0.36%	7.74%	3.01%	3.43%	6.44%	0.24%	6.68%	-1.06%	6.68%	NO MAX
675	Jonestown	26	26	6.38%	0.77%	7.15%	0.19%	7.34%	6.29%	0.71%	7.00%	0.20%	7.20%	-0.14%	7.20%	NO MAX
677	Josephine	6	7	5.82%	0.85%	6.67%	0.09%	6.76%	5.85%	0.50%	6.35%	0.09%	6.44%	-0.32%	6.44%	NO MAX
671	Joshua	35	36	5.91%	0.03%	5.94%	0.11%	6.05%	5.87%	0.10%	5.97%	0.10%	6.07%	0.02%	6.07%	13.50%
672	Jourdanton	40	41	5.07%	1.14%	6.21%	0.25%	6.46%	5.17%	0.87%	6.04%	0.26%	6.30%	-0.16%	6.30%	9.50%
674	Junction	19	20	10.46%	3.98%	14.44%	0.23%	14.67%	10.41%	4.30%	14.71%	0.24%	14.95%	0.28%	14.95%	NO MAX
676	Justin	28	30	6.69%	2.43%	9.12%	0.00%	9.12%	6.40%	1.26%	7.66%	0.00%	7.66%	-1.46%	7.66%	13.50%
678	Karnes City	30	29	3.61%	1.59%	5.20%	0.21%	5.41%	3.65%	1.58%	5.23%	0.21%	5.44%	0.03%	5.44%	NO MAX
680	Katy	185	200	11.24%	3.04%	14.28%	0.17%	14.45%	11.23%	2.82%	14.05%	0.17%	14.22%	-0.23%	14.22%	NO MAX
682	Kaufman	60	62	8.17%	1.16%	9.33%	0.20%	9.53%	8.08%	1.22%	9.30%	0.20%	9.50%	-0.03%	9.50%	NO MAX
683	Keene	56	44	8.03%	3.58%	11.61%	0.17%	11.78%	8.92%	3.10%	12.02%	0.17%	12.19%	0.41%	12.19%	NO MAX
681	Keller	291	287	10.14%	5.37%	15.51%	0.14%	15.65%	10.19%	5.26%	15.45%	0.14%	15.59%	-0.06%	15.59%	NO MAX

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CITY NUMBER	CITY NAME	Contributing Members		2018 RATES					2019 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						
685	Kemah	35	36	6.38%	0.74%	7.12%	0.17%	7.29%	6.26%	0.78%	7.04%	0.16%	7.20%	-0.09%	7.20%	NO MAX
684	Kemp	15	19	5.88%	-1.27%	4.61%	0.00%	4.61%	5.97%	-0.93%	5.04%	0.00%	5.04%	0.43%	5.04%	11.50%
686	Kenedy	43	43	3.05%	1.41%	4.46%	0.18%	4.64%	3.13%	1.10%	4.23%	0.20%	4.43%	-0.21%	4.43%	7.50%
688	Kennedale	72	72	10.64%	3.23%	13.87%	0.18%	14.05%	10.82%	3.03%	13.85%	0.25%	14.10%	0.05%	14.10%	NO MAX
690	Kerens	11	11	2.03%	6.25%	8.28%	0.17%	8.45%	2.06%	6.26%	8.32%	0.20%	8.52%	0.07%	8.52%	NO MAX
692	Kermit	49	52	9.07%	6.48%	15.55%	0.25%	15.80%	9.19%	6.97%	16.16%	0.26%	16.42%	0.62%	16.42%	NO MAX
10694	Kerrville	303	304	7.53%	2.41%	9.94%	0.19%	10.13%	7.60%	2.45%	10.05%	0.19%	10.24%	0.11%	10.24%	15.50%
20694	Kerrville PUB	56	56	8.96%	3.31%	12.27%	0.19%	12.46%	8.78%	3.26%	12.04%	0.18%	12.22%	-0.24%	12.22%	NO MAX
10696	Kilgore	156	155	9.95%	5.10%	15.05%	0.23%	15.28%	9.86%	4.35%	14.21%	0.24%	14.45%	-0.83%	14.45%	NO MAX
698	Killeen	1,004	947	5.72%	4.06%	9.78%	0.16%	9.94%	5.78%	4.13%	9.91%	0.17%	10.08%	0.14%	10.08%	13.50%
700	Kingsville	270	260	6.57%	2.22%	8.79%	0.00%	8.79%	6.58%	2.10%	8.68%	0.00%	8.68%	-0.11%	8.68%	NO MAX
701	Kirby	51	54	10.52%	3.91%	14.43%	0.14%	14.57%	10.82%	3.83%	14.65%	0.11%	14.76%	0.19%	14.76%	NO MAX
702	Kirbyville	25	25	2.92%	2.59%	5.51%	0.30%	5.81%	3.04%	2.42%	5.46%	0.34%	5.80%	-0.01%	5.80%	7.50%
704	Knox City	9	8	4.18%	-1.42%	2.76%	0.40%	3.16%	4.11%	-1.53%	2.58%	0.44%	3.02%	-0.14%	3.02%	9.50%
706	Kosse	N/A	4	2.12%	2.49%	4.61%	0.10%	4.71%	2.01%	3.17%	5.18%	0.15%	5.33%	0.62%	5.33%	NO MAX
708	Kountze	22	24	1.36%	0.07%	1.43%	0.13%	1.56%	1.30%	0.03%	1.33%	0.17%	1.50%	-0.06%	1.50%	NO MAX
709	Kress	1	1	3.35%	-3.35%	0.00%	0.00%	0.00%	2.91%	-2.91%	0.00%	0.00%	0.00%	0.00%	0.00%	NO MAX
699	Krugerville	10	10	7.76%	0.69%	8.45%	0.10%	8.55%	7.71%	0.91%	8.62%	0.12%	8.74%	0.19%	8.74%	NO MAX
707	Krum	29	32	5.78%	-0.02%	5.76%	0.15%	5.91%	5.81%	-0.08%	5.73%	0.14%	5.87%	-0.04%	5.87%	12.50%
710	Kyle	179	197	10.11%	2.30%	12.41%	0.13%	12.54%	10.46%	2.03%	12.49%	0.12%	12.61%	0.07%	12.61%	13.50%
725	La Coste	7	8	2.04%	-0.64%	1.40%	0.00%	1.40%	2.05%	-0.57%	1.48%	0.00%	1.48%	0.08%	1.48%	7.50%
714	La Feria	52	53	4.64%	6.12%	10.76%	0.22%	10.98%	4.97%	6.08%	11.05%	0.22%	11.27%	0.29%	11.27%	NO MAX
716	La Grange	68	64	9.57%	5.70%	15.27%	0.28%	15.55%	9.45%	5.38%	14.83%	0.27%	15.10%	-0.45%	15.10%	NO MAX
723	La Grulla	31	27	6.47%	-0.89%	5.58%	0.15%	5.73%	6.55%	-0.91%	5.64%	0.18%	5.82%	0.09%	5.82%	11.50%
732	La Joya	41	39	1.48%	4.57%	6.05%	0.19%	6.24%	1.49%	4.72%	6.21%	0.20%	6.41%	0.17%	6.41%	NO MAX
721	La Marque	109	117	9.65%	5.04%	14.69%	0.16%	14.85%	9.95%	4.84%	14.79%	0.17%	14.96%	0.11%	14.96%	NO MAX
728	La Porte	373	373	9.47%	6.64%	16.11%	0.17%	16.28%	9.30%	6.23%	15.53%	0.17%	15.70%	-0.58%	15.70%	NO MAX
731	La Vernia	17	17	1.86%	1.18%	3.04%	0.14%	3.18%	2.11%	1.17%	3.28%	0.16%	3.44%	0.26%	3.44%	NO MAX
711	Lacy-Lakeview	51	47	9.41%	5.03%	14.44%	0.21%	14.65%	9.44%	4.92%	14.36%	0.21%	14.57%	-0.08%	14.57%	NO MAX
712	Ladonia	2	2	7.23%	-3.95%	3.28%	0.29%	3.57%	9.55%	-5.01%	4.54%	0.49%	5.03%	1.46%	5.03%	NO MAX
713	Lago Vista	90	88	6.94%	0.93%	7.87%	0.24%	8.11%	6.73%	1.04%	7.77%	0.23%	8.00%	-0.11%	8.00%	12.50%
705	Laguna Vista	17	17	4.76%	0.43%	5.19%	0.14%	5.33%	4.80%	-0.25%	4.55%	0.16%	4.71%	-0.62%	4.71%	NO MAX
717	Lake Dallas	33	28	10.42%	3.04%	13.46%	0.25%	13.71%	9.98%	2.56%	12.54%	0.16%	12.70%	-1.01%	12.70%	13.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES					2019 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						
718	Lake Jackson	217	216	8.19%	3.95%	12.14%	0.22%	12.36%	8.23%	3.75%	11.98%	0.21%	12.19%	-0.17%	12.19%	NO MAX
719	Lake Worth	94	91	9.04%	4.31%	13.35%	0.16%	13.51%	8.61%	4.68%	13.29%	0.16%	13.45%	-0.06%	13.45%	NO MAX
727	Lakeport	5	6	3.28%	-3.28%	0.00%	0.16%	0.16%	3.14%	-3.14%	0.00%	0.10%	0.10%	-0.06%	0.10%	NO MAX
715	Lakeside	15	15	7.14%	0.71%	7.85%	0.26%	8.11%	7.47%	0.66%	8.13%	0.33%	8.46%	0.35%	8.46%	12.50%
729	Lakeside City	4	4	1.96%	0.38%	2.34%	0.18%	2.52%	1.96%	0.51%	2.47%	0.20%	2.67%	0.15%	2.67%	NO MAX
720	Lakeway	105	110	10.24%	3.50%	13.74%	0.16%	13.90%	10.28%	3.64%	13.92%	0.18%	14.10%	0.20%	14.10%	15.50%
722	Lamesa	69	77	5.00%	-0.26%	4.74%	0.00%	4.74%	5.04%	-0.59%	4.45%	0.00%	4.45%	-0.29%	4.45%	13.50%
724	Lampasas	117	114	9.65%	5.17%	14.82%	0.18%	15.00%	9.62%	5.62%	15.24%	0.19%	15.43%	0.43%	15.43%	NO MAX
726	Lancaster	244	247	8.56%	4.90%	13.46%	0.13%	13.59%	8.53%	4.86%	13.39%	0.13%	13.52%	-0.07%	13.52%	NO MAX
730	Laredo	2,134	2,089	10.03%	10.84%	20.87%	0.20%	21.07%	9.99%	10.79%	20.78%	0.21%	20.99%	-0.08%	20.99%	NO MAX
733	Lavon	17	18	5.30%	0.32%	5.62%	0.19%	5.81%	5.10%	0.18%	5.28%	0.16%	5.44%	-0.37%	5.44%	NO MAX
736	League City	490	508	9.49%	5.62%	15.11%	0.15%	15.26%	9.35%	5.70%	15.05%	0.17%	15.22%	-0.04%	15.22%	15.50%
737	Leander	241	271	9.83%	2.61%	12.44%	0.14%	12.58%	9.81%	2.42%	12.23%	0.14%	12.37%	-0.21%	12.37%	13.50%
735	Lefors	3	3	1.17%	2.42%	3.59%	0.05%	3.64%	1.61%	2.33%	3.94%	0.07%	4.01%	0.37%	4.01%	NO MAX
739	Leon Valley	99	103	8.81%	4.41%	13.22%	0.18%	13.40%	9.11%	4.14%	13.25%	0.18%	13.43%	0.03%	13.43%	NO MAX
738	Leonard	15	14	2.69%	-0.43%	2.26%	0.28%	2.54%	2.32%	-0.39%	1.93%	0.21%	2.14%	-0.40%	2.14%	9.50%
740	Levelland	94	95	8.22%	4.11%	12.33%	0.20%	12.53%	8.47%	3.22%	11.69%	0.20%	11.89%	-0.64%	11.89%	NO MAX
742	Lewisville	743	758	10.14%	6.15%	16.29%	0.00%	16.29%	10.20%	6.08%	16.28%	0.00%	16.28%	-0.01%	16.28%	NO MAX
744	Lexington	11	13	6.46%	1.95%	8.41%	0.00%	8.41%	6.38%	2.17%	8.55%	0.00%	8.55%	0.14%	8.55%	NO MAX
746	Liberty	97	94	5.47%	13.27%	18.74%	0.00%	18.74%	5.49%	12.34%	17.83%	0.00%	17.83%	-0.91%	17.83%	NO MAX
745	Liberty Hill	21	22	6.77%	0.29%	7.06%	0.18%	7.24%	6.78%	0.09%	6.87%	0.21%	7.08%	-0.16%	7.08%	NO MAX
748	Lindale	50	53	8.30%	5.92%	14.22%	0.00%	14.22%	8.22%	6.39%	14.61%	0.00%	14.61%	0.39%	14.61%	NO MAX
750	Linden	15	15	2.01%	-0.56%	1.45%	0.34%	1.79%	1.89%	-0.66%	1.23%	0.36%	1.59%	-0.20%	1.59%	7.50%
755	Lipan	4	4	1.88%	0.60%	2.48%	0.23%	2.71%	1.88%	0.58%	2.46%	0.25%	2.71%	0.00%	2.71%	NO MAX
751	Little Elm	218	232	11.02%	2.39%	13.41%	0.13%	13.54%	10.96%	2.22%	13.18%	0.13%	13.31%	-0.23%	13.31%	13.50%
752	Littlefield	55	57	6.29%	3.40%	9.69%	0.23%	9.92%	6.34%	2.91%	9.25%	0.26%	9.51%	-0.41%	9.51%	11.50%
753	Live Oak	112	111	10.45%	7.32%	17.77%	0.17%	17.94%	10.40%	7.55%	17.95%	0.18%	18.13%	0.19%	18.13%	NO MAX
757	Liverpool	3	4	2.06%	0.59%	2.65%	0.26%	2.91%	1.99%	0.69%	2.68%	0.22%	2.90%	-0.01%	2.90%	NO MAX
754	Livingston	81	83	8.77%	7.71%	16.48%	0.24%	16.72%	8.83%	5.98%	14.81%	0.23%	15.04%	-1.68%	15.04%	NO MAX
756	Llano	45	44	7.95%	6.64%	14.59%	0.27%	14.86%	7.87%	6.80%	14.67%	0.28%	14.95%	0.09%	14.95%	NO MAX
758	Lockhart	133	134	7.46%	5.75%	13.21%	0.25%	13.46%	7.41%	5.59%	13.00%	0.26%	13.26%	-0.20%	13.26%	NO MAX
760	Lockney	4	3	2.60%	-2.60%	0.00%	0.32%	0.32%	2.74%	-2.74%	0.00%	0.52%	0.52%	0.20%	0.52%	7.50%
765	Lone Star	11	11	3.29%	-1.01%	2.28%	0.17%	2.45%	3.35%	-1.22%	2.13%	0.19%	2.32%	-0.13%	2.32%	7.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
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CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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					
766	Longview	665	663	7.29%	3.86%	11.15%	0.21%	11.36%	7.21%	3.54%	10.75%	0.21%	10.96%	-0.40%	10.96%	15.50%
768	Loraine	3	3	2.76%	-0.25%	2.51%	0.05%	2.56%	2.99%	-0.36%	2.63%	0.06%	2.69%	0.13%	2.69%	NO MAX
769	Lorena	16	18	6.63%	0.17%	6.80%	0.19%	6.99%	6.56%	0.11%	6.67%	0.19%	6.86%	-0.13%	6.86%	10.50%
770	Lorenzo	8	8	5.16%	-2.14%	3.02%	0.00%	3.02%	5.11%	-3.07%	2.04%	0.00%	2.04%	-0.98%	2.04%	9.50%
771	Los Fresnos	53	55	3.59%	-0.48%	3.11%	0.17%	3.28%	3.68%	-0.47%	3.21%	0.17%	3.38%	0.10%	3.38%	11.50%
773	Lott	8	7	1.68%	-0.15%	1.53%	0.11%	1.64%	1.44%	-0.24%	1.20%	0.09%	1.29%	-0.35%	1.29%	NO MAX
774	Lovelady	3	3	6.70%	1.96%	8.66%	0.12%	8.78%	6.66%	2.29%	8.95%	0.12%	9.07%	0.29%	9.07%	NO MAX
778	Lubbock	1,743	1,751	9.96%	8.09%	18.05%	0.00%	18.05%	9.91%	7.80%	17.71%	0.00%	17.71%	-0.34%	17.71%	NO MAX
779	Lucas	30	37	11.03%	2.40%	13.43%	0.13%	13.56%	10.64%	2.19%	12.83%	0.12%	12.95%	-0.61%	12.95%	15.50%
782	Lufkin	365	366	8.70%	7.94%	16.64%	0.21%	16.85%	8.50%	7.84%	16.34%	0.23%	16.57%	-0.28%	16.57%	NO MAX
784	Luling	77	84	5.86%	3.51%	9.37%	0.35%	9.72%	5.93%	3.37%	9.30%	0.30%	9.60%	-0.12%	9.60%	11.50%
785	Lumberton	41	40	10.34%	6.56%	16.90%	0.22%	17.12%	10.47%	6.12%	16.59%	0.22%	16.81%	-0.31%	16.81%	NO MAX
786	Lyford	16	17	1.37%	3.25%	4.62%	0.00%	4.62%	1.42%	2.79%	4.21%	0.00%	4.21%	-0.41%	4.21%	NO MAX
787	Lytle	21	23	6.43%	3.19%	9.62%	0.18%	9.80%	6.46%	3.28%	9.74%	0.19%	9.93%	0.13%	9.93%	11.50%
790	Madisonville	40	37	6.73%	2.67%	9.40%	0.34%	9.74%	6.66%	2.51%	9.17%	0.34%	9.51%	-0.23%	9.51%	11.50%
791	Magnolia	32	31	2.08%	-0.26%	1.82%	0.31%	2.13%	2.06%	-0.39%	1.67%	0.31%	1.98%	-0.15%	1.98%	8.50%
792	Malakoff	26	27	5.94%	1.21%	7.15%	0.24%	7.39%	6.06%	1.40%	7.46%	0.26%	7.72%	0.33%	7.72%	13.50%
796	Manor	59	67	4.09%	0.18%	4.27%	0.11%	4.38%	4.00%	0.24%	4.24%	0.11%	4.35%	-0.03%	4.35%	NO MAX
798	Mansfield	497	490	10.89%	4.05%	14.94%	0.15%	15.09%	10.84%	4.11%	14.95%	0.15%	15.10%	0.01%	15.10%	NO MAX
799	Manvel	41	45	6.17%	6.27%	12.44%	0.14%	12.58%	6.19%	5.41%	11.60%	0.14%	11.74%	-0.84%	11.74%	13.50%
800	Marble Falls	104	106	5.60%	0.13%	5.73%	0.19%	5.92%	5.75%	0.03%	5.78%	0.19%	5.97%	0.05%	5.97%	13.50%
802	Marfa	31	38	4.03%	-1.82%	2.21%	0.36%	2.57%	4.24%	-1.55%	2.69%	0.38%	3.07%	0.50%	3.07%	11.50%
804	Marion	12	11	6.13%	-0.38%	5.75%	0.51%	6.26%	5.70%	-0.50%	5.20%	0.38%	5.58%	-0.68%	5.58%	11.50%
806	Marlin	55	59	6.75%	2.65%	9.40%	0.29%	9.69%	6.77%	2.14%	8.91%	0.27%	9.18%	-0.51%	9.18%	11.50%
810	Marshall	183	181	10.02%	6.82%	16.84%	0.24%	17.08%	10.03%	6.14%	16.17%	0.25%	16.42%	-0.66%	16.42%	NO MAX
812	Mart	13	13	5.34%	-3.66%	1.68%	0.27%	1.95%	5.35%	-3.72%	1.63%	0.28%	1.91%	-0.04%	1.91%	9.50%
813	Martindale	2	3	5.92%	7.09%	13.01%	0.14%	13.15%	6.01%	7.32%	13.33%	0.17%	13.50%	0.35%	13.50%	NO MAX
814	Mason	31	30	4.77%	2.07%	6.84%	0.29%	7.13%	4.83%	2.07%	6.90%	0.32%	7.22%	0.09%	7.22%	9.50%
816	Matador	4	4	2.10%	4.70%	6.80%	0.30%	7.10%	1.62%	4.76%	6.38%	0.26%	6.64%	-0.46%	6.64%	NO MAX
818	Mathis	56	55	5.75%	-1.19%	4.56%	0.24%	4.80%	5.91%	-1.60%	4.31%	0.27%	4.58%	-0.22%	4.58%	13.50%
820	Maud	7	7	1.70%	1.92%	3.62%	0.08%	3.70%	1.66%	1.96%	3.62%	0.10%	3.72%	0.02%	3.72%	NO MAX
822	Maypearl	6	5	2.08%	0.14%	2.22%	0.20%	2.42%	2.46%	0.24%	2.70%	0.29%	2.99%	0.57%	2.99%	7.50%
824	McAllen	1,579	1,584	4.86%	3.09%	7.95%	0.00%	7.95%	4.85%	2.91%	7.76%	0.00%	7.76%	-0.19%	7.76%	13.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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					
826	McCamey	12	13	2.97%	-1.52%	1.45%	0.13%	1.58%	2.96%	-1.32%	1.64%	0.19%	1.83%	0.25%	1.83%	9.50%
828	McGregor	50	57	8.63%	1.73%	10.36%	0.28%	10.64%	8.67%	1.20%	9.87%	0.25%	10.12%	-0.52%	10.12%	12.50%
830	McKinney	962	1,030	11.62%	3.74%	15.36%	0.13%	15.49%	11.51%	3.56%	15.07%	0.13%	15.20%	-0.29%	15.20%	NO MAX
832	McLean	6	6	1.81%	0.46%	2.27%	0.22%	2.49%	1.83%	0.35%	2.18%	0.25%	2.43%	-0.06%	2.43%	NO MAX
833	McLendon-Chisholm	2	2	3.78%	5.70%	9.48%	0.81%	10.29%	3.14%	5.39%	8.53%	0.79%	9.32%	-0.97%	9.32%	NO MAX
834	Meadow	6	5	1.90%	2.66%	4.56%	0.13%	4.69%	1.90%	2.66%	4.56%	0.15%	4.71%	0.02%	4.71%	NO MAX
831	Meadowlakes	19	17	2.40%	-0.06%	2.34%	0.17%	2.51%	2.50%	-0.09%	2.41%	0.20%	2.61%	0.10%	2.61%	NO MAX
835	Meadows Place	27	27	6.12%	2.78%	8.90%	0.16%	9.06%	6.00%	2.81%	8.81%	0.14%	8.95%	-0.11%	8.95%	13.50%
837	Melissa	48	50	9.78%	3.81%	13.59%	0.15%	13.74%	9.30%	3.80%	13.10%	0.17%	13.27%	-0.47%	13.27%	NO MAX
1501	Memorial Villages PD	43	43	6.63%	4.45%	11.08%	0.17%	11.25%	6.51%	4.52%	11.03%	0.17%	11.20%	-0.05%	11.20%	NO MAX
840	Memphis	18	20	4.81%	-0.93%	3.88%	0.28%	4.16%	4.84%	-1.32%	3.52%	0.28%	3.80%	-0.36%	3.80%	NO MAX
842	Menard	8	9	3.52%	-3.52%	0.00%	0.00%	0.00%	3.49%	-3.49%	0.00%	0.00%	0.00%	0.00%	0.00%	NO MAX
844	Mercedes	108	108	10.37%	8.23%	18.60%	0.19%	18.79%	10.56%	7.56%	18.12%	0.18%	18.30%	-0.49%	18.30%	NO MAX
846	Meridian	11	10	3.76%	-0.42%	3.34%	0.09%	3.43%	4.00%	-0.84%	3.16%	0.11%	3.27%	-0.16%	3.27%	11.50%
848	Merkel	15	16	7.88%	5.78%	13.66%	0.13%	13.79%	8.09%	3.60%	11.69%	0.14%	11.83%	-1.96%	11.83%	NO MAX
852	Mertzson	4	4	4.74%	7.20%	11.94%	0.13%	12.07%	4.57%	8.64%	13.21%	0.14%	13.35%	1.28%	13.35%	NO MAX
854	Mesquite	1,079	1,103	5.61%	7.48%	13.09%	0.00%	13.09%	5.60%	7.09%	12.69%	0.00%	12.69%	-0.40%	12.69%	NO MAX
856	Mexia	99	99	9.86%	2.54%	12.40%	0.22%	12.62%	9.78%	2.51%	12.29%	0.17%	12.46%	-0.16%	12.46%	13.50%
858	Miami	N/A	3	2.66%	21.17%	23.83%	0.42%	24.25%	2.78%	11.07%	13.85%	0.40%	14.25%	-10.00%	14.25%	NO MAX
860	Midland	795	761	8.54%	5.82%	14.36%	0.20%	14.56%	8.59%	5.62%	14.21%	0.21%	14.42%	-0.14%	14.42%	NO MAX
862	Midlothian	209	217	11.04%	3.49%	14.53%	0.13%	14.66%	11.02%	3.27%	14.29%	0.14%	14.43%	-0.23%	14.43%	NO MAX
863	Milano	1	1	3.73%	3.86%	7.59%	0.52%	8.11%	3.73%	7.04%	10.77%	0.57%	11.34%	3.23%	11.34%	NO MAX
864	Miles	4	4	1.48%	-1.48%	0.00%	0.07%	0.07%	2.09%	-2.09%	0.00%	0.25%	0.25%	0.18%	0.25%	7.50%
865	Milford	5	6	3.42%	7.73%	11.15%	0.29%	11.44%	3.39%	5.77%	9.16%	0.17%	9.33%	-2.11%	9.33%	NO MAX
868	Mineola	50	50	5.30%	-1.03%	4.27%	0.19%	4.46%	5.23%	-1.05%	4.18%	0.19%	4.37%	-0.09%	4.37%	11.50%
870	Mineral Wells	165	168	6.63%	2.09%	8.72%	0.25%	8.97%	6.91%	1.92%	8.83%	0.26%	9.09%	0.12%	9.09%	11.50%
874	Mission	670	676	6.44%	2.09%	8.53%	0.15%	8.68%	6.41%	2.01%	8.42%	0.16%	8.58%	-0.10%	8.58%	12.50%
875	Missouri City	334	336	5.54%	2.96%	8.50%	0.12%	8.62%	5.59%	2.57%	8.16%	0.13%	8.29%	-0.33%	8.29%	15.50%
876	Monahans	62	62	5.32%	2.77%	8.09%	0.24%	8.33%	5.34%	2.32%	7.66%	0.25%	7.91%	-0.42%	7.91%	NO MAX
887	Mont Belvieu	71	78	9.95%	6.09%	16.04%	0.16%	16.20%	10.44%	5.40%	15.84%	0.16%	16.00%	-0.20%	16.00%	NO MAX
877	Montgomery	20	24	6.59%	-0.49%	6.10%	0.00%	6.10%	6.63%	-0.50%	6.13%	0.00%	6.13%	0.03%	6.13%	13.50%
878	Moody	12	12	1.43%	1.85%	3.28%	0.17%	3.45%	1.52%	1.90%	3.42%	0.19%	3.61%	0.16%	3.61%	7.50%
883	Morgan's Point	12	11	8.93%	0.96%	9.89%	0.23%	10.12%	8.97%	0.26%	9.23%	0.12%	9.35%	-0.77%	9.35%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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					
882	Morgan's Point Resort	24	26	10.18%	2.37%	12.55%	0.25%	12.80%	9.95%	2.22%	12.17%	0.20%	12.37%	-0.43%	12.37%	13.50%
884	Morton	9	9	6.49%	-1.60%	4.89%	0.19%	5.08%	6.49%	-2.18%	4.31%	0.20%	4.51%	-0.57%	4.51%	NO MAX
886	Moulton	8	9	5.14%	1.19%	6.33%	0.15%	6.48%	4.36%	0.79%	5.15%	0.16%	5.31%	-1.17%	5.31%	NO MAX
890	Mount Enterprise	2	2	2.11%	0.78%	2.89%	0.40%	3.29%	1.78%	0.13%	1.91%	0.12%	2.03%	-1.26%	2.03%	NO MAX
892	Mt. Pleasant	157	162	10.11%	5.13%	15.24%	0.18%	15.42%	10.26%	4.83%	15.09%	0.18%	15.27%	-0.15%	15.27%	NO MAX
894	Mt. Vernon	21	21	8.81%	3.09%	11.90%	0.22%	12.12%	8.68%	2.53%	11.21%	0.25%	11.46%	-0.66%	11.46%	13.50%
896	Muenster	13	13	5.16%	-3.86%	1.30%	0.00%	1.30%	5.15%	-3.73%	1.42%	0.00%	1.42%	0.12%	1.42%	11.50%
898	Muleshoe	33	35	8.90%	7.93%	16.83%	0.19%	17.02%	9.03%	8.81%	17.84%	0.21%	18.05%	1.03%	18.05%	NO MAX
901	Munday	7	7	1.56%	2.38%	3.94%	0.30%	4.24%	1.44%	2.13%	3.57%	0.15%	3.72%	-0.52%	3.72%	NO MAX
903	Murphy	112	116	11.41%	2.55%	13.96%	0.11%	14.07%	11.68%	2.43%	14.11%	0.13%	14.24%	0.17%	14.24%	15.50%
10904	Nacogdoches	297	303	8.36%	6.43%	14.79%	0.19%	14.98%	8.35%	6.64%	14.99%	0.20%	15.19%	0.21%	15.19%	NO MAX
906	Naples	9	11	3.48%	-1.31%	2.17%	0.34%	2.51%	3.34%	-1.41%	1.93%	0.22%	2.15%	-0.36%	2.15%	9.50%
907	Nash	19	19	8.98%	8.99%	17.97%	0.19%	18.16%	8.76%	8.87%	17.63%	0.16%	17.79%	-0.37%	17.79%	NO MAX
905	Nassau Bay	43	44	9.67%	6.40%	16.07%	0.14%	16.21%	9.63%	6.03%	15.66%	0.15%	15.81%	-0.40%	15.81%	NO MAX
909	Natalia	11	12	2.10%	0.90%	3.00%	0.20%	3.20%	2.11%	1.02%	3.13%	0.21%	3.34%	0.14%	3.34%	NO MAX
908	Navasota	80	77	5.63%	2.82%	8.45%	0.16%	8.61%	5.81%	2.20%	8.01%	0.19%	8.20%	-0.41%	8.20%	11.50%
910	Nederland	118	118	8.14%	-1.70%	6.44%	0.00%	6.44%	8.16%	-1.81%	6.35%	0.00%	6.35%	-0.09%	6.35%	NO MAX
912	Needville	16	18	3.71%	0.41%	4.12%	0.39%	4.51%	3.83%	0.36%	4.19%	0.42%	4.61%	0.10%	4.61%	9.50%
914	New Boston	36	35	3.11%	-1.10%	2.01%	0.24%	2.25%	3.07%	-1.44%	1.63%	0.23%	1.86%	-0.39%	1.86%	7.50%
10916	New Braunfels	579	587	11.18%	5.65%	16.83%	0.14%	16.97%	11.21%	5.75%	16.96%	0.14%	17.10%	0.13%	17.10%	NO MAX
20916	New Braunfels Utilities	252	272	9.83%	7.93%	17.76%	0.17%	17.93%	9.87%	7.55%	17.42%	0.16%	17.58%	-0.35%	17.58%	NO MAX
915	New Deal	4	4	2.42%	-2.03%	0.39%	0.00%	0.39%	2.43%	-1.89%	0.54%	0.00%	0.54%	0.15%	0.54%	7.50%
923	New Fairview	1	1	1.05%	8.88%	9.93%	0.13%	10.06%	1.05%	9.37%	10.42%	0.13%	10.55%	0.49%	9.76%	NO MAX
918	New London	10	8	3.80%	1.91%	5.71%	0.00%	5.71%	3.76%	0.11%	3.87%	0.00%	3.87%	-1.84%	3.87%	7.50%
919	New Summerfield	10	10	7.62%	1.68%	9.30%	0.00%	9.30%	8.08%	1.46%	9.54%	0.00%	9.54%	0.24%	9.54%	13.50%
917	New Waverly	5	5	4.99%	0.47%	5.46%	0.29%	5.75%	5.02%	1.12%	6.14%	0.32%	6.46%	0.71%	6.46%	9.50%
913	Newark	6	4	1.78%	0.93%	2.71%	0.09%	2.80%	2.10%	1.05%	3.15%	0.12%	3.27%	0.47%	3.27%	NO MAX
920	Newton	21	23	10.59%	9.99%	20.58%	0.24%	20.82%	10.46%	10.05%	20.51%	0.23%	20.74%	-0.08%	20.74%	NO MAX
922	Nixon	19	18	1.17%	-0.08%	1.09%	0.17%	1.26%	1.25%	-0.55%	0.70%	0.21%	0.91%	-0.35%	0.91%	NO MAX
924	Nocona	23	19	6.57%	2.93%	9.50%	0.24%	9.74%	6.67%	3.16%	9.83%	0.26%	10.09%	0.35%	10.09%	11.50%
925	Nolanville	13	15	1.64%	0.65%	2.29%	0.09%	2.38%	1.72%	0.60%	2.32%	0.14%	2.46%	0.08%	2.46%	NO MAX
928	Normangee	6	3	4.09%	-1.29%	2.80%	0.13%	2.93%	4.65%	-2.36%	2.29%	0.28%	2.57%	-0.36%	2.57%	11.50%
931	North Richland Hills	547	540	10.98%	5.14%	16.12%	0.00%	16.12%	11.00%	5.15%	16.15%	0.00%	16.15%	0.03%	16.15%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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					
930	Northlake	27	30	8.91%	1.60%	10.51%	0.10%	10.61%	8.96%	1.54%	10.50%	0.10%	10.60%	-0.01%	10.60%	NO MAX
935	O'Donnell	3	3	1.64%	5.30%	6.94%	0.17%	7.11%	1.67%	5.36%	7.03%	0.18%	7.21%	0.10%	7.21%	NO MAX
936	Oak Point	26	26	5.92%	1.79%	7.71%	0.11%	7.82%	5.73%	1.39%	7.12%	0.13%	7.25%	-0.57%	7.25%	NO MAX
937	Oak Ridge North	47	43	8.89%	2.99%	11.88%	0.19%	12.07%	9.06%	2.76%	11.82%	0.20%	12.02%	-0.05%	12.02%	NO MAX
942	Odem	13	12	5.09%	3.38%	8.47%	0.31%	8.78%	5.14%	3.98%	9.12%	0.40%	9.52%	0.74%	9.52%	NO MAX
944	Odessa	756	713	7.97%	5.53%	13.50%	0.19%	13.69%	7.86%	5.21%	13.07%	0.20%	13.27%	-0.42%	13.27%	NO MAX
945	Oglesby	1	2	1.09%	-0.85%	0.24%	0.49%	0.73%	1.11%	-0.58%	0.53%	0.17%	0.70%	-0.03%	0.70%	NO MAX
949	Old River-Winfree	1	1	2.39%	-2.39%	0.00%	0.00%	0.00%	2.39%	-2.39%	0.00%	0.00%	0.00%	0.00%	0.00%	7.50%
950	Olmos Park	38	38	4.09%	-1.35%	2.74%	0.00%	2.74%	3.89%	-1.29%	2.60%	0.00%	2.60%	-0.14%	2.60%	11.50%
951	Olney	22	19	6.47%	1.17%	7.64%	0.28%	7.92%	5.70%	0.65%	6.35%	0.18%	6.53%	-1.39%	6.53%	NO MAX
953	Omaha	6	6	2.09%	3.18%	5.27%	0.25%	5.52%	2.09%	3.21%	5.30%	0.28%	5.58%	0.06%	5.58%	NO MAX
954	Onalaska	12	12	2.80%	-0.25%	2.55%	0.12%	2.67%	2.96%	-0.33%	2.63%	0.15%	2.78%	0.11%	2.78%	9.50%
958	Orange	155	152	10.77%	6.03%	16.80%	0.00%	16.80%	10.75%	5.05%	15.80%	0.00%	15.80%	-1.00%	15.80%	NO MAX
960	Orange Grove	10	10	5.19%	-3.67%	1.52%	0.15%	1.67%	5.20%	-4.17%	1.03%	0.17%	1.20%	-0.47%	1.20%	9.50%
959	Ore City	9	9	1.58%	-0.18%	1.40%	0.13%	1.53%	1.58%	-0.13%	1.45%	0.14%	1.59%	0.06%	1.59%	7.50%
962	Overton	19	20	4.14%	-1.25%	2.89%	0.31%	3.20%	3.59%	-1.58%	2.01%	0.18%	2.19%	-1.01%	2.19%	11.50%
961	Ovilla	25	25	8.70%	1.06%	9.76%	0.18%	9.94%	8.41%	1.18%	9.59%	0.14%	9.73%	-0.21%	9.59%	13.50%
963	Oyster Creek	19	23	8.69%	2.54%	11.23%	0.24%	11.47%	8.42%	2.60%	11.02%	0.21%	11.23%	-0.24%	11.23%	13.50%
964	Paducah	13	7	4.63%	-3.02%	1.61%	0.25%	1.86%	4.87%	-3.76%	1.11%	0.32%	1.43%	-0.43%	1.43%	9.50%
966	Palacios	35	34	10.56%	7.31%	17.87%	0.24%	18.11%	11.04%	6.41%	17.45%	0.28%	17.73%	-0.38%	17.73%	NO MAX
968	Palestine	183	185	7.74%	5.97%	13.71%	0.19%	13.90%	7.80%	5.62%	13.42%	0.20%	13.62%	-0.28%	13.62%	NO MAX
970	Palmer	24	23	6.35%	0.31%	6.66%	0.17%	6.83%	6.18%	0.56%	6.74%	0.10%	6.84%	0.01%	6.84%	11.50%
969	Palmhurst	28	29	5.44%	0.46%	5.90%	0.08%	5.98%	5.67%	0.27%	5.94%	0.09%	6.03%	0.05%	6.03%	NO MAX
971	Palmview	58	61	1.07%	1.14%	2.21%	0.09%	2.30%	1.19%	0.73%	1.92%	0.10%	2.02%	-0.28%	2.02%	NO MAX
972	Pampa	158	156	9.05%	12.66%	21.71%	0.25%	21.96%	9.06%	12.37%	21.43%	0.25%	21.68%	-0.28%	21.68%	NO MAX
974	Panhandle	18	16	7.31%	6.04%	13.35%	0.00%	13.35%	7.19%	5.15%	12.34%	0.00%	12.34%	-1.01%	12.34%	NO MAX
973	Panorama Village	11	12	6.43%	0.99%	7.42%	0.52%	7.94%	6.49%	0.09%	6.58%	0.48%	7.06%	-0.88%	7.06%	12.50%
975	Pantego	42	43	10.97%	6.98%	17.95%	0.15%	18.10%	10.96%	6.53%	17.49%	0.16%	17.65%	-0.45%	17.65%	NO MAX
976	Paris	260	254	4.16%	2.86%	7.02%	0.23%	7.25%	4.19%	2.76%	6.95%	0.25%	7.20%	-0.05%	7.20%	NO MAX
977	Parker	22	23	7.45%	4.88%	12.33%	0.17%	12.50%	7.47%	4.74%	12.21%	0.19%	12.40%	-0.10%	12.40%	13.50%
978	Pasadena	980	1,007	9.26%	4.59%	13.85%	0.26%	14.11%	9.22%	4.23%	13.45%	0.23%	13.68%	-0.43%	13.68%	NO MAX
983	Pearland	647	666	10.15%	3.40%	13.55%	0.12%	13.67%	10.13%	3.17%	13.30%	0.12%	13.42%	-0.25%	13.42%	15.50%
984	Pearsall	70	65	2.55%	0.58%	3.13%	0.23%	3.36%	2.59%	0.28%	2.87%	0.17%	3.04%	-0.32%	3.04%	7.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES					2019 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						
988	Pecos City	119	117	5.88%	0.25%	6.13%	0.25%	6.38%	5.99%	0.07%	6.06%	0.26%	6.32%	-0.06%	6.32%	11.50%
989	Pelican Bay	N/A	12	1.41%	3.67%	5.08%	0.10%	5.18%	1.52%	3.49%	5.01%	0.11%	5.12%	-0.06%	5.12%	NO MAX
991	Penitas	43	40	3.31%	1.35%	4.66%	0.08%	4.74%	3.22%	1.11%	4.33%	0.07%	4.40%	-0.34%	4.40%	NO MAX
994	Perryton	83	79	8.10%	7.18%	15.28%	0.24%	15.52%	7.97%	6.74%	14.71%	0.27%	14.98%	-0.54%	14.98%	NO MAX
1000	Pflugerville	319	335	10.00%	3.53%	13.53%	0.14%	13.67%	9.98%	3.35%	13.33%	0.14%	13.47%	-0.20%	13.47%	NO MAX
1002	Pharr	566	573	5.23%	2.78%	8.01%	0.13%	8.14%	5.25%	2.64%	7.89%	0.13%	8.02%	-0.12%	8.02%	NO MAX
1004	Pilot Point	46	46	7.97%	1.27%	9.24%	0.16%	9.40%	7.96%	1.23%	9.19%	0.13%	9.32%	-0.08%	9.32%	11.50%
1005	Pinehurst	21	21	11.45%	8.00%	19.45%	0.25%	19.70%	11.53%	7.85%	19.38%	0.24%	19.62%	-0.08%	19.62%	NO MAX
1003	Pineland	13	13	5.26%	3.40%	8.66%	0.36%	9.02%	5.18%	2.73%	7.91%	0.30%	8.21%	-0.81%	8.21%	NO MAX
1001	Piney Point Village	7	7	6.23%	0.91%	7.14%	0.20%	7.34%	6.50%	0.45%	6.95%	0.23%	7.18%	-0.16%	7.18%	NO MAX
1006	Pittsburg	32	34	9.06%	5.27%	14.33%	0.21%	14.54%	9.22%	5.17%	14.39%	0.22%	14.61%	0.07%	14.61%	NO MAX
1007	Plains	8	9	7.98%	-0.17%	7.81%	0.21%	8.02%	7.57%	-1.00%	6.57%	0.23%	6.80%	-1.22%	6.80%	NO MAX
1008	Plainview	146	133	9.23%	4.24%	13.47%	0.00%	13.47%	9.18%	3.89%	13.07%	0.00%	13.07%	-0.40%	13.07%	NO MAX
1010	Plano	2,270	2,346	11.32%	5.98%	17.30%	0.00%	17.30%	11.34%	5.33%	16.67%	0.00%	16.67%	-0.63%	16.67%	NO MAX
1012	Pleasanton	106	103	9.23%	6.28%	15.51%	0.17%	15.68%	9.30%	6.49%	15.79%	0.16%	15.95%	0.27%	15.95%	NO MAX
1013	Point	11	10	9.77%	3.96%	13.73%	0.00%	13.73%	9.92%	3.75%	13.67%	0.00%	13.67%	-0.06%	13.67%	NO MAX
1017	Ponder	12	14	5.47%	0.89%	6.36%	0.37%	6.73%	5.47%	0.64%	6.11%	0.40%	6.51%	-0.22%	6.51%	NO MAX
1014	Port Aransas	122	118	8.45%	3.16%	11.61%	0.22%	11.83%	8.56%	2.99%	11.55%	0.22%	11.77%	-0.06%	11.77%	12.50%
11016	Port Arthur	513	518	6.97%	7.05%	14.02%	0.25%	14.27%	7.01%	6.79%	13.80%	0.25%	14.05%	-0.22%	14.05%	NO MAX
1018	Port Isabel	73	75	4.30%	-0.45%	3.85%	0.18%	4.03%	4.13%	-0.16%	3.97%	0.18%	4.15%	0.12%	4.15%	9.50%
1020	Port Lavaca	87	91	4.55%	1.44%	5.99%	0.22%	6.21%	4.57%	1.24%	5.81%	0.24%	6.05%	-0.16%	6.05%	9.50%
1022	Port Neches	93	95	8.71%	3.38%	12.09%	0.00%	12.09%	8.84%	3.65%	12.49%	0.00%	12.49%	0.40%	12.49%	NO MAX
1019	Portland	129	131	8.15%	6.10%	14.25%	0.21%	14.46%	8.17%	5.47%	13.64%	0.20%	13.84%	-0.62%	13.84%	NO MAX
1024	Post	16	19	4.10%	6.66%	10.76%	0.49%	11.25%	4.09%	6.70%	10.79%	0.48%	11.27%	0.02%	11.27%	NO MAX
1026	Poteet	31	27	3.50%	-1.30%	2.20%	0.18%	2.38%	3.67%	-1.49%	2.18%	0.19%	2.37%	-0.01%	2.37%	9.50%
1028	Poth	11	10	2.21%	2.04%	4.25%	0.27%	4.52%	2.36%	2.11%	4.47%	0.32%	4.79%	0.27%	4.79%	9.50%
1030	Pottsboro	19	19	6.06%	0.54%	6.60%	0.14%	6.74%	6.50%	0.22%	6.72%	0.17%	6.89%	0.15%	6.89%	13.50%
1031	Prairie View	N/A	17	2.05%	5.17%	7.22%	0.17%	7.39%	2.12%	3.13%	5.25%	0.21%	5.46%	-1.93%	5.46%	NO MAX
1032	Premont	19	20	1.57%	-1.34%	0.23%	0.27%	0.50%	1.64%	-1.64%	0.00%	0.24%	0.24%	-0.26%	0.24%	7.50%
1029	Presidio	41	44	1.40%	-0.66%	0.74%	0.23%	0.97%	1.44%	-0.57%	0.87%	0.23%	1.10%	0.13%	1.10%	NO MAX
1033	Primera	18	17	1.28%	-0.76%	0.52%	0.18%	0.70%	1.26%	-1.20%	0.06%	0.16%	0.22%	-0.48%	0.22%	7.50%
1034	Princeton	60	71	9.99%	0.80%	10.79%	0.12%	10.91%	10.04%	0.71%	10.75%	0.11%	10.86%	-0.05%	10.86%	13.50%
1036	Prosper	144	168	12.01%	1.52%	13.53%	0.00%	13.53%	12.24%	1.31%	13.55%	0.00%	13.55%	0.02%	13.55%	15.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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					
1037	Providence Village	6	7	5.47%	2.31%	7.78%	0.20%	7.98%	5.36%	2.14%	7.50%	0.21%	7.71%	-0.27%	7.71%	NO MAX
1042	Quanah	16	15	4.74%	4.31%	9.05%	0.33%	9.38%	4.98%	4.38%	9.36%	0.36%	9.72%	0.34%	9.72%	NO MAX
1045	Queen City	11	10	2.66%	-0.60%	2.06%	0.27%	2.33%	2.77%	-1.00%	1.77%	0.32%	2.09%	-0.24%	2.09%	7.50%
1044	Quinlan	16	15	9.37%	0.18%	9.55%	0.08%	9.63%	9.98%	0.03%	10.01%	0.09%	10.10%	0.47%	10.10%	12.50%
1047	Quintana	2	1	1.81%	0.07%	1.88%	0.07%	1.95%	2.29%	0.26%	2.55%	0.09%	2.64%	0.69%	2.64%	NO MAX
1046	Quitaque	4	4	1.71%	3.68%	5.39%	0.28%	5.67%	1.40%	3.52%	4.92%	0.20%	5.12%	-0.55%	5.12%	NO MAX
1048	Quitman	24	22	6.55%	1.29%	7.84%	0.24%	8.08%	6.23%	-0.74%	5.49%	0.22%	5.71%	-2.37%	5.71%	11.50%
1050	Ralls	15	10	5.10%	1.75%	6.85%	0.30%	7.15%	5.28%	1.22%	6.50%	0.51%	7.01%	-0.14%	7.01%	9.50%
1051	Rancho Viejo	10	10	5.11%	2.91%	8.02%	0.09%	8.11%	5.08%	1.83%	6.91%	0.10%	7.01%	-1.10%	7.01%	11.50%
1052	Ranger	11	19	8.70%	-0.76%	7.94%	0.00%	7.94%	8.99%	-2.35%	6.64%	0.00%	6.64%	-1.30%	6.64%	12.50%
1054	Rankin	5	5	1.92%	-0.56%	1.36%	0.27%	1.63%	1.91%	-0.67%	1.24%	0.29%	1.53%	-0.10%	1.53%	7.50%
1055	Ransom Canyon	11	11	5.24%	10.43%	15.67%	0.22%	15.89%	5.23%	10.16%	15.39%	0.24%	15.63%	-0.26%	15.63%	NO MAX
1058	Raymondville	74	70	4.26%	-2.48%	1.78%	0.28%	2.06%	4.28%	-2.81%	1.47%	0.29%	1.76%	-0.30%	1.76%	15.50%
1061	Red Oak	92	92	4.94%	1.19%	6.13%	0.12%	6.25%	5.03%	1.13%	6.16%	0.13%	6.29%	0.04%	6.29%	12.50%
1062	Redwater	8	7	2.70%	0.64%	3.34%	0.15%	3.49%	2.61%	0.47%	3.08%	0.15%	3.23%	-0.26%	3.23%	NO MAX
1064	Refugio	31	28	1.01%	-1.01%	0.00%	0.00%	0.00%	0.93%	-0.93%	0.00%	0.00%	0.00%	0.00%	0.00%	7.50%
1065	Reklaw	6	7	8.35%	8.46%	16.81%	0.30%	17.11%	8.54%	7.99%	16.53%	0.33%	16.86%	-0.25%	16.86%	NO MAX
1066	Reno (Lamar County)	12	12	5.60%	-1.83%	3.77%	0.08%	3.85%	5.56%	-1.39%	4.17%	0.10%	4.27%	0.42%	4.27%	11.50%
1069	Reno (Parker County)	17	16	3.47%	-0.38%	3.09%	0.24%	3.33%	3.34%	-0.62%	2.72%	0.20%	2.92%	-0.41%	2.92%	NO MAX
1067	Rhome	14	14	7.02%	0.53%	7.55%	0.18%	7.73%	7.17%	0.43%	7.60%	0.19%	7.79%	0.06%	7.79%	13.50%
1068	Rice	11	10	1.62%	-0.47%	1.15%	0.11%	1.26%	1.57%	-0.50%	1.07%	0.12%	1.19%	-0.07%	1.19%	7.50%
1070	Richardson	990	1,001	7.96%	6.84%	14.80%	0.00%	14.80%	7.96%	6.48%	14.44%	0.00%	14.44%	-0.36%	14.44%	NO MAX
1073	Richland Hills	79	73	11.50%	4.48%	15.98%	0.26%	16.24%	11.62%	3.85%	15.47%	0.26%	15.73%	-0.51%	15.73%	NO MAX
1074	Richland Springs	1	1	5.65%	-5.65%	0.00%	0.07%	0.07%	5.65%	-5.65%	0.00%	0.23%	0.23%	0.16%	0.23%	NO MAX
1076	Richmond	147	149	10.43%	3.89%	14.32%	0.16%	14.48%	10.37%	4.30%	14.67%	0.16%	14.83%	0.35%	14.83%	NO MAX
1077	Richwood	22	23	7.78%	3.45%	11.23%	0.15%	11.38%	7.96%	3.09%	11.05%	0.13%	11.18%	-0.20%	11.18%	NO MAX
1072	Riesel	8	8	1.22%	4.98%	6.20%	0.14%	6.34%	1.21%	4.77%	5.98%	0.15%	6.13%	-0.21%	6.13%	NO MAX
1075	Rio Grande City	156	156	5.65%	1.41%	7.06%	0.14%	7.20%	5.73%	1.30%	7.03%	0.14%	7.17%	-0.03%	7.17%	NO MAX
1079	Rio Vista	8	7	2.36%	1.26%	3.62%	0.09%	3.71%	2.47%	1.30%	3.77%	0.11%	3.88%	0.17%	3.88%	NO MAX
1080	Rising Star	6	7	1.29%	-1.29%	0.00%	0.13%	0.13%	1.96%	-1.96%	0.00%	0.27%	0.27%	0.14%	0.27%	NO MAX
1082	River Oaks	56	56	9.91%	4.58%	14.49%	0.30%	14.79%	9.96%	3.80%	13.76%	0.28%	14.04%	-0.75%	14.04%	NO MAX
1084	Roanoke	123	125	12.72%	4.71%	17.43%	0.00%	17.43%	12.77%	4.68%	17.45%	0.00%	17.45%	0.02%	17.45%	NO MAX
1088	Robert Lee	5	2	1.59%	3.88%	5.47%	0.19%	5.66%	1.10%	4.30%	5.40%	0.28%	5.68%	0.02%	5.68%	NO MAX

**SECTION 2**  
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**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES					2019 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						
1089	Robinson	63	69	8.81%	5.48%	14.29%	0.19%	14.48%	8.50%	5.35%	13.85%	0.19%	14.04%	-0.44%	14.04%	NO MAX
21090	Robstown	105	108	4.46%	2.13%	6.59%	0.14%	6.73%	4.39%	1.74%	6.13%	0.14%	6.27%	-0.46%	6.27%	9.50%
11090	Robstown Utility Systems	44	41	4.95%	7.99%	12.94%	0.28%	13.22%	5.00%	7.76%	12.76%	0.33%	13.09%	-0.13%	13.09%	NO MAX
1092	Roby	2	2	6.37%	-4.64%	1.73%	0.43%	2.16%	6.37%	-4.56%	1.81%	0.57%	2.38%	0.22%	2.38%	NO MAX
1096	Rockdale	47	46	7.12%	2.87%	9.99%	0.31%	10.30%	7.05%	2.25%	9.30%	0.35%	9.65%	-0.65%	9.65%	11.50%
1098	Rockport	122	113	10.93%	5.36%	16.29%	0.23%	16.52%	11.87%	5.58%	17.45%	0.24%	17.69%	1.17%	17.69%	NO MAX
1100	Rocksprings	8	7	2.33%	-1.12%	1.21%	0.00%	1.21%	1.90%	-1.38%	0.52%	0.00%	0.52%	-0.69%	0.52%	NO MAX
1102	Rockwall	262	271	11.94%	4.20%	16.14%	0.15%	16.29%	11.83%	3.93%	15.76%	0.15%	15.91%	-0.38%	15.91%	NO MAX
1104	Rogers	9	9	5.39%	2.96%	8.35%	0.00%	8.35%	5.32%	3.20%	8.52%	0.00%	8.52%	0.17%	8.52%	NO MAX
1105	Rollingwood	16	14	7.62%	1.39%	9.01%	0.17%	9.18%	7.21%	0.96%	8.17%	0.21%	8.38%	-0.80%	8.38%	12.50%
1106	Roma	130	136	6.70%	4.03%	10.73%	0.24%	10.97%	6.72%	3.94%	10.66%	0.24%	10.90%	-0.07%	10.90%	11.50%
1109	Roscoe	7	7	1.93%	0.15%	2.08%	0.33%	2.41%	2.02%	0.12%	2.14%	0.39%	2.53%	0.12%	2.53%	NO MAX
1112	Rosebud	12	11	1.81%	0.15%	1.96%	0.19%	2.15%	2.02%	-0.12%	1.90%	0.31%	2.21%	0.06%	2.21%	NO MAX
1114	Rosenberg	249	254	8.32%	4.71%	13.03%	0.12%	13.15%	8.31%	4.56%	12.87%	0.12%	12.99%	-0.16%	12.99%	NO MAX
1116	Rotan	5	6	1.25%	-1.25%	0.00%	0.29%	0.29%	1.34%	-1.34%	0.00%	0.26%	0.26%	-0.03%	0.26%	NO MAX
1118	Round Rock	884	927	10.82%	4.69%	15.51%	0.14%	15.65%	10.77%	4.56%	15.33%	0.14%	15.47%	-0.18%	15.47%	NO MAX
1119	Rowlett	363	381	9.55%	3.53%	13.08%	0.00%	13.08%	9.42%	3.40%	12.82%	0.00%	12.82%	-0.26%	12.82%	NO MAX
1120	Royse City	57	63	12.56%	3.67%	16.23%	0.16%	16.39%	12.45%	3.53%	15.98%	0.17%	16.15%	-0.24%	16.15%	NO MAX
1122	Rule	4	3	3.92%	6.55%	10.47%	0.11%	10.58%	5.23%	3.65%	8.88%	0.20%	9.08%	-1.50%	9.08%	11.50%
1123	Runaway Bay	14	15	3.72%	-1.44%	2.28%	0.30%	2.58%	3.53%	-1.75%	1.78%	0.22%	2.00%	-0.58%	2.00%	9.50%
1124	Runge	5	4	4.93%	13.32%	18.25%	0.59%	18.84%	4.63%	14.22%	18.85%	0.71%	19.56%	0.72%	19.56%	NO MAX
1126	Rusk	39	40	6.52%	0.28%	6.80%	0.16%	6.96%	6.56%	0.02%	6.58%	0.19%	6.77%	-0.19%	6.77%	10.50%
1128	Sabinal	14	13	3.28%	0.04%	3.32%	0.33%	3.65%	3.27%	-0.15%	3.12%	0.36%	3.48%	-0.17%	3.48%	9.50%
1129	Sachse	143	142	11.16%	3.35%	14.51%	0.15%	14.66%	11.13%	3.66%	14.79%	0.15%	14.94%	0.28%	14.94%	NO MAX
1131	Saginaw	143	141	9.83%	7.61%	17.44%	0.17%	17.61%	9.63%	7.51%	17.14%	0.18%	17.32%	-0.29%	17.32%	NO MAX
1130	Saint Jo	9	6	6.00%	-0.10%	5.90%	0.17%	6.07%	6.42%	-1.29%	5.13%	0.30%	5.43%	-0.64%	5.43%	10.50%
1133	Salado	9	10	7.04%	-0.17%	6.87%	0.22%	7.09%	7.40%	-1.15%	6.25%	0.20%	6.45%	-0.64%	6.45%	NO MAX
1132	San Angelo	727	718	8.53%	9.08%	17.61%	0.00%	17.61%	8.49%	8.97%	17.46%	0.00%	17.46%	-0.15%	17.46%	NO MAX
21136	San Antonio	6,797	6,939	6.84%	4.82%	11.66%	0.00%	11.66%	6.81%	4.56%	11.37%	0.00%	11.37%	-0.29%	11.37%	NO MAX
11136	San Antonio Water System	1,648	1,698	2.08%	1.62%	3.70%	0.00%	3.70%	2.06%	1.54%	3.60%	0.00%	3.60%	-0.10%	3.60%	5.50%
1138	San Augustine	30	29	7.93%	3.39%	11.32%	0.26%	11.58%	7.51%	0.83%	8.34%	0.24%	8.58%	-3.00%	8.58%	13.50%
1140	San Benito	158	159	3.78%	1.96%	5.74%	0.21%	5.95%	3.80%	1.71%	5.51%	0.21%	5.72%	-0.23%	5.72%	11.50%
1144	San Felipe	4	4	1.54%	2.31%	3.85%	0.18%	4.03%	1.79%	2.67%	4.46%	0.19%	4.65%	0.62%	4.65%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES					2019 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						
1148	San Juan	207	211	2.76%	-0.16%	2.60%	0.16%	2.76%	2.79%	-0.24%	2.55%	0.17%	2.72%	-0.04%	2.72%	10.50%
1150	San Marcos	610	631	10.27%	7.18%	17.45%	0.16%	17.61%	10.38%	6.96%	17.34%	0.15%	17.49%	-0.12%	17.49%	NO MAX
1152	San Saba	48	46	6.00%	2.40%	8.40%	0.25%	8.65%	6.15%	2.16%	8.31%	0.28%	8.59%	-0.06%	8.59%	10.50%
1146	Sanger	64	65	6.11%	1.68%	7.79%	0.14%	7.93%	6.23%	1.68%	7.91%	0.14%	8.05%	0.12%	8.05%	12.50%
1153	Sansom Park	34	33	6.92%	-0.31%	6.61%	0.12%	6.73%	7.01%	-0.86%	6.15%	0.14%	6.29%	-0.44%	6.29%	11.50%
1155	Santa Fe	65	62	6.83%	5.24%	12.07%	0.00%	12.07%	6.73%	4.89%	11.62%	0.00%	11.62%	-0.45%	11.62%	NO MAX
1158	Savoy	3	2	4.78%	-4.66%	0.12%	0.24%	0.36%	4.57%	-4.57%	0.00%	0.30%	0.30%	-0.06%	0.30%	10.50%
1159	Schertz	317	322	10.46%	5.55%	16.01%	0.13%	16.14%	10.47%	5.57%	16.04%	0.12%	16.16%	0.02%	16.16%	NO MAX
1160	Schulenburg	39	37	9.88%	12.19%	22.07%	0.26%	22.33%	9.84%	11.59%	21.43%	0.26%	21.69%	-0.64%	21.69%	NO MAX
1161	Seabrook	93	94	9.51%	6.45%	15.96%	0.16%	16.12%	9.62%	5.95%	15.57%	0.15%	15.72%	-0.40%	15.72%	NO MAX
1162	Seadrift	12	13	1.30%	2.98%	4.28%	0.16%	4.44%	1.33%	2.76%	4.09%	0.17%	4.26%	-0.18%	4.26%	NO MAX
1164	Seagoville	93	96	7.92%	3.00%	10.92%	0.18%	11.10%	7.71%	3.15%	10.86%	0.20%	11.06%	-0.04%	11.06%	13.50%
1166	Seagraves	19	16	7.47%	2.31%	9.78%	0.38%	10.16%	7.85%	2.17%	10.02%	0.51%	10.53%	0.37%	10.53%	NO MAX
1167	Sealy	54	55	10.19%	4.08%	14.27%	0.16%	14.43%	10.12%	4.45%	14.57%	0.15%	14.72%	0.29%	14.72%	NO MAX
1168	Seguin	363	381	8.11%	7.78%	15.89%	0.19%	16.08%	8.11%	7.13%	15.24%	0.19%	15.43%	-0.65%	15.43%	NO MAX
1169	Selma	88	91	11.19%	3.63%	14.82%	0.12%	14.94%	11.17%	3.49%	14.66%	0.13%	14.79%	-0.15%	14.79%	NO MAX
1170	Seminole	59	58	8.50%	4.77%	13.27%	0.23%	13.50%	8.52%	4.37%	12.89%	0.23%	13.12%	-0.38%	13.12%	NO MAX
1171	Seven Points	20	19	8.52%	-3.87%	4.65%	0.11%	4.76%	9.00%	-6.40%	2.60%	0.18%	2.78%	-1.98%	2.78%	13.50%
1172	Seymour	34	39	3.55%	4.36%	7.91%	0.33%	8.24%	3.54%	3.49%	7.03%	0.35%	7.38%	-0.86%	7.38%	8.50%
1165	Shady Shores	2	2	7.78%	1.02%	8.80%	0.06%	8.86%	7.77%	1.49%	9.26%	0.07%	9.33%	0.47%	9.33%	NO MAX
1177	Shallowater	15	15	3.61%	-0.18%	3.43%	0.19%	3.62%	3.53%	-1.11%	2.42%	0.14%	2.56%	-1.06%	2.56%	9.50%
1174	Shamrock	24	22	3.11%	4.06%	7.17%	0.47%	7.64%	3.08%	4.76%	7.84%	0.49%	8.33%	0.69%	8.33%	NO MAX
1173	Shavano Park	49	50	11.24%	2.31%	13.55%	0.12%	13.67%	11.52%	2.30%	13.82%	0.13%	13.95%	0.28%	13.62%	13.50%
1175	Shenandoah	50	47	11.95%	5.66%	17.61%	0.13%	17.74%	11.46%	5.47%	16.93%	0.14%	17.07%	-0.67%	17.07%	NO MAX
1181	Shepherd	10	11	4.93%	-2.52%	2.41%	0.15%	2.56%	4.96%	-2.26%	2.70%	0.19%	2.89%	0.33%	2.89%	11.50%
1176	Sherman	413	418	8.73%	5.42%	14.15%	0.20%	14.35%	8.70%	5.22%	13.92%	0.20%	14.12%	-0.23%	14.12%	NO MAX
1178	Shiner	31	30	3.40%	3.87%	7.27%	0.34%	7.61%	3.47%	4.24%	7.71%	0.36%	8.07%	0.46%	8.07%	NO MAX
1179	Shoreacres	11	13	6.16%	-0.54%	5.62%	0.25%	5.87%	6.11%	-1.43%	4.68%	0.25%	4.93%	-0.94%	4.93%	9.50%
1180	Silsbee	61	65	9.50%	8.85%	18.35%	0.00%	18.35%	9.70%	8.79%	18.49%	0.00%	18.49%	0.14%	18.49%	NO MAX
1182	Silverton	3	4	5.99%	-1.87%	4.12%	0.21%	4.33%	5.97%	-1.50%	4.47%	0.20%	4.67%	0.34%	4.67%	NO MAX
1184	Sinton	56	54	8.34%	4.26%	12.60%	0.22%	12.82%	8.29%	4.58%	12.87%	0.23%	13.10%	0.28%	13.10%	NO MAX
1185	Skellytown	2	4	3.47%	-2.31%	1.16%	0.19%	1.35%	4.41%	-3.86%	0.55%	0.20%	0.75%	-0.60%	0.75%	9.50%
1186	Slaton	48	46	6.40%	0.28%	6.68%	0.25%	6.93%	6.40%	0.12%	6.52%	0.27%	6.79%	-0.14%	6.79%	12.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES					2019 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						
1188	Smithville	62	62	4.87%	1.94%	6.81%	0.22%	7.03%	4.93%	1.93%	6.86%	0.25%	7.11%	0.08%	7.11%	9.50%
1189	Smyer	3	3	6.20%	3.88%	10.08%	0.15%	10.23%	6.22%	4.17%	10.39%	0.17%	10.56%	0.33%	10.51%	13.50%
1190	Snyder	89	86	9.91%	5.85%	15.76%	0.21%	15.97%	9.90%	3.77%	13.67%	0.23%	13.90%	-2.07%	13.90%	NO MAX
1191	Somerset	11	12	2.86%	0.23%	3.09%	0.18%	3.27%	2.94%	-0.35%	2.59%	0.22%	2.81%	-0.46%	2.81%	9.50%
1192	Somerville	16	13	5.47%	0.20%	5.67%	0.33%	6.00%	5.71%	-0.50%	5.21%	0.48%	5.69%	-0.31%	5.69%	9.50%
1194	Sonora	33	31	6.89%	1.61%	8.50%	0.28%	8.78%	6.68%	1.61%	8.29%	0.28%	8.57%	-0.21%	8.57%	NO MAX
1196	Sour Lake	14	14	6.61%	-0.81%	5.80%	0.34%	6.14%	6.42%	-0.73%	5.69%	0.37%	6.06%	-0.08%	6.06%	13.50%
1198	South Houston	117	118	6.42%	3.81%	10.23%	0.23%	10.46%	6.43%	3.57%	10.00%	0.25%	10.25%	-0.21%	10.25%	NO MAX
1199	South Padre Island	163	171	11.12%	1.76%	12.88%	0.17%	13.05%	11.14%	1.67%	12.81%	0.16%	12.97%	-0.08%	12.97%	13.50%
1197	Southlake	317	321	9.48%	2.78%	12.26%	0.12%	12.38%	9.53%	2.82%	12.35%	0.14%	12.49%	0.11%	12.49%	13.50%
1200	Southmayd	7	7	1.73%	5.44%	7.17%	0.09%	7.26%	1.59%	4.04%	5.63%	0.09%	5.72%	-1.54%	5.72%	NO MAX
1202	Southside Place	22	23	8.38%	3.40%	11.78%	0.21%	11.99%	8.39%	3.41%	11.80%	0.20%	12.00%	0.01%	12.00%	NO MAX
1204	Spearman	26	24	8.58%	2.55%	11.13%	0.23%	11.36%	8.94%	2.44%	11.38%	0.26%	11.64%	0.28%	11.64%	13.50%
1201	Splendora	N/A	24	2.56%	2.67%	5.23%	0.17%	5.40%	2.56%	2.63%	5.19%	0.17%	5.36%	-0.04%	5.36%	NO MAX
1205	Spring Valley Village	36	38	6.22%	0.96%	7.18%	0.16%	7.34%	6.07%	0.82%	6.89%	0.16%	7.05%	-0.29%	7.05%	NO MAX
1203	Springtown	44	40	10.26%	-1.16%	9.10%	0.15%	9.25%	10.31%	-1.17%	9.14%	0.17%	9.31%	0.06%	9.31%	13.50%
1206	Spur	10	10	2.60%	2.47%	5.07%	0.23%	5.30%	2.56%	2.10%	4.66%	0.24%	4.90%	-0.40%	4.90%	NO MAX
1207	Stafford	165	173	11.32%	3.37%	14.69%	0.17%	14.86%	11.53%	2.91%	14.44%	0.18%	14.62%	-0.24%	14.62%	NO MAX
1208	Stamford	22	22	5.98%	-0.52%	5.46%	0.50%	5.96%	5.75%	-0.49%	5.26%	0.47%	5.73%	-0.23%	5.73%	9.50%
1210	Stanton	19	18	4.80%	3.81%	8.61%	0.25%	8.86%	4.60%	3.15%	7.75%	0.21%	7.96%	-0.90%	7.96%	9.50%
1211	Star Harbor	6	4	7.85%	2.39%	10.24%	0.33%	10.57%	7.92%	2.56%	10.48%	0.47%	10.95%	0.38%	10.95%	NO MAX
1212	Stephenville	151	156	7.29%	-0.51%	6.78%	0.20%	6.98%	7.40%	-1.04%	6.36%	0.20%	6.56%	-0.42%	6.56%	NO MAX
1213	Sterling City	6	7	1.29%	-0.01%	1.28%	0.00%	1.28%	1.23%	-0.03%	1.20%	0.00%	1.20%	-0.08%	1.20%	7.50%
1214	Stinnett	16	17	2.89%	-2.89%	0.00%	0.18%	0.18%	2.71%	-2.71%	0.00%	0.21%	0.21%	0.03%	0.21%	9.50%
1216	Stockdale	8	8	2.00%	2.41%	4.41%	0.48%	4.89%	1.92%	2.56%	4.48%	0.35%	4.83%	-0.06%	4.83%	NO MAX
1218	Stratford	14	13	5.30%	0.75%	6.05%	0.24%	6.29%	5.54%	0.77%	6.31%	0.29%	6.60%	0.31%	6.60%	NO MAX
1224	Sudan	8	8	1.40%	0.39%	1.79%	0.00%	1.79%	1.37%	-0.42%	0.95%	0.00%	0.95%	-0.84%	0.95%	7.50%
1225	Sugar Land	705	757	11.13%	4.00%	15.13%	0.14%	15.27%	11.08%	3.70%	14.78%	0.15%	14.93%	-0.34%	14.93%	NO MAX
1226	Sulphur Springs	147	143	5.14%	2.26%	7.40%	0.22%	7.62%	5.17%	2.14%	7.31%	0.24%	7.55%	-0.07%	7.55%	NO MAX
1228	Sundown	13	13	7.44%	4.08%	11.52%	0.24%	11.76%	6.92%	4.31%	11.23%	0.20%	11.43%	-0.33%	11.43%	NO MAX
1229	Sunnyvale	36	39	9.74%	2.13%	11.87%	0.26%	12.13%	9.48%	2.15%	11.63%	0.25%	11.88%	-0.25%	11.88%	NO MAX
1230	Sunray	13	13	11.84%	6.89%	18.73%	0.27%	19.00%	12.96%	5.55%	18.51%	0.20%	18.71%	-0.29%	18.71%	NO MAX
1227	Sunrise Beach Village	11	10	1.49%	-0.09%	1.40%	0.10%	1.50%	1.43%	-0.15%	1.28%	0.13%	1.41%	-0.09%	1.41%	7.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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					
1231	Sunset Valley	28	29	9.75%	2.89%	12.64%	0.11%	12.75%	9.89%	2.30%	12.19%	0.12%	12.31%	-0.44%	12.31%	13.50%
1233	Surfside Beach	19	22	2.41%	-0.99%	1.42%	0.22%	1.64%	2.38%	-1.02%	1.36%	0.23%	1.59%	-0.05%	1.59%	9.50%
1232	Sweeny	23	23	9.60%	7.72%	17.32%	0.31%	17.63%	9.96%	7.24%	17.20%	0.31%	17.51%	-0.12%	17.51%	NO MAX
1234	Sweetwater	112	108	9.40%	8.70%	18.10%	0.23%	18.33%	9.55%	8.10%	17.65%	0.26%	17.91%	-0.42%	17.91%	NO MAX
1264	TMRS	99	107	11.23%	5.08%	16.31%	0.16%	16.47%	11.18%	4.77%	15.95%	0.17%	16.12%	-0.35%	16.12%	NO MAX
1236	Taft	25	24	11.52%	4.53%	16.05%	0.39%	16.44%	12.27%	4.64%	16.91%	0.36%	17.27%	0.83%	17.25%	NO MAX
1238	Tahoka	19	19	3.98%	-2.64%	1.34%	0.26%	1.60%	4.15%	-2.74%	1.41%	0.30%	1.71%	0.11%	1.71%	11.50%
1240	Talty	N/A	6	2.75%	5.07%	7.82%	0.43%	8.25%	2.77%	5.37%	8.14%	0.44%	8.58%	0.33%	8.58%	NO MAX
1241	Tatum	10	10	1.41%	0.70%	2.11%	0.17%	2.28%	1.38%	0.41%	1.79%	0.15%	1.94%	-0.34%	1.94%	7.50%
1246	Taylor	139	148	7.37%	4.52%	11.89%	0.22%	12.11%	7.59%	4.29%	11.88%	0.24%	12.12%	0.01%	12.12%	NO MAX
1248	Teague	22	20	9.30%	2.41%	11.71%	0.38%	12.09%	8.85%	0.38%	9.23%	0.33%	9.56%	-2.53%	9.56%	13.50%
1252	Temple	674	677	10.16%	6.32%	16.48%	0.20%	16.68%	10.10%	6.33%	16.43%	0.20%	16.63%	-0.05%	16.63%	NO MAX
1254	Tenaha	8	7	1.61%	-1.01%	0.60%	0.18%	0.78%	1.25%	-1.15%	0.10%	0.19%	0.29%	-0.49%	0.29%	7.50%
1256	Terrell	177	176	10.78%	5.56%	16.34%	0.20%	16.54%	10.68%	5.00%	15.68%	0.21%	15.89%	-0.65%	15.89%	NO MAX
1258	Terrell Hills	49	49	8.35%	3.66%	12.01%	0.19%	12.20%	8.39%	3.71%	12.10%	0.20%	12.30%	0.10%	12.30%	NO MAX
31263	Tex Municipal League IEBP	132	137	4.38%	1.61%	5.99%	0.21%	6.20%	4.38%	1.53%	5.91%	0.22%	6.13%	-0.07%	6.13%	12.50%
21263	Tex Municipal League IRP	244	245	10.26%	0.33%	10.59%	0.20%	10.79%	10.13%	0.26%	10.39%	0.21%	10.60%	-0.19%	10.60%	NO MAX
21260	Texarkana	208	210	9.73%	6.38%	16.11%	0.00%	16.11%	9.61%	6.42%	16.03%	0.00%	16.03%	-0.08%	16.03%	NO MAX
11260	Texarkana Police Dept	93	91	10.37%	5.56%	15.93%	0.00%	15.93%	10.36%	4.65%	15.01%	0.00%	15.01%	-0.92%	15.01%	NO MAX
31260	Texarkana Water Utilities	153	153	9.39%	7.28%	16.67%	0.00%	16.67%	9.47%	6.60%	16.07%	0.00%	16.07%	-0.60%	16.07%	NO MAX
1262	Texas City	421	399	9.63%	7.07%	16.70%	0.00%	16.70%	9.69%	6.49%	16.18%	0.00%	16.18%	-0.52%	16.18%	NO MAX
11263	Texas Municipal League	32	32	7.42%	8.74%	16.16%	0.17%	16.33%	7.41%	8.63%	16.04%	0.18%	16.22%	-0.11%	16.22%	NO MAX
1267	The Colony	318	327	9.63%	3.43%	13.06%	0.15%	13.21%	9.65%	3.36%	13.01%	0.14%	13.15%	-0.06%	13.15%	NO MAX
1269	Thompsons	3	3	2.04%	2.22%	4.26%	0.23%	4.49%	2.03%	2.17%	4.20%	0.20%	4.40%	-0.09%	4.40%	NO MAX
1268	Thorndale	9	6	6.51%	0.86%	7.37%	0.34%	7.71%	6.53%	1.05%	7.58%	0.34%	7.92%	0.21%	7.92%	9.50%
1272	Thrall	5	5	3.80%	4.18%	7.98%	0.35%	8.33%	3.97%	4.39%	8.36%	0.42%	8.78%	0.45%	8.78%	NO MAX
1274	Three Rivers	44	43	10.03%	12.02%	22.05%	0.36%	22.41%	9.99%	13.37%	23.36%	0.39%	23.75%	1.34%	23.75%	NO MAX
1276	Throckmorton	5	4	5.76%	-0.68%	5.08%	0.19%	5.27%	5.61%	-1.05%	4.56%	0.25%	4.81%	-0.46%	4.81%	9.50%
1277	Tiki Island	8	7	2.22%	1.37%	3.59%	0.16%	3.75%	2.24%	1.34%	3.58%	0.18%	3.76%	0.01%	3.76%	NO MAX
1278	Timpson	10	9	2.52%	-0.13%	2.39%	0.36%	2.75%	2.57%	-0.41%	2.16%	0.44%	2.60%	-0.15%	2.60%	7.50%
1280	Tioga	9	10	2.19%	-0.54%	1.65%	0.13%	1.78%	1.93%	-0.47%	1.46%	0.12%	1.58%	-0.20%	1.58%	9.50%
1283	Tolar	5	6	7.59%	1.82%	9.41%	0.14%	9.55%	7.15%	1.81%	8.96%	0.11%	9.07%	-0.48%	9.07%	NO MAX
1286	Tom Bean	8	7	3.97%	-0.96%	3.01%	0.19%	3.20%	3.62%	-1.20%	2.42%	0.12%	2.54%	-0.66%	2.54%	10.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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					
1284	Tomball	165	166	9.93%	3.49%	13.42%	0.19%	13.61%	9.87%	3.62%	13.49%	0.19%	13.68%	0.07%	13.68%	NO MAX
1290	Trent	2	2	5.39%	4.33%	9.72%	0.43%	10.15%	5.37%	2.81%	8.18%	0.48%	8.66%	-1.49%	8.66%	11.50%
1292	Trenton	3	5	5.04%	-2.28%	2.76%	0.25%	3.01%	5.03%	-2.19%	2.84%	0.33%	3.17%	0.16%	3.17%	9.50%
1293	Trinidad	6	5	2.13%	1.50%	3.63%	0.37%	4.00%	2.04%	1.20%	3.24%	0.44%	3.68%	-0.32%	3.68%	7.50%
1294	Trinity	30	28	6.38%	1.10%	7.48%	0.34%	7.82%	6.30%	0.62%	6.92%	0.34%	7.26%	-0.56%	7.26%	11.50%
1295	Trophy Club	69	75	10.09%	2.69%	12.78%	0.13%	12.91%	10.43%	2.52%	12.95%	0.15%	13.10%	0.19%	13.10%	NO MAX
1296	Troup	21	21	4.60%	1.12%	5.72%	0.26%	5.98%	4.72%	0.61%	5.33%	0.28%	5.61%	-0.37%	5.61%	9.50%
1297	Troy	13	13	9.95%	2.67%	12.62%	0.45%	13.07%	9.73%	2.10%	11.83%	0.43%	12.26%	-0.81%	12.26%	13.50%
1298	Tulia	39	38	8.26%	3.66%	11.92%	0.26%	12.18%	8.39%	2.11%	10.50%	0.24%	10.74%	-1.44%	10.74%	NO MAX
1299	Turkey	4	3	2.07%	2.66%	4.73%	0.25%	4.98%	2.27%	2.92%	5.19%	0.30%	5.49%	0.51%	5.49%	NO MAX
1301	Tye	13	14	5.31%	2.36%	7.67%	0.17%	7.84%	4.95%	2.30%	7.25%	0.17%	7.42%	-0.42%	7.42%	NO MAX
1304	Tyler	675	668	9.26%	11.44%	20.70%	0.22%	20.92%	9.23%	11.66%	20.89%	0.23%	21.12%	0.20%	21.12%	NO MAX
1305	Universal City	131	130	10.13%	8.66%	18.79%	0.17%	18.96%	10.23%	8.23%	18.46%	0.18%	18.64%	-0.32%	18.64%	NO MAX
1306	University Park	206	207	6.09%	1.42%	7.51%	0.00%	7.51%	6.02%	1.24%	7.26%	0.00%	7.26%	-0.25%	7.26%	NO MAX
1308	Uvalde	165	166	4.59%	1.42%	6.01%	0.17%	6.18%	4.56%	1.37%	5.93%	0.17%	6.10%	-0.08%	6.10%	9.50%
1312	Valley Mills	8	7	1.85%	0.12%	1.97%	0.11%	2.08%	1.93%	-0.04%	1.89%	0.12%	2.01%	-0.07%	2.01%	NO MAX
1313	Valley View	6	6	1.40%	1.18%	2.58%	0.06%	2.64%	1.33%	0.84%	2.17%	0.07%	2.24%	-0.40%	2.24%	NO MAX
1314	Van	20	20	7.22%	0.11%	7.33%	0.22%	7.55%	7.40%	-0.08%	7.32%	0.24%	7.56%	0.01%	7.56%	12.50%
1316	Van Alstyne	32	31	7.73%	2.91%	10.64%	0.13%	10.77%	7.58%	2.08%	9.66%	0.14%	9.80%	-0.97%	9.80%	12.50%
1318	Van Horn	25	23	4.68%	4.07%	8.75%	0.19%	8.94%	4.63%	3.22%	7.85%	0.19%	8.04%	-0.90%	8.04%	9.50%
1320	Vega	6	5	11.74%	11.98%	23.72%	0.21%	23.93%	11.65%	13.14%	24.79%	0.18%	24.97%	1.04%	24.97%	NO MAX
1324	Venus	18	23	10.62%	0.21%	10.83%	0.00%	10.83%	10.40%	0.13%	10.53%	0.00%	10.53%	-0.30%	10.53%	13.50%
1326	Vernon	88	91	6.75%	5.72%	12.47%	0.28%	12.75%	7.03%	4.95%	11.98%	0.30%	12.28%	-0.47%	12.28%	NO MAX
1328	Victoria	585	579	7.72%	8.82%	16.54%	0.18%	16.72%	7.70%	8.89%	16.59%	0.19%	16.78%	0.06%	16.78%	NO MAX
1329	Vidor	67	67	9.57%	5.18%	14.75%	0.20%	14.95%	9.35%	4.89%	14.24%	0.20%	14.44%	-0.51%	14.44%	NO MAX
1500	Village Fire Department	48	47	3.74%	2.55%	6.29%	0.13%	6.42%	3.65%	2.44%	6.09%	0.13%	6.22%	-0.20%	6.22%	NO MAX
1327	Village of the Hills	N/A	1	5.58%	0.25%	5.83%	0.06%	5.89%	5.59%	0.59%	6.18%	0.06%	6.24%	0.35%	6.24%	NO MAX
1330	Waco	1,450	1,438	7.53%	6.72%	14.25%	0.00%	14.25%	7.54%	6.48%	14.02%	0.00%	14.02%	-0.23%	14.02%	NO MAX
1332	Waelder	17	15	2.21%	0.43%	2.64%	0.26%	2.90%	2.22%	0.50%	2.72%	0.26%	2.98%	0.08%	2.98%	7.50%
1334	Wake Village	24	24	10.05%	3.81%	13.86%	0.38%	14.24%	9.74%	3.37%	13.11%	0.28%	13.39%	-0.85%	13.39%	NO MAX
1336	Waller	31	31	4.22%	0.00%	4.22%	0.33%	4.55%	4.07%	-0.17%	3.90%	0.32%	4.22%	-0.33%	4.22%	9.50%
1337	Wallis	14	14	3.13%	-0.13%	3.00%	0.24%	3.24%	3.17%	-0.53%	2.64%	0.26%	2.90%	-0.34%	2.90%	8.50%
1338	Walnut Springs	2	2	1.49%	1.87%	3.36%	0.14%	3.50%	1.52%	2.01%	3.53%	0.15%	3.68%	0.18%	3.68%	NO MAX

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES					2019 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						
1340	Waskom	17	16	3.23%	3.57%	6.80%	0.19%	6.99%	3.23%	3.50%	6.73%	0.22%	6.95%	-0.04%	6.95%	7.50%
1341	Watauga	163	157	9.69%	3.90%	13.59%	0.17%	13.76%	9.62%	3.88%	13.50%	0.18%	13.68%	-0.08%	13.68%	NO MAX
1342	Waxahachie	238	251	9.87%	5.45%	15.32%	0.20%	15.52%	9.66%	5.30%	14.96%	0.20%	15.16%	-0.36%	15.16%	NO MAX
1344	Weatherford	362	360	9.38%	3.97%	13.35%	0.18%	13.53%	9.38%	3.87%	13.25%	0.17%	13.42%	-0.11%	13.42%	NO MAX
1345	Webster	164	165	11.68%	5.21%	16.89%	0.20%	17.09%	11.99%	5.42%	17.41%	0.21%	17.62%	0.53%	17.62%	NO MAX
1346	Weimar	26	25	9.16%	9.01%	18.17%	0.25%	18.42%	9.19%	8.03%	17.22%	0.27%	17.49%	-0.93%	17.49%	NO MAX
1350	Wellington	13	13	4.88%	-0.47%	4.41%	0.44%	4.85%	4.86%	-0.82%	4.04%	0.50%	4.54%	-0.31%	4.54%	NO MAX
1352	Wells	2	2	3.38%	0.38%	3.76%	0.00%	3.76%	3.35%	-1.90%	1.45%	0.00%	1.45%	-2.31%	1.45%	7.50%
1354	Weslaco	219	234	5.33%	2.66%	7.99%	0.17%	8.16%	5.28%	2.48%	7.76%	0.16%	7.92%	-0.24%	7.92%	NO MAX
1356	West	21	20	3.58%	-1.54%	2.04%	0.23%	2.27%	3.60%	-2.04%	1.56%	0.28%	1.84%	-0.43%	1.84%	9.50%
1358	West Columbia	34	35	5.30%	-2.14%	3.16%	0.00%	3.16%	5.16%	-1.90%	3.26%	0.00%	3.26%	0.10%	3.26%	11.50%
1359	West Lake Hills	27	23	12.64%	4.57%	17.21%	0.25%	17.46%	11.87%	4.12%	15.99%	0.26%	16.25%	-1.21%	16.25%	NO MAX
1361	West Orange	24	21	10.05%	9.94%	19.99%	0.00%	19.99%	9.85%	10.18%	20.03%	0.00%	20.03%	0.04%	20.03%	NO MAX
1365	West Tawakoni	16	15	5.39%	4.95%	10.34%	0.24%	10.58%	5.27%	4.29%	9.56%	0.25%	9.81%	-0.77%	9.81%	NO MAX
1364	West Univ. Place	117	118	9.30%	4.26%	13.56%	0.20%	13.76%	8.65%	4.19%	12.84%	0.19%	13.03%	-0.73%	13.03%	NO MAX
1363	Westlake	36	41	10.04%	2.80%	12.84%	0.18%	13.02%	9.47%	2.33%	11.80%	0.19%	11.99%	-1.03%	11.99%	NO MAX
1362	Westover Hills	22	22	1.38%	0.34%	1.72%	0.29%	2.01%	1.49%	0.08%	1.57%	0.29%	1.86%	-0.15%	1.86%	7.50%
1366	Westworth Village	53	48	10.91%	1.42%	12.33%	0.19%	12.52%	10.67%	1.08%	11.75%	0.19%	11.94%	-0.58%	11.94%	13.50%
1368	Wharton	105	103	4.77%	1.38%	6.15%	0.21%	6.36%	4.78%	1.10%	5.88%	0.22%	6.10%	-0.26%	6.10%	9.50%
1370	Wheeler	8	8	6.35%	1.05%	7.40%	0.09%	7.49%	6.93%	0.76%	7.69%	0.11%	7.80%	0.31%	7.80%	NO MAX
1372	White Deer	6	5	3.51%	4.50%	8.01%	0.50%	8.51%	3.47%	4.61%	8.08%	0.60%	8.68%	0.17%	8.68%	NO MAX
1377	White Oak	45	45	11.53%	3.02%	14.55%	0.20%	14.75%	11.34%	2.76%	14.10%	0.21%	14.31%	-0.44%	14.31%	NO MAX
1378	White Settlement	117	114	9.84%	8.04%	17.88%	0.19%	18.07%	9.45%	7.48%	16.93%	0.16%	17.09%	-0.98%	17.09%	NO MAX
1374	Whiteface	3	3	5.47%	-3.95%	1.52%	0.34%	1.86%	5.47%	-3.91%	1.56%	0.34%	1.90%	0.04%	1.90%	NO MAX
1375	Whitehouse	35	42	6.47%	1.98%	8.45%	0.17%	8.62%	6.77%	2.22%	8.99%	0.18%	9.17%	0.55%	9.17%	11.50%
1376	Whitesboro	50	49	4.99%	2.37%	7.36%	0.22%	7.58%	4.97%	2.25%	7.22%	0.24%	7.46%	-0.12%	7.46%	9.50%
1380	Whitewright	21	21	3.56%	0.07%	3.63%	0.12%	3.75%	3.65%	-0.78%	2.87%	0.13%	3.00%	-0.75%	3.00%	9.50%
1382	Whitney	20	19	3.48%	0.87%	4.35%	0.18%	4.53%	3.40%	0.82%	4.22%	0.18%	4.40%	-0.13%	4.40%	7.50%
1384	Wichita Falls	1,009	988	5.50%	7.33%	12.83%	0.00%	12.83%	5.49%	7.28%	12.77%	0.00%	12.77%	-0.06%	12.77%	NO MAX
1386	Willis	40	40	8.24%	1.90%	10.14%	0.17%	10.31%	8.09%	1.86%	9.95%	0.18%	10.13%	-0.18%	10.13%	13.50%
1387	Willow Park	38	35	6.49%	0.76%	7.25%	0.13%	7.38%	6.42%	0.81%	7.23%	0.12%	7.35%	-0.03%	7.35%	NO MAX
1388	Wills Point	28	30	6.50%	6.46%	12.96%	0.20%	13.16%	6.26%	6.14%	12.40%	0.19%	12.59%	-0.57%	12.59%	NO MAX
1390	Wilmer	42	51	4.74%	-0.17%	4.57%	0.16%	4.73%	4.80%	-0.10%	4.70%	0.16%	4.86%	0.13%	4.86%	12.50%

**SECTION 2**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION RESULTS AS OF DECEMBER 31, 2017**

CITY NUMBER	CITY NAME	Contributing Members		2018 RATES WITHOUT MAXIMUM OR PHASE-IN					2019 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					
1392	Wimberley	7	7	5.59%	3.51%	9.10%	0.30%	9.40%	4.74%	3.13%	7.87%	0.20%	8.07%	-1.33%	8.07%	NO MAX
1393	Windcrest	60	66	6.84%	1.05%	7.89%	0.22%	8.11%	6.69%	0.71%	7.40%	0.21%	7.61%	-0.50%	7.61%	10.50%
1395	Winfield	6	2	1.75%	1.02%	2.77%	0.12%	2.89%	2.95%	0.55%	3.50%	0.32%	3.82%	0.93%	3.82%	NO MAX
1396	Wink	9	8	7.15%	0.20%	7.35%	0.28%	7.63%	6.98%	0.46%	7.44%	0.30%	7.74%	0.11%	7.74%	NO MAX
1398	Winnsboro	36	37	6.96%	3.28%	10.24%	0.27%	10.51%	6.71%	2.23%	8.94%	0.24%	9.18%	-1.33%	9.18%	11.50%
1399	Winona	3	5	10.87%	-10.14%	0.73%	0.17%	0.90%	10.43%	-10.43%	0.00%	0.19%	0.19%	-0.71%	0.19%	13.50%
1400	Winters	15	14	7.71%	2.22%	9.93%	0.44%	10.37%	7.63%	2.22%	9.85%	0.36%	10.21%	-0.16%	10.21%	11.50%
1403	Wolfforth	30	29	6.80%	4.41%	11.21%	0.18%	11.39%	6.95%	4.15%	11.10%	0.19%	11.29%	-0.10%	11.29%	NO MAX
1409	Woodcreek	3	3	7.70%	-0.14%	7.56%	0.64%	8.20%	7.69%	-0.02%	7.67%	0.67%	8.34%	0.14%	8.34%	NO MAX
1404	Woodsboro	12	12	3.58%	-2.92%	0.66%	0.15%	0.81%	3.58%	-2.53%	1.05%	0.18%	1.23%	0.42%	1.23%	7.50%
1406	Woodville	33	33	9.50%	7.76%	17.26%	0.23%	17.49%	9.56%	7.96%	17.52%	0.26%	17.78%	0.29%	17.78%	NO MAX
1407	Woodway	83	81	9.22%	7.18%	16.40%	0.16%	16.56%	9.05%	7.41%	16.46%	0.15%	16.61%	0.05%	16.61%	NO MAX
1408	Wortham	8	8	6.62%	-0.74%	5.88%	0.11%	5.99%	6.60%	-0.71%	5.89%	0.13%	6.02%	0.03%	6.02%	12.50%
1410	Wylie	304	313	10.76%	4.10%	14.86%	0.12%	14.98%	10.77%	4.07%	14.84%	0.12%	14.96%	-0.02%	14.96%	NO MAX
1412	Yoakum	87	84	8.23%	7.41%	15.64%	0.27%	15.91%	8.21%	7.52%	15.73%	0.28%	16.01%	0.10%	16.01%	NO MAX
1414	Yorktown	14	14	1.42%	0.05%	1.47%	0.37%	1.84%	1.39%	-0.47%	0.92%	0.37%	1.29%	-0.55%	1.29%	7.50%
1415	Zavalla	8	8	3.82%	-0.44%	3.38%	0.00%	3.38%	3.71%	-3.69%	0.02%	0.00%	0.02%	-3.36%	0.02%	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, 2017 the System-wide return on an AVA basis was 7.11%, 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, 2017 set the rate effective for Calendar Year 2019.) 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.

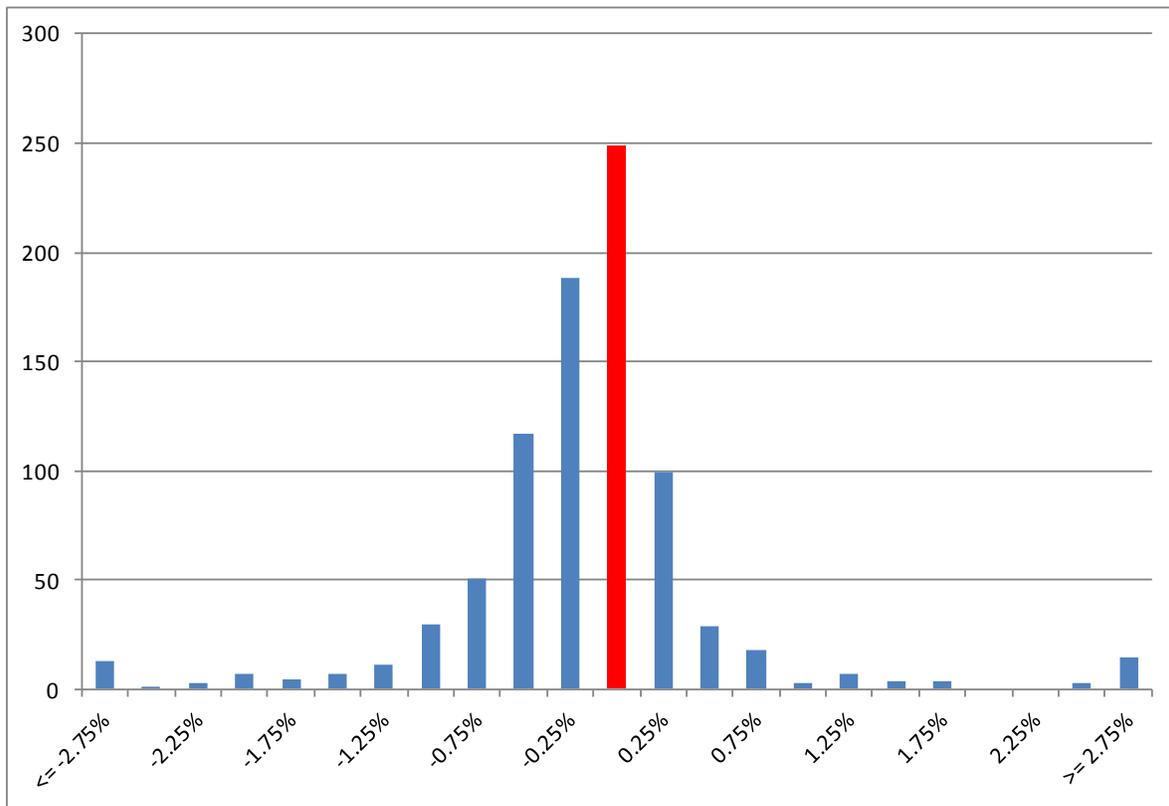
**Payroll Growth** - Shows the increase or decrease in the contribution rate associated with larger or lower than expected growth in the member city's overall payroll. The amortization payments are calculated assuming payroll grows at a city's assumed rate each year. For most cities the assumed payroll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

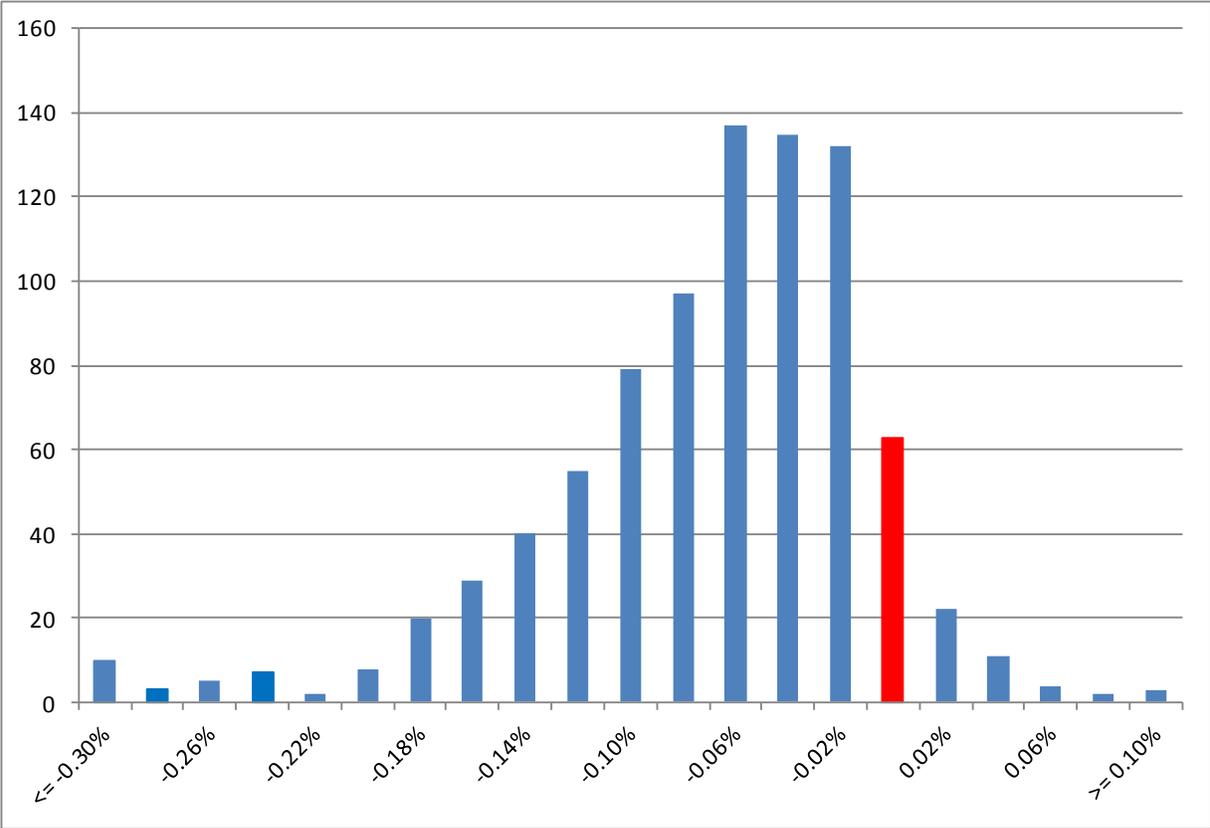
## Distribution of Changes

### Total Changes in Full Retirement Rate



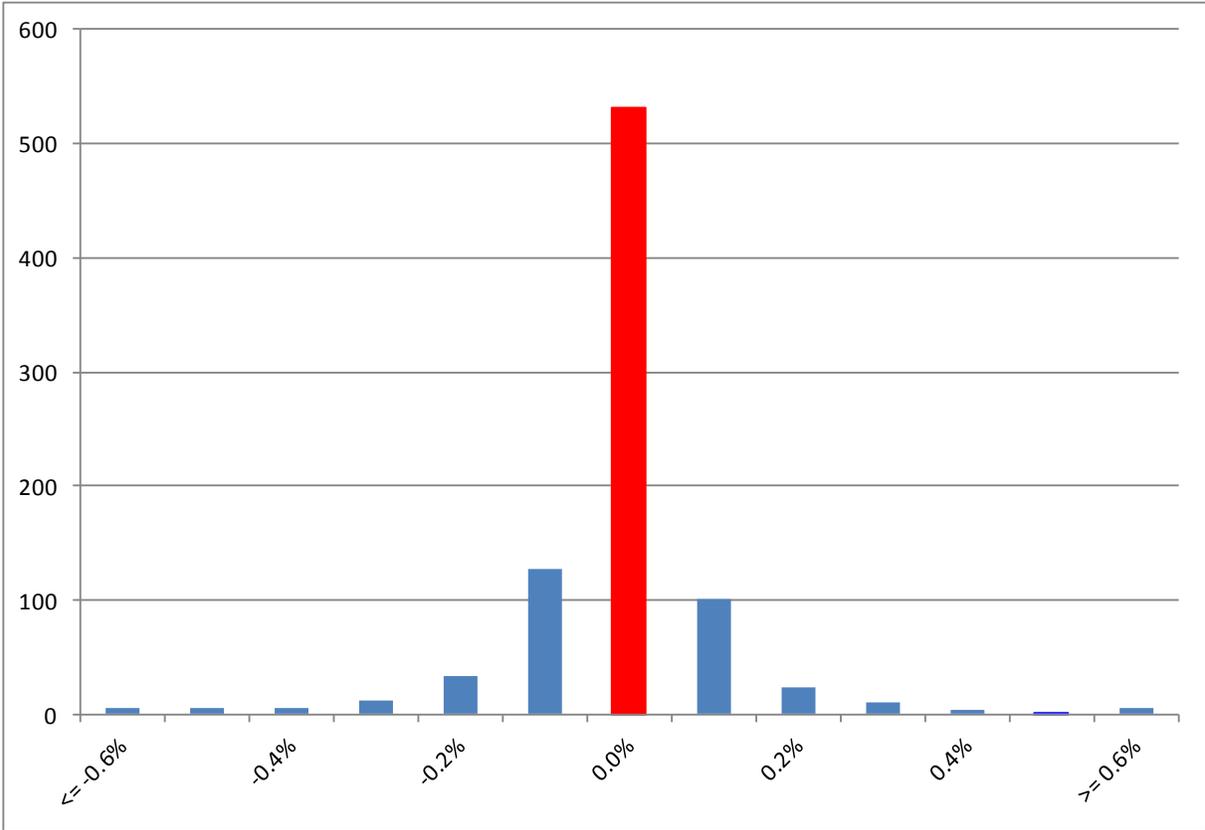
# Distribution of Changes

## Change Due to Return on Actuarial Value of Assets



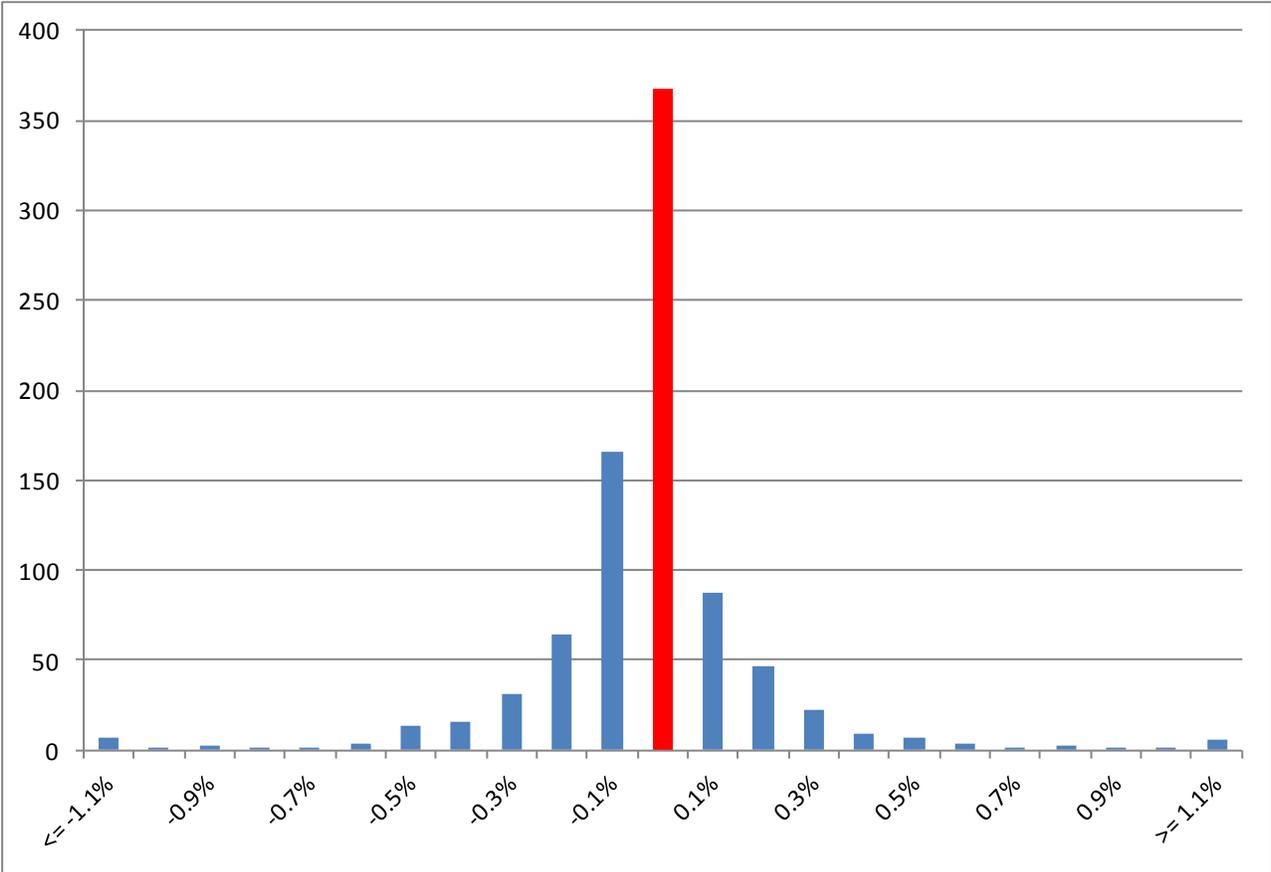
# Distribution of Changes

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



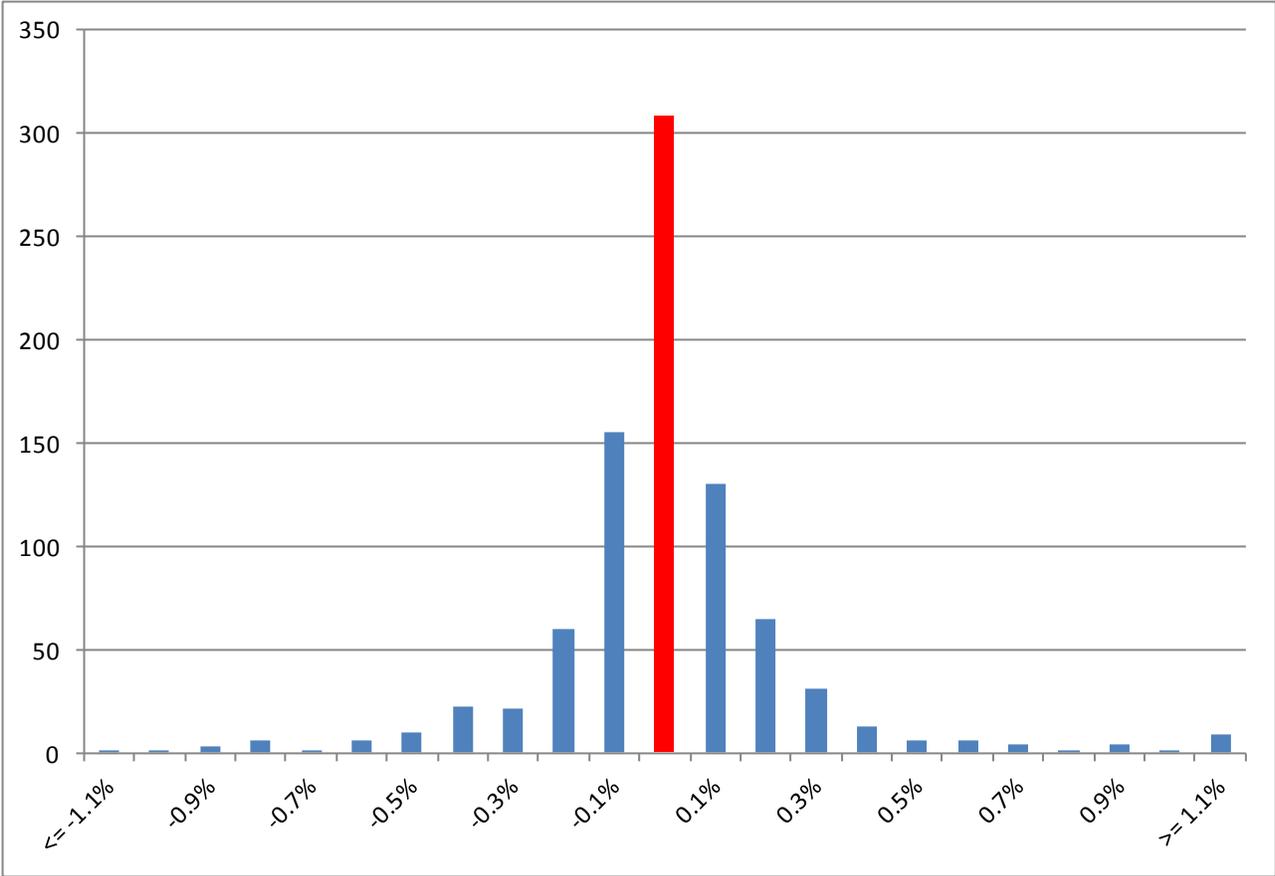
# Distribution of Changes

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



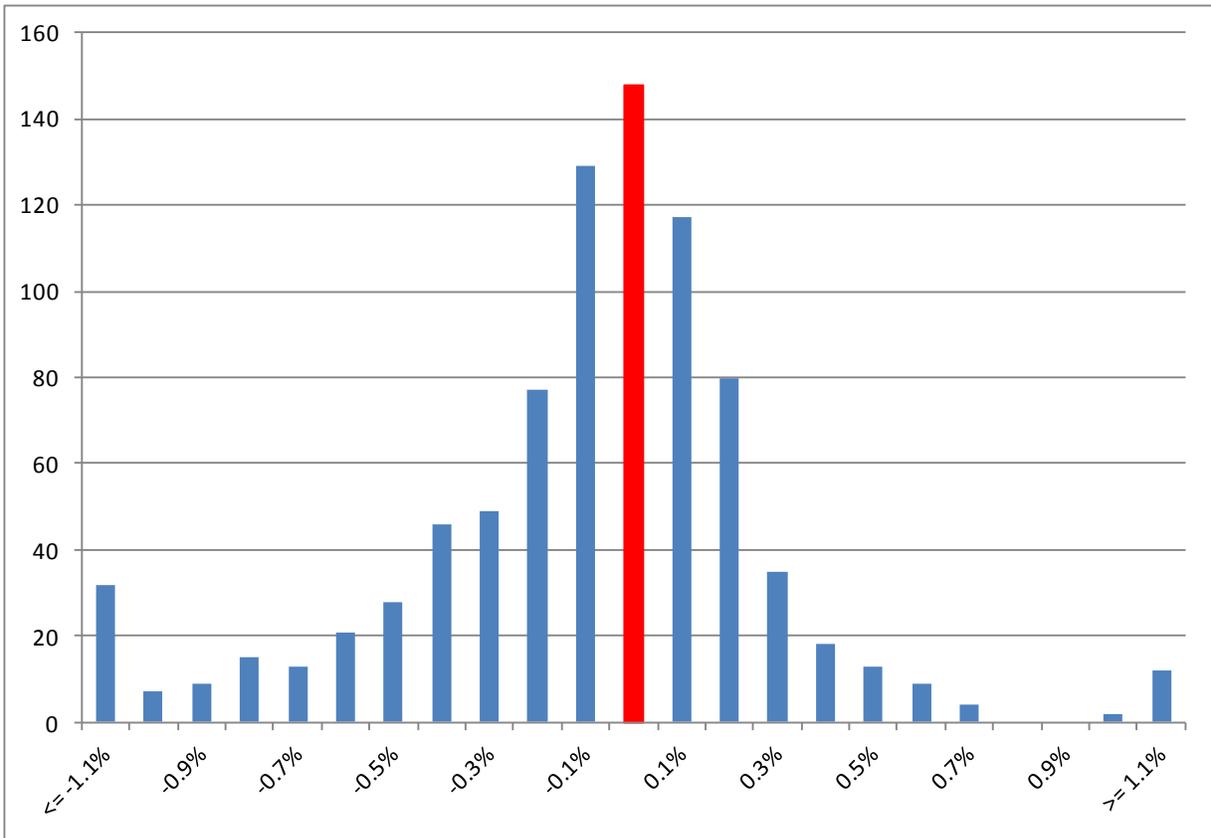
# Distribution of Changes

## 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	2018 Rates	Assumption &		Contribution			Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes	Return on AVA	Lag/Phase In & Fully Amortized Prior Bases	Payroll Growth				
4	Abernathy	3.85%	0.30%	0.00%	-0.04%	0.01%	-0.14%	-0.01%	0.04%	0.16%	4.01%
6	Abilene	11.36%	0.00%	0.00%	-0.16%	0.04%	-0.03%	-0.09%	-0.19%	-0.43%	10.93%
7	Addison	10.46%	0.00%	0.00%	-0.16%	0.02%	-0.03%	0.20%	0.20%	0.23%	10.69%
10	Alamo	7.12%	0.00%	0.00%	-0.02%	-0.01%	0.00%	0.02%	-0.24%	-0.25%	6.87%
12	Alamo Heights	17.08%	-0.19%	0.00%	-0.06%	-0.02%	0.19%	0.00%	-0.16%	-0.24%	16.84%
14	Alba	2.78%	0.00%	0.00%	-0.04%	-0.26%	0.01%	0.08%	-0.13%	-0.34%	2.44%
16	Albany	5.01%	0.00%	0.00%	-0.03%	0.03%	-0.05%	0.13%	0.15%	0.23%	5.24%
17	Aledo	7.86%	0.00%	0.00%	-0.02%	0.07%	0.00%	0.33%	-0.78%	-0.40%	7.46%
18	Alice	9.34%	-4.03%	0.00%	-0.09%	-0.15%	-0.05%	-0.04%	-0.17%	-4.53%	4.81%
19	Allen	13.99%	0.00%	0.00%	-0.05%	-0.09%	-0.03%	0.01%	0.20%	0.04%	14.03%
20	Alpine	0.97%	0.00%	0.00%	-0.06%	-0.02%	0.24%	0.02%	-0.09%	0.09%	1.06%
22	Alto	11.04%	0.00%	0.00%	-0.06%	0.26%	0.04%	0.18%	0.12%	0.54%	11.58%
23	Alton	14.18%	0.00%	0.00%	-0.01%	0.20%	-0.03%	-0.19%	-0.25%	-0.28%	13.90%
24	Alvarado	5.18%	0.00%	0.00%	-0.01%	-0.01%	0.00%	-0.01%	0.04%	0.01%	5.19%
26	Alvin	17.63%	0.00%	0.00%	-0.12%	-0.07%	-0.10%	-0.04%	-0.42%	-0.75%	16.88%
28	Alvord	6.45%	0.00%	0.00%	-0.02%	-0.10%	-0.19%	-0.94%	0.24%	-1.01%	5.44%
30	Amarillo	12.44%	0.00%	0.00%	-0.14%	0.04%	-0.14%	-0.06%	0.04%	-0.26%	12.18%
32	Amherst	3.59%	0.00%	0.00%	0.00%	-0.01%	0.00%	0.02%	-3.60%	-3.59%	0.00%
34	Anahuac	7.38%	0.00%	0.00%	-0.17%	-0.11%	-0.58%	1.22%	1.01%	1.37%	8.75%
36	Andrews	15.91%	0.00%	0.00%	-0.11%	0.02%	-0.02%	-0.07%	0.24%	0.06%	15.97%
38	Angleton	11.80%	0.72%	0.00%	-0.07%	0.04%	-0.07%	0.07%	-0.14%	0.55%	12.35%
40	Anna	14.27%	0.00%	0.00%	0.00%	-0.10%	-0.14%	0.55%	0.09%	0.40%	14.67%
41	Annetta	3.65%	5.10%	0.00%	0.05%	0.36%	-0.39%	0.73%	0.49%	6.34%	9.99%
44	Anson	1.20%	0.00%	0.00%	-0.03%	-0.01%	-0.06%	-0.16%	-0.40%	-0.66%	0.54%
45	Anthony	3.06%	0.00%	0.00%	-0.02%	0.01%	0.02%	0.03%	-0.11%	-0.07%	2.99%
48	Aransas Pass	11.41%	0.00%	0.00%	-0.05%	-0.06%	-0.19%	-0.34%	-1.06%	-1.70%	9.71%
50	Archer City	4.32%	0.00%	0.00%	-0.02%	0.01%	0.01%	-0.07%	-0.07%	-0.14%	4.18%
49	Arcola	5.70%	0.00%	0.00%	0.03%	-0.06%	-0.87%	-0.08%	0.09%	-0.89%	4.81%
51	Argyle	13.59%	0.00%	0.00%	-0.02%	-0.15%	-0.10%	0.16%	0.20%	0.09%	13.68%
52	Arlington	15.79%	0.00%	0.00%	-0.14%	0.01%	-0.04%	-0.01%	0.20%	0.02%	15.81%
54	Arp	1.96%	0.00%	0.00%	-0.05%	0.02%	-0.11%	-0.01%	-0.13%	-0.28%	1.68%
60	Aspermont	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
62	Athens	21.60%	0.00%	0.00%	-0.09%	0.03%	-0.38%	-0.01%	-0.36%	-0.81%	20.79%
64	Atlanta	3.96%	0.00%	0.00%	-0.06%	-0.03%	0.00%	0.02%	-0.31%	-0.38%	3.58%
66	Aubrey	3.49%	2.73%	0.00%	-0.01%	0.13%	-0.03%	0.07%	-0.25%	2.64%	6.13%
74	Avinger	1.94%	0.00%	0.00%	-0.02%	-0.05%	0.25%	-0.02%	-0.03%	0.13%	2.07%
75	Azle	12.20%	0.00%	0.00%	-0.05%	0.01%	-0.02%	0.05%	0.04%	0.03%	12.23%
77	Baird	0.86%	0.00%	0.00%	-0.03%	0.00%	-0.04%	-0.02%	0.10%	0.01%	0.87%
78	Balch Springs	14.24%	0.00%	0.00%	-0.04%	-0.01%	-0.05%	-0.09%	-0.22%	-0.41%	13.83%
79	Balcones Heights	16.59%	0.00%	0.00%	-0.09%	-0.09%	-0.04%	-0.20%	-0.41%	-0.83%	15.76%
80	Ballinger	3.85%	0.00%	0.00%	-0.07%	0.01%	0.01%	0.09%	-0.19%	-0.15%	3.70%
82	Balmorhea	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
83	Bandera	9.20%	0.00%	0.00%	-0.06%	-0.09%	0.04%	0.97%	0.34%	1.20%	10.40%
84	Bangs	12.42%	0.00%	0.00%	-0.08%	-0.04%	-0.10%	0.25%	0.35%	0.38%	12.80%
90	Bartlett	7.14%	0.00%	0.00%	-0.02%	0.08%	-0.09%	1.08%	-0.32%	0.73%	7.87%
91	Bartonville	14.97%	0.00%	0.00%	-0.04%	0.34%	0.55%	-0.36%	-0.18%	0.31%	15.28%
92	Bastrop	11.36%	0.00%	0.00%	-0.03%	-0.07%	-0.17%	0.08%	0.20%	0.01%	11.37%
94	Bay City	9.61%	0.00%	0.00%	-0.12%	-0.03%	0.02%	-0.04%	0.07%	-0.10%	9.51%
93	Bayou Vista	3.70%	0.00%	0.00%	-0.01%	0.02%	-0.14%	-0.54%	-0.21%	-0.88%	2.82%
96	Baytown	17.49%	0.00%	0.00%	-0.09%	-0.09%	-0.33%	0.04%	0.61%	0.14%	17.63%
98	Beaumont	19.74%	0.00%	0.00%	-0.19%	-0.02%	-0.11%	-0.02%	-0.18%	-0.52%	19.22%
100	Bedford	9.01%	0.00%	0.00%	0.00%	0.02%	0.00%	0.04%	-0.05%	0.01%	9.02%
101	Bee Cave	9.61%	0.00%	0.00%	-0.01%	0.02%	0.03%	-0.20%	-0.37%	-0.53%	9.08%
102	Beeville	0.95%	0.00%	0.00%	-0.07%	0.00%	-0.03%	0.08%	-0.10%	-0.12%	0.83%

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
106	Bellaire	20.25%	0.00%	0.00%	-0.14%	-0.09%	-0.19%	0.02%	0.60%	0.20%	20.45%
109	Bellmead	9.09%	0.00%	0.00%	-0.07%	0.00%	-0.01%	0.21%	-0.41%	-0.28%	8.81%
110	Bells	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
112	Bellville	15.16%	0.00%	0.00%	-0.09%	0.08%	0.35%	-0.05%	-0.07%	0.22%	15.38%
114	Belton	7.57%	0.00%	0.00%	-0.04%	0.02%	0.00%	0.01%	-0.08%	-0.09%	7.48%
118	Benbrook	16.37%	0.00%	0.00%	-0.12%	-0.02%	-0.09%	0.12%	-0.08%	-0.19%	16.18%
121	Berryville	2.81%	0.00%	0.00%	-0.05%	0.06%	-0.25%	0.62%	-0.16%	0.22%	3.03%
123	Bertram	2.02%	0.00%	0.00%	-0.03%	0.00%	0.00%	0.02%	-0.03%	-0.04%	1.98%
124	Big Lake	16.21%	0.00%	0.00%	-0.06%	-0.06%	0.54%	-0.05%	1.09%	1.46%	17.67%
126	Big Sandy	2.52%	0.00%	0.00%	-0.05%	-0.03%	0.06%	0.26%	-0.32%	-0.08%	2.44%
128	Big Spring	17.38%	0.00%	0.00%	-0.12%	0.08%	0.25%	0.00%	-0.40%	-0.19%	17.19%
132	Bishop	3.87%	0.00%	0.00%	-0.08%	0.03%	0.02%	-0.05%	-0.28%	-0.36%	3.51%
134	Blanco	1.68%	0.00%	0.00%	-0.02%	-0.01%	-0.01%	-0.10%	0.05%	-0.09%	1.59%
140	Blooming Grove	10.35%	0.00%	0.00%	-0.03%	0.04%	0.07%	0.34%	-0.79%	-0.37%	9.98%
142	Blossom	3.73%	0.00%	0.00%	-0.10%	-0.24%	-0.02%	0.02%	0.33%	-0.01%	3.72%
143	Blue Mound	4.65%	0.00%	0.00%	0.00%	-0.02%	0.00%	-0.03%	0.04%	-0.01%	4.64%
144	Blue Ridge	1.55%	0.00%	0.00%	0.00%	0.02%	0.01%	0.65%	-0.42%	0.26%	1.81%
148	Boerne	18.27%	0.00%	0.00%	-0.04%	-0.05%	-0.23%	-0.08%	0.47%	0.07%	18.34%
150	Bogata	0.16%	0.00%	0.00%	0.00%	0.01%	0.00%	-0.17%	0.00%	-0.16%	0.00%
152	Bonham	4.86%	0.59%	0.00%	-0.07%	0.05%	0.04%	-0.01%	-0.15%	0.45%	5.31%
154	Booker	5.96%	0.00%	0.00%	-0.05%	0.05%	0.03%	-0.24%	0.10%	-0.11%	5.85%
156	Borger	14.81%	0.00%	0.00%	-0.10%	-0.02%	-0.01%	-0.04%	-0.07%	-0.24%	14.57%
158	Bovina	0.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.06%	-0.12%	-0.06%	0.00%
160	Bowie	10.58%	0.00%	0.00%	-0.09%	0.07%	0.28%	0.07%	-0.29%	0.04%	10.62%
162	Boyd	3.92%	0.00%	0.00%	-0.03%	0.03%	-0.01%	0.44%	-0.11%	0.32%	4.24%
166	Brady	10.54%	0.00%	0.00%	-0.03%	0.00%	-0.02%	0.21%	-0.46%	-0.30%	10.24%
170	Brazoria	8.60%	0.00%	0.00%	-0.18%	-0.06%	0.00%	0.03%	-1.70%	-1.91%	6.69%
172	Breckenridge	7.99%	0.00%	0.00%	-0.09%	-0.05%	0.15%	-0.03%	-0.55%	-0.57%	7.42%
174	Bremond	17.24%	0.00%	0.00%	-0.02%	0.27%	-0.24%	-0.03%	-1.27%	-1.29%	15.95%
176	Brenham	9.88%	0.24%	0.00%	-0.10%	0.02%	-0.19%	-0.10%	-0.03%	-0.16%	9.72%
177	Bridge City	15.31%	0.00%	0.00%	-0.10%	-0.04%	-0.05%	0.20%	-0.25%	-0.24%	15.07%
178	Bridgeport	13.71%	0.00%	0.00%	-0.06%	0.08%	0.16%	-0.08%	0.07%	0.17%	13.88%
180	Bronte	13.12%	0.00%	0.00%	-0.11%	0.16%	-0.47%	0.00%	0.28%	-0.14%	12.98%
182	Brookshire	5.63%	0.00%	0.00%	-0.06%	-0.02%	-0.01%	-0.05%	0.19%	0.05%	5.68%
184	Brownfield	6.04%	0.00%	0.00%	-0.10%	-0.51%	0.00%	0.03%	-0.35%	-0.93%	5.11%
10188	Brownsville	17.59%	0.00%	0.00%	-0.12%	0.03%	0.04%	-0.01%	-0.46%	-0.52%	17.07%
20188	Brownsville PUB	17.73%	0.00%	0.00%	-0.11%	-0.01%	-0.08%	-0.04%	-0.04%	-0.28%	17.45%
10190	Brownwood	13.51%	0.00%	0.00%	-0.11%	-0.01%	-0.04%	-0.05%	-0.17%	-0.38%	13.13%
30190	Brownwood Health Dept.	10.67%	0.00%	0.00%	-0.05%	0.02%	-0.01%	-0.04%	-0.64%	-0.72%	9.95%
20190	Brownwood Public Library	4.71%	0.00%	0.00%	-0.04%	0.07%	-0.10%	-0.03%	0.09%	-0.01%	4.70%
195	Bruceville-Eddy	5.46%	0.00%	0.00%	-0.03%	0.02%	0.01%	-0.07%	-0.15%	-0.22%	5.24%
192	Bryan	15.22%	0.00%	0.00%	-0.11%	-0.04%	-0.12%	-0.03%	0.07%	-0.23%	14.99%
193	Bryson	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
194	Buda	14.81%	0.00%	0.00%	0.00%	-0.15%	-0.29%	-0.58%	0.15%	-0.87%	13.94%
196	Buffalo	4.80%	0.00%	0.00%	-0.06%	0.05%	0.01%	0.02%	0.00%	0.02%	4.82%
198	Bullard	7.82%	0.00%	0.00%	0.00%	-0.02%	-0.09%	0.03%	-0.06%	-0.14%	7.68%
203	Bulverde	9.54%	0.00%	0.00%	-0.02%	0.04%	-0.05%	-0.17%	-0.29%	-0.49%	9.05%
199	Bunker Hill Village	10.85%	0.00%	0.00%	-0.18%	-0.16%	-0.11%	0.12%	1.18%	0.85%	11.70%
200	Burkburnett	9.42%	0.30%	0.00%	-0.10%	0.04%	0.01%	0.08%	0.39%	0.72%	10.14%
202	Burleson	15.40%	0.00%	0.00%	-0.05%	-0.02%	-0.09%	0.03%	0.04%	-0.09%	15.31%
204	Burnet	12.96%	0.00%	0.00%	-0.06%	0.03%	0.03%	0.03%	0.07%	0.10%	13.06%
206	Burton	9.81%	0.00%	0.00%	0.07%	0.08%	0.02%	0.00%	0.11%	0.28%	10.09%
207	Cactus	5.00%	0.00%	0.00%	-0.01%	-0.09%	-0.01%	0.13%	0.07%	0.09%	5.09%
208	Caddo Mills	6.19%	0.00%	0.00%	0.00%	0.01%	0.02%	0.05%	0.11%	0.19%	6.38%

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
210	Caldwell	9.25%	0.00%	0.00%	-0.12%	-0.02%	-0.11%	0.00%	0.32%	0.07%	9.32%
212	Calvert	1.14%	0.00%	0.00%	-0.01%	-0.02%	0.07%	-0.07%	-0.07%	-0.10%	1.04%
214	Cameron	9.94%	0.00%	0.00%	-0.05%	0.02%	0.16%	0.09%	-0.07%	0.15%	10.09%
216	Campbell	39.12%	0.00%	0.00%	0.16%	1.46%	1.17%	0.01%	-0.11%	2.69%	41.81%
220	Canadian	15.25%	0.00%	0.00%	-0.06%	-0.03%	-0.31%	1.26%	0.12%	0.98%	16.23%
221	Caney City	2.34%	0.00%	0.00%	0.02%	-0.26%	-0.02%	-0.11%	-0.06%	-0.43%	1.91%
222	Canton	12.31%	0.00%	0.00%	-0.05%	0.03%	-0.05%	0.03%	-0.19%	-0.23%	12.08%
224	Canyon	16.34%	0.00%	0.00%	-0.13%	-0.07%	-0.26%	-0.19%	-0.36%	-1.01%	15.33%
227	Carmine	2.68%	0.00%	0.00%	-0.06%	0.04%	0.00%	-0.01%	0.02%	-0.01%	2.67%
228	Carrizo Springs	5.51%	0.00%	0.00%	-0.08%	0.07%	0.08%	-0.08%	-0.26%	-0.27%	5.24%
230	Carrollton	12.38%	0.00%	0.00%	-0.27%	-0.06%	-0.06%	-0.05%	0.01%	-0.43%	11.95%
232	Carthage	18.51%	0.00%	0.00%	-0.18%	0.21%	0.62%	-0.08%	-0.32%	0.25%	18.76%
231	Castle Hills	11.57%	0.00%	0.00%	-0.09%	-0.03%	-0.15%	-0.03%	0.16%	-0.14%	11.43%
234	Castroville	9.23%	0.00%	0.00%	-0.06%	0.03%	0.06%	0.19%	-0.39%	-0.17%	9.06%
238	Cedar Hill	13.96%	0.00%	0.00%	-0.08%	-0.01%	-0.13%	0.04%	-0.07%	-0.25%	13.71%
239	Cedar Park	12.66%	1.57%	0.00%	-0.02%	0.04%	-0.34%	0.06%	0.35%	1.66%	14.32%
240	Celeste	6.84%	0.00%	0.00%	0.01%	0.02%	0.72%	-0.11%	0.12%	0.76%	7.60%
242	Celina	6.34%	0.00%	0.00%	0.00%	-0.05%	0.02%	-0.06%	0.09%	0.00%	6.34%
244	Center	15.14%	0.00%	0.00%	-0.07%	-0.06%	0.05%	-0.05%	-1.85%	-1.98%	13.16%
246	Centerville	20.08%	0.00%	0.00%	-0.06%	0.55%	1.24%	0.09%	-0.24%	1.58%	21.66%
247	Chandler	4.65%	0.00%	0.00%	-0.01%	-0.01%	-0.07%	0.07%	0.07%	0.05%	4.70%
248	Charlotte	7.52%	0.00%	0.00%	-0.06%	0.04%	0.08%	0.04%	-1.04%	-0.94%	6.58%
249	Chester	3.39%	0.00%	0.00%	-0.32%	-0.22%	0.04%	-0.01%	-1.34%	-1.85%	1.54%
245	Chico	3.27%	0.00%	0.00%	-0.04%	0.05%	0.37%	0.05%	0.30%	0.73%	4.00%
250	Childress	15.31%	0.00%	0.00%	-0.07%	0.04%	0.15%	0.07%	-0.52%	-0.33%	14.98%
251	Chillicothe	11.08%	0.00%	0.00%	0.08%	-0.49%	-0.85%	-0.14%	0.10%	-1.30%	9.78%
253	Chireno	19.63%	0.00%	0.00%	-0.20%	0.28%	0.78%	-0.02%	-0.01%	0.83%	20.46%
254	Christine	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
255	Cibolo	13.06%	0.00%	0.00%	0.00%	-0.05%	-0.13%	-0.40%	0.24%	-0.34%	12.72%
256	Cisco	2.57%	3.26%	0.00%	-0.06%	0.19%	-0.01%	0.23%	0.38%	3.99%	6.56%
258	Clarendon	1.51%	0.00%	0.00%	-0.03%	0.01%	0.02%	-0.01%	-0.03%	-0.04%	1.47%
259	Clarksville	3.45%	0.00%	0.00%	-0.12%	-0.02%	-0.55%	0.69%	-1.26%	-1.26%	2.19%
260	Clarksville City	3.90%	0.00%	0.00%	-0.23%	0.00%	0.01%	0.01%	0.34%	0.13%	4.03%
263	Clear Lake Shores	11.17%	0.00%	0.00%	-0.01%	-0.10%	-0.20%	-0.03%	0.05%	-0.29%	10.88%
264	Cleburne	15.85%	0.00%	0.00%	-0.12%	0.02%	0.06%	-0.01%	-0.11%	-0.16%	15.69%
266	Cleveland	10.68%	0.00%	0.00%	-0.05%	0.00%	-0.02%	0.00%	0.16%	0.09%	10.77%
268	Clifton	1.70%	0.00%	0.00%	-0.04%	0.02%	0.00%	0.01%	0.07%	0.06%	1.76%
271	Clute	10.59%	0.00%	0.00%	-0.10%	-0.08%	-0.02%	0.05%	-0.19%	-0.34%	10.25%
272	Clyde	12.57%	0.00%	0.00%	-0.06%	-0.01%	0.15%	0.28%	0.03%	0.39%	12.96%
274	Coahoma	6.00%	0.00%	0.00%	-0.07%	0.00%	0.00%	0.00%	0.10%	0.03%	6.03%
276	Cockrell Hill	8.23%	0.00%	0.00%	-0.05%	0.03%	-0.04%	0.15%	-0.14%	-0.05%	8.18%
278	Coleman	16.26%	0.00%	0.00%	-0.10%	-0.06%	-0.08%	0.20%	0.32%	0.28%	16.54%
280	College Station	13.38%	0.00%	0.00%	-0.09%	-0.02%	-0.15%	-0.07%	0.15%	-0.18%	13.20%
281	Colleyville	8.82%	0.00%	0.00%	-0.09%	0.02%	0.00%	-0.21%	0.02%	-0.26%	8.56%
282	Collinsville	5.30%	0.00%	0.00%	-0.01%	-0.01%	0.00%	0.04%	0.13%	0.15%	5.45%
283	Colmesneil	7.97%	0.50%	0.00%	-0.02%	0.22%	-0.22%	0.21%	-0.25%	0.44%	8.41%
284	Colorado City	8.89%	0.00%	0.00%	-0.08%	0.01%	0.00%	-0.03%	-0.40%	-0.50%	8.39%
286	Columbus	13.84%	0.00%	0.00%	-0.10%	0.01%	-0.06%	-0.81%	-0.49%	-1.45%	12.39%
288	Comanche	4.79%	0.00%	0.00%	-0.08%	0.01%	0.03%	0.06%	-0.09%	-0.07%	4.72%
290	Commerce	8.90%	0.00%	0.00%	-0.08%	0.03%	0.08%	0.05%	-0.42%	-0.34%	8.56%
294	Conroe	16.46%	0.00%	0.00%	-0.08%	0.03%	0.00%	-0.20%	-0.04%	-0.29%	16.17%
295	Converse	14.20%	0.00%	0.00%	-0.05%	-0.10%	-0.34%	-0.12%	0.16%	-0.45%	13.75%
298	Cooper	5.19%	0.00%	0.00%	-0.10%	0.11%	0.02%	-0.08%	-0.21%	-0.26%	4.93%
299	Coppell	15.55%	0.00%	0.00%	-0.08%	-0.01%	-0.08%	-0.10%	0.25%	-0.02%	15.53%

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption & Method Changes		Return on AVA	Contribution Lag/Phase In & Fully Amortized Prior Bases		Payroll Growth	Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes								
297	Copper Canyon	13.45%	0.00%	0.00%	-0.03%	-0.59%	-0.46%	-0.04%	0.71%	-0.41%	13.04%	
300	Copperas Cove	12.34%	0.00%	0.00%	-0.09%	0.02%	0.01%	-0.04%	-0.28%	-0.38%	11.96%	
301	Corinth	15.80%	0.00%	0.00%	-0.04%	0.05%	0.03%	-0.16%	-0.38%	-0.50%	15.30%	
302	Corpus Christi	10.38%	0.72%	0.00%	-0.26%	-1.07%	0.05%	-0.01%	-0.24%	-0.81%	9.57%	
304	Corrigan	1.27%	2.86%	0.00%	-0.04%	-0.05%	0.01%	-0.11%	-0.11%	2.56%	3.83%	
306	Corsicana	16.28%	0.00%	0.00%	-0.15%	-0.06%	-0.49%	-0.09%	0.02%	-0.77%	15.51%	
308	Cotulla	6.60%	0.00%	0.00%	-0.01%	0.00%	0.05%	0.10%	-0.07%	0.07%	6.67%	
311	Covington	9.34%	0.00%	0.00%	0.01%	0.11%	0.07%	0.00%	-6.93%	-6.74%	2.60%	
310	Crandall	10.98%	0.00%	0.00%	-0.04%	0.02%	0.02%	0.24%	-0.54%	-0.30%	10.68%	
312	Crane	10.03%	0.00%	0.00%	-0.13%	0.01%	-0.02%	-0.13%	-0.90%	-1.17%	8.86%	
314	Crawford	0.88%	0.00%	0.00%	-0.01%	0.01%	-0.05%	0.17%	-0.02%	0.10%	0.98%	
316	Crockett	8.63%	0.00%	0.00%	-0.16%	0.01%	-0.04%	0.02%	-0.36%	-0.53%	8.10%	
318	Crosbyton	4.71%	0.00%	0.00%	-0.13%	0.03%	-0.12%	0.07%	0.31%	0.16%	4.87%	
320	Cross Plains	8.83%	0.00%	0.00%	-0.07%	0.01%	-0.28%	-0.35%	0.25%	-0.44%	8.39%	
321	Cross Roads	7.43%	0.00%	0.00%	0.03%	-0.19%	-0.40%	0.41%	0.09%	-0.06%	7.37%	
323	Crowley	10.63%	0.00%	0.00%	-0.05%	-0.03%	-0.04%	0.09%	0.17%	0.14%	10.77%	
324	Crystal City	1.39%	0.00%	0.00%	-0.07%	0.00%	-0.25%	-0.19%	-0.03%	-0.54%	0.85%	
326	Cuero	10.38%	0.00%	0.00%	-0.04%	0.01%	0.07%	0.02%	-0.10%	-0.04%	10.34%	
328	Cumby	1.96%	0.00%	0.00%	-0.01%	0.00%	0.06%	0.14%	0.03%	0.22%	2.18%	
332	Daingerfield	6.91%	0.00%	0.00%	-0.06%	0.02%	0.02%	0.10%	-0.85%	-0.77%	6.14%	
334	Daisetta	1.45%	0.00%	0.00%	-0.02%	0.02%	-0.14%	0.09%	-0.14%	-0.19%	1.26%	
336	Dalhart	4.66%	0.00%	0.00%	-0.08%	0.00%	0.00%	-0.01%	0.11%	0.02%	4.68%	
339	Dalworthington Gardens	21.09%	0.00%	0.00%	-0.06%	0.01%	-0.08%	0.31%	0.09%	0.27%	21.36%	
340	Danbury	6.63%	0.00%	0.00%	0.00%	-0.04%	-0.25%	0.14%	-0.33%	-0.48%	6.15%	
341	Darrouzett	2.42%	0.00%	0.00%	-0.05%	0.03%	-0.04%	0.25%	-0.64%	-0.45%	1.97%	
344	Dayton	7.46%	0.00%	0.00%	-0.03%	-0.04%	-0.10%	-0.18%	0.17%	-0.18%	7.28%	
352	De Leon	1.64%	0.00%	0.00%	-0.04%	0.01%	-0.01%	0.08%	-0.16%	-0.12%	1.52%	
10366	DeSoto	11.23%	0.00%	0.00%	-0.11%	0.02%	-0.03%	-0.05%	-0.13%	-0.30%	10.93%	
346	Decatur	15.02%	0.00%	0.00%	-0.04%	0.04%	0.11%	-0.13%	-0.35%	-0.37%	14.65%	
348	Deer Park	14.44%	0.00%	0.00%	-0.15%	0.01%	-0.03%	-0.11%	-0.06%	-0.34%	14.10%	
350	Dekalb	2.97%	0.00%	0.00%	-0.03%	-0.01%	-0.02%	0.10%	0.02%	0.06%	3.03%	
354	Del Rio	7.43%	0.00%	0.00%	-0.01%	0.02%	0.03%	-0.01%	-0.02%	0.01%	7.44%	
353	Dell City	11.15%	0.00%	0.00%	-0.66%	-0.16%	-4.56%	0.56%	4.02%	-0.80%	10.35%	
356	Denison	12.74%	0.00%	0.00%	-0.21%	0.05%	0.08%	-0.08%	-0.41%	-0.57%	12.17%	
358	Denton	17.13%	0.00%	0.00%	-0.08%	-0.03%	-0.11%	-0.03%	0.12%	-0.13%	17.00%	
360	Denver City	12.87%	0.00%	0.00%	-0.37%	-0.05%	-0.30%	-0.10%	-0.75%	-1.57%	11.30%	
362	Deport	3.49%	0.00%	0.00%	-0.06%	0.06%	-0.07%	0.26%	-0.50%	-0.31%	3.18%	
370	Devine	16.13%	0.00%	0.00%	-0.01%	-0.04%	-0.30%	-0.01%	0.64%	0.28%	16.41%	
371	Diboll	14.66%	0.00%	0.00%	-0.10%	0.13%	0.28%	0.10%	-1.03%	-0.62%	14.04%	
372	Dickens	1.85%	0.00%	0.00%	0.00%	0.01%	0.06%	1.19%	-0.60%	0.66%	2.51%	
373	Dickinson	9.46%	0.00%	0.00%	-0.04%	-0.07%	-0.19%	-0.48%	0.21%	-0.57%	8.89%	
374	Dilley	8.19%	0.00%	0.00%	-0.02%	0.06%	0.25%	-0.31%	-0.18%	-0.20%	7.99%	
376	Dimmitt	4.81%	0.00%	0.00%	-0.14%	-0.02%	0.26%	-0.27%	-0.92%	-1.09%	3.72%	
382	Donna	8.57%	0.00%	0.00%	-0.02%	0.02%	0.06%	0.00%	-0.02%	0.04%	8.61%	
379	Double Oak	5.79%	0.00%	0.00%	0.00%	-0.02%	-0.01%	-0.30%	0.01%	-0.32%	5.47%	
383	Dripping Springs	2.47%	4.45%	0.00%	0.00%	0.21%	-0.23%	-0.44%	-0.10%	3.89%	6.36%	
385	Driscoll	2.34%	0.00%	0.00%	0.05%	-0.44%	0.00%	0.02%	-0.04%	-0.41%	1.93%	
384	Dublin	12.48%	0.00%	0.00%	-0.03%	0.02%	0.27%	-0.12%	-0.19%	-0.05%	12.43%	
386	Dumas	6.08%	0.00%	0.00%	-0.07%	0.00%	0.01%	0.04%	-0.53%	-0.55%	5.53%	
388	Duncanville	7.89%	0.00%	0.00%	-0.18%	0.04%	0.01%	0.04%	-0.15%	-0.24%	7.65%	
394	Eagle Lake	9.03%	0.00%	0.00%	-0.07%	-0.01%	0.08%	-0.03%	0.31%	0.28%	9.31%	
396	Eagle Pass	8.77%	0.00%	0.00%	-0.15%	0.01%	-0.01%	0.00%	-0.22%	-0.37%	8.40%	
397	Early	3.41%	0.00%	0.00%	-0.05%	-0.01%	0.04%	0.06%	0.03%	0.07%	3.48%	
399	Earth	5.53%	0.00%	0.00%	-0.04%	0.00%	-0.40%	-0.11%	0.08%	-0.47%	5.06%	

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption & Method Changes		Return on AVA	Contribution Lag/Phase In & Fully Amortized Prior Bases		Payroll Growth	Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes								
393	East Bernard	5.43%	0.00%	0.00%	0.03%	-0.36%	-0.08%	0.01%	0.34%	-0.06%	5.37%	
401	East Mountain	14.35%	0.00%	0.00%	-0.02%	0.49%	1.02%	1.49%	-5.63%	-2.65%	11.70%	
395	East Tawakoni	6.24%	0.00%	0.00%	-0.12%	0.01%	0.00%	-0.13%	-0.11%	-0.35%	5.89%	
398	Eastland	9.52%	0.00%	0.00%	-0.05%	0.01%	-0.03%	-0.28%	-0.05%	-0.40%	9.12%	
402	Ector	2.03%	0.00%	0.00%	-0.02%	0.00%	0.01%	-0.02%	0.00%	-0.03%	2.00%	
406	Eden	3.35%	0.00%	0.00%	-0.09%	0.03%	-0.07%	-0.16%	-0.20%	-0.49%	2.86%	
408	Edgewood	3.31%	0.00%	0.00%	-0.01%	-0.07%	-0.04%	-0.21%	0.05%	-0.28%	3.03%	
410	Edinburg	14.34%	0.00%	0.00%	-0.04%	-0.04%	-0.26%	0.03%	0.21%	-0.10%	14.24%	
412	Edna	11.72%	0.00%	0.00%	-0.10%	0.04%	0.20%	-0.03%	-1.02%	-0.91%	10.81%	
414	El Campo	11.10%	0.00%	0.00%	-0.11%	0.02%	0.12%	-0.01%	-0.52%	-0.50%	10.60%	
416	Eldorado	7.33%	0.00%	0.00%	-0.08%	-0.02%	-0.13%	-0.08%	0.19%	-0.12%	7.21%	
418	Electra	2.17%	0.00%	0.00%	-0.05%	0.03%	0.04%	0.03%	0.02%	0.07%	2.24%	
420	Elgin	14.27%	0.00%	0.00%	-0.02%	-0.04%	-0.21%	-0.41%	0.37%	-0.31%	13.96%	
422	Elkhart	5.76%	0.00%	0.00%	-0.09%	0.03%	-0.07%	-0.19%	-0.40%	-0.72%	5.04%	
427	Elmendorf	1.53%	0.00%	0.00%	0.01%	-0.01%	-0.01%	-0.11%	0.04%	-0.08%	1.45%	
432	Emory	4.71%	0.00%	0.00%	-0.03%	0.01%	0.00%	-0.24%	0.05%	-0.21%	4.50%	
436	Ennis	17.49%	0.00%	0.00%	-0.12%	-0.09%	-0.47%	0.06%	0.03%	-0.59%	16.90%	
439	Eules	17.80%	0.00%	0.00%	-0.18%	0.00%	-0.13%	-0.02%	0.04%	-0.29%	17.51%	
440	Eustace	9.09%	0.00%	0.00%	-0.07%	0.07%	0.22%	-0.20%	-0.14%	-0.12%	8.97%	
441	Everman	9.28%	0.00%	0.00%	-0.06%	0.03%	-0.02%	0.22%	0.11%	0.28%	9.56%	
443	Fair Oaks Ranch	12.05%	0.00%	0.00%	-0.02%	-0.03%	-0.11%	-0.02%	-0.15%	-0.33%	11.72%	
442	Fairfield	8.31%	0.00%	0.00%	-0.09%	0.08%	-0.02%	0.00%	-0.19%	-0.22%	8.09%	
445	Fairview	10.82%	0.00%	0.00%	0.00%	-0.08%	-0.12%	-0.06%	0.10%	-0.16%	10.66%	
20444	Falfurrias	3.29%	0.00%	0.00%	-0.03%	0.01%	0.01%	0.12%	-0.09%	0.02%	3.31%	
446	Falls City	9.74%	0.00%	0.00%	0.00%	-0.01%	0.12%	-0.02%	-2.20%	-2.11%	7.63%	
448	Farmers Branch	18.59%	0.00%	0.00%	-0.20%	0.04%	-0.01%	-0.10%	0.17%	-0.10%	18.49%	
450	Farmersville	8.52%	0.00%	0.00%	-0.05%	-0.02%	-0.03%	0.00%	0.15%	0.05%	8.57%	
451	Farwell	15.17%	0.00%	0.00%	-0.08%	-0.17%	-0.61%	0.13%	-0.12%	-0.85%	14.32%	
452	Fate	10.60%	0.00%	0.00%	0.01%	-0.10%	-0.05%	-0.50%	-0.06%	-0.70%	9.90%	
454	Fayetteville	1.53%	0.00%	0.00%	-0.02%	0.01%	-0.50%	0.23%	1.72%	1.44%	2.97%	
456	Ferris	5.87%	0.00%	0.00%	-0.05%	0.01%	0.03%	-0.41%	-0.14%	-0.56%	5.31%	
458	Flatonia	17.46%	0.00%	0.00%	-0.16%	-0.23%	-0.54%	0.01%	-0.88%	-1.80%	15.66%	
460	Florence	4.22%	0.00%	0.00%	-0.01%	0.00%	0.01%	0.16%	-0.13%	0.03%	4.25%	
20462	Floresville	10.69%	0.00%	0.00%	-0.03%	-0.07%	-0.33%	-0.02%	0.31%	-0.14%	10.55%	
463	Flower Mound	10.56%	0.00%	0.00%	-0.05%	-0.01%	-0.09%	0.02%	0.24%	0.11%	10.67%	
464	Floydada	10.96%	0.00%	0.00%	-0.11%	-0.06%	0.07%	0.08%	-0.85%	-0.87%	10.09%	
468	Forest Hill	13.32%	0.00%	0.00%	-0.07%	0.01%	0.05%	0.27%	-0.23%	0.03%	13.35%	
470	Forney	13.24%	0.00%	0.00%	-0.02%	-0.09%	-0.18%	0.24%	0.28%	0.23%	13.47%	
472	Fort Stockton	10.35%	0.00%	0.00%	-0.06%	0.04%	-0.01%	0.08%	-0.43%	-0.38%	9.97%	
476	Franklin	3.08%	0.00%	0.00%	-0.03%	-0.03%	0.04%	0.09%	0.09%	0.16%	3.24%	
478	Frankston	2.23%	0.00%	0.00%	-0.02%	0.01%	-0.03%	-0.10%	-0.63%	-0.77%	1.46%	
480	Fredericksburg	9.60%	0.00%	0.00%	-0.08%	-0.02%	-0.11%	-0.01%	0.21%	-0.01%	9.59%	
482	Freeport	14.25%	0.00%	0.00%	-0.06%	-0.11%	-0.35%	-0.62%	0.54%	-0.60%	13.65%	
481	Freer	7.04%	0.00%	0.00%	-0.02%	0.05%	0.16%	-0.12%	-0.06%	0.01%	7.05%	
483	Friendswood	15.74%	0.00%	0.00%	-0.09%	-0.02%	-0.11%	0.16%	0.01%	-0.05%	15.69%	
484	Friona	13.13%	0.00%	0.00%	-0.19%	0.01%	-0.19%	0.07%	-3.70%	-4.00%	9.13%	
486	Frisco	14.13%	0.00%	0.00%	-0.01%	-0.06%	-0.19%	0.01%	0.33%	0.08%	14.21%	
487	Fritch	2.56%	0.00%	0.00%	-0.07%	-0.04%	0.09%	0.74%	-0.40%	0.32%	2.88%	
488	Frost	4.15%	0.43%	0.00%	-0.12%	0.22%	0.49%	0.17%	0.24%	1.43%	5.58%	
491	Fulshear	5.48%	2.14%	0.00%	0.01%	0.05%	-0.11%	0.26%	0.10%	2.45%	7.93%	
493	Fulton	17.88%	0.00%	0.00%	-0.02%	0.01%	1.18%	-0.11%	0.21%	1.27%	19.15%	
492	Gainesville	9.58%	0.00%	0.00%	-0.10%	0.02%	0.05%	0.00%	-0.36%	-0.39%	9.19%	
494	Galena Park	13.19%	0.00%	0.00%	-0.12%	-0.21%	-0.41%	0.13%	-0.26%	-0.87%	12.32%	
498	Ganado	14.07%	0.00%	0.00%	-0.16%	0.14%	0.02%	-0.33%	-0.15%	-0.48%	13.59%	

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
499	Garden Ridge	7.84%	0.00%	0.00%	-0.01%	-0.05%	-0.11%	-0.07%	0.16%	-0.08%	7.76%
500	Garland	11.06%	0.00%	0.00%	-0.29%	0.04%	-0.01%	-0.02%	0.01%	-0.27%	10.79%
502	Garrison	13.77%	4.08%	0.00%	-0.21%	0.26%	-0.38%	0.15%	1.07%	4.97%	18.74%
503	Gary	7.10%	0.00%	0.00%	-0.03%	0.02%	0.02%	0.00%	-0.01%	0.00%	7.10%
504	Gatesville	15.49%	0.00%	0.00%	-0.08%	0.02%	-0.01%	-0.10%	-0.27%	-0.44%	15.05%
505	George West	5.97%	0.00%	0.00%	-0.02%	0.09%	0.38%	0.06%	-0.32%	0.19%	6.16%
506	Georgetown	12.41%	0.00%	0.00%	-0.04%	-0.03%	-0.19%	0.00%	0.08%	-0.18%	12.23%
510	Giddings	19.36%	0.00%	0.00%	-0.07%	0.04%	0.18%	-0.76%	0.08%	-0.53%	18.83%
512	Gilmer	13.73%	0.00%	0.00%	-0.07%	-0.01%	-0.19%	0.01%	0.19%	-0.07%	13.66%
514	Gladewater	3.31%	0.00%	0.00%	-0.06%	0.01%	-0.08%	0.00%	-0.62%	-0.75%	2.56%
516	Glen Rose	14.82%	0.00%	0.00%	-0.05%	-0.14%	-0.54%	0.00%	0.48%	-0.25%	14.57%
517	Glenn Heights	3.59%	0.00%	0.00%	-0.05%	-0.01%	0.03%	-0.08%	-0.35%	-0.46%	3.13%
518	Godley	2.23%	0.00%	0.00%	-0.01%	-0.08%	-0.01%	0.22%	0.18%	0.30%	2.53%
519	Goldsmith	4.40%	0.00%	0.00%	-0.05%	-0.05%	-0.54%	-0.19%	0.05%	-0.78%	3.62%
520	Goldthwaite	23.68%	0.00%	0.00%	-0.20%	-0.20%	-0.37%	-0.14%	-0.52%	-1.43%	22.25%
522	Goliad	2.33%	0.00%	0.00%	-0.11%	0.01%	0.15%	-0.12%	-0.07%	-0.14%	2.19%
524	Gonzales	10.69%	0.00%	0.00%	-0.06%	0.06%	0.16%	0.05%	-0.22%	-0.01%	10.68%
532	Graford	2.89%	0.00%	0.00%	0.00%	0.01%	0.01%	-0.02%	-0.01%	-0.01%	2.88%
10534	Graham	11.30%	0.00%	0.00%	-0.11%	-0.02%	0.08%	-0.02%	-0.79%	-0.86%	10.44%
536	Granbury	16.14%	0.00%	0.00%	-0.08%	0.05%	0.20%	0.00%	-0.34%	-0.17%	15.97%
540	Grand Prairie	16.12%	0.00%	0.00%	-0.13%	-0.03%	-0.16%	-0.04%	0.15%	-0.21%	15.91%
542	Grand Saline	4.74%	0.00%	0.00%	-0.09%	-0.01%	-0.03%	-0.14%	-0.24%	-0.51%	4.23%
544	Grandview	6.43%	0.00%	0.00%	-0.04%	0.05%	-0.05%	0.92%	-1.12%	-0.24%	6.19%
546	Granger	0.56%	0.00%	0.00%	-0.03%	-0.02%	0.02%	0.06%	0.06%	0.09%	0.65%
547	Granite Shoals	5.03%	0.00%	0.00%	0.00%	0.00%	-0.01%	0.00%	-0.01%	-0.02%	5.01%
548	Grapeland	4.38%	0.00%	0.00%	-0.05%	0.08%	0.05%	-0.09%	-0.65%	-0.66%	3.72%
550	Grapevine	18.98%	0.00%	0.00%	-0.12%	0.00%	-0.10%	-0.06%	-0.12%	-0.40%	18.58%
552	Greenville	11.38%	0.00%	0.00%	-0.26%	0.08%	0.02%	-0.08%	-0.34%	-0.58%	10.80%
551	Gregory	4.32%	0.00%	0.00%	-0.02%	0.01%	0.09%	0.38%	-0.69%	-0.23%	4.09%
553	Grey Forest	15.05%	0.00%	0.00%	-0.09%	-0.02%	0.12%	-0.23%	0.55%	0.33%	15.38%
556	Groesbeck	2.51%	0.00%	0.00%	-0.02%	0.01%	0.10%	0.00%	-0.10%	-0.01%	2.50%
558	Groom	3.22%	0.00%	0.00%	-0.05%	-0.01%	0.01%	0.00%	-0.27%	-0.32%	2.90%
559	Groves	9.57%	0.00%	0.00%	-0.32%	0.01%	0.00%	0.02%	0.04%	-0.25%	9.32%
560	Groveton	1.87%	0.00%	0.00%	-0.01%	0.00%	0.01%	0.15%	-0.03%	0.12%	1.99%
562	Gruver	11.19%	0.00%	0.00%	-0.24%	0.41%	-0.12%	0.01%	1.69%	1.75%	12.94%
563	Gun Barrel City	5.92%	0.45%	0.00%	-0.04%	0.02%	-0.02%	0.05%	-1.28%	-0.82%	5.10%
564	Gunter	3.10%	0.00%	0.00%	-0.01%	-0.15%	0.79%	-0.01%	0.24%	0.86%	3.96%
568	Hale Center	1.91%	0.00%	0.00%	-0.01%	0.01%	0.00%	0.02%	0.03%	0.05%	1.96%
570	Hallettsville	12.59%	0.00%	0.00%	-0.15%	-0.02%	-0.02%	-0.11%	-0.52%	-0.82%	11.77%
572	Hallsville	3.00%	0.00%	0.00%	-0.01%	-0.02%	-0.11%	0.14%	0.02%	0.02%	3.02%
574	Haltom City	18.98%	0.00%	0.00%	-0.12%	0.03%	0.06%	0.01%	-0.12%	-0.14%	18.84%
576	Hamilton	18.68%	0.00%	0.00%	-0.10%	0.05%	-0.06%	-0.02%	-0.67%	-0.80%	17.88%
578	Hamlin	13.11%	0.00%	0.00%	-0.18%	0.05%	-0.21%	0.11%	1.05%	0.82%	13.93%
580	Happy	19.39%	0.00%	0.00%	-0.13%	0.05%	-0.10%	-0.02%	-10.86%	-11.06%	8.33%
581	Harker Heights	14.91%	0.00%	0.00%	-0.05%	0.00%	-0.01%	-0.06%	0.10%	-0.02%	14.89%
10582	Harlingen	11.40%	0.00%	0.00%	-0.45%	0.15%	0.49%	-0.05%	-1.05%	-0.91%	10.49%
20582	Harlingen Waterworks Sys	1.90%	0.00%	0.00%	-0.11%	0.01%	0.00%	0.00%	0.07%	-0.03%	1.87%
583	Hart	4.02%	0.00%	0.00%	-0.03%	-0.21%	-0.14%	0.01%	0.28%	-0.09%	3.93%
586	Haskell	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
587	Haslet	8.59%	0.00%	0.00%	-0.02%	-0.05%	0.01%	0.13%	0.13%	0.20%	8.79%
588	Hawkins	15.26%	0.00%	0.00%	-0.17%	0.01%	0.19%	-0.10%	-0.40%	-0.47%	14.79%
585	Hays	5.46%	0.00%	0.00%	-0.26%	0.06%	-1.42%	-0.81%	0.17%	-2.26%	3.20%
590	Hearne	15.36%	0.00%	0.00%	-0.05%	-0.01%	-0.02%	0.30%	-0.50%	-0.28%	15.08%
591	Heath	11.17%	0.00%	0.00%	-0.04%	-0.02%	-0.04%	0.17%	-0.10%	-0.03%	11.14%

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
592	Hedley	4.16%	0.00%	0.00%	-0.08%	-0.09%	0.19%	-0.10%	0.04%	-0.04%	4.12%
595	Hedwig Village	7.27%	0.00%	0.00%	-0.08%	-0.02%	-0.04%	0.26%	-0.17%	-0.05%	7.22%
593	Helotes	6.80%	0.00%	0.00%	-0.01%	-0.02%	-0.12%	-0.09%	0.01%	-0.23%	6.57%
594	Hemphill	7.99%	0.00%	0.00%	-0.05%	-0.15%	0.06%	-0.05%	-0.02%	-0.21%	7.78%
596	Hempstead	8.00%	0.00%	0.00%	-0.05%	-0.02%	-0.08%	-0.01%	0.06%	-0.10%	7.90%
598	Henderson	16.16%	0.00%	0.00%	-0.10%	0.05%	0.04%	-0.03%	-0.97%	-1.01%	15.15%
600	Henrietta	14.64%	0.00%	0.00%	-0.07%	0.03%	0.14%	-0.19%	0.25%	0.16%	14.80%
602	Hereford	10.61%	0.00%	0.00%	-0.08%	-0.03%	-0.08%	0.08%	0.06%	-0.05%	10.56%
605	Hewitt	15.93%	0.00%	0.00%	-0.06%	0.01%	-0.01%	-0.01%	-0.10%	-0.17%	15.76%
609	Hickory Creek	11.92%	0.00%	0.00%	-0.02%	0.05%	0.03%	0.30%	-0.21%	0.15%	12.07%
606	Hico	5.38%	0.00%	0.00%	-0.05%	-0.03%	0.01%	-0.52%	0.04%	-0.55%	4.83%
607	Hidalgo	12.56%	0.00%	0.00%	-0.04%	0.00%	-0.06%	0.03%	0.24%	0.17%	12.73%
608	Higgins	3.83%	0.00%	0.00%	-0.06%	0.01%	0.00%	-0.19%	-0.13%	-0.37%	3.46%
610	Highland Park	5.54%	0.00%	0.00%	-0.16%	0.00%	-0.02%	0.04%	0.01%	-0.13%	5.41%
611	Highland Village	13.55%	0.00%	0.00%	-0.05%	0.02%	0.01%	-0.09%	-0.09%	-0.20%	13.35%
613	Hill Country Village	3.72%	0.00%	0.00%	-0.04%	-0.03%	0.03%	-0.03%	0.06%	-0.01%	3.71%
612	Hillsboro	11.46%	0.00%	0.00%	-0.09%	0.02%	-0.04%	-0.08%	-0.22%	-0.41%	11.05%
619	Hilshire Village	11.65%	4.22%	0.00%	0.14%	-0.50%	-0.98%	-0.91%	-0.63%	1.34%	12.99%
614	Hitchcock	4.13%	0.00%	0.00%	-0.03%	-0.06%	-0.03%	0.15%	0.07%	0.10%	4.23%
615	Holland	8.11%	0.00%	0.00%	-0.03%	0.04%	0.08%	-0.03%	-0.17%	-0.11%	8.00%
616	Holliday	2.81%	0.00%	0.00%	-0.02%	0.01%	0.00%	-0.09%	0.01%	-0.09%	2.72%
617	Hollywood Park	8.98%	0.00%	0.00%	-0.05%	-0.05%	-0.17%	0.14%	-0.05%	-0.18%	8.80%
618	Hondo	8.98%	0.00%	0.00%	-0.08%	-0.04%	-0.09%	-0.13%	-0.26%	-0.60%	8.38%
620	Honey Grove	8.44%	0.00%	0.00%	-0.09%	-0.10%	-0.13%	-0.27%	-0.10%	-0.69%	7.75%
622	Hooks	14.19%	0.00%	0.00%	-0.03%	0.18%	0.24%	0.24%	-1.33%	-0.70%	13.49%
626	Howe	5.77%	0.00%	0.00%	-0.07%	-0.15%	0.00%	-0.03%	-0.10%	-0.35%	5.42%
627	Hubbard	0.59%	0.00%	0.00%	-0.02%	-0.01%	-0.03%	0.09%	0.17%	0.20%	0.79%
628	Hudson	4.44%	0.00%	0.00%	-0.01%	-0.04%	-0.02%	0.02%	-0.03%	-0.08%	4.36%
629	Hudson Oaks	12.73%	0.00%	0.00%	-0.03%	-0.13%	-0.09%	0.08%	-0.60%	-0.77%	11.96%
630	Hughes Springs	14.70%	0.00%	0.00%	-0.15%	-0.06%	0.15%	0.13%	-5.69%	-5.62%	9.08%
632	Humble	13.59%	0.00%	0.00%	-0.10%	-0.06%	-0.14%	0.00%	0.14%	-0.16%	13.43%
633	Hunters Creek Village	16.03%	0.00%	0.00%	-0.04%	-0.33%	-0.33%	-0.27%	1.17%	0.20%	16.23%
634	Huntington	14.29%	0.00%	0.00%	-0.07%	-0.02%	-0.08%	-0.19%	0.19%	-0.17%	14.12%
636	Huntsville	18.66%	0.00%	0.00%	-0.13%	0.00%	0.04%	0.16%	-0.36%	-0.29%	18.37%
637	Hurst	10.75%	0.10%	0.00%	-0.14%	0.04%	0.01%	-0.04%	0.13%	0.10%	10.85%
638	Hutchins	8.38%	0.00%	0.00%	-0.03%	-0.11%	-0.18%	-0.04%	0.68%	0.32%	8.70%
640	Hutto	12.97%	0.00%	0.00%	-0.01%	-0.09%	-0.02%	0.45%	-1.21%	-0.88%	12.09%
641	Huxley	1.48%	0.00%	0.00%	-0.07%	0.02%	-0.01%	0.03%	-0.19%	-0.22%	1.26%
642	Idalou	4.45%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	-0.11%	-0.10%	4.35%
643	Ingleside	11.05%	0.00%	0.00%	-0.06%	0.01%	-0.01%	-1.15%	0.03%	-1.18%	9.87%
646	Ingram	5.67%	0.00%	0.00%	-0.04%	-0.04%	-0.01%	0.16%	0.00%	0.07%	5.74%
647	Iowa Colony	22.49%	0.00%	0.00%	0.13%	-1.21%	-1.65%	-0.05%	-0.40%	-3.18%	19.31%
644	Iowa Park	15.13%	0.00%	0.00%	-0.14%	0.10%	0.34%	-0.09%	-0.65%	-0.44%	14.69%
645	Iraan	16.91%	0.00%	0.00%	-0.13%	0.02%	-0.08%	0.22%	0.06%	0.09%	17.00%
648	Irving	14.50%	0.00%	0.00%	-0.15%	0.02%	-0.01%	0.06%	-0.08%	-0.16%	14.34%
650	Italy	2.59%	0.00%	0.00%	-0.02%	0.02%	0.17%	0.41%	-0.08%	0.50%	3.09%
652	Itasca	10.67%	0.00%	0.00%	-0.05%	-0.08%	0.00%	-0.60%	0.43%	-0.30%	10.37%
654	Jacinto City	7.57%	0.00%	0.00%	-0.05%	-0.06%	0.08%	0.03%	0.21%	0.21%	7.78%
656	Jacksboro	14.03%	0.00%	0.00%	-0.06%	0.01%	-0.03%	-0.23%	0.53%	0.22%	14.25%
658	Jacksonville	11.08%	0.00%	0.00%	-0.11%	-0.02%	-0.09%	0.01%	-0.11%	-0.32%	10.76%
660	Jasper	9.52%	0.00%	0.00%	-0.17%	-0.04%	-0.14%	-0.06%	-0.17%	-0.58%	8.94%
664	Jefferson	1.69%	0.00%	0.00%	-0.05%	-0.42%	0.02%	0.06%	-0.08%	-0.47%	1.22%
665	Jersey Village	15.04%	0.00%	0.00%	-0.07%	-0.01%	-0.05%	-0.35%	0.17%	-0.31%	14.73%
666	Jewett	9.11%	0.00%	0.00%	-0.12%	-0.03%	-0.12%	0.01%	0.47%	0.21%	9.32%

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
668	Joaquin	5.26%	0.00%	0.00%	-0.03%	0.05%	-0.17%	-0.31%	-0.13%	-0.59%	4.67%
670	Johnson City	10.07%	0.00%	0.00%	-0.03%	-0.02%	-0.08%	-0.06%	0.21%	0.02%	10.09%
673	Jones Creek	7.38%	0.00%	0.00%	-0.08%	0.10%	0.04%	-1.03%	0.03%	-0.94%	6.44%
675	Jonestown	6.13%	1.02%	0.00%	-0.01%	0.07%	0.03%	-0.09%	-0.15%	0.87%	7.00%
677	Josephine	6.67%	0.00%	0.00%	0.02%	-0.28%	-0.05%	0.03%	-0.04%	-0.32%	6.35%
671	Joshua	5.94%	0.00%	0.00%	-0.02%	0.05%	0.00%	-0.04%	0.04%	0.03%	5.97%
672	Jourdanton	6.21%	0.00%	0.00%	-0.03%	-0.02%	-0.08%	0.10%	-0.14%	-0.17%	6.04%
674	Junction	14.44%	0.00%	0.00%	-0.12%	-0.07%	-0.02%	-0.05%	0.53%	0.27%	14.71%
676	Justin	2.82%	6.30%	0.00%	-0.03%	0.38%	-0.05%	-0.29%	-1.47%	4.84%	7.66%
678	Karnes City	5.20%	0.00%	0.00%	-0.03%	0.02%	0.04%	0.04%	-0.04%	0.03%	5.23%
680	Katy	14.28%	0.00%	0.00%	-0.06%	-0.07%	-0.15%	-0.01%	0.06%	-0.23%	14.05%
682	Kaufman	9.14%	0.19%	0.00%	-0.08%	0.01%	0.01%	-0.09%	0.12%	0.16%	9.30%
683	Keene	15.02%	-3.41%	0.00%	-0.10%	-0.08%	0.39%	0.89%	-0.69%	-3.00%	12.02%
681	Keller	15.51%	0.00%	0.00%	-0.08%	0.03%	0.05%	0.05%	-0.11%	-0.06%	15.45%
685	Kemah	7.12%	0.00%	0.00%	-0.03%	0.01%	-0.02%	-0.12%	0.08%	-0.08%	7.04%
684	Kemp	4.61%	0.00%	0.00%	-0.03%	0.04%	0.31%	0.09%	0.02%	0.43%	5.04%
686	Kenedy	4.46%	0.00%	0.00%	-0.01%	-0.03%	-0.03%	0.08%	-0.24%	-0.23%	4.23%
688	Kennedale	13.87%	0.00%	0.00%	-0.04%	-0.01%	-0.08%	0.18%	-0.07%	-0.02%	13.85%
690	Kerens	8.28%	0.00%	0.00%	0.03%	0.02%	-0.06%	0.03%	0.02%	0.04%	8.32%
692	Kermit	15.55%	0.00%	0.00%	-0.08%	0.06%	0.26%	0.12%	0.25%	0.61%	16.16%
10694	Kerrville	9.94%	0.00%	0.00%	-0.10%	0.02%	-0.02%	0.07%	0.14%	0.11%	10.05%
20694	Kerrville PUB	12.27%	0.00%	0.00%	-0.13%	0.00%	0.14%	-0.18%	-0.06%	-0.23%	12.04%
10696	Kilgore	15.05%	0.00%	0.00%	-0.11%	0.05%	0.16%	-0.09%	-0.85%	-0.84%	14.21%
698	Killeen	9.78%	0.00%	0.00%	-0.09%	0.07%	0.30%	0.06%	-0.21%	0.13%	9.91%
700	Kingsville	8.79%	0.00%	0.00%	-0.11%	0.00%	0.06%	0.01%	-0.07%	-0.11%	8.68%
701	Kirby	14.43%	0.00%	0.00%	-0.06%	0.01%	-0.05%	0.30%	0.02%	0.22%	14.65%
702	Kirbyville	5.51%	0.00%	0.00%	-0.06%	0.00%	0.06%	0.12%	-0.17%	-0.05%	5.46%
704	Knox City	2.76%	0.00%	0.00%	-0.04%	0.04%	0.03%	-0.07%	-0.14%	-0.18%	2.58%
708	Kountze	1.43%	0.00%	0.00%	-0.01%	0.00%	0.00%	-0.06%	-0.03%	-0.10%	1.33%
709	Kress	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
699	Krugerville	8.45%	0.00%	0.00%	0.02%	0.02%	0.06%	-0.05%	0.12%	0.17%	8.62%
707	Krum	5.76%	0.00%	0.00%	0.00%	-0.04%	0.00%	0.03%	-0.02%	-0.03%	5.73%
710	Kyle	12.41%	0.00%	0.00%	-0.01%	-0.07%	-0.16%	0.35%	-0.03%	0.08%	12.49%
725	La Coste	1.40%	0.00%	0.00%	-0.01%	-0.01%	0.07%	0.01%	0.02%	0.08%	1.48%
714	La Feria	10.76%	0.00%	0.00%	-0.10%	0.16%	0.15%	0.33%	-0.25%	0.29%	11.05%
716	La Grange	15.27%	0.00%	0.00%	-0.12%	-0.01%	0.23%	-0.12%	-0.42%	-0.44%	14.83%
723	La Grulla	5.58%	0.00%	0.00%	-0.02%	0.06%	0.00%	0.08%	-0.06%	0.06%	5.64%
732	La Joya	6.05%	0.00%	0.00%	0.00%	-0.01%	0.09%	0.01%	0.07%	0.16%	6.21%
721	La Marque	14.69%	0.00%	0.00%	-0.08%	-0.14%	-0.22%	0.30%	0.24%	0.10%	14.79%
728	La Porte	16.11%	0.00%	0.00%	-0.18%	0.01%	0.01%	-0.17%	-0.25%	-0.58%	15.53%
731	La Vernia	3.04%	0.00%	0.00%	-0.01%	0.03%	0.08%	0.25%	-0.11%	0.24%	3.28%
711	Lacy-Lakeview	14.44%	0.00%	0.00%	-0.03%	-0.02%	0.02%	0.03%	-0.08%	-0.08%	14.36%
712	Ladonia	3.28%	0.00%	0.00%	-0.08%	0.07%	-0.52%	2.32%	-0.53%	1.26%	4.54%
713	Lago Vista	7.87%	0.00%	0.00%	-0.03%	-0.02%	-0.04%	-0.21%	0.20%	-0.10%	7.77%
705	Laguna Vista	5.19%	0.00%	0.00%	-0.01%	0.02%	0.00%	0.04%	-0.69%	-0.64%	4.55%
717	Lake Dallas	13.46%	0.00%	0.00%	-0.10%	0.07%	0.24%	-0.44%	-0.69%	-0.92%	12.54%
718	Lake Jackson	12.14%	0.00%	0.00%	-0.12%	-0.04%	-0.20%	0.04%	0.16%	-0.16%	11.98%
719	Lake Worth	13.35%	0.00%	0.00%	-0.05%	-0.04%	0.03%	-0.43%	0.43%	-0.06%	13.29%
727	Lakeport	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
715	Lakeside	7.85%	0.00%	0.00%	-0.02%	0.04%	0.01%	0.33%	-0.08%	0.28%	8.13%
729	Lakeside City	2.34%	0.00%	0.00%	-0.03%	0.05%	-0.04%	0.00%	0.15%	0.13%	2.47%
720	Lakeway	13.74%	0.00%	0.00%	-0.03%	-0.07%	-0.14%	0.04%	0.38%	0.18%	13.92%
722	Lamesa	4.74%	0.00%	0.00%	-0.15%	0.05%	-0.01%	0.04%	-0.22%	-0.29%	4.45%
724	Lampasas	14.82%	0.00%	0.00%	-0.07%	0.01%	0.00%	-0.03%	0.51%	0.42%	15.24%

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
726	Lancaster	13.46%	0.00%	0.00%	-0.09%	-0.04%	-0.03%	-0.03%	0.12%	-0.07%	13.39%
730	Laredo	20.87%	0.00%	0.00%	-0.09%	0.02%	0.12%	-0.04%	-0.10%	-0.09%	20.78%
733	Lavon	5.62%	0.00%	0.00%	-0.01%	-0.01%	-0.01%	-0.20%	-0.11%	-0.34%	5.28%
736	League City	15.11%	0.00%	0.00%	-0.06%	-0.02%	-0.03%	-0.14%	0.19%	-0.06%	15.05%
737	Leander	12.44%	0.00%	0.00%	0.00%	-0.10%	-0.30%	-0.02%	0.21%	-0.21%	12.23%
735	Lefors	3.59%	0.00%	0.00%	0.04%	-0.29%	-0.02%	0.44%	0.18%	0.35%	3.94%
739	Leon Valley	13.22%	0.00%	0.00%	-0.23%	-0.08%	-0.26%	0.30%	0.30%	0.03%	13.25%
738	Leonard	2.26%	0.00%	0.00%	-0.02%	0.03%	0.02%	-0.37%	0.01%	-0.33%	1.93%
740	Levelland	12.33%	0.00%	0.00%	-0.16%	0.05%	0.10%	0.25%	-0.88%	-0.64%	11.69%
742	Lewisville	16.29%	0.00%	0.00%	-0.09%	-0.02%	-0.09%	0.06%	0.13%	-0.01%	16.28%
744	Lexington	8.41%	0.00%	0.00%	-0.08%	0.09%	0.29%	-0.08%	-0.08%	0.14%	8.55%
746	Liberty	18.74%	0.00%	0.00%	-0.03%	-0.04%	-0.30%	0.02%	-0.56%	-0.91%	17.83%
745	Liberty Hill	7.06%	0.00%	0.00%	0.02%	-0.23%	-0.02%	0.01%	0.03%	-0.19%	6.87%
748	Lindale	14.22%	0.00%	0.00%	-0.02%	-0.01%	-0.14%	-0.08%	0.64%	0.39%	14.61%
750	Linden	1.45%	0.00%	0.00%	-0.02%	0.01%	-0.01%	-0.12%	-0.08%	-0.22%	1.23%
755	Lipan	2.48%	0.00%	0.00%	-0.01%	-0.03%	-0.02%	0.00%	0.04%	-0.02%	2.46%
751	Little Elm	13.41%	0.00%	0.00%	-0.01%	-0.08%	-0.14%	-0.06%	0.06%	-0.23%	13.18%
752	Littlefield	9.69%	0.00%	0.00%	-0.09%	0.03%	-0.08%	0.05%	-0.35%	-0.44%	9.25%
753	Live Oak	17.77%	0.00%	0.00%	-0.08%	-0.08%	0.00%	-0.05%	0.39%	0.18%	17.95%
757	Liverpool	2.65%	0.00%	0.00%	0.02%	-0.06%	-0.07%	-0.07%	0.21%	0.03%	2.68%
754	Livingston	16.48%	0.00%	0.00%	-0.17%	-0.04%	-0.08%	0.06%	-1.44%	-1.67%	14.81%
756	Llano	14.59%	0.00%	0.00%	-0.04%	-0.08%	-0.27%	-0.08%	0.55%	0.08%	14.67%
758	Lockhart	13.21%	0.00%	0.00%	-0.12%	0.04%	0.04%	-0.05%	-0.12%	-0.21%	13.00%
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	2.28%	0.00%	0.00%	-0.07%	-0.03%	0.05%	0.06%	-0.16%	-0.15%	2.13%
766	Longview	11.15%	0.00%	0.00%	-0.12%	0.08%	0.01%	-0.08%	-0.29%	-0.40%	10.75%
768	Loraine	2.51%	0.00%	0.00%	-0.01%	0.01%	-0.04%	0.23%	-0.07%	0.12%	2.63%
769	Lorena	6.80%	0.00%	0.00%	-0.03%	-0.01%	0.00%	-0.07%	-0.02%	-0.13%	6.67%
770	Lorenzo	3.02%	0.00%	0.00%	-0.05%	-0.03%	0.50%	-0.05%	-1.35%	-0.98%	2.04%
771	Los Fresnos	1.51%	1.60%	0.00%	-0.03%	0.10%	0.00%	0.09%	-0.06%	1.70%	3.21%
773	Lott	1.53%	0.00%	0.00%	-0.01%	-0.01%	0.00%	-0.24%	-0.07%	-0.33%	1.20%
774	Lovelady	6.20%	2.46%	0.00%	0.02%	0.31%	-0.04%	-0.04%	0.04%	2.75%	8.95%
778	Lubbock	18.05%	0.00%	0.00%	-0.16%	0.02%	-0.06%	-0.05%	-0.09%	-0.34%	17.71%
779	Lucas	13.43%	0.00%	0.00%	0.00%	-0.12%	-0.23%	-0.39%	0.14%	-0.60%	12.83%
782	Lufkin	16.64%	0.00%	0.00%	-0.12%	0.03%	0.03%	-0.20%	-0.04%	-0.30%	16.34%
784	Luling	9.37%	0.00%	0.00%	-0.06%	0.02%	0.14%	0.07%	-0.24%	-0.07%	9.30%
785	Lumberton	16.90%	0.00%	0.00%	-0.08%	-0.04%	-0.08%	0.13%	-0.24%	-0.31%	16.59%
786	Lyford	4.62%	0.00%	0.00%	-0.02%	-0.05%	-0.15%	0.05%	-0.24%	-0.41%	4.21%
787	Lytle	9.62%	0.00%	0.00%	-0.03%	-0.02%	-0.14%	0.03%	0.28%	0.12%	9.74%
790	Madisonville	9.40%	0.00%	0.00%	-0.05%	0.02%	0.02%	-0.07%	-0.15%	-0.23%	9.17%
791	Magnolia	1.82%	0.00%	0.00%	-0.01%	0.00%	0.02%	-0.02%	-0.14%	-0.15%	1.67%
792	Malakoff	7.15%	0.00%	0.00%	-0.01%	0.02%	-0.06%	0.12%	0.24%	0.31%	7.46%
796	Manor	4.27%	0.00%	0.00%	0.00%	-0.04%	-0.04%	-0.09%	0.14%	-0.03%	4.24%
798	Mansfield	14.94%	0.00%	0.00%	-0.06%	-0.02%	-0.06%	-0.05%	0.20%	0.01%	14.95%
799	Manvel	12.44%	0.00%	0.00%	0.03%	-0.20%	-0.66%	0.02%	-0.03%	-0.84%	11.60%
800	Marble Falls	5.73%	0.00%	0.00%	-0.08%	-0.01%	0.00%	0.15%	-0.01%	0.05%	5.78%
802	Marfa	2.21%	0.00%	0.00%	-0.05%	-0.02%	0.24%	0.21%	0.10%	0.48%	2.69%
804	Marion	5.75%	0.00%	0.00%	-0.04%	0.02%	0.00%	-0.43%	-0.10%	-0.55%	5.20%
806	Marlin	9.40%	0.00%	0.00%	-0.07%	0.00%	0.01%	0.02%	-0.45%	-0.49%	8.91%
810	Marshall	16.84%	0.00%	0.00%	-0.16%	0.06%	0.09%	0.01%	-0.67%	-0.67%	16.17%
812	Mart	1.68%	0.00%	0.00%	-0.07%	0.01%	0.26%	0.01%	-0.26%	-0.05%	1.63%
813	Martindale	13.01%	0.00%	0.00%	0.00%	0.23%	-0.52%	0.09%	0.52%	0.32%	13.33%
814	Mason	6.84%	0.00%	0.00%	-0.07%	0.04%	0.06%	0.06%	-0.03%	0.06%	6.90%
816	Matador	6.80%	0.00%	0.00%	-0.02%	0.03%	-0.12%	-0.48%	0.17%	-0.42%	6.38%

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2019 Rates
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818	Mathis	4.56%	0.00%	0.00%	-0.03%	0.00%	0.03%	0.16%	-0.41%	-0.25%	4.31%
820	Maud	3.62%	0.00%	0.00%	0.01%	-0.03%	-0.04%	-0.04%	0.10%	0.00%	3.62%
822	Maypearl	2.22%	0.00%	0.00%	-0.03%	0.05%	0.02%	0.38%	0.06%	0.48%	2.70%
824	McAllen	7.95%	0.00%	0.00%	-0.07%	0.02%	-0.01%	-0.01%	-0.12%	-0.19%	7.76%
826	McCamey	1.45%	0.00%	0.00%	-0.05%	-0.08%	0.02%	-0.01%	0.31%	0.19%	1.64%
828	McGregor	10.36%	0.00%	0.00%	-0.04%	-0.04%	-0.05%	0.04%	-0.40%	-0.49%	9.87%
830	McKinney	15.36%	0.00%	0.00%	-0.04%	-0.05%	-0.29%	-0.11%	0.20%	-0.29%	15.07%
832	McLean	2.07%	0.20%	0.00%	-0.05%	0.04%	-0.01%	0.02%	-0.09%	0.11%	2.18%
833	McLendon-Chisholm	9.48%	0.00%	0.00%	0.06%	-0.17%	-0.32%	-0.64%	0.12%	-0.95%	8.53%
834	Meadow	4.56%	0.00%	0.00%	0.03%	-0.05%	-0.18%	0.00%	0.20%	0.00%	4.56%
831	Meadowlakes	2.34%	0.00%	0.00%	0.00%	0.02%	-0.01%	0.10%	-0.04%	0.07%	2.41%
835	Meadows Place	8.18%	0.72%	0.00%	-0.09%	0.02%	-0.02%	-0.12%	0.12%	0.63%	8.81%
837	Melissa	7.94%	5.65%	0.00%	-0.01%	0.34%	-0.10%	-0.48%	-0.24%	5.16%	13.10%
1501	Memorial Villages PD	11.08%	0.00%	0.00%	-0.09%	0.03%	0.02%	-0.12%	0.11%	-0.05%	11.03%
840	Memphis	3.88%	0.00%	0.00%	-0.10%	-0.02%	-0.02%	0.03%	-0.25%	-0.36%	3.52%
842	Menard	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
844	Mercedes	18.60%	0.00%	0.00%	-0.09%	0.06%	0.20%	0.19%	-0.84%	-0.48%	18.12%
846	Meridian	3.34%	0.00%	0.00%	-0.03%	0.02%	-0.05%	0.24%	-0.36%	-0.18%	3.16%
848	Merkel	13.66%	0.00%	0.00%	-0.06%	0.15%	0.38%	0.21%	-2.65%	-1.97%	11.69%
852	Mertzson	11.94%	0.00%	0.00%	-0.05%	0.19%	1.29%	-0.17%	0.01%	1.27%	13.21%
854	Mesquite	12.53%	0.56%	0.00%	-0.36%	0.16%	-0.02%	-0.01%	-0.17%	0.16%	12.69%
856	Mexia	12.40%	0.00%	0.00%	-0.06%	0.01%	0.01%	-0.08%	0.01%	-0.11%	12.29%
860	Midland	14.36%	0.00%	0.00%	-0.17%	0.01%	0.17%	0.05%	-0.21%	-0.15%	14.21%
862	Midlothian	14.53%	0.00%	0.00%	-0.03%	-0.04%	-0.16%	-0.02%	0.01%	-0.24%	14.29%
863	Milano	7.59%	0.00%	0.00%	-0.01%	0.79%	2.66%	0.00%	-0.26%	3.18%	10.77%
864	Miles	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
865	Milford	11.15%	0.00%	0.00%	-0.25%	-0.30%	-2.84%	-0.03%	1.43%	-1.99%	9.16%
868	Mineola	4.27%	0.00%	0.00%	-0.07%	0.00%	-0.01%	-0.07%	0.06%	-0.09%	4.18%
870	Mineral Wells	8.72%	0.00%	0.00%	-0.12%	-0.02%	-0.03%	0.28%	0.00%	0.11%	8.83%
874	Mission	8.53%	0.00%	0.00%	-0.05%	0.01%	-0.03%	-0.03%	-0.01%	-0.11%	8.42%
875	Missouri City	7.71%	0.79%	0.00%	-0.09%	-0.12%	-0.13%	0.05%	-0.05%	0.45%	8.16%
876	Monahans	8.09%	0.00%	0.00%	-0.08%	0.01%	0.06%	0.02%	-0.44%	-0.43%	7.66%
887	Mont Belvieu	16.04%	0.00%	0.00%	-0.05%	-0.08%	-0.42%	0.49%	-0.14%	-0.20%	15.84%
877	Montgomery	6.10%	0.00%	0.00%	0.00%	-0.02%	0.03%	0.04%	-0.02%	0.03%	6.13%
878	Moody	3.28%	0.00%	0.00%	-0.05%	0.04%	0.05%	0.09%	0.01%	0.14%	3.42%
883	Morgan's Point	9.89%	0.00%	0.00%	-0.13%	-0.04%	0.00%	0.04%	-0.53%	-0.66%	9.23%
882	Morgan's Point Resort	12.55%	0.00%	0.00%	-0.03%	-0.06%	-0.12%	-0.23%	0.06%	-0.38%	12.17%
884	Morton	4.89%	0.00%	0.00%	-0.12%	0.02%	-0.04%	0.00%	-0.44%	-0.58%	4.31%
886	Moulton	6.33%	0.00%	0.00%	-0.17%	-0.06%	-0.02%	-0.78%	-0.15%	-1.18%	5.15%
890	Mount Enterprise	2.89%	0.00%	0.00%	-0.13%	0.09%	0.02%	-0.33%	-0.63%	-0.98%	1.91%
892	Mt. Pleasant	15.24%	0.00%	0.00%	-0.07%	-0.07%	-0.20%	0.15%	0.04%	-0.15%	15.09%
894	Mt. Vernon	11.90%	0.00%	0.00%	-0.08%	0.05%	0.03%	-0.13%	-0.56%	-0.69%	11.21%
896	Muenster	1.30%	0.00%	0.00%	-0.09%	0.01%	-0.12%	-0.01%	0.33%	0.12%	1.42%
898	Muleshoe	16.83%	0.00%	0.00%	-0.13%	0.08%	-0.10%	0.13%	1.03%	1.01%	17.84%
901	Munday	3.94%	0.00%	0.00%	0.01%	-0.26%	-0.06%	-0.12%	0.06%	-0.37%	3.57%
903	Murphy	13.96%	0.00%	0.00%	-0.02%	-0.02%	-0.03%	0.27%	-0.05%	0.15%	14.11%
10904	Nacogdoches	14.79%	0.00%	0.00%	-0.12%	0.02%	0.12%	-0.01%	0.19%	0.20%	14.99%
906	Naples	2.17%	0.00%	0.00%	-0.04%	-0.01%	0.11%	-0.14%	-0.16%	-0.24%	1.93%
907	Nash	17.97%	0.00%	0.00%	0.00%	-0.07%	-0.27%	-0.22%	0.22%	-0.34%	17.63%
905	Nassau Bay	16.07%	0.00%	0.00%	-0.02%	-0.14%	-0.12%	-0.04%	-0.09%	-0.41%	15.66%
909	Natalia	3.00%	0.00%	0.00%	-0.01%	0.02%	0.05%	0.01%	0.06%	0.13%	3.13%
908	Navasota	8.45%	0.00%	0.00%	-0.13%	0.12%	0.28%	0.18%	-0.89%	-0.44%	8.01%
910	Nederland	6.44%	0.00%	0.00%	-0.18%	-0.02%	0.05%	0.02%	0.04%	-0.09%	6.35%
912	Needville	4.12%	0.00%	0.00%	-0.08%	0.00%	-0.02%	0.12%	0.05%	0.07%	4.19%

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
914	New Boston	2.01%	0.00%	0.00%	-0.08%	-0.02%	0.00%	-0.04%	-0.24%	-0.38%	1.63%
10916	New Braunfels	16.83%	0.00%	0.00%	-0.05%	-0.04%	-0.06%	0.03%	0.25%	0.13%	16.96%
20916	New Braunfels Utilities	12.23%	5.53%	0.00%	-0.09%	0.23%	-0.58%	0.04%	0.06%	5.19%	17.42%
915	New Deal	0.39%	0.00%	0.00%	-0.03%	0.01%	0.06%	0.01%	0.10%	0.15%	0.54%
923	New Fairview	9.93%	0.00%	0.00%	0.00%	0.27%	-0.43%	0.00%	0.65%	0.49%	10.42%
918	New London	5.71%	0.00%	0.00%	-0.10%	0.11%	0.01%	-0.04%	-1.82%	-1.84%	3.87%
919	New Summerfield	9.30%	0.00%	0.00%	0.01%	-0.07%	-0.10%	0.46%	-0.06%	0.24%	9.54%
917	New Waverly	5.46%	0.00%	0.00%	-0.12%	0.06%	0.00%	0.03%	0.71%	0.68%	6.14%
913	Newark	2.71%	0.00%	0.00%	0.02%	0.03%	0.10%	0.32%	-0.03%	0.44%	3.15%
920	Newton	20.58%	0.00%	0.00%	-0.11%	0.03%	0.18%	-0.13%	-0.04%	-0.07%	20.51%
922	Nixon	1.09%	0.00%	0.00%	-0.02%	0.00%	-0.04%	0.08%	-0.41%	-0.39%	0.70%
924	Nocona	9.50%	0.00%	0.00%	-0.06%	0.05%	0.33%	0.10%	-0.09%	0.33%	9.83%
925	Nolanville	2.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.08%	-0.05%	0.03%	2.32%
928	Normangee	2.80%	0.00%	0.00%	-0.04%	0.04%	-0.81%	0.56%	-0.26%	-0.51%	2.29%
931	North Richland Hills	16.12%	0.00%	0.00%	-0.15%	0.03%	0.07%	0.02%	0.06%	0.03%	16.15%
930	Northlake	9.87%	0.64%	0.00%	0.01%	-0.01%	-0.12%	0.05%	0.06%	0.63%	10.50%
935	O'Donnell	6.94%	0.00%	0.00%	-0.09%	-0.13%	-0.13%	0.03%	0.41%	0.09%	7.03%
936	Oak Point	7.71%	0.00%	0.00%	0.00%	-0.08%	-0.31%	-0.19%	-0.01%	-0.59%	7.12%
937	Oak Ridge North	11.88%	0.00%	0.00%	-0.03%	0.01%	0.15%	0.17%	-0.36%	-0.06%	11.82%
942	Odem	8.47%	0.00%	0.00%	-0.07%	0.17%	0.53%	0.05%	-0.03%	0.65%	9.12%
944	Odessa	13.50%	0.00%	0.00%	-0.13%	-0.10%	0.18%	-0.11%	-0.27%	-0.43%	13.07%
945	Oglesby	0.24%	0.00%	0.00%	-0.14%	0.01%	0.15%	0.02%	0.25%	0.29%	0.53%
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	2.74%	0.00%	0.00%	-0.08%	0.02%	0.02%	-0.20%	0.10%	-0.14%	2.60%
951	Olney	7.64%	0.00%	0.00%	-0.02%	-0.01%	0.01%	-0.77%	-0.50%	-1.29%	6.35%
953	Omaha	5.27%	0.00%	0.00%	-0.01%	0.00%	-0.04%	0.00%	0.08%	0.03%	5.30%
954	Onalaska	2.55%	0.00%	0.00%	0.00%	0.00%	-0.01%	0.16%	-0.07%	0.08%	2.63%
958	Orange	16.80%	0.00%	0.00%	-0.18%	-0.02%	0.03%	-0.02%	-0.81%	-1.00%	15.80%
960	Orange Grove	1.52%	0.00%	0.00%	-0.07%	-0.22%	-0.35%	0.01%	0.14%	-0.49%	1.03%
959	Ore City	1.40%	0.00%	0.00%	-0.02%	0.01%	0.00%	0.00%	0.06%	0.05%	1.45%
962	Overton	2.89%	0.00%	0.00%	-0.05%	0.02%	0.13%	-0.55%	-0.43%	-0.88%	2.01%
961	Ovilla	9.76%	0.00%	0.00%	-0.03%	-0.04%	-0.09%	-0.29%	0.28%	-0.17%	9.59%
963	Oyster Creek	11.23%	0.00%	0.00%	-0.05%	-0.03%	-0.10%	-0.27%	0.24%	-0.21%	11.02%
964	Paducah	1.61%	0.00%	0.00%	-0.11%	0.08%	-0.41%	0.24%	-0.30%	-0.50%	1.11%
966	Palacios	17.87%	0.00%	0.00%	-0.06%	0.10%	0.15%	0.48%	-1.09%	-0.42%	17.45%
968	Palestine	13.71%	0.00%	0.00%	-0.09%	0.00%	-0.09%	0.06%	-0.17%	-0.29%	13.42%
970	Palmer	6.66%	0.00%	0.00%	-0.02%	-0.07%	-0.04%	-0.17%	0.38%	0.08%	6.74%
969	Palmhurst	5.90%	0.00%	0.00%	0.01%	0.01%	-0.03%	0.23%	-0.18%	0.04%	5.94%
971	Palmview	2.21%	0.00%	0.00%	0.00%	-0.01%	-0.03%	0.12%	-0.37%	-0.29%	1.92%
972	Pampa	21.71%	0.00%	0.00%	-0.11%	0.09%	0.27%	0.01%	-0.54%	-0.28%	21.43%
974	Panhandle	13.35%	0.00%	0.00%	-0.05%	0.02%	0.03%	-0.12%	-0.89%	-1.01%	12.34%
973	Panorama Village	7.42%	0.00%	0.00%	-0.11%	0.04%	0.00%	0.06%	-0.83%	-0.84%	6.58%
975	Pantego	17.95%	0.00%	0.00%	-0.13%	-0.10%	-0.03%	-0.01%	-0.19%	-0.46%	17.49%
976	Paris	7.02%	0.00%	0.00%	-0.13%	0.01%	0.04%	0.03%	-0.02%	-0.07%	6.95%
977	Parker	12.33%	0.00%	0.00%	-0.03%	0.00%	-0.24%	0.02%	0.13%	-0.12%	12.21%
978	Pasadena	13.85%	0.00%	0.00%	-0.24%	-0.06%	-0.10%	-0.04%	0.04%	-0.40%	13.45%
983	Pearland	13.55%	0.00%	0.00%	-0.03%	-0.08%	-0.21%	-0.02%	0.09%	-0.25%	13.30%
984	Pearsall	3.13%	0.00%	0.00%	-0.04%	0.00%	0.00%	0.04%	-0.26%	-0.26%	2.87%
988	Pecos City	6.13%	0.00%	0.00%	-0.05%	0.04%	0.00%	0.11%	-0.17%	-0.07%	6.06%
991	Penitas	4.66%	0.00%	0.00%	0.02%	-0.10%	-0.18%	-0.09%	0.02%	-0.33%	4.33%
994	Perryton	15.28%	0.00%	0.00%	-0.15%	0.05%	0.01%	-0.13%	-0.35%	-0.57%	14.71%
1000	Pflugerville	13.53%	0.00%	0.00%	-0.03%	-0.04%	-0.14%	-0.02%	0.03%	-0.20%	13.33%
1002	Pharr	8.01%	0.00%	0.00%	-0.07%	-0.03%	-0.08%	0.02%	0.04%	-0.12%	7.89%
1004	Pilot Point	9.24%	0.00%	0.00%	-0.01%	-0.01%	-0.01%	-0.01%	-0.01%	-0.05%	9.19%

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			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
1005	Pinehurst	19.45%	0.00%	0.00%	-0.08%	-0.08%	-0.30%	0.08%	0.31%	-0.07%	19.38%
1003	Pineland	8.66%	0.00%	0.00%	-0.35%	-0.14%	0.13%	-0.08%	-0.31%	-0.75%	7.91%
1001	Piney Point Village	7.14%	0.00%	0.00%	-0.01%	-0.26%	-0.09%	0.27%	-0.10%	-0.19%	6.95%
1006	Pittsburg	14.33%	0.00%	0.00%	-0.20%	-0.30%	-0.05%	0.16%	0.45%	0.06%	14.39%
1007	Plains	7.81%	0.00%	0.00%	-0.09%	-0.16%	0.02%	-0.41%	-0.60%	-1.24%	6.57%
1008	Plainview	13.47%	0.00%	0.00%	-0.19%	-0.10%	0.22%	-0.05%	-0.28%	-0.40%	13.07%
1010	Plano	17.30%	0.00%	0.00%	-0.15%	-0.11%	-0.19%	0.02%	-0.20%	-0.63%	16.67%
1012	Pleasanton	15.51%	0.00%	0.00%	-0.04%	-0.14%	-0.13%	0.07%	0.52%	0.28%	15.79%
1013	Point	13.73%	0.00%	0.00%	0.00%	-0.14%	-0.08%	0.15%	0.01%	-0.06%	13.67%
1017	Ponder	6.36%	0.00%	0.00%	0.00%	-0.12%	-0.24%	0.00%	0.11%	-0.25%	6.11%
1014	Port Aransas	11.61%	0.00%	0.00%	-0.03%	-0.08%	-0.13%	0.11%	0.07%	-0.06%	11.55%
11016	Port Arthur	14.02%	0.00%	0.00%	-0.17%	-0.05%	-0.16%	0.04%	0.12%	-0.22%	13.80%
1018	Port Isabel	3.85%	0.00%	0.00%	-0.05%	-0.01%	0.01%	-0.17%	0.34%	0.12%	3.97%
1020	Port Lavaca	5.99%	0.00%	0.00%	-0.06%	0.02%	0.06%	0.02%	-0.22%	-0.18%	5.81%
1022	Port Neches	11.94%	0.15%	0.00%	-0.16%	-0.01%	0.01%	0.13%	0.43%	0.55%	12.49%
1019	Portland	14.25%	0.00%	0.00%	-0.06%	-0.07%	-0.11%	0.02%	-0.39%	-0.61%	13.64%
1024	Post	10.76%	0.00%	0.00%	-0.06%	0.02%	-0.05%	-0.01%	0.13%	0.03%	10.79%
1026	Poteet	1.87%	0.33%	0.00%	-0.04%	0.03%	0.05%	0.17%	-0.23%	0.31%	2.18%
1028	Poth	4.25%	0.00%	0.00%	-0.04%	-0.01%	-0.01%	0.15%	0.13%	0.22%	4.47%
1030	Pottsboro	6.60%	0.00%	0.00%	-0.01%	-0.01%	0.00%	0.44%	-0.30%	0.12%	6.72%
1032	Premont	0.23%	0.00%	0.00%	0.00%	-0.02%	0.00%	0.07%	-0.28%	-0.23%	0.00%
1029	Presidio	0.74%	0.00%	0.00%	-0.01%	-0.02%	0.04%	0.04%	0.08%	0.13%	0.87%
1033	Primera	0.52%	0.00%	0.00%	-0.03%	-0.01%	-0.04%	-0.02%	-0.36%	-0.46%	0.06%
1034	Princeton	10.79%	0.00%	0.00%	-0.02%	-0.20%	-0.20%	0.05%	0.33%	-0.04%	10.75%
1036	Prosper	13.53%	0.00%	0.00%	0.01%	-0.16%	-0.23%	0.23%	0.17%	0.02%	13.55%
1037	Providence Village	7.78%	0.00%	0.00%	0.04%	-0.08%	-0.48%	-0.11%	0.35%	-0.28%	7.50%
1042	Quanah	9.05%	0.00%	0.00%	-0.28%	-0.48%	0.38%	0.24%	0.45%	0.31%	9.36%
1045	Queen City	2.06%	0.00%	0.00%	-0.03%	0.00%	-0.05%	0.11%	-0.32%	-0.29%	1.77%
1044	Quinlan	9.55%	0.00%	0.00%	0.01%	-0.05%	0.01%	0.61%	-0.12%	0.46%	10.01%
1047	Quintana	1.88%	0.00%	0.00%	0.00%	-0.21%	0.04%	0.48%	0.36%	0.67%	2.55%
1046	Quitaque	5.39%	0.00%	0.00%	-0.05%	-0.08%	0.01%	-0.31%	-0.04%	-0.47%	4.92%
1048	Quitman	7.84%	0.00%	0.00%	-0.09%	-0.05%	0.01%	-0.32%	-1.90%	-2.35%	5.49%
1050	Ralls	6.85%	0.00%	0.00%	-0.11%	0.06%	0.09%	0.18%	-0.57%	-0.35%	6.50%
1051	Rancho Viejo	8.02%	0.00%	0.00%	-0.31%	0.19%	0.08%	-0.03%	-1.04%	-1.11%	6.91%
1052	Ranger	7.94%	0.00%	0.00%	-0.06%	0.16%	-1.07%	0.29%	-0.62%	-1.30%	6.64%
1054	Rankin	1.36%	0.00%	0.00%	-0.09%	-0.08%	0.03%	-0.01%	0.03%	-0.12%	1.24%
1055	Ransom Canyon	15.67%	0.00%	0.00%	-0.02%	-0.01%	-0.10%	-0.01%	-0.14%	-0.28%	15.39%
1058	Raymondville	1.78%	0.00%	0.00%	-0.10%	0.01%	-0.15%	0.02%	-0.09%	-0.31%	1.47%
1061	Red Oak	6.13%	0.00%	0.00%	-0.01%	-0.01%	-0.06%	0.09%	0.02%	0.03%	6.16%
1062	Redwater	3.34%	0.00%	0.00%	0.00%	-0.12%	-0.01%	-0.09%	-0.04%	-0.26%	3.08%
1064	Refugio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1065	Reklaw	16.81%	0.00%	0.00%	-0.10%	0.00%	-0.16%	0.19%	-0.21%	-0.28%	16.53%
1066	Reno (Lamar County)	3.77%	0.00%	0.00%	-0.02%	0.00%	-0.03%	-0.04%	0.49%	0.40%	4.17%
1069	Reno (Parker County)	3.09%	0.00%	0.00%	-0.01%	-0.01%	0.00%	-0.13%	-0.22%	-0.37%	2.72%
1067	Rhome	7.55%	0.00%	0.00%	-0.03%	0.05%	-0.02%	0.15%	-0.10%	0.05%	7.60%
1068	Rice	1.15%	0.00%	0.00%	-0.01%	0.01%	-0.02%	-0.05%	-0.01%	-0.08%	1.07%
1070	Richardson	14.80%	0.00%	0.00%	-0.24%	0.03%	-0.06%	0.00%	-0.09%	-0.36%	14.44%
1073	Richland Hills	15.98%	0.00%	0.00%	-0.16%	0.00%	0.01%	0.12%	-0.48%	-0.51%	15.47%
1074	Richland Springs	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1076	Richmond	14.32%	0.00%	0.00%	-0.08%	-0.03%	-0.10%	-0.06%	0.62%	0.35%	14.67%
1077	Richwood	11.23%	0.00%	0.00%	-0.07%	-0.13%	-0.29%	0.18%	0.13%	-0.18%	11.05%
1072	Riesel	6.20%	0.00%	0.00%	0.00%	-0.08%	-0.24%	-0.01%	0.11%	-0.22%	5.98%
1075	Rio Grande City	7.06%	0.00%	0.00%	-0.01%	0.01%	-0.01%	0.08%	-0.10%	-0.03%	7.03%
1079	Rio Vista	3.62%	0.00%	0.00%	-0.02%	0.04%	0.19%	0.11%	-0.17%	0.15%	3.77%

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
1080	Rising Star	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1082	River Oaks	14.49%	0.00%	0.00%	-0.16%	-0.04%	-0.09%	0.05%	-0.49%	-0.73%	13.76%
1084	Roanoke	17.43%	0.00%	0.00%	-0.02%	0.01%	-0.12%	0.05%	0.10%	0.02%	17.45%
1088	Robert Lee	5.47%	0.00%	0.00%	-0.02%	-0.05%	0.50%	-0.49%	-0.01%	-0.07%	5.40%
1089	Robinson	14.29%	0.00%	0.00%	-0.03%	-0.08%	-0.02%	-0.31%	0.00%	-0.44%	13.85%
21090	Robstown	6.59%	0.00%	0.00%	-0.07%	0.01%	0.00%	-0.07%	-0.33%	-0.46%	6.13%
11090	Robstown Utility Systems	17.10%	-4.16%	0.00%	-0.14%	-0.23%	0.58%	0.05%	-0.44%	-4.34%	12.76%
1092	Roby	1.73%	0.00%	0.00%	-0.33%	-0.17%	-0.48%	0.00%	1.06%	0.08%	1.81%
1096	Rockdale	9.99%	0.00%	0.00%	-0.03%	0.02%	0.06%	-0.07%	-0.67%	-0.69%	9.30%
1098	Rockport	16.29%	0.00%	0.00%	-0.06%	-0.45%	-0.91%	0.94%	1.64%	1.16%	17.45%
1100	Rocksprings	1.21%	0.00%	0.00%	-0.05%	-0.03%	-0.02%	-0.43%	-0.16%	-0.69%	0.52%
1102	Rockwall	16.14%	0.00%	0.00%	-0.06%	-0.04%	-0.12%	-0.11%	-0.05%	-0.38%	15.76%
1104	Rogers	5.37%	2.98%	0.00%	-0.07%	0.26%	-0.10%	-0.07%	0.15%	3.15%	8.52%
1105	Rollingwood	9.01%	0.00%	0.00%	-0.04%	-0.02%	0.02%	-0.41%	-0.39%	-0.84%	8.17%
1106	Roma	10.73%	0.00%	0.00%	-0.06%	0.01%	0.04%	0.02%	-0.08%	-0.07%	10.66%
1109	Roscoe	2.08%	0.00%	0.00%	-0.04%	0.04%	0.01%	0.09%	-0.04%	0.06%	2.14%
1112	Rosebud	1.96%	0.00%	0.00%	-0.02%	0.00%	0.01%	0.21%	-0.26%	-0.06%	1.90%
1114	Rosenberg	13.03%	0.00%	0.00%	-0.08%	-0.02%	-0.09%	-0.01%	0.04%	-0.16%	12.87%
1116	Rotan	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1118	Round Rock	15.51%	0.00%	0.00%	-0.05%	-0.04%	-0.15%	-0.05%	0.11%	-0.18%	15.33%
1119	Rowlett	13.08%	0.00%	0.00%	-0.09%	0.00%	-0.11%	-0.13%	0.07%	-0.26%	12.82%
1120	Royse City	13.40%	2.83%	0.00%	-0.01%	0.09%	-0.24%	-0.11%	0.02%	2.58%	15.98%
1122	Rule	10.47%	0.00%	0.00%	-0.15%	-2.60%	-0.36%	1.31%	0.21%	-1.59%	8.88%
1123	Runaway Bay	2.28%	0.00%	0.00%	-0.04%	0.03%	-0.10%	-0.19%	-0.20%	-0.50%	1.78%
1124	Runge	18.25%	0.00%	0.00%	-0.07%	0.27%	1.52%	-0.30%	-0.82%	0.60%	18.85%
1126	Rusk	6.80%	0.00%	0.00%	-0.03%	0.03%	0.00%	0.04%	-0.26%	-0.22%	6.58%
1128	Sabinal	3.32%	0.00%	0.00%	-0.06%	0.03%	-0.02%	-0.01%	-0.14%	-0.20%	3.12%
1129	Sachse	14.51%	0.00%	0.00%	-0.04%	-0.04%	-0.19%	-0.03%	0.58%	0.28%	14.79%
1131	Saginaw	17.44%	0.00%	0.00%	-0.06%	0.01%	0.01%	-0.20%	-0.06%	-0.30%	17.14%
1130	Saint Jo	5.90%	0.00%	0.00%	-0.05%	0.07%	-0.23%	0.42%	-0.98%	-0.77%	5.13%
1133	Salado	6.87%	0.00%	0.00%	-0.03%	0.02%	-0.21%	0.36%	-0.76%	-0.62%	6.25%
1132	San Angelo	17.61%	0.00%	0.00%	-0.16%	0.00%	0.05%	-0.04%	0.00%	-0.15%	17.46%
21136	San Antonio	11.38%	0.28%	0.00%	-0.10%	0.00%	-0.11%	-0.03%	-0.05%	-0.01%	11.37%
11136	San Antonio Water System	3.70%	0.00%	0.00%	-0.05%	-0.01%	-0.03%	-0.02%	0.01%	-0.10%	3.60%
1138	San Augustine	11.32%	0.00%	0.00%	-0.11%	-0.02%	-0.02%	-0.42%	-2.41%	-2.98%	8.34%
1140	San Benito	5.74%	0.00%	0.00%	-0.05%	0.02%	0.00%	0.02%	-0.22%	-0.23%	5.51%
1144	San Felipe	3.85%	0.00%	0.00%	-0.06%	0.05%	0.34%	0.25%	0.03%	0.61%	4.46%
1148	San Juan	2.60%	0.00%	0.00%	-0.02%	0.00%	-0.01%	0.03%	-0.05%	-0.05%	2.55%
1150	San Marcos	17.45%	0.00%	0.00%	-0.07%	-0.04%	-0.22%	0.11%	0.11%	-0.11%	17.34%
1152	San Saba	8.40%	0.00%	0.00%	-0.07%	0.01%	0.02%	0.15%	-0.20%	-0.09%	8.31%
1146	Sanger	7.79%	0.00%	0.00%	-0.03%	-0.01%	-0.06%	0.12%	0.10%	0.12%	7.91%
1153	Sansom Park	6.61%	0.00%	0.00%	-0.03%	0.09%	-0.07%	0.09%	-0.54%	-0.46%	6.15%
1155	Santa Fe	12.07%	0.00%	0.00%	-0.05%	0.00%	-0.03%	-0.10%	-0.27%	-0.45%	11.62%
1158	Savoy	0.12%	0.00%	0.00%	0.00%	0.01%	0.00%	-0.13%	0.00%	-0.12%	0.00%
1159	Schertz	16.01%	0.00%	0.00%	-0.04%	-0.02%	-0.12%	0.01%	0.20%	0.03%	16.04%
1160	Schulenburg	22.07%	0.00%	0.00%	-0.20%	0.05%	0.32%	-0.04%	-0.77%	-0.64%	21.43%
1161	Seabrook	15.96%	0.00%	0.00%	-0.18%	0.02%	-0.19%	0.11%	-0.15%	-0.39%	15.57%
1162	Seadrift	4.28%	0.00%	0.00%	-0.01%	-0.07%	-0.11%	0.03%	-0.03%	-0.19%	4.09%
1164	Seagoville	10.92%	0.00%	0.00%	-0.05%	0.02%	-0.03%	-0.21%	0.21%	-0.06%	10.86%
1166	Seagraves	9.78%	0.00%	0.00%	-0.06%	0.02%	0.18%	0.38%	-0.28%	0.24%	10.02%
1167	Sealy	14.27%	0.00%	0.00%	-0.06%	-0.03%	0.09%	-0.07%	0.37%	0.30%	14.57%
1168	Seguin	15.61%	0.28%	0.00%	-0.09%	-0.41%	-0.35%	0.00%	0.20%	-0.37%	15.24%
1169	Selma	14.82%	0.00%	0.00%	-0.03%	-0.03%	-0.15%	-0.02%	0.07%	-0.16%	14.66%
1170	Seminole	13.27%	0.00%	0.00%	-0.14%	0.02%	0.00%	0.02%	-0.28%	-0.38%	12.89%

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption & Method Changes		Return on AVA	Contribution Lag/Phase In & Fully Amortized Prior Bases		Payroll Growth	Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes								
1171	Seven Points	4.65%	0.00%	0.00%	-0.06%	0.04%	-0.13%	0.48%	-2.38%	-2.05%	2.60%	
1172	Seymour	7.91%	0.00%	0.00%	-0.13%	0.00%	-0.24%	-0.01%	-0.50%	-0.88%	7.03%	
1165	Shady Shores	8.80%	0.00%	0.00%	0.06%	0.05%	-0.02%	-0.01%	0.38%	0.46%	9.26%	
1177	Shallowater	3.43%	0.00%	0.00%	-0.04%	0.01%	0.00%	-0.08%	-0.90%	-1.01%	2.42%	
1174	Shamrock	7.17%	0.00%	0.00%	-0.04%	0.07%	0.61%	-0.03%	0.06%	0.67%	7.84%	
1173	Shavano Park	13.55%	0.00%	0.00%	-0.01%	-0.11%	-0.11%	0.28%	0.22%	0.27%	13.82%	
1175	Shenandoah	17.61%	0.00%	0.00%	-0.02%	0.12%	0.20%	-0.49%	-0.49%	-0.68%	16.93%	
1181	Shepherd	2.41%	0.00%	0.00%	-0.03%	-0.02%	0.17%	0.03%	0.14%	0.29%	2.70%	
1176	Sherman	14.15%	0.00%	0.00%	-0.15%	0.00%	-0.07%	-0.03%	0.02%	-0.23%	13.92%	
1178	Shiner	7.27%	0.00%	0.00%	-0.07%	-0.02%	-0.04%	0.07%	0.50%	0.44%	7.71%	
1179	Shoreacres	5.62%	0.00%	0.00%	-0.06%	0.02%	-0.06%	-0.05%	-0.79%	-0.94%	4.68%	
1180	Silsbee	18.35%	0.00%	0.00%	-0.11%	-0.01%	-0.24%	0.20%	0.30%	0.14%	18.49%	
1182	Silverton	4.12%	0.00%	0.00%	-0.27%	0.03%	0.22%	-0.02%	0.39%	0.35%	4.47%	
1184	Sinton	12.60%	0.00%	0.00%	-0.06%	0.05%	0.20%	-0.05%	0.13%	0.27%	12.87%	
1185	Skellytown	1.16%	0.00%	0.00%	-0.03%	0.01%	-1.31%	0.94%	-0.22%	-0.61%	0.55%	
1186	Slaton	6.68%	0.00%	0.00%	-0.08%	0.02%	0.00%	0.00%	-0.10%	-0.16%	6.52%	
1188	Smithville	6.81%	0.00%	0.00%	-0.04%	0.00%	-0.06%	0.06%	0.09%	0.05%	6.86%	
1189	Smyer	10.08%	0.00%	0.00%	-0.03%	0.05%	0.09%	0.02%	0.18%	0.31%	10.39%	
1190	Snyder	15.76%	0.00%	0.00%	-0.13%	0.01%	0.05%	-0.01%	-2.01%	-2.09%	13.67%	
1191	Somerset	3.09%	0.00%	0.00%	-0.02%	-0.04%	0.04%	0.08%	-0.56%	-0.50%	2.59%	
1192	Somerville	5.67%	0.00%	0.00%	-0.05%	0.04%	-0.03%	0.24%	-0.66%	-0.46%	5.21%	
1194	Sonora	8.50%	0.00%	0.00%	-0.07%	0.01%	0.09%	-0.21%	-0.03%	-0.21%	8.29%	
1196	Sour Lake	5.80%	0.00%	0.00%	-0.01%	-0.01%	0.00%	-0.19%	0.10%	-0.11%	5.69%	
1198	South Houston	10.23%	0.00%	0.00%	-0.14%	-0.10%	-0.01%	0.01%	0.01%	-0.23%	10.00%	
1199	South Padre Island	12.88%	0.00%	0.00%	-0.07%	0.00%	-0.05%	0.02%	0.03%	-0.07%	12.81%	
1197	Southlake	12.26%	0.00%	0.00%	-0.06%	0.00%	0.02%	0.05%	0.08%	0.09%	12.35%	
1200	Southmayd	7.17%	0.00%	0.00%	0.04%	-0.31%	-1.16%	-0.14%	0.03%	-1.54%	5.63%	
1202	Southside Place	11.78%	0.00%	0.00%	-0.06%	-0.02%	-0.02%	0.01%	0.11%	0.02%	11.80%	
1204	Spearman	11.13%	0.00%	0.00%	-0.11%	-0.11%	0.03%	0.36%	0.08%	0.25%	11.38%	
1205	Spring Valley Village	7.18%	0.00%	0.00%	-0.08%	-0.03%	0.00%	-0.15%	-0.03%	-0.29%	6.89%	
1203	Springtown	9.10%	0.00%	0.00%	-0.05%	-0.03%	-0.01%	0.05%	0.08%	0.04%	9.14%	
1206	Spur	5.07%	0.00%	0.00%	-0.14%	-0.03%	0.06%	-0.04%	-0.26%	-0.41%	4.66%	
1207	Stafford	14.69%	0.00%	0.00%	-0.07%	-0.14%	-0.26%	0.21%	0.01%	-0.25%	14.44%	
1208	Stamford	5.46%	0.00%	0.00%	-0.10%	-0.03%	0.02%	-0.23%	0.14%	-0.20%	5.26%	
1210	Stanton	8.61%	0.00%	0.00%	-0.09%	0.00%	-0.12%	-0.20%	-0.45%	-0.86%	7.75%	
1211	Star Harbor	10.24%	0.00%	0.00%	-0.13%	0.21%	0.48%	0.07%	-0.39%	0.24%	10.48%	
1212	Stephenville	14.38%	-7.60%	0.00%	-0.10%	-0.45%	0.01%	0.11%	0.01%	-8.02%	6.36%	
1213	Sterling City	1.28%	0.00%	0.00%	-0.04%	-0.02%	0.01%	-0.06%	0.03%	-0.08%	1.20%	
1214	Stinnett	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
1216	Stockdale	4.41%	0.00%	0.00%	0.01%	0.02%	0.09%	-0.08%	0.03%	0.07%	4.48%	
1218	Stratford	6.05%	0.00%	0.00%	-0.02%	-0.15%	0.02%	0.24%	0.17%	0.26%	6.31%	
1224	Sudan	1.39%	0.40%	0.00%	-0.06%	-0.17%	0.00%	-0.03%	-0.58%	-0.44%	0.95%	
1225	Sugar Land	15.13%	0.00%	0.00%	-0.07%	-0.02%	-0.21%	-0.05%	0.00%	-0.35%	14.78%	
1226	Sulphur Springs	7.22%	0.18%	0.00%	-0.11%	0.04%	0.12%	0.03%	-0.17%	0.09%	7.31%	
1228	Sundown	11.52%	0.00%	0.00%	-0.10%	0.09%	0.32%	-0.52%	-0.08%	-0.29%	11.23%	
1229	Sunnyvale	11.87%	0.00%	0.00%	-0.03%	0.00%	0.00%	-0.26%	0.05%	-0.24%	11.63%	
1230	Sunray	18.73%	0.00%	0.00%	-0.07%	-0.22%	-0.54%	1.12%	-0.51%	-0.22%	18.51%	
1227	Sunrise Beach Village	1.40%	0.00%	0.00%	-0.01%	-0.01%	0.00%	-0.06%	-0.04%	-0.12%	1.28%	
1231	Sunset Valley	12.64%	0.00%	0.00%	-0.03%	-0.01%	0.00%	0.14%	-0.55%	-0.45%	12.19%	
1233	Surfside Beach	1.04%	0.38%	0.00%	-0.01%	0.00%	0.06%	-0.03%	-0.08%	0.32%	1.36%	
1232	Sweeny	17.32%	0.00%	0.00%	-0.13%	-0.11%	-0.40%	0.36%	0.16%	-0.12%	17.20%	
1234	Sweetwater	18.10%	0.00%	0.00%	-0.13%	0.00%	-0.07%	0.15%	-0.40%	-0.45%	17.65%	
1264	TMRS	16.31%	0.00%	0.00%	-0.05%	-0.20%	-0.29%	-0.05%	0.23%	-0.36%	15.95%	
1236	Taft	16.05%	0.00%	0.00%	-0.04%	0.07%	0.04%	0.75%	0.04%	0.86%	16.91%	

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption &		Return on AVA	Contribution Lag/Phase In &		Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes		Fully Amortized Prior Bases	Payroll Growth				
1238	Tahoka	1.14%	0.20%	0.00%	-0.09%	0.05%	-0.12%	0.17%	0.06%	0.27%	1.41%
1241	Tatum	2.11%	0.00%	0.00%	-0.02%	0.01%	0.05%	-0.03%	-0.33%	-0.32%	1.79%
1246	Taylor	11.89%	0.00%	0.00%	-0.07%	-0.02%	-0.07%	0.22%	-0.07%	-0.01%	11.88%
1248	Teague	11.71%	0.00%	0.00%	-0.07%	-0.02%	0.01%	-0.45%	-1.95%	-2.48%	9.23%
1252	Temple	16.48%	0.00%	0.00%	-0.10%	0.00%	-0.11%	-0.06%	0.22%	-0.05%	16.43%
1254	Tenaha	0.60%	0.00%	0.00%	-0.04%	0.01%	-0.09%	-0.36%	-0.02%	-0.50%	0.10%
1256	Terrell	16.34%	0.00%	0.00%	-0.10%	0.06%	0.01%	-0.10%	-0.53%	-0.66%	15.68%
1258	Terrell Hills	12.01%	0.00%	0.00%	-0.10%	-0.02%	-0.15%	0.04%	0.32%	0.09%	12.10%
31263	Tex Municipal League IEBP	5.75%	0.24%	0.00%	-0.06%	0.01%	-0.05%	0.00%	0.02%	0.16%	5.91%
21263	Tex Municipal League IRP	10.59%	0.00%	0.00%	-0.11%	-0.03%	-0.01%	-0.13%	0.08%	-0.20%	10.39%
21260	Texarkana	16.11%	0.00%	0.00%	-0.13%	-0.01%	-0.08%	-0.12%	0.26%	-0.08%	16.03%
11260	Texarkana Police Dept	15.93%	0.00%	0.00%	-0.15%	0.00%	-0.06%	-0.01%	-0.70%	-0.92%	15.01%
31260	Texarkana Water Utilities	16.67%	0.00%	0.00%	-0.13%	0.08%	0.08%	0.08%	-0.71%	-0.60%	16.07%
1262	Texas City	16.70%	0.00%	0.00%	-0.17%	-0.03%	-0.02%	0.06%	-0.36%	-0.52%	16.18%
11263	Texas Municipal League	16.16%	0.00%	0.00%	-0.14%	-0.02%	-0.16%	-0.01%	0.21%	-0.12%	16.04%
1267	The Colony	13.06%	0.00%	0.00%	-0.07%	-0.05%	-0.19%	0.02%	0.24%	-0.05%	13.01%
1269	Thompsons	4.26%	0.00%	0.00%	-0.02%	0.06%	0.06%	-0.01%	-0.15%	-0.06%	4.20%
1268	Thorndale	7.37%	0.00%	0.00%	-0.06%	0.16%	0.22%	0.02%	-0.13%	0.21%	7.58%
1272	Thrall	7.98%	0.00%	0.00%	0.03%	-0.04%	-0.07%	0.17%	0.29%	0.38%	8.36%
1274	Three Rivers	14.62%	7.43%	0.00%	-0.04%	0.57%	0.90%	-0.04%	-0.08%	8.74%	23.36%
1276	Throckmorton	5.08%	0.00%	0.00%	-0.14%	-0.04%	-0.03%	-0.15%	-0.16%	-0.52%	4.56%
1277	Tiki Island	3.59%	0.00%	0.00%	-0.02%	0.00%	0.01%	0.02%	-0.02%	-0.01%	3.58%
1278	Timpson	2.39%	0.00%	0.00%	-0.03%	0.01%	-0.06%	0.05%	-0.20%	-0.23%	2.16%
1280	Tioga	1.24%	0.41%	0.00%	-0.01%	0.02%	0.09%	-0.26%	-0.03%	0.22%	1.46%
1283	Tolar	9.41%	0.00%	0.00%	-0.07%	0.15%	0.03%	-0.44%	-0.12%	-0.45%	8.96%
1286	Tom Bean	0.61%	2.40%	0.00%	-0.01%	0.11%	-0.08%	-0.35%	-0.26%	1.81%	2.42%
1284	Tomball	13.42%	0.00%	0.00%	-0.05%	-0.03%	-0.07%	-0.06%	0.28%	0.07%	13.49%
1290	Trent	9.72%	0.00%	0.00%	-0.05%	-1.63%	-0.02%	-0.02%	0.18%	-1.54%	8.18%
1292	Trenton	2.76%	0.00%	0.00%	-0.07%	-0.25%	0.10%	-0.01%	0.31%	0.08%	2.84%
1293	Trinidad	3.63%	0.00%	0.00%	-0.06%	-0.13%	-0.04%	-0.09%	-0.07%	-0.39%	3.24%
1294	Trinity	7.48%	0.00%	0.00%	-0.02%	0.01%	0.03%	-0.08%	-0.50%	-0.56%	6.92%
1295	Trophy Club	12.78%	0.00%	0.00%	-0.06%	-0.01%	-0.03%	0.34%	-0.07%	0.17%	12.95%
1296	Troup	5.72%	0.00%	0.00%	-0.02%	0.00%	0.00%	0.12%	-0.49%	-0.39%	5.33%
1297	Troy	12.62%	0.00%	0.00%	0.00%	-0.14%	-0.23%	-0.22%	-0.20%	-0.79%	11.83%
1298	Tulia	11.92%	0.00%	0.00%	-0.23%	0.06%	0.05%	0.13%	-1.43%	-1.42%	10.50%
1299	Turkey	4.73%	0.00%	0.00%	-0.03%	-0.01%	0.27%	0.20%	0.03%	0.46%	5.19%
1301	Tye	7.67%	0.00%	0.00%	-0.02%	-0.05%	-0.16%	-0.36%	0.17%	-0.42%	7.25%
1304	Tyler	20.70%	0.00%	0.00%	-0.13%	0.07%	0.36%	-0.03%	-0.08%	0.19%	20.89%
1305	Universal City	18.79%	0.00%	0.00%	-0.06%	-0.03%	-0.01%	0.10%	-0.33%	-0.33%	18.46%
1306	University Park	7.51%	0.00%	0.00%	-0.15%	0.04%	0.03%	-0.07%	-0.10%	-0.25%	7.26%
1308	Uvalde	6.01%	0.00%	0.00%	-0.04%	-0.02%	-0.03%	-0.03%	0.04%	-0.08%	5.93%
1312	Valley Mills	1.97%	0.00%	0.00%	0.01%	-0.03%	0.00%	0.08%	-0.14%	-0.08%	1.89%
1313	Valley View	2.58%	0.00%	0.00%	0.03%	-0.17%	-0.50%	-0.07%	0.30%	-0.41%	2.17%
1314	Van	7.33%	0.00%	0.00%	-0.05%	-0.01%	0.00%	0.18%	-0.13%	-0.01%	7.32%
1316	Van Alstyne	10.64%	0.00%	0.00%	-0.03%	-0.09%	-0.25%	-0.15%	-0.46%	-0.98%	9.66%
1318	Van Horn	8.75%	0.00%	0.00%	-0.10%	-0.06%	-0.20%	-0.05%	-0.49%	-0.90%	7.85%
1320	Vega	23.72%	0.00%	0.00%	-0.26%	0.12%	0.24%	-0.09%	1.06%	1.07%	24.79%
1324	Venus	10.83%	0.00%	0.00%	-0.02%	0.02%	0.00%	-0.22%	-0.08%	-0.30%	10.53%
1326	Vernon	12.47%	0.00%	0.00%	-0.14%	0.10%	0.16%	0.28%	-0.89%	-0.49%	11.98%
1328	Victoria	16.54%	0.00%	0.00%	-0.12%	0.05%	0.25%	-0.02%	-0.11%	0.05%	16.59%
1329	Vidor	14.75%	0.00%	0.00%	-0.13%	-0.16%	-0.09%	-0.22%	0.09%	-0.51%	14.24%
1500	Village Fire Department	6.29%	0.00%	0.00%	-0.12%	-0.11%	0.05%	-0.09%	0.07%	-0.20%	6.09%
1330	Waco	14.25%	0.00%	0.00%	-0.18%	-0.01%	0.00%	0.01%	-0.05%	-0.23%	14.02%
1332	Waelder	2.64%	0.00%	0.00%	-0.04%	0.00%	-0.06%	0.01%	0.17%	0.08%	2.72%

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

CITY NUMBER	CITY NAME	2018 Rates	Assumption & Method Changes		Return on AVA	Contribution Lag/Phase In & Fully Amortized Prior Bases		Payroll Growth	Normal Cost	Liability Growth	Total Change	2019 Rates
			Benefit Changes	Method Changes								
1334	Wake Village	13.86%	0.00%	0.00%	-0.06%	0.08%	0.16%	-0.31%	-0.62%	-0.75%	13.11%	
1336	Waller	4.22%	0.00%	0.00%	-0.05%	0.00%	0.01%	-0.15%	-0.13%	-0.32%	3.90%	
1337	Wallis	3.00%	0.00%	0.00%	-0.04%	-0.26%	0.11%	0.04%	-0.21%	-0.36%	2.64%	
1338	Walnut Springs	3.36%	0.00%	0.00%	-0.09%	0.13%	-0.06%	0.03%	0.16%	0.17%	3.53%	
1340	Waskom	6.80%	0.00%	0.00%	-0.05%	-0.01%	0.05%	0.00%	-0.06%	-0.07%	6.73%	
1341	Watauga	13.59%	0.00%	0.00%	-0.10%	0.00%	0.15%	-0.07%	-0.07%	-0.09%	13.50%	
1342	Waxahachie	15.32%	0.00%	0.00%	-0.07%	-0.04%	-0.25%	-0.21%	0.21%	-0.36%	14.96%	
1344	Weatherford	13.35%	0.00%	0.00%	-0.10%	0.03%	0.05%	0.00%	-0.08%	-0.10%	13.25%	
1345	Webster	16.89%	0.00%	0.00%	-0.09%	-0.10%	-0.04%	0.31%	0.44%	0.52%	17.41%	
1346	Weimar	18.17%	0.00%	0.00%	-0.23%	-0.16%	-0.01%	0.03%	-0.58%	-0.95%	17.22%	
1350	Wellington	4.41%	0.00%	0.00%	-0.18%	0.06%	-0.07%	-0.02%	-0.16%	-0.37%	4.04%	
1352	Wells	3.76%	0.00%	0.00%	-0.14%	-0.01%	0.14%	-0.03%	-2.27%	-2.31%	1.45%	
1354	Weslaco	7.78%	0.21%	0.00%	-0.11%	0.01%	-0.15%	-0.05%	0.07%	-0.02%	7.76%	
1356	West	2.04%	0.00%	0.00%	-0.06%	-0.10%	0.01%	0.02%	-0.35%	-0.48%	1.56%	
1358	West Columbia	3.16%	0.00%	0.00%	-0.07%	-0.01%	0.07%	-0.14%	0.25%	0.10%	3.26%	
1359	West Lake Hills	17.21%	0.00%	0.00%	-0.07%	0.06%	0.38%	-0.77%	-0.82%	-1.22%	15.99%	
1361	West Orange	19.99%	0.00%	0.00%	-0.13%	-0.02%	0.41%	-0.20%	-0.02%	0.04%	20.03%	
1365	West Tawakoni	10.34%	0.00%	0.00%	-0.03%	-0.37%	-0.07%	-0.12%	-0.19%	-0.78%	9.56%	
1364	West Univ. Place	13.56%	0.00%	0.00%	-0.10%	-0.02%	-0.07%	-0.65%	0.12%	-0.72%	12.84%	
1363	Westlake	12.84%	0.00%	0.00%	-0.01%	-0.03%	-0.29%	-0.57%	-0.14%	-1.04%	11.80%	
1362	Westover Hills	1.72%	0.00%	0.00%	-0.05%	-0.01%	0.00%	0.11%	-0.20%	-0.15%	1.57%	
1366	Westworth Village	12.33%	0.00%	0.00%	-0.02%	0.02%	0.01%	-0.24%	-0.35%	-0.58%	11.75%	
1368	Wharton	6.15%	0.00%	0.00%	-0.06%	-0.03%	-0.07%	0.01%	-0.12%	-0.27%	5.88%	
1370	Wheeler	7.40%	0.00%	0.00%	-0.11%	0.05%	0.02%	0.58%	-0.25%	0.29%	7.69%	
1372	White Deer	8.01%	0.00%	0.00%	-0.03%	0.02%	0.19%	-0.04%	-0.07%	0.07%	8.08%	
1377	White Oak	14.55%	0.00%	0.00%	-0.11%	-0.03%	0.02%	-0.19%	-0.14%	-0.45%	14.10%	
1378	White Settlement	17.88%	0.00%	0.00%	-0.08%	0.03%	0.15%	-0.39%	-0.66%	-0.95%	16.93%	
1374	Whiteface	1.52%	0.00%	0.00%	-0.09%	-0.02%	-0.02%	0.00%	0.17%	0.04%	1.56%	
1375	Whitehouse	8.45%	0.00%	0.00%	-0.04%	0.02%	0.08%	0.30%	0.18%	0.54%	8.99%	
1376	Whitesboro	7.36%	0.00%	0.00%	-0.10%	0.02%	-0.01%	-0.02%	-0.03%	-0.14%	7.22%	
1380	Whitewright	3.63%	0.00%	0.00%	-0.03%	-0.08%	-0.01%	0.09%	-0.73%	-0.76%	2.87%	
1382	Whitney	4.35%	0.00%	0.00%	-0.01%	-0.01%	-0.03%	-0.08%	0.00%	-0.13%	4.22%	
1384	Wichita Falls	12.83%	0.00%	0.00%	-0.15%	0.07%	0.26%	-0.01%	-0.23%	-0.06%	12.77%	
1386	Willis	10.14%	0.00%	0.00%	-0.03%	0.01%	0.00%	-0.15%	-0.02%	-0.19%	9.95%	
1387	Willow Park	7.25%	0.00%	0.00%	0.00%	0.03%	0.10%	-0.07%	-0.08%	-0.02%	7.23%	
1388	Wills Point	12.96%	0.00%	0.00%	-0.10%	0.08%	-0.03%	-0.24%	-0.27%	-0.56%	12.40%	
1390	Wilmer	4.57%	0.00%	0.00%	-0.04%	-0.01%	0.02%	0.06%	0.10%	0.13%	4.70%	
1392	Wimberley	2.64%	6.46%	0.00%	-0.01%	0.62%	-0.35%	-0.85%	-0.64%	5.23%	7.87%	
1393	Windcrest	7.89%	0.00%	0.00%	-0.06%	-0.05%	-0.05%	-0.15%	-0.18%	-0.49%	7.40%	
1395	Winfield	2.77%	0.00%	0.00%	-0.03%	0.19%	0.16%	1.20%	-0.79%	0.73%	3.50%	
1396	Wink	7.35%	0.00%	0.00%	-0.04%	-0.01%	-0.02%	-0.17%	0.33%	0.09%	7.44%	
1398	Winnsboro	10.24%	0.00%	0.00%	-0.06%	0.00%	-0.01%	-0.25%	-0.98%	-1.30%	8.94%	
1399	Winona	0.73%	0.00%	0.00%	0.00%	-0.23%	0.00%	-0.44%	-0.06%	-0.73%	0.00%	
1400	Winters	9.93%	0.00%	0.00%	-0.16%	0.02%	0.03%	-0.08%	0.11%	-0.08%	9.85%	
1403	Wolfforth	11.21%	0.00%	0.00%	-0.03%	-0.11%	-0.28%	0.15%	0.16%	-0.11%	11.10%	
1409	Woodcreek	3.38%	4.18%	0.00%	-0.02%	0.24%	0.00%	-0.01%	-0.10%	4.29%	7.67%	
1404	Woodsboro	0.66%	0.00%	0.00%	-0.02%	0.02%	0.18%	0.00%	0.21%	0.39%	1.05%	
1406	Woodville	17.26%	0.00%	0.00%	-0.07%	0.03%	-0.01%	0.06%	0.25%	0.26%	17.52%	
1407	Woodway	16.40%	0.00%	0.00%	-0.07%	-0.05%	-0.24%	-0.17%	0.59%	0.06%	16.46%	
1408	Wortham	5.88%	0.00%	0.00%	-0.03%	0.01%	-0.01%	-0.02%	0.06%	0.01%	5.89%	
1410	Wylie	14.86%	0.00%	0.00%	-0.03%	-0.02%	-0.15%	0.01%	0.17%	-0.02%	14.84%	
1412	Yoakum	15.64%	0.00%	0.00%	-0.11%	-0.03%	-0.08%	-0.02%	0.33%	0.09%	15.73%	
1414	Yorktown	1.47%	0.00%	0.00%	-0.07%	0.02%	-0.03%	-0.03%	-0.44%	-0.55%	0.92%	
1415	Zavalla	3.38%	0.00%	0.00%	0.00%	0.03%	0.02%	-0.11%	-3.30%	-3.36%	0.02%	

## **SECTION 4**

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### **COMPARISON OF EXPECTED CITY CONTRIBUTION DOLLAR AMOUNTS FOR 2018 AND 2019**

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
4	Abernathy	\$706,853	4.15%	\$29,334	\$728,059	4.01%	\$29,195
6	Abilene	\$51,216,096	11.18%	\$5,725,960	\$52,752,579	10.93%	\$5,765,857
7	Addison	\$19,558,190	10.46%	\$2,045,787	\$20,144,936	10.69%	\$2,153,494
8	Agua Dulce	\$81,064	9.13%	\$7,401	\$83,496	9.08%	\$7,581
10	Alamo	\$4,786,762	7.12%	\$340,817	\$4,930,365	6.87%	\$338,716
12	Alamo Heights	\$5,554,165	16.89%	\$938,098	\$5,720,790	16.84%	\$963,381
14	Alba	\$223,940	2.78%	\$6,226	\$230,658	2.44%	\$5,628
16	Albany	\$610,796	5.01%	\$30,601	\$629,120	5.24%	\$32,966
17	Aledo	\$661,328	7.15%	\$47,285	\$681,168	7.46%	\$50,815
18	Alice	\$9,922,911	5.31%	\$526,907	\$10,220,598	4.81%	\$491,611
19	Allen	\$47,847,654	13.99%	\$6,693,887	\$49,283,084	14.03%	\$6,914,417
20	Alpine	\$3,044,184	0.97%	\$29,529	\$3,135,510	1.06%	\$33,236
22	Alto	\$369,309	9.26%	\$34,198	\$377,803	10.30%	\$38,914
23	Alton	\$2,938,589	11.64%	\$342,052	\$3,026,747	12.14%	\$367,447
24	Alvarado	\$2,690,141	5.18%	\$139,349	\$2,770,845	5.19%	\$143,807
26	Alvin	\$10,955,349	17.63%	\$1,931,428	\$11,284,009	16.88%	\$1,904,741
28	Alvord	\$299,140	6.45%	\$19,295	\$308,114	5.44%	\$16,761
30	Amarillo	\$88,360,930	12.24%	\$10,815,378	\$91,011,758	12.18%	\$11,085,232
32	Amherst	\$132,920	3.59%	\$4,772	\$135,578	0.00%	\$0
34	Anahuac	\$260,771	7.38%	\$19,245	\$265,986	8.75%	\$23,274
36	Andrews	\$4,400,012	15.91%	\$700,042	\$4,532,012	15.97%	\$723,762
38	Angleton	\$6,361,763	12.52%	\$796,493	\$6,552,616	12.35%	\$809,248
40	Anna	\$3,665,609	14.01%	\$513,552	\$3,775,577	14.67%	\$553,877
41	Annetta	\$131,863	8.75%	\$11,538	\$135,819	9.99%	\$13,568
44	Anson	\$757,569	1.20%	\$9,091	\$780,296	0.54%	\$4,214
45	Anthony	\$1,326,412	3.06%	\$40,588	\$1,366,204	2.99%	\$40,849
48	Aransas Pass	\$4,954,983	11.41%	\$565,364	\$5,103,632	9.71%	\$495,563
50	Archer City	\$813,309	4.32%	\$35,135	\$837,708	4.18%	\$35,016
49	Arcola	\$547,429	5.70%	\$31,203	\$563,852	4.81%	\$27,121
51	Argyle	\$1,577,686	13.59%	\$214,408	\$1,625,017	13.68%	\$222,302
52	Arlington	\$174,216,577	15.79%	\$27,508,798	\$179,443,074	15.81%	\$28,369,950
54	Arp	\$294,999	1.96%	\$5,782	\$303,849	1.68%	\$5,105
60	Aspermont	\$264,878	0.00%	\$0	\$272,824	0.00%	\$0
62	Athens	\$7,013,887	21.60%	\$1,515,000	\$7,224,304	20.79%	\$1,501,933
64	Atlanta	\$1,599,142	3.96%	\$63,326	\$1,639,121	3.58%	\$58,681
66	Aubrey	\$2,285,827	6.17%	\$141,036	\$2,354,402	6.13%	\$144,325
74	Avinger	\$61,951	1.94%	\$1,202	\$63,810	2.07%	\$1,321
75	Azle	\$6,523,624	12.20%	\$795,882	\$6,719,333	12.23%	\$821,774
77	Baird	\$472,592	0.86%	\$4,064	\$486,770	0.87%	\$4,235
78	Balch Springs	\$10,123,835	14.24%	\$1,441,634	\$10,427,550	13.83%	\$1,442,130
79	Balcones Heights	\$3,018,484	16.59%	\$500,766	\$3,109,039	15.76%	\$489,985
80	Ballinger	\$1,446,371	3.85%	\$55,685	\$1,489,762	3.70%	\$55,121
82	Balmorea	\$31,728	0.00%	\$0	\$32,363	0.00%	\$0
83	Bandera	\$733,786	9.20%	\$67,508	\$749,929	10.40%	\$77,993
84	Bangs	\$534,024	12.42%	\$66,326	\$550,045	12.80%	\$70,406

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
90	Bartlett	\$629,468	6.95%	\$43,748	\$648,352	7.87%	\$51,025
91	Bartonville	\$439,763	13.42%	\$59,016	\$452,956	14.23%	\$64,456
92	Bastrop	\$6,679,619	11.36%	\$758,805	\$6,880,008	11.37%	\$782,257
94	Bay City	\$7,710,417	9.61%	\$740,971	\$7,926,309	9.51%	\$753,792
93	Bayou Vista	\$298,416	3.70%	\$11,041	\$304,384	2.82%	\$8,584
96	Baytown	\$55,571,513	17.49%	\$9,719,458	\$57,238,658	17.63%	\$10,091,175
98	Beaumont	\$61,144,792	19.74%	\$12,069,982	\$62,979,136	19.22%	\$12,104,590
100	Bedford	\$22,759,566	9.01%	\$2,050,637	\$23,442,353	9.02%	\$2,114,500
101	Bee Cave	\$2,691,896	8.90%	\$239,579	\$2,772,653	9.08%	\$251,757
102	Beeville	\$4,749,651	0.95%	\$45,122	\$4,892,141	0.83%	\$40,605
106	Bellaire	\$10,906,835	20.25%	\$2,208,634	\$11,234,040	20.45%	\$2,297,361
109	Bellmead	\$3,701,687	9.09%	\$336,483	\$3,812,738	8.81%	\$335,902
110	Bells	\$317,982	0.00%	\$0	\$327,521	0.00%	\$0
112	Bellville	\$2,518,993	15.16%	\$381,879	\$2,594,563	15.38%	\$399,044
114	Belton	\$8,576,476	7.57%	\$649,239	\$8,833,770	7.48%	\$660,766
118	Benbrook	\$9,668,152	16.37%	\$1,582,676	\$9,958,197	16.18%	\$1,611,236
121	Berryville	\$75,622	2.81%	\$2,125	\$77,891	3.03%	\$2,360
123	Bertram	\$430,401	2.02%	\$8,694	\$443,313	1.98%	\$8,778
124	Big Lake	\$1,168,143	16.21%	\$189,356	\$1,203,187	17.67%	\$212,603
126	Big Sandy	\$448,993	2.52%	\$11,315	\$462,463	2.44%	\$11,284
128	Big Spring	\$9,255,677	17.38%	\$1,608,637	\$9,505,580	17.19%	\$1,634,009
132	Bishop	\$736,400	3.87%	\$28,499	\$758,492	3.51%	\$26,623
134	Blanco	\$799,418	1.68%	\$13,430	\$823,401	1.59%	\$13,092
140	Blooming Grove	\$174,658	10.01%	\$17,483	\$179,898	9.98%	\$17,954
142	Blossom	\$177,196	3.73%	\$6,609	\$182,512	3.72%	\$6,789
143	Blue Mound	\$965,413	4.65%	\$44,892	\$994,375	4.64%	\$46,139
144	Blue Ridge	\$206,394	1.55%	\$3,199	\$212,586	1.81%	\$3,848
148	Boerne	\$14,757,052	18.27%	\$2,696,113	\$15,199,764	18.34%	\$2,787,637
150	Bogata	\$287,868	0.16%	\$461	\$296,504	0.00%	\$0
152	Bonham	\$5,243,946	5.45%	\$285,795	\$5,401,264	5.31%	\$286,807
154	Booker	\$453,029	5.96%	\$27,001	\$466,620	5.85%	\$27,297
156	Borger	\$8,665,445	14.81%	\$1,283,352	\$8,925,408	14.57%	\$1,300,432
158	Bovina	\$378,836	0.06%	\$227	\$390,201	0.00%	\$0
160	Bowie	\$3,546,367	10.58%	\$375,206	\$3,652,758	10.62%	\$387,923
162	Boyd	\$698,141	3.92%	\$27,367	\$719,085	4.24%	\$30,489
166	Brady	\$3,989,720	10.54%	\$420,516	\$4,109,412	10.24%	\$420,804
170	Brazoria	\$1,154,192	8.60%	\$99,261	\$1,184,201	6.69%	\$79,223
172	Breckenridge	\$2,219,255	7.99%	\$177,318	\$2,279,175	7.42%	\$169,115
174	Bremond	\$269,657	16.61%	\$44,790	\$275,859	15.95%	\$44,000
176	Brenham	\$11,491,759	10.12%	\$1,162,966	\$11,836,512	9.72%	\$1,150,509
177	Bridge City	\$3,362,271	15.31%	\$514,764	\$3,463,139	15.07%	\$521,895
178	Bridgeport	\$3,074,799	13.71%	\$421,555	\$3,154,744	13.88%	\$437,878
180	Bronte	\$125,029	11.86%	\$14,828	\$127,780	12.36%	\$15,794
182	Brookshire	\$1,669,329	5.47%	\$91,312	\$1,719,409	5.68%	\$97,662
184	Brownfield	\$3,870,125	6.04%	\$233,756	\$3,986,229	5.11%	\$203,696

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
186	Brownsboro	\$376,650	12.36%	\$46,554	\$387,950	10.75%	\$41,705
10188	Brownsville	\$62,180,566	17.59%	\$10,937,562	\$64,045,983	17.07%	\$10,932,649
20188	Brownsville PUB	\$29,832,470	17.73%	\$5,289,297	\$30,727,444	17.45%	\$5,361,939
10190	Brownwood	\$10,155,361	13.51%	\$1,371,989	\$10,460,022	13.13%	\$1,373,401
30190	Brownwood Health Dept.	\$458,090	10.67%	\$48,878	\$471,833	9.95%	\$46,947
20190	Brownwood Public Library	\$173,162	4.71%	\$8,156	\$178,357	4.70%	\$8,383
195	Bruceville-Eddy	\$613,573	5.38%	\$33,010	\$630,139	5.24%	\$33,019
192	Bryan	\$57,780,345	15.22%	\$8,794,169	\$59,513,755	14.99%	\$8,921,112
193	Bryson	\$98,848	0.00%	\$0	\$101,813	0.00%	\$0
194	Buda	\$4,890,245	13.69%	\$669,475	\$5,036,952	13.94%	\$702,151
196	Buffalo	\$555,981	4.80%	\$26,687	\$572,660	4.82%	\$27,602
198	Bullard	\$1,145,001	7.82%	\$89,539	\$1,179,351	7.68%	\$90,574
203	Bulverde	\$1,453,746	9.54%	\$138,687	\$1,497,358	9.05%	\$135,511
199	Bunker Hill Village	\$626,350	10.85%	\$67,959	\$644,514	11.70%	\$75,408
200	Burkburnett	\$3,126,183	9.72%	\$303,865	\$3,219,968	10.14%	\$326,505
202	Burleson	\$22,290,825	15.40%	\$3,432,787	\$22,959,550	15.31%	\$3,515,107
204	Burnet	\$5,881,724	12.96%	\$762,271	\$6,058,176	13.06%	\$791,198
206	Burton	\$36,318	9.81%	\$3,563	\$37,408	10.09%	\$3,774
207	Cactus	\$1,711,326	5.00%	\$85,566	\$1,762,666	5.09%	\$89,720
208	Caddo Mills	\$566,627	6.19%	\$35,074	\$583,626	6.38%	\$37,235
210	Caldwell	\$2,213,961	9.25%	\$204,791	\$2,280,380	9.32%	\$212,531
212	Calvert	\$416,306	1.14%	\$4,746	\$428,795	1.04%	\$4,459
214	Cameron	\$1,757,163	9.94%	\$174,662	\$1,799,335	10.09%	\$181,553
216	Campbell	\$60,070	39.12%	\$23,499	\$61,872	41.81%	\$25,869
220	Canadian	\$1,040,968	15.25%	\$158,748	\$1,072,197	16.23%	\$174,018
221	Caney City	\$144,853	2.34%	\$3,390	\$149,199	1.91%	\$2,850
222	Canton	\$2,918,435	12.31%	\$359,259	\$3,005,988	12.08%	\$363,123
224	Canyon	\$5,083,008	16.34%	\$830,564	\$5,235,498	15.33%	\$802,602
227	Carmine	\$63,286	2.68%	\$1,696	\$64,552	2.67%	\$1,724
228	Carrizo Springs	\$1,367,205	5.51%	\$75,333	\$1,408,221	5.24%	\$73,791
230	Carrollton	\$56,485,201	12.38%	\$6,992,868	\$58,123,272	11.95%	\$6,945,731
232	Carthage	\$4,220,281	18.51%	\$781,174	\$4,346,889	18.76%	\$815,476
231	Castle Hills	\$3,767,772	11.57%	\$435,931	\$3,880,805	11.43%	\$443,576
234	Castroville	\$1,907,632	9.23%	\$176,074	\$1,962,953	9.06%	\$177,844
238	Cedar Hill	\$21,994,157	13.96%	\$3,070,384	\$22,653,982	13.71%	\$3,105,861
239	Cedar Park	\$28,394,158	14.23%	\$4,040,489	\$29,245,983	14.32%	\$4,188,025
240	Celeste	\$101,153	6.84%	\$6,919	\$104,188	7.60%	\$7,918
242	Celina	\$6,078,896	6.34%	\$385,402	\$6,261,263	6.34%	\$396,964
244	Center	\$3,260,165	15.14%	\$493,589	\$3,357,970	13.16%	\$441,909
246	Centerville	\$217,922	18.87%	\$41,122	\$224,460	20.95%	\$47,024
247	Chandler	\$1,021,651	4.65%	\$47,507	\$1,052,301	4.70%	\$49,458
248	Charlotte	\$340,519	7.52%	\$25,607	\$350,735	6.58%	\$23,078
249	Chester	\$33,243	1.80%	\$598	\$33,908	1.54%	\$522
245	Chico	\$239,672	3.27%	\$7,837	\$246,862	4.00%	\$9,874
250	Childress	\$2,150,284	15.31%	\$329,208	\$2,214,793	14.98%	\$331,776

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
251	Chillicothe	\$210,111	11.08%	\$23,280	\$216,414	9.78%	\$21,165
253	Chireno	\$279,070	19.63%	\$54,781	\$287,442	20.46%	\$58,811
254	Christine	\$31,962	0.00%	\$0	\$32,921	0.00%	\$0
255	Cibolo	\$6,554,454	12.68%	\$831,105	\$6,751,088	12.72%	\$858,738
256	Cisco	\$1,251,512	5.83%	\$72,963	\$1,289,057	6.56%	\$84,562
258	Clarendon	\$498,624	1.51%	\$7,529	\$513,583	1.47%	\$7,550
259	Clarksville	\$828,349	3.45%	\$28,578	\$853,199	2.19%	\$18,685
260	Clarksville City	\$194,632	2.98%	\$5,800	\$200,471	3.61%	\$7,237
263	Clear Lake Shores	\$957,939	11.17%	\$107,002	\$985,719	10.88%	\$107,246
264	Cleburne	\$15,433,177	15.85%	\$2,446,159	\$15,896,172	15.69%	\$2,494,109
266	Cleveland	\$3,380,449	10.68%	\$361,032	\$3,464,960	10.77%	\$373,176
268	Clifton	\$1,088,476	1.70%	\$18,504	\$1,121,130	1.76%	\$19,732
271	Clute	\$4,441,951	10.59%	\$470,403	\$4,566,326	10.25%	\$468,048
272	Clyde	\$1,175,233	12.57%	\$147,727	\$1,210,490	12.96%	\$156,880
274	Coahoma	\$247,263	5.81%	\$14,366	\$254,681	6.03%	\$15,357
276	Cockrell Hill	\$1,402,032	8.13%	\$113,985	\$1,444,093	8.18%	\$118,127
278	Coleman	\$2,747,130	16.26%	\$446,683	\$2,813,061	16.54%	\$465,280
280	College Station	\$55,755,838	13.38%	\$7,460,131	\$57,428,513	13.20%	\$7,580,564
281	Colleyville	\$13,198,520	8.82%	\$1,164,109	\$13,594,476	8.56%	\$1,163,687
282	Collinsville	\$324,038	5.30%	\$17,174	\$333,759	5.45%	\$18,190
283	Colmesneil	\$164,562	8.47%	\$13,938	\$169,499	8.41%	\$14,255
284	Colorado City	\$1,558,934	8.89%	\$138,589	\$1,604,143	8.39%	\$134,588
286	Columbus	\$1,791,681	13.84%	\$247,969	\$1,840,056	12.39%	\$227,983
288	Comanche	\$1,108,444	4.79%	\$53,094	\$1,141,697	4.72%	\$53,888
289	Combes	\$593,086	6.29%	\$37,305	\$610,879	6.75%	\$41,234
290	Commerce	\$2,862,390	8.90%	\$254,753	\$2,948,262	8.56%	\$252,371
294	Conroe	\$27,941,147	16.46%	\$4,599,113	\$28,779,381	16.17%	\$4,653,626
295	Converse	\$7,405,518	14.20%	\$1,051,584	\$7,627,684	13.75%	\$1,048,807
298	Cooper	\$424,841	5.19%	\$22,049	\$437,586	4.93%	\$21,573
299	Coppell	\$28,875,257	15.55%	\$4,490,102	\$29,741,515	15.53%	\$4,618,857
297	Copper Canyon	\$204,979	10.44%	\$21,400	\$211,128	10.94%	\$23,097
300	Copperas Cove	\$12,108,567	12.34%	\$1,494,197	\$12,471,824	11.96%	\$1,491,630
301	Corinth	\$9,580,026	15.80%	\$1,513,644	\$9,867,427	15.30%	\$1,509,716
302	Corpus Christi	\$129,827,363	11.10%	\$14,410,837	\$132,813,392	9.57%	\$12,710,242
304	Corrigan	\$1,030,540	4.13%	\$42,561	\$1,061,456	3.83%	\$40,654
306	Corsicana	\$9,571,484	15.41%	\$1,474,966	\$9,762,914	15.51%	\$1,514,228
308	Cotulla	\$1,354,315	6.60%	\$89,385	\$1,394,944	6.67%	\$93,043
311	Covington	\$25,918	9.34%	\$2,421	\$26,696	2.60%	\$694
310	Crandall	\$1,312,096	10.81%	\$141,838	\$1,351,459	10.68%	\$144,336
312	Crane	\$1,223,742	10.03%	\$122,741	\$1,260,454	8.86%	\$111,676
314	Crawford	\$189,773	0.88%	\$1,670	\$195,466	0.98%	\$1,916
316	Crockett	\$2,215,947	8.63%	\$191,236	\$2,282,425	8.10%	\$184,876
318	Crosbyton	\$317,012	4.71%	\$14,931	\$326,522	4.87%	\$15,902
320	Cross Plains	\$409,811	8.83%	\$36,186	\$422,105	8.39%	\$35,415
321	Cross Roads	\$477,770	7.43%	\$35,498	\$492,103	7.37%	\$36,268

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
323	Crowley	\$5,771,849	10.63%	\$613,548	\$5,945,004	10.77%	\$640,277
324	Crystal City	\$1,393,570	1.36%	\$18,953	\$1,431,196	0.85%	\$12,165
326	Cuero	\$4,820,457	10.38%	\$500,363	\$4,965,071	10.34%	\$513,388
328	Cumby	\$394,503	1.96%	\$7,732	\$406,338	2.18%	\$8,858
332	Daingerfield	\$800,809	6.91%	\$55,336	\$824,833	6.14%	\$50,645
334	Daisetta	\$259,907	1.45%	\$3,769	\$265,105	1.26%	\$3,340
336	Dalhart	\$2,800,282	4.65%	\$130,213	\$2,884,290	4.68%	\$134,985
339	Dalworthington Gardens	\$1,712,437	21.09%	\$361,153	\$1,763,810	21.36%	\$376,750
340	Danbury	\$454,342	6.63%	\$30,123	\$467,972	6.15%	\$28,780
341	Darrouzett	\$90,570	2.38%	\$2,156	\$93,287	1.97%	\$1,838
344	Dayton	\$4,169,526	7.30%	\$304,375	\$4,294,612	7.28%	\$312,648
352	De Leon	\$493,691	1.64%	\$8,097	\$503,565	1.52%	\$7,654
10366	DeSoto	\$23,752,222	11.23%	\$2,667,375	\$24,464,789	10.93%	\$2,674,001
346	Decatur	\$6,002,596	15.02%	\$901,590	\$6,182,674	14.65%	\$905,762
348	Deer Park	\$19,709,545	14.44%	\$2,846,058	\$20,300,831	14.10%	\$2,862,417
350	Dekalb	\$532,473	2.97%	\$15,814	\$546,850	3.03%	\$16,570
354	Del Rio	\$19,605,448	7.43%	\$1,456,685	\$20,193,611	7.44%	\$1,502,405
353	Dell City	\$75,560	10.62%	\$8,024	\$77,071	10.35%	\$7,977
356	Denison	\$10,920,605	12.74%	\$1,391,285	\$11,248,223	12.17%	\$1,368,909
358	Denton	\$88,147,999	17.13%	\$15,099,752	\$90,792,439	17.00%	\$15,434,715
360	Denver City	\$1,407,929	12.87%	\$181,200	\$1,444,535	11.30%	\$163,232
362	Deport	\$84,826	3.49%	\$2,960	\$87,371	3.18%	\$2,778
370	Devine	\$1,771,333	16.13%	\$285,716	\$1,824,473	16.41%	\$299,396
371	Diboll	\$1,936,010	14.66%	\$283,819	\$1,986,346	14.04%	\$278,883
372	Dickens	\$73,679	1.85%	\$1,363	\$75,889	2.51%	\$1,905
373	Dickinson	\$5,639,771	9.46%	\$533,522	\$5,808,964	8.89%	\$516,417
374	Dilley	\$1,313,985	8.19%	\$107,615	\$1,353,405	7.99%	\$108,137
376	Dimmitt	\$1,059,383	4.81%	\$50,956	\$1,091,164	3.72%	\$40,591
382	Donna	\$4,950,041	8.25%	\$408,378	\$5,098,542	8.61%	\$438,984
379	Double Oak	\$724,210	5.79%	\$41,932	\$745,936	5.47%	\$40,803
383	Dripping Springs	\$1,047,322	6.92%	\$72,475	\$1,078,742	6.36%	\$68,608
385	Driscoll	\$364,131	2.34%	\$8,521	\$375,055	1.93%	\$7,239
384	Dublin	\$1,405,282	12.48%	\$175,379	\$1,447,440	12.43%	\$179,917
386	Dumas	\$5,792,456	6.08%	\$352,181	\$5,966,230	5.53%	\$329,933
388	Duncanville	\$16,907,621	7.23%	\$1,222,421	\$17,414,850	7.65%	\$1,332,236
394	Eagle Lake	\$1,200,328	9.03%	\$108,390	\$1,233,937	9.31%	\$114,880
396	Eagle Pass	\$16,495,919	8.77%	\$1,446,692	\$16,990,797	8.40%	\$1,427,227
397	Early	\$1,151,758	3.41%	\$39,275	\$1,186,311	3.48%	\$41,284
399	Earth	\$167,466	5.53%	\$9,261	\$172,490	5.06%	\$8,728
393	East Bernard	\$128,911	5.43%	\$7,000	\$132,778	5.37%	\$7,130
401	East Mountain	\$83,293	14.30%	\$11,911	\$85,792	11.70%	\$10,038
395	East Tawakoni	\$295,231	6.24%	\$18,422	\$304,088	5.89%	\$17,911
398	Eastland	\$1,725,515	9.52%	\$164,269	\$1,777,280	9.12%	\$162,088
402	Ector	\$176,482	2.03%	\$3,583	\$181,776	2.00%	\$3,636
406	Eden	\$356,624	3.35%	\$11,947	\$363,756	2.86%	\$10,403

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
408	Edgewood	\$379,578	3.31%	\$12,564	\$387,170	3.03%	\$11,731
410	Edinburg	\$36,301,995	14.34%	\$5,205,706	\$37,391,055	14.24%	\$5,324,486
412	Edna	\$1,692,726	11.72%	\$198,387	\$1,743,508	10.81%	\$188,473
414	El Campo	\$5,664,682	11.10%	\$628,780	\$5,834,622	10.60%	\$618,470
416	Eldorado	\$761,026	7.33%	\$55,783	\$783,857	7.21%	\$56,516
418	Electra	\$1,004,447	2.17%	\$21,796	\$1,028,554	2.24%	\$23,040
420	Elgin	\$4,036,027	14.27%	\$575,941	\$4,157,108	13.96%	\$580,332
422	Elkhart	\$256,496	5.76%	\$14,774	\$264,191	5.04%	\$13,315
427	Elmendorf	\$580,631	1.53%	\$8,884	\$598,050	1.45%	\$8,672
432	Emory	\$924,211	4.71%	\$43,530	\$951,937	4.50%	\$42,837
436	Ennis	\$11,310,606	17.49%	\$1,978,225	\$11,649,924	16.90%	\$1,968,837
439	Eules	\$29,311,759	17.80%	\$5,217,493	\$30,191,112	17.51%	\$5,286,464
440	Eustace	\$291,636	8.38%	\$24,439	\$300,385	8.88%	\$26,674
441	Everman	\$2,142,206	9.28%	\$198,797	\$2,206,472	9.56%	\$210,939
443	Fair Oaks Ranch	\$2,872,344	12.05%	\$346,117	\$2,958,514	11.72%	\$346,738
442	Fairfield	\$1,581,478	8.31%	\$131,421	\$1,628,922	8.09%	\$131,780
445	Fairview	\$4,745,068	10.82%	\$513,416	\$4,887,420	10.66%	\$520,999
20444	Falfurrias	\$1,865,467	3.29%	\$61,374	\$1,921,431	3.31%	\$63,599
446	Falls City	\$144,893	9.74%	\$14,113	\$149,240	7.63%	\$11,387
448	Farmers Branch	\$29,250,938	18.59%	\$5,437,749	\$30,040,713	18.49%	\$5,554,528
450	Farmersville	\$2,079,848	8.52%	\$177,203	\$2,142,243	8.57%	\$183,590
451	Farwell	\$293,741	15.17%	\$44,561	\$302,553	14.32%	\$43,326
452	Fate	\$2,815,967	9.87%	\$277,936	\$2,900,446	9.90%	\$287,144
454	Fayetteville	\$84,149	1.53%	\$1,287	\$86,673	2.97%	\$2,574
456	Ferris	\$1,709,551	5.87%	\$100,351	\$1,760,838	5.31%	\$93,500
458	Flaton	\$938,040	17.46%	\$163,782	\$966,181	15.66%	\$151,304
460	Florence	\$335,746	4.22%	\$14,168	\$345,818	4.25%	\$14,697
20462	Floresville	\$3,094,316	10.69%	\$330,782	\$3,174,768	10.55%	\$334,938
463	Flower Mound	\$37,136,622	10.56%	\$3,921,627	\$38,250,721	10.67%	\$4,081,352
464	Floydata	\$1,055,367	10.96%	\$115,668	\$1,080,696	10.09%	\$109,042
468	Forest Hill	\$4,969,992	13.32%	\$662,003	\$5,119,092	13.35%	\$683,399
470	Forney	\$8,801,529	13.24%	\$1,165,322	\$9,065,575	13.47%	\$1,221,133
472	Fort Stockton	\$5,557,292	10.35%	\$575,180	\$5,724,011	9.97%	\$570,684
476	Franklin	\$562,364	3.08%	\$17,321	\$579,235	3.24%	\$18,767
478	Frankston	\$488,114	2.23%	\$10,885	\$502,757	1.46%	\$7,340
480	Fredericksburg	\$9,980,187	9.60%	\$958,098	\$10,279,593	9.59%	\$985,813
482	Freeport	\$6,459,970	14.25%	\$920,546	\$6,653,769	13.65%	\$908,239
481	Freer	\$619,298	7.04%	\$43,599	\$637,877	7.05%	\$44,970
483	Friendswood	\$14,344,031	15.74%	\$2,257,750	\$14,774,352	15.69%	\$2,318,096
484	Friona	\$929,238	13.13%	\$122,009	\$950,610	9.13%	\$86,791
486	Frisco	\$83,759,010	14.13%	\$11,835,148	\$86,271,780	14.21%	\$12,259,220
487	Fritch	\$751,307	2.56%	\$19,233	\$773,846	2.88%	\$22,287
488	Frost	\$104,839	4.58%	\$4,802	\$107,984	5.58%	\$6,026
491	Fulshear	\$2,802,743	7.62%	\$213,569	\$2,886,825	7.93%	\$228,925
493	Fulton	\$264,430	17.88%	\$47,280	\$272,363	19.15%	\$52,158

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
492	Gainesville	\$11,345,149	9.58%	\$1,086,865	\$11,617,433	9.19%	\$1,067,642
494	Galena Park	\$3,710,437	13.19%	\$489,407	\$3,784,646	12.32%	\$466,268
498	Ganado	\$494,867	13.78%	\$68,193	\$507,239	13.59%	\$68,934
499	Garden Ridge	\$1,610,930	7.84%	\$126,297	\$1,659,258	7.76%	\$128,758
500	Garland	\$148,985,462	11.06%	\$16,477,792	\$153,455,026	10.79%	\$16,557,797
502	Garrison	\$338,518	17.85%	\$60,425	\$345,288	18.74%	\$64,707
503	Gary	\$218,357	7.10%	\$15,503	\$222,724	7.10%	\$15,813
504	Gatesville	\$3,741,618	15.49%	\$579,577	\$3,853,867	15.05%	\$580,007
505	George West	\$1,194,095	5.97%	\$71,287	\$1,229,918	6.16%	\$75,763
506	Georgetown	\$44,747,625	12.41%	\$5,553,180	\$46,090,054	12.23%	\$5,636,814
510	Giddings	\$2,859,383	19.36%	\$553,577	\$2,945,164	18.83%	\$554,574
512	Gilmer	\$2,236,489	13.73%	\$307,070	\$2,303,584	13.66%	\$314,670
514	Gladewater	\$2,657,786	3.31%	\$87,973	\$2,737,520	2.56%	\$70,081
516	Glen Rose	\$1,282,401	14.82%	\$190,052	\$1,320,873	14.57%	\$192,451
517	Glenn Heights	\$3,959,755	3.59%	\$142,155	\$4,078,548	3.13%	\$127,659
518	Godley	\$497,238	2.23%	\$11,088	\$512,155	2.53%	\$12,958
519	Goldsmith	\$213,853	4.40%	\$9,410	\$220,269	3.62%	\$7,974
520	Goldthwaite	\$719,108	23.68%	\$170,285	\$740,681	22.25%	\$164,802
522	Goliad	\$559,318	2.33%	\$13,032	\$572,742	2.19%	\$12,543
524	Gonzales	\$4,918,434	10.69%	\$525,781	\$5,065,987	10.68%	\$541,047
530	Gorman	\$243,149	10.94%	\$26,601	\$250,443	8.55%	\$21,413
532	Graford	\$128,632	2.89%	\$3,717	\$132,491	2.88%	\$3,816
10534	Graham	\$3,929,688	11.30%	\$444,055	\$4,012,211	10.44%	\$418,875
536	Granbury	\$8,156,484	16.14%	\$1,316,457	\$8,401,179	15.97%	\$1,341,668
540	Grand Prairie	\$92,249,384	16.12%	\$14,870,601	\$95,016,866	15.91%	\$15,117,183
542	Grand Saline	\$878,505	4.74%	\$41,641	\$896,075	4.23%	\$37,904
544	Grandview	\$769,369	6.43%	\$49,470	\$792,450	6.19%	\$49,053
546	Granger	\$350,491	0.56%	\$1,963	\$357,501	0.65%	\$2,324
547	Granite Shoals	\$1,773,765	5.03%	\$89,220	\$1,826,978	5.01%	\$91,532
548	Grapeland	\$288,434	4.38%	\$12,633	\$297,087	3.72%	\$11,052
550	Grapevine	\$43,703,242	18.98%	\$8,294,875	\$45,014,339	18.58%	\$8,363,664
552	Greenville	\$18,782,227	11.38%	\$2,137,417	\$19,345,694	10.80%	\$2,089,335
551	Gregory	\$441,509	4.32%	\$19,073	\$454,754	4.09%	\$18,599
553	Grey Forest	\$2,742,657	15.05%	\$412,770	\$2,824,937	15.38%	\$434,475
556	Groesbeck	\$1,248,700	2.51%	\$31,342	\$1,286,161	2.50%	\$32,154
558	Groom	\$175,804	3.22%	\$5,661	\$181,078	2.90%	\$5,251
559	Groves	\$6,498,991	9.57%	\$621,953	\$6,693,961	9.32%	\$623,877
560	Groveton	\$245,305	1.87%	\$4,587	\$252,664	1.99%	\$5,028
562	Gruver	\$245,746	9.71%	\$23,862	\$250,661	11.96%	\$29,979
563	Gun Barrel City	\$1,706,220	6.37%	\$108,686	\$1,757,407	5.10%	\$89,628
564	Gunter	\$361,999	3.10%	\$11,222	\$372,859	3.96%	\$14,765
568	Hale Center	\$428,449	1.91%	\$8,183	\$441,302	1.96%	\$8,650
570	Hallettsville	\$1,516,202	12.59%	\$190,890	\$1,561,688	11.77%	\$183,811
572	Hallsville	\$741,942	3.00%	\$22,258	\$764,200	3.02%	\$23,079
574	Haltom City	\$17,256,507	18.98%	\$3,275,285	\$17,774,202	18.84%	\$3,348,660

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
576	Hamilton	\$945,354	18.68%	\$176,592	\$973,715	17.88%	\$174,100
578	Hamlin	\$562,975	13.11%	\$73,806	\$574,235	13.93%	\$79,991
580	Happy	\$89,915	18.60%	\$16,724	\$92,343	8.33%	\$7,692
581	Harker Heights	\$12,204,192	14.91%	\$1,819,645	\$12,570,318	14.89%	\$1,871,720
10582	Harlingen	\$9,915,947	11.40%	\$1,130,418	\$9,915,947	10.49%	\$1,040,183
20582	Harlingen Waterworks Sys	\$6,268,591	1.88%	\$117,850	\$6,456,649	1.87%	\$120,739
583	Hart	\$143,835	4.02%	\$5,782	\$146,712	3.93%	\$5,766
586	Haskell	\$738,095	0.00%	\$0	\$760,238	0.00%	\$0
587	Haslet	\$1,302,002	8.59%	\$111,842	\$1,341,062	8.79%	\$117,879
588	Hawkins	\$439,534	14.62%	\$64,260	\$450,083	14.79%	\$66,567
585	Hays	\$16,894	5.46%	\$922	\$17,232	3.20%	\$551
590	Hearne	\$2,192,725	15.36%	\$336,803	\$2,258,507	15.08%	\$340,583
591	Heath	\$3,735,325	11.17%	\$417,236	\$3,847,385	11.14%	\$428,599
592	Hedley	\$59,406	4.16%	\$2,471	\$60,594	4.12%	\$2,496
595	Hedwig Village	\$2,025,209	7.23%	\$146,423	\$2,079,890	7.22%	\$150,168
593	Helotes	\$3,714,397	6.80%	\$252,579	\$3,825,829	6.57%	\$251,357
594	Hemphill	\$1,159,729	7.99%	\$92,662	\$1,194,521	7.78%	\$92,934
596	Hempstead	\$3,560,483	8.00%	\$284,839	\$3,667,297	7.90%	\$289,716
598	Henderson	\$6,250,521	16.16%	\$1,010,084	\$6,438,037	15.15%	\$975,363
600	Henrietta	\$687,875	14.64%	\$100,705	\$708,511	14.80%	\$104,860
602	Hereford	\$5,237,981	10.61%	\$555,750	\$5,395,120	10.56%	\$569,725
605	Hewitt	\$4,751,519	15.93%	\$756,917	\$4,894,065	15.76%	\$771,305
609	Hickory Creek	\$1,126,695	11.92%	\$134,302	\$1,153,736	12.07%	\$139,256
606	Hico	\$447,278	5.38%	\$24,064	\$457,565	4.83%	\$22,100
607	Hidalgo	\$6,075,635	12.56%	\$763,100	\$6,257,904	12.73%	\$796,631
608	Higgins	\$117,185	3.83%	\$4,488	\$120,701	3.46%	\$4,176
610	Highland Park	\$12,449,142	4.84%	\$602,538	\$12,822,616	5.34%	\$684,728
611	Highland Village	\$10,209,145	13.55%	\$1,383,339	\$10,515,419	13.35%	\$1,403,808
613	Hill Country Village	\$808,134	3.72%	\$30,063	\$830,762	3.71%	\$30,821
612	Hillsboro	\$4,742,841	11.46%	\$543,530	\$4,885,126	11.05%	\$539,806
619	Hilshire Village	\$106,729	15.87%	\$16,938	\$109,931	12.99%	\$14,280
614	Hitchcock	\$2,399,215	4.13%	\$99,088	\$2,471,191	4.23%	\$104,531
615	Holland	\$269,963	8.11%	\$21,894	\$277,522	8.00%	\$22,202
616	Holliday	\$418,067	2.81%	\$11,748	\$430,609	2.72%	\$11,713
617	Hollywood Park	\$1,951,218	8.98%	\$175,219	\$2,009,755	8.80%	\$176,858
618	Hondo	\$4,393,931	8.98%	\$394,575	\$4,525,749	8.38%	\$379,258
620	Honey Grove	\$446,554	8.44%	\$37,689	\$459,951	7.75%	\$35,646
622	Hooks	\$546,652	13.49%	\$73,743	\$563,052	13.49%	\$75,956
626	Howe	\$704,498	5.69%	\$40,086	\$718,588	5.42%	\$38,947
627	Hubbard	\$415,159	0.59%	\$2,449	\$425,953	0.79%	\$3,365
628	Hudson	\$676,650	4.44%	\$30,043	\$696,950	4.36%	\$30,387
629	Hudson Oaks	\$1,418,461	12.73%	\$180,570	\$1,461,015	11.96%	\$174,737
630	Hughes Springs	\$620,817	14.70%	\$91,260	\$635,096	9.08%	\$57,667
632	Humble	\$14,846,390	13.59%	\$2,017,624	\$15,291,782	13.43%	\$2,053,686
633	Hunters Creek Village	\$486,713	14.74%	\$71,741	\$501,314	15.44%	\$77,403

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
634	Huntington	\$772,534	14.29%	\$110,395	\$794,165	14.12%	\$112,136
636	Huntsville	\$13,702,860	18.27%	\$2,503,513	\$14,086,540	18.37%	\$2,587,697
637	Hurst	\$27,125,053	10.85%	\$2,943,068	\$27,938,805	10.85%	\$3,031,360
638	Hutchins	\$3,403,671	8.38%	\$285,228	\$3,505,781	8.70%	\$305,003
640	Hutto	\$6,714,939	12.92%	\$867,570	\$6,916,387	12.09%	\$836,191
641	Huxley	\$358,328	1.48%	\$5,303	\$366,211	1.26%	\$4,614
642	Idalou	\$595,776	4.45%	\$26,512	\$613,649	4.35%	\$26,694
643	Ingleside	\$3,549,777	11.05%	\$392,250	\$3,656,270	9.87%	\$360,874
646	Ingram	\$506,908	5.67%	\$28,742	\$522,115	5.74%	\$29,969
647	Iowa Colony	\$298,848	22.49%	\$67,211	\$307,813	19.31%	\$59,439
644	Iowa Park	\$1,819,018	15.13%	\$275,217	\$1,873,589	14.69%	\$275,230
645	Iraan	\$266,149	16.22%	\$43,169	\$274,133	16.81%	\$46,082
648	Irving	\$104,702,009	14.40%	\$15,077,089	\$107,528,963	14.34%	\$15,419,653
650	Italy	\$616,510	2.59%	\$15,968	\$635,005	3.09%	\$19,622
652	Itasca	\$641,439	10.67%	\$68,442	\$660,682	10.37%	\$68,513
654	Jacinto City	\$2,750,950	7.57%	\$208,247	\$2,833,479	7.78%	\$220,445
656	Jacksboro	\$1,815,837	14.03%	\$254,762	\$1,870,312	14.25%	\$266,519
658	Jacksonville	\$6,176,655	11.08%	\$684,373	\$6,349,601	10.76%	\$683,217
660	Jasper	\$5,605,538	9.52%	\$533,647	\$5,773,704	8.94%	\$516,169
664	Jefferson	\$735,953	1.69%	\$12,438	\$750,672	1.22%	\$9,158
665	Jersey Village	\$5,360,367	15.04%	\$806,199	\$5,521,178	14.73%	\$813,270
666	Jewett	\$295,608	9.11%	\$26,930	\$304,476	9.32%	\$28,377
668	Joaquin	\$208,538	5.26%	\$10,969	\$214,794	4.67%	\$10,031
670	Johnson City	\$803,450	10.07%	\$80,907	\$825,143	10.09%	\$83,257
673	Jones Creek	\$238,889	7.38%	\$17,630	\$246,056	6.44%	\$15,846
675	Jonestown	\$1,242,074	7.15%	\$88,808	\$1,279,336	7.00%	\$89,554
677	Josephine	\$301,991	6.67%	\$20,143	\$311,051	6.35%	\$19,752
671	Joshua	\$1,708,781	5.94%	\$101,502	\$1,760,044	5.97%	\$105,075
672	Jourdanton	\$1,542,877	6.21%	\$95,813	\$1,589,163	6.04%	\$95,985
674	Junction	\$729,585	14.44%	\$105,352	\$751,473	14.71%	\$110,542
676	Justin	\$1,568,552	9.12%	\$143,052	\$1,615,609	7.66%	\$123,756
678	Karnes City	\$1,394,637	5.20%	\$72,521	\$1,436,476	5.23%	\$75,128
680	Katy	\$12,437,687	14.28%	\$1,776,102	\$12,810,818	14.05%	\$1,799,920
682	Kaufman	\$3,090,158	9.33%	\$288,312	\$3,182,863	9.30%	\$296,006
683	Keene	\$2,501,421	11.61%	\$290,415	\$2,576,464	12.02%	\$309,691
681	Keller	\$19,475,120	15.51%	\$3,020,591	\$20,059,374	15.45%	\$3,099,173
685	Kemah	\$2,155,191	6.98%	\$150,432	\$2,204,760	7.04%	\$155,215
684	Kemp	\$656,834	4.32%	\$28,375	\$669,971	5.04%	\$33,767
686	Kenedy	\$2,069,235	4.46%	\$92,288	\$2,131,312	4.23%	\$90,154
688	Kennedale	\$4,190,255	13.87%	\$581,188	\$4,295,011	13.85%	\$594,859
690	Kerens	\$394,106	8.28%	\$32,632	\$405,929	8.32%	\$33,773
692	Kermit	\$2,244,543	15.55%	\$349,026	\$2,311,879	16.16%	\$373,600
10694	Kerrville	\$17,025,434	9.94%	\$1,692,328	\$17,536,197	10.05%	\$1,762,388
20694	Kerrville PUB	\$4,126,065	12.27%	\$506,268	\$4,249,847	12.04%	\$511,682
10696	Kilgore	\$7,739,989	15.05%	\$1,164,868	\$7,972,189	14.21%	\$1,132,848

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
698	Killeen	\$47,284,261	9.42%	\$4,454,177	\$48,702,789	9.91%	\$4,826,446
700	Kingsville	\$11,809,455	8.79%	\$1,038,051	\$12,163,739	8.68%	\$1,055,813
701	Kirby	\$2,119,625	14.43%	\$305,862	\$2,183,214	14.65%	\$319,841
702	Kirbyville	\$854,226	5.51%	\$47,068	\$872,165	5.46%	\$47,620
704	Knox City	\$331,432	2.76%	\$9,148	\$341,375	2.58%	\$8,807
706	Kosse	\$130,074	4.61%	\$5,996	\$133,976	5.18%	\$6,940
708	Kountze	\$932,771	1.43%	\$13,339	\$960,754	1.33%	\$12,778
709	Kress	\$36,671	0.00%	\$0	\$37,404	0.00%	\$0
699	Krugerville	\$617,427	8.28%	\$51,123	\$635,950	8.62%	\$54,819
707	Krum	\$1,563,884	5.76%	\$90,080	\$1,610,801	5.73%	\$92,299
710	Kyle	\$10,621,057	12.41%	\$1,318,073	\$10,939,689	12.49%	\$1,366,367
725	La Coste	\$317,406	1.40%	\$4,444	\$326,928	1.48%	\$4,839
714	La Feria	\$2,085,724	10.76%	\$224,424	\$2,148,296	11.05%	\$237,387
716	La Grange	\$2,905,258	15.27%	\$443,633	\$2,992,416	14.83%	\$443,775
723	La Grulla	\$726,049	5.58%	\$40,514	\$744,926	5.64%	\$42,014
732	La Joya	\$1,245,759	6.05%	\$75,368	\$1,283,132	6.21%	\$79,682
721	La Marque	\$5,960,648	14.69%	\$875,619	\$6,115,625	14.79%	\$904,501
728	La Porte	\$23,284,618	16.11%	\$3,751,152	\$23,983,157	15.53%	\$3,724,584
731	La Vernia	\$637,527	3.04%	\$19,381	\$656,653	3.28%	\$21,538
711	Lacy-Lakeview	\$2,098,190	14.44%	\$302,979	\$2,161,136	14.36%	\$310,339
712	Ladonia	\$46,950	3.28%	\$1,540	\$48,359	4.54%	\$2,195
713	Lago Vista	\$4,095,068	7.84%	\$321,053	\$4,217,920	7.77%	\$327,732
705	Laguna Vista	\$708,278	5.19%	\$36,760	\$729,526	4.55%	\$33,193
717	Lake Dallas	\$1,831,330	13.46%	\$246,497	\$1,886,270	12.54%	\$236,538
718	Lake Jackson	\$11,546,629	12.14%	\$1,401,761	\$11,893,028	11.98%	\$1,424,785
719	Lake Worth	\$5,069,658	13.35%	\$676,799	\$5,221,748	13.29%	\$693,970
727	Lakeport	\$207,016	0.00%	\$0	\$213,226	0.00%	\$0
715	Lakeside	\$727,357	7.85%	\$57,098	\$749,178	8.13%	\$60,908
729	Lakeside City	\$184,828	2.34%	\$4,325	\$190,373	2.47%	\$4,702
720	Lakeway	\$6,720,749	13.74%	\$923,431	\$6,922,371	13.92%	\$963,594
722	Lamesa	\$3,334,005	4.63%	\$154,364	\$3,414,021	4.45%	\$151,924
724	Lampasas	\$5,376,057	14.82%	\$796,732	\$5,537,339	15.24%	\$843,890
726	Lancaster	\$16,234,919	13.46%	\$2,185,220	\$16,721,967	13.39%	\$2,239,071
730	Laredo	\$110,832,076	20.87%	\$23,130,654	\$114,157,038	20.78%	\$23,721,832
733	Lavon	\$878,724	5.62%	\$49,384	\$905,086	5.28%	\$47,789
736	League City	\$32,247,039	15.11%	\$4,872,528	\$33,214,450	15.05%	\$4,998,775
737	Leander	\$16,406,863	12.44%	\$2,041,014	\$16,899,069	12.23%	\$2,066,756
735	Lefors	\$123,381	3.59%	\$4,429	\$127,082	3.94%	\$5,007
739	Leon Valley	\$5,619,200	13.22%	\$742,858	\$5,787,776	13.25%	\$766,880
738	Leonard	\$630,004	2.26%	\$14,238	\$648,904	1.93%	\$12,524
740	Levelland	\$5,149,363	12.33%	\$634,916	\$5,303,844	11.69%	\$620,019
742	Lewisville	\$52,994,202	16.29%	\$8,632,756	\$54,584,028	16.28%	\$8,886,280
744	Lexington	\$481,412	8.41%	\$40,487	\$495,854	8.55%	\$42,396
746	Liberty	\$4,575,110	18.74%	\$857,376	\$4,684,913	17.83%	\$835,320
745	Liberty Hill	\$1,128,602	7.06%	\$79,679	\$1,162,460	6.87%	\$79,861

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
748	Lindale	\$2,522,718	14.22%	\$358,730	\$2,598,400	14.61%	\$379,626
750	Linden	\$535,561	1.45%	\$7,766	\$551,628	1.23%	\$6,785
755	Lipan	\$145,172	2.48%	\$3,600	\$149,527	2.46%	\$3,678
751	Little Elm	\$14,653,380	13.41%	\$1,965,018	\$15,092,981	13.18%	\$1,989,255
752	Littlefield	\$2,270,994	9.69%	\$220,059	\$2,330,040	9.25%	\$215,529
753	Live Oak	\$6,624,877	17.77%	\$1,177,241	\$6,823,623	17.95%	\$1,224,840
757	Liverpool	\$143,701	2.65%	\$3,808	\$148,012	2.68%	\$3,967
754	Livingston	\$4,179,519	16.48%	\$688,785	\$4,304,905	14.81%	\$637,556
756	Llano	\$2,249,603	14.59%	\$328,217	\$2,301,344	14.67%	\$337,607
758	Lockhart	\$6,226,203	13.21%	\$822,481	\$6,375,632	13.00%	\$828,832
760	Lockney	\$153,940	0.00%	\$0	\$157,019	0.00%	\$0
765	Lone Star	\$440,300	2.28%	\$10,039	\$449,106	2.13%	\$9,566
766	Longview	\$34,601,992	10.91%	\$3,775,077	\$35,640,052	10.75%	\$3,831,306
768	Lorraine	\$99,495	2.51%	\$2,497	\$102,480	2.63%	\$2,695
769	Lorena	\$627,140	6.80%	\$42,646	\$645,954	6.67%	\$43,085
770	Lorenzo	\$272,874	3.02%	\$8,241	\$281,060	2.04%	\$5,734
771	Los Fresnos	\$2,002,604	3.11%	\$62,281	\$2,062,682	3.21%	\$66,212
773	Lott	\$323,857	1.53%	\$4,955	\$333,573	1.20%	\$4,003
774	Lovelady	\$120,183	8.66%	\$10,408	\$123,788	8.95%	\$11,079
778	Lubbock	\$101,652,300	18.05%	\$18,348,240	\$104,701,869	17.71%	\$18,542,701
779	Lucas	\$2,102,495	13.43%	\$282,365	\$2,165,570	12.83%	\$277,843
782	Lufkin	\$17,202,581	16.64%	\$2,862,509	\$17,718,658	16.34%	\$2,895,229
784	Luling	\$3,176,698	9.37%	\$297,657	\$3,271,999	9.30%	\$304,296
785	Lumberton	\$2,261,760	16.90%	\$382,237	\$2,329,613	16.59%	\$386,483
786	Lyford	\$447,635	4.62%	\$20,681	\$461,064	4.21%	\$19,411
787	Lytle	\$1,106,905	9.62%	\$106,484	\$1,140,112	9.74%	\$111,047
790	Madisonville	\$1,619,293	9.40%	\$152,214	\$1,667,872	9.17%	\$152,944
791	Magnolia	\$1,552,152	1.82%	\$28,249	\$1,598,717	1.67%	\$26,699
792	Malakoff	\$1,268,535	6.90%	\$87,529	\$1,306,591	7.46%	\$97,472
796	Manor	\$3,465,679	4.27%	\$147,984	\$3,569,649	4.24%	\$151,353
798	Mansfield	\$35,811,284	14.94%	\$5,350,206	\$36,885,623	14.95%	\$5,514,401
799	Manvel	\$2,346,016	12.44%	\$291,844	\$2,416,396	11.60%	\$280,302
800	Marble Falls	\$6,521,464	5.49%	\$358,028	\$6,717,108	5.78%	\$388,249
802	Marfa	\$1,387,302	2.21%	\$30,659	\$1,428,921	2.69%	\$38,438
804	Marion	\$517,785	5.75%	\$29,773	\$533,319	5.20%	\$27,733
806	Marlin	\$1,868,103	9.40%	\$175,602	\$1,905,465	8.91%	\$169,777
810	Marshall	\$8,468,955	16.84%	\$1,426,172	\$8,680,679	16.17%	\$1,403,666
812	Mart	\$485,848	1.68%	\$8,162	\$500,423	1.63%	\$8,157
813	Martindale	\$101,204	12.90%	\$13,055	\$104,240	13.33%	\$13,895
814	Mason	\$1,231,993	6.84%	\$84,268	\$1,268,953	6.90%	\$87,558
816	Matador	\$155,500	6.80%	\$10,574	\$160,165	6.38%	\$10,219
818	Mathis	\$2,048,826	4.40%	\$90,148	\$2,110,291	4.31%	\$90,954
820	Maud	\$231,535	3.62%	\$8,382	\$238,481	3.62%	\$8,633
822	Maypearl	\$204,386	2.22%	\$4,537	\$210,518	2.70%	\$5,684
824	McAllen	\$73,211,950	7.71%	\$5,644,641	\$75,408,309	7.76%	\$5,851,685

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
826	McCamey	\$612,867	1.45%	\$8,887	\$631,253	1.64%	\$10,353
828	McGregor	\$2,584,504	10.36%	\$267,755	\$2,662,039	9.87%	\$262,743
830	McKinney	\$73,851,686	15.36%	\$11,343,619	\$76,067,237	15.07%	\$11,463,333
832	McLean	\$238,758	2.27%	\$5,420	\$245,921	2.18%	\$5,361
833	McLendon-Chisholm	\$148,533	9.48%	\$14,081	\$152,989	8.53%	\$13,050
834	Meadow	\$143,883	4.56%	\$6,561	\$148,199	4.56%	\$6,758
831	Meadowlakes	\$817,719	2.34%	\$19,135	\$842,251	2.41%	\$20,298
835	Meadows Place	\$1,576,887	8.66%	\$136,558	\$1,614,732	8.81%	\$142,258
837	Melissa	\$2,594,232	13.39%	\$347,368	\$2,672,059	13.10%	\$350,040
1501	Memorial Villages PD	\$3,377,913	11.02%	\$372,246	\$3,479,250	11.03%	\$383,761
840	Memphis	\$579,913	3.88%	\$22,501	\$593,251	3.52%	\$20,882
842	Menard	\$269,202	0.00%	\$0	\$275,663	0.00%	\$0
844	Mercedes	\$4,442,283	18.60%	\$826,265	\$4,575,551	18.12%	\$829,090
846	Meridian	\$412,282	3.34%	\$13,770	\$424,650	3.16%	\$13,419
848	Merkel	\$510,296	13.66%	\$69,706	\$525,605	11.69%	\$61,443
852	Mertzon	\$157,469	11.94%	\$18,802	\$162,193	13.21%	\$21,426
854	Mesquite	\$75,234,354	12.45%	\$9,366,677	\$77,491,385	12.69%	\$9,833,657
856	Mexia	\$4,195,263	12.40%	\$520,213	\$4,321,121	12.29%	\$531,066
858	Miami	\$91,528	23.83%	\$21,811	\$94,274	13.85%	\$13,057
860	Midland	\$48,400,745	14.36%	\$6,950,347	\$49,852,767	14.21%	\$7,084,078
862	Midlothian	\$13,747,253	14.53%	\$1,997,476	\$14,159,671	14.29%	\$2,023,417
863	Milano	\$33,375	7.59%	\$2,533	\$34,376	10.77%	\$3,702
864	Miles	\$141,736	0.00%	\$0	\$145,988	0.00%	\$0
865	Milford	\$287,011	10.71%	\$30,739	\$292,751	9.16%	\$26,816
868	Mineola	\$2,195,681	4.27%	\$93,756	\$2,261,551	4.18%	\$94,533
870	Mineral Wells	\$8,107,102	8.72%	\$706,939	\$8,350,315	8.83%	\$737,333
874	Mission	\$30,271,450	8.53%	\$2,582,155	\$31,179,594	8.42%	\$2,625,322
875	Missouri City	\$23,680,282	8.25%	\$1,953,623	\$24,390,690	8.16%	\$1,990,280
876	Monahans	\$3,596,449	8.09%	\$290,953	\$3,704,342	7.66%	\$283,753
887	Mont Belvieu	\$5,219,131	16.04%	\$837,149	\$5,375,705	15.84%	\$851,512
877	Montgomery	\$1,181,853	6.10%	\$72,093	\$1,217,309	6.13%	\$74,621
878	Moody	\$510,086	3.28%	\$16,731	\$525,389	3.42%	\$17,968
883	Morgan's Point	\$803,239	9.83%	\$78,958	\$827,336	9.23%	\$76,363
882	Morgan's Point Resort	\$1,105,229	11.73%	\$129,643	\$1,130,649	12.17%	\$137,600
884	Morton	\$382,982	4.89%	\$18,728	\$393,705	4.31%	\$16,969
886	Moulton	\$436,248	6.33%	\$27,614	\$449,335	5.15%	\$23,141
890	Mount Enterprise	\$101,447	2.89%	\$2,932	\$104,288	1.91%	\$1,992
892	Mt. Pleasant	\$7,877,784	15.24%	\$1,200,574	\$8,114,118	15.09%	\$1,224,420
894	Mt. Vernon	\$864,909	11.90%	\$102,924	\$889,126	11.21%	\$99,671
896	Muenster	\$518,954	1.30%	\$6,746	\$534,523	1.42%	\$7,590
898	Muleshoe	\$1,428,335	16.83%	\$240,389	\$1,471,185	17.84%	\$262,459
901	Munday	\$277,058	3.94%	\$10,916	\$285,370	3.57%	\$10,188
903	Murphy	\$7,427,715	13.52%	\$1,004,227	\$7,650,546	14.11%	\$1,079,492
10904	Nacogdoches	\$16,382,362	14.79%	\$2,422,951	\$16,873,833	14.99%	\$2,529,388
906	Naples	\$362,267	2.17%	\$7,861	\$373,135	1.93%	\$7,202

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
907	Nash	\$979,709	17.78%	\$174,192	\$1,007,141	17.63%	\$177,559
905	Nassau Bay	\$2,827,850	16.07%	\$454,435	\$2,912,686	15.66%	\$456,127
909	Natalia	\$404,177	3.00%	\$12,125	\$416,302	3.13%	\$13,030
908	Navasota	\$3,308,117	8.45%	\$279,536	\$3,407,361	8.01%	\$272,930
910	Nederland	\$8,241,463	6.44%	\$530,750	\$8,488,707	6.35%	\$539,033
912	Needville	\$832,382	4.12%	\$34,294	\$854,024	4.19%	\$35,784
914	New Boston	\$1,242,841	2.01%	\$24,981	\$1,280,126	1.63%	\$20,866
10916	New Braunfels	\$36,822,743	16.83%	\$6,197,268	\$37,927,425	16.96%	\$6,432,491
20916	New Braunfels Utilities	\$16,391,721	17.76%	\$2,911,170	\$16,883,473	17.42%	\$2,941,101
915	New Deal	\$220,343	0.39%	\$859	\$224,970	0.54%	\$1,215
923	New Fairview	\$68,667	8.64%	\$5,933	\$70,727	9.63%	\$6,811
918	New London	\$395,062	5.71%	\$22,558	\$406,914	3.87%	\$15,748
919	New Summerfield	\$437,476	9.30%	\$40,685	\$450,600	9.54%	\$42,987
917	New Waverly	\$234,374	5.46%	\$12,797	\$241,405	6.14%	\$14,822
913	Newark	\$253,021	2.71%	\$6,857	\$260,612	3.15%	\$8,209
920	Newton	\$1,052,666	20.58%	\$216,639	\$1,084,246	20.51%	\$222,379
922	Nixon	\$729,634	1.09%	\$7,953	\$751,523	0.70%	\$5,261
924	Nocona	\$820,558	9.50%	\$77,953	\$845,175	9.83%	\$83,081
925	Nolanville	\$506,394	2.29%	\$11,596	\$521,586	2.32%	\$12,101
928	Normangee	\$183,791	2.80%	\$5,146	\$189,305	2.29%	\$4,335
931	North Richland Hills	\$36,076,649	16.12%	\$5,815,556	\$37,158,948	16.15%	\$6,001,170
930	Northlake	\$1,885,622	10.12%	\$190,825	\$1,942,191	10.50%	\$203,930
935	O'Donnell	\$109,902	6.94%	\$7,627	\$112,100	7.03%	\$7,881
936	Oak Point	\$1,613,367	7.70%	\$124,229	\$1,661,768	7.12%	\$118,318
937	Oak Ridge North	\$2,695,570	11.88%	\$320,234	\$2,776,437	11.82%	\$328,175
942	Odem	\$468,537	8.47%	\$39,685	\$482,593	9.12%	\$44,012
944	Odessa	\$42,868,232	13.50%	\$5,787,211	\$44,154,279	13.07%	\$5,770,964
945	Oglesby	\$26,466	0.24%	\$64	\$27,075	0.53%	\$143
949	Old River-Winfree	\$34,694	0.00%	\$0	\$35,735	0.00%	\$0
950	Olmos Park	\$1,857,855	2.63%	\$48,862	\$1,913,591	2.60%	\$49,753
951	Olney	\$782,234	7.64%	\$59,763	\$797,879	6.35%	\$50,665
953	Omaha	\$214,055	5.27%	\$11,281	\$220,477	5.30%	\$11,685
954	Onalaska	\$474,572	2.55%	\$12,102	\$488,809	2.63%	\$12,856
958	Orange	\$9,170,932	16.80%	\$1,540,717	\$9,446,060	15.80%	\$1,492,477
960	Orange Grove	\$364,795	1.52%	\$5,545	\$375,739	1.03%	\$3,870
959	Ore City	\$361,344	1.40%	\$5,059	\$372,184	1.45%	\$5,397
962	Overton	\$764,660	2.89%	\$22,099	\$787,600	2.01%	\$15,831
961	Ovilla	\$1,208,107	8.95%	\$108,126	\$1,244,350	9.45%	\$117,591
963	Oyster Creek	\$953,038	10.89%	\$103,786	\$981,629	11.02%	\$108,176
964	Paducah	\$375,150	1.61%	\$6,040	\$384,904	1.11%	\$4,272
966	Palacios	\$1,523,813	17.87%	\$272,305	\$1,566,480	17.45%	\$273,351
968	Palestine	\$9,058,468	13.71%	\$1,241,916	\$9,330,222	13.42%	\$1,252,116
970	Palmer	\$1,166,760	6.66%	\$77,706	\$1,201,763	6.74%	\$80,999
969	Palmhurst	\$1,138,857	5.90%	\$67,193	\$1,173,023	5.94%	\$69,678
971	Palmview	\$2,545,204	2.21%	\$56,249	\$2,621,560	1.92%	\$50,334

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
972	Pampa	\$7,601,872	21.71%	\$1,650,366	\$7,829,928	21.43%	\$1,677,954
974	Panhandle	\$849,065	13.35%	\$113,350	\$874,537	12.34%	\$107,918
973	Panorama Village	\$608,816	7.42%	\$45,174	\$627,080	6.58%	\$41,262
975	Pantego	\$2,474,634	17.95%	\$444,197	\$2,534,025	17.49%	\$443,201
976	Paris	\$12,247,026	6.78%	\$830,348	\$12,614,437	6.95%	\$876,703
977	Parker	\$1,416,205	12.30%	\$174,193	\$1,458,691	12.21%	\$178,106
978	Pasadena	\$63,187,798	13.85%	\$8,751,510	\$64,893,869	13.45%	\$8,728,225
983	Pearland	\$43,775,138	13.55%	\$5,931,531	\$45,088,392	13.30%	\$5,996,756
984	Pearsall	\$2,796,657	3.13%	\$87,535	\$2,880,557	2.87%	\$82,672
988	Pecos City	\$5,747,219	6.13%	\$352,305	\$5,919,636	6.06%	\$358,730
989	Pelican Bay	\$404,018	5.08%	\$20,524	\$416,139	5.01%	\$20,849
991	Penitas	\$1,450,615	4.66%	\$67,599	\$1,494,133	4.33%	\$64,696
994	Perryton	\$3,975,664	15.28%	\$607,481	\$4,094,934	14.71%	\$602,365
1000	Pflugerville	\$19,570,626	13.53%	\$2,647,906	\$20,157,745	13.33%	\$2,687,027
1002	Pharr	\$27,718,603	7.66%	\$2,123,245	\$28,550,161	7.89%	\$2,252,608
1004	Pilot Point	\$2,157,577	9.24%	\$199,360	\$2,222,304	9.19%	\$204,230
1005	Pinehurst	\$1,122,451	19.22%	\$215,735	\$1,147,145	19.38%	\$222,317
1003	Pineland	\$486,305	8.66%	\$42,114	\$500,894	7.91%	\$39,621
1001	Piney Point Village	\$498,003	7.14%	\$35,557	\$512,943	6.95%	\$35,650
1006	Pittsburg	\$1,491,618	14.33%	\$213,749	\$1,524,434	14.39%	\$219,366
1007	Plains	\$379,958	7.51%	\$28,535	\$391,357	6.57%	\$25,712
1008	Plainview	\$6,351,544	13.47%	\$855,553	\$6,503,981	13.07%	\$850,070
1010	Plano	\$162,749,915	17.30%	\$28,155,735	\$167,632,412	16.67%	\$27,944,323
1012	Pleasanton	\$5,137,100	15.51%	\$796,764	\$5,291,213	15.79%	\$835,483
1013	Point	\$326,257	13.73%	\$44,795	\$334,087	13.67%	\$45,670
1017	Ponder	\$756,270	6.36%	\$48,099	\$778,958	6.11%	\$47,594
1014	Port Aransas	\$6,163,205	11.61%	\$715,548	\$6,348,101	11.55%	\$733,206
11016	Port Arthur	\$34,119,257	14.02%	\$4,783,520	\$35,142,835	13.80%	\$4,849,711
1018	Port Isabel	\$2,471,788	3.85%	\$95,164	\$2,545,942	3.97%	\$101,074
1020	Port Lavaca	\$3,862,424	5.99%	\$231,359	\$3,978,297	5.81%	\$231,139
1022	Port Neches	\$6,813,681	12.09%	\$823,774	\$7,004,464	12.49%	\$874,858
1019	Portland	\$6,974,407	14.25%	\$993,853	\$7,183,639	13.64%	\$979,848
1024	Post	\$632,448	10.76%	\$68,051	\$649,524	10.79%	\$70,084
1026	Poteet	\$993,631	2.20%	\$21,860	\$1,023,440	2.18%	\$22,311
1028	Poth	\$402,266	4.25%	\$17,096	\$414,334	4.47%	\$18,521
1030	Pottsboro	\$887,293	6.51%	\$57,763	\$913,912	6.72%	\$61,415
1031	Prairie View	\$725,525	7.22%	\$52,383	\$747,291	5.25%	\$39,233
1032	Premont	\$599,959	0.23%	\$1,380	\$617,958	0.00%	\$0
1029	Presidio	\$1,597,670	0.74%	\$11,823	\$1,645,600	0.87%	\$14,317
1033	Primera	\$560,188	0.52%	\$2,913	\$576,994	0.06%	\$346
1034	Princeton	\$3,481,256	10.79%	\$375,628	\$3,585,694	10.75%	\$385,462
1036	Prosper	\$11,333,378	13.53%	\$1,533,406	\$11,673,379	13.55%	\$1,581,743
1037	Providence Village	\$405,660	7.78%	\$31,560	\$417,830	7.50%	\$31,337
1042	Quanah	\$536,424	9.05%	\$48,546	\$547,152	9.36%	\$51,213
1045	Queen City	\$492,436	2.06%	\$10,144	\$507,209	1.77%	\$8,978

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
1044	Quinlan	\$671,695	9.55%	\$64,147	\$691,846	10.01%	\$69,254
1047	Quintana	\$91,971	1.88%	\$1,729	\$94,730	2.55%	\$2,416
1046	Quitaque	\$116,801	5.39%	\$6,296	\$120,305	4.92%	\$5,919
1048	Quitman	\$1,015,687	7.84%	\$79,630	\$1,046,158	5.49%	\$57,434
1050	Ralls	\$451,243	6.85%	\$30,910	\$460,268	6.50%	\$29,917
1051	Rancho Viejo	\$547,756	7.84%	\$42,944	\$564,189	6.91%	\$38,985
1052	Ranger	\$400,610	7.94%	\$31,808	\$412,628	6.64%	\$27,398
1054	Rankin	\$232,362	1.36%	\$3,160	\$239,333	1.24%	\$2,968
1055	Ransom Canyon	\$551,652	15.67%	\$86,444	\$568,202	15.39%	\$87,446
1058	Raymondville	\$2,263,185	1.48%	\$33,495	\$2,331,081	1.47%	\$34,267
1061	Red Oak	\$5,758,621	6.13%	\$353,003	\$5,931,380	6.16%	\$365,373
1062	Redwater	\$257,743	3.34%	\$8,609	\$265,475	3.08%	\$8,177
1064	Refugio	\$1,221,512	0.00%	\$0	\$1,253,271	0.00%	\$0
1065	Reklaw	\$268,486	16.81%	\$45,132	\$273,856	16.53%	\$45,268
1066	Reno (Lamar County)	\$551,607	3.77%	\$20,796	\$567,052	4.17%	\$23,646
1069	Reno (Parker County)	\$581,458	3.09%	\$17,967	\$598,902	2.72%	\$16,290
1067	Rhome	\$666,571	7.06%	\$47,060	\$686,568	7.60%	\$52,179
1068	Rice	\$337,521	1.15%	\$3,881	\$347,647	1.07%	\$3,720
1070	Richardson	\$73,866,001	14.54%	\$10,740,117	\$76,081,981	14.44%	\$10,986,238
1073	Richland Hills	\$4,584,278	15.98%	\$732,568	\$4,721,806	15.47%	\$730,463
1074	Richland Springs	\$18,556	0.00%	\$0	\$19,113	0.00%	\$0
1076	Richmond	\$8,519,930	14.32%	\$1,220,054	\$8,775,528	14.67%	\$1,287,370
1077	Richwood	\$1,262,811	11.23%	\$141,814	\$1,300,695	11.05%	\$143,727
1072	Riesel	\$339,300	6.20%	\$21,037	\$349,479	5.98%	\$20,899
1075	Rio Grande City	\$5,677,963	7.06%	\$400,864	\$5,848,302	7.03%	\$411,136
1079	Rio Vista	\$302,494	3.62%	\$10,950	\$311,569	3.77%	\$11,746
1080	Rising Star	\$235,021	0.00%	\$0	\$242,072	0.00%	\$0
1082	River Oaks	\$2,471,491	14.49%	\$358,119	\$2,545,636	13.76%	\$350,280
1084	Roanoke	\$10,144,220	17.43%	\$1,768,138	\$10,448,547	17.45%	\$1,823,271
1088	Robert Lee	\$140,281	5.47%	\$7,673	\$143,087	5.40%	\$7,727
1089	Robinson	\$3,337,957	14.29%	\$476,994	\$3,438,096	13.85%	\$476,176
21090	Robstown	\$5,705,493	6.59%	\$375,992	\$5,876,658	6.13%	\$360,239
11090	Robstown Utility Systems	\$2,311,840	12.94%	\$299,152	\$2,381,195	12.76%	\$303,840
1092	Roby	\$68,173	1.73%	\$1,179	\$69,605	1.81%	\$1,260
1096	Rockdale	\$1,902,491	9.99%	\$190,059	\$1,959,566	9.30%	\$182,240
1098	Rockport	\$6,945,411	16.29%	\$1,131,407	\$7,153,773	17.45%	\$1,248,333
1100	Rocksprings	\$230,686	1.21%	\$2,791	\$237,607	0.52%	\$1,236
1102	Rockwall	\$19,704,460	16.14%	\$3,180,300	\$20,295,594	15.76%	\$3,198,586
1104	Rogers	\$358,955	8.35%	\$29,973	\$369,724	8.52%	\$31,500
1105	Rollingwood	\$967,807	9.01%	\$87,199	\$996,841	8.17%	\$81,442
1106	Roma	\$4,158,864	10.73%	\$446,246	\$4,283,630	10.66%	\$456,635
1109	Roscoe	\$299,928	2.08%	\$6,239	\$305,927	2.14%	\$6,547
1112	Rosebud	\$419,331	1.96%	\$8,219	\$431,072	1.90%	\$8,190
1114	Rosenberg	\$15,480,751	13.03%	\$2,017,142	\$15,945,174	12.87%	\$2,052,144
1116	Rotan	\$261,605	0.00%	\$0	\$266,837	0.00%	\$0

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
1118	Round Rock	\$60,020,497	15.51%	\$9,309,179	\$61,821,112	15.33%	\$9,477,176
1119	Rowlett	\$25,063,342	13.08%	\$3,278,285	\$25,815,242	12.82%	\$3,309,514
1120	Royse City	\$3,462,082	16.09%	\$557,049	\$3,565,944	15.98%	\$569,838
1122	Rule	\$101,364	10.47%	\$10,613	\$104,405	8.88%	\$9,271
1123	Runaway Bay	\$555,183	2.28%	\$12,658	\$566,842	1.78%	\$10,090
1124	Runge	\$124,198	18.13%	\$22,517	\$127,055	18.85%	\$23,950
1126	Rusk	\$1,772,544	6.80%	\$120,533	\$1,825,720	6.58%	\$120,132
1128	Sabinal	\$441,485	3.32%	\$14,657	\$454,730	3.12%	\$14,188
1129	Sachse	\$8,961,879	14.51%	\$1,300,369	\$9,230,735	14.79%	\$1,365,226
1131	Saginaw	\$8,435,849	17.44%	\$1,471,212	\$8,688,924	17.14%	\$1,489,282
1130	Saint Jo	\$271,107	5.90%	\$15,995	\$279,240	5.13%	\$14,325
1133	Salado	\$491,464	6.87%	\$33,764	\$506,208	6.25%	\$31,638
1132	San Angelo	\$35,769,917	17.61%	\$6,299,082	\$36,771,475	17.46%	\$6,420,300
21136	San Antonio	\$377,852,748	11.66%	\$44,057,630	\$389,188,330	11.37%	\$44,250,713
11136	San Antonio Water System	\$107,491,867	3.70%	\$3,977,199	\$110,716,623	3.60%	\$3,985,798
1138	San Augustine	\$1,149,872	11.32%	\$130,166	\$1,184,368	8.34%	\$98,776
1140	San Benito	\$5,864,759	5.74%	\$336,637	\$6,040,702	5.51%	\$332,843
1144	San Felipe	\$188,561	3.85%	\$7,260	\$194,218	4.46%	\$8,662
1148	San Juan	\$8,050,345	2.60%	\$209,309	\$8,291,855	2.55%	\$211,442
1150	San Marcos	\$40,991,557	17.45%	\$7,153,027	\$42,221,304	17.34%	\$7,321,174
1152	San Saba	\$1,874,809	8.40%	\$157,484	\$1,931,053	8.31%	\$160,471
1146	Sanger	\$3,695,504	7.79%	\$287,880	\$3,806,369	7.91%	\$301,084
1153	Sansom Park	\$1,278,409	5.84%	\$74,659	\$1,316,761	6.15%	\$80,981
1155	Santa Fe	\$3,349,663	12.07%	\$404,304	\$3,450,153	11.62%	\$400,908
1158	Savoy	\$99,433	0.12%	\$119	\$101,422	0.00%	\$0
1159	Schertz	\$17,970,056	16.01%	\$2,877,006	\$18,509,158	16.04%	\$2,968,869
1160	Schulenburg	\$1,790,706	22.07%	\$395,209	\$1,839,055	21.43%	\$394,109
1161	Seabrook	\$6,445,494	15.67%	\$1,010,009	\$6,638,859	15.57%	\$1,033,670
1162	Seadrift	\$505,670	4.28%	\$21,643	\$520,840	4.09%	\$21,302
1164	Seagoville	\$4,828,808	10.82%	\$522,477	\$4,973,672	10.86%	\$540,141
1166	Seagraves	\$704,982	9.78%	\$68,947	\$726,131	10.02%	\$72,758
1167	Sealy	\$3,181,428	14.27%	\$453,990	\$3,276,871	14.57%	\$477,440
1168	Seguin	\$20,920,627	15.89%	\$3,324,288	\$21,548,246	15.24%	\$3,283,953
1169	Selma	\$5,667,089	14.82%	\$839,863	\$5,837,102	14.66%	\$855,719
1170	Seminole	\$3,044,744	13.27%	\$404,038	\$3,136,086	12.89%	\$404,241
1171	Seven Points	\$637,130	4.65%	\$29,627	\$656,244	2.60%	\$17,062
1172	Seymour	\$1,240,760	7.91%	\$98,144	\$1,268,057	7.03%	\$89,144
1165	Shady Shores	\$111,624	8.80%	\$9,823	\$114,973	9.26%	\$10,646
1177	Shallowater	\$613,057	3.43%	\$21,028	\$631,449	2.42%	\$15,281
1174	Shamrock	\$902,544	7.17%	\$64,712	\$929,620	7.84%	\$72,882
1173	Shavano Park	\$2,702,035	12.72%	\$343,699	\$2,783,096	13.49%	\$375,440
1175	Shenandoah	\$3,647,741	17.32%	\$631,789	\$3,757,173	16.93%	\$636,089
1181	Shepherd	\$336,307	2.41%	\$8,105	\$346,396	2.70%	\$9,353
1176	Sherman	\$24,220,288	14.15%	\$3,427,171	\$24,922,676	13.92%	\$3,469,236
1178	Shiner	\$1,257,274	7.27%	\$91,404	\$1,294,992	7.71%	\$99,844

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
1179	Shoreacres	\$716,829	5.62%	\$40,286	\$736,900	4.68%	\$34,487
1180	Silsbee	\$3,029,105	18.35%	\$555,841	\$3,119,978	18.49%	\$576,884
1182	Silverton	\$123,294	4.12%	\$5,080	\$125,760	4.47%	\$5,621
1184	Sinton	\$2,306,128	12.60%	\$290,572	\$2,375,312	12.87%	\$305,703
1185	Skellytown	\$97,618	1.16%	\$1,132	\$100,547	0.55%	\$553
1186	Slaton	\$2,007,013	6.68%	\$134,068	\$2,065,216	6.52%	\$134,652
1188	Smithville	\$2,423,553	6.81%	\$165,044	\$2,496,260	6.86%	\$171,243
1189	Smyer	\$111,498	9.53%	\$10,626	\$114,843	10.34%	\$11,875
1190	Snyder	\$5,165,755	15.76%	\$814,123	\$5,320,728	13.67%	\$727,344
1191	Somerset	\$381,736	3.09%	\$11,796	\$393,188	2.59%	\$10,184
1192	Somerville	\$558,724	5.67%	\$31,680	\$575,486	5.21%	\$29,983
1194	Sonora	\$1,247,770	8.50%	\$106,060	\$1,285,203	8.29%	\$106,543
1196	Sour Lake	\$633,078	5.75%	\$36,402	\$652,070	5.69%	\$37,103
1198	South Houston	\$5,535,456	10.23%	\$566,277	\$5,701,520	10.00%	\$570,152
1199	South Padre Island	\$8,534,662	12.88%	\$1,099,264	\$8,790,702	12.81%	\$1,126,089
1197	Southlake	\$22,447,206	12.26%	\$2,752,027	\$23,120,622	12.35%	\$2,855,397
1200	Southmayd	\$259,852	7.17%	\$18,631	\$267,648	5.63%	\$15,069
1202	Southside Place	\$1,495,537	11.78%	\$176,174	\$1,540,403	11.80%	\$181,768
1204	Spearman	\$1,080,354	11.13%	\$120,243	\$1,112,765	11.38%	\$126,633
1201	Splendora	\$1,206,343	5.23%	\$63,092	\$1,242,533	5.19%	\$64,487
1205	Spring Valley Village	\$2,672,145	7.17%	\$191,593	\$2,752,309	6.89%	\$189,634
1203	Springtown	\$1,614,984	9.10%	\$146,964	\$1,663,434	9.14%	\$152,038
1206	Spur	\$321,107	5.07%	\$16,280	\$329,777	4.66%	\$15,368
1207	Stafford	\$9,929,633	14.69%	\$1,458,663	\$10,227,522	14.44%	\$1,476,854
1208	Stamford	\$877,701	5.46%	\$47,922	\$904,032	5.26%	\$47,552
1210	Stanton	\$1,171,483	8.61%	\$100,865	\$1,206,627	7.75%	\$93,514
1211	Star Harbor	\$156,646	10.24%	\$16,041	\$161,345	10.48%	\$16,909
1212	Stephenville	\$8,431,466	6.78%	\$571,653	\$8,684,410	6.36%	\$552,328
1213	Sterling City	\$288,565	1.28%	\$3,694	\$296,356	1.20%	\$3,556
1214	Stinnett	\$703,938	0.00%	\$0	\$725,056	0.00%	\$0
1216	Stockdale	\$365,083	4.41%	\$16,100	\$376,035	4.48%	\$16,846
1218	Stratford	\$680,816	6.05%	\$41,189	\$701,240	6.31%	\$44,248
1224	Sudan	\$319,244	1.79%	\$5,714	\$326,587	0.95%	\$3,103
1225	Sugar Land	\$52,369,512	15.13%	\$7,923,507	\$53,940,597	14.78%	\$7,972,420
1226	Sulphur Springs	\$8,268,475	7.22%	\$596,984	\$8,516,529	7.31%	\$622,558
1228	Sundown	\$555,680	11.52%	\$64,014	\$572,350	11.23%	\$64,275
1229	Sunnyvale	\$2,144,241	11.87%	\$254,521	\$2,208,568	11.63%	\$256,856
1230	Sunray	\$619,134	18.73%	\$115,964	\$637,708	18.51%	\$118,040
1227	Sunrise Beach Village	\$492,551	1.40%	\$6,896	\$507,328	1.28%	\$6,494
1231	Sunset Valley	\$1,864,639	12.57%	\$234,385	\$1,920,578	12.19%	\$234,118
1233	Surfside Beach	\$742,061	1.42%	\$10,537	\$764,323	1.36%	\$10,395
1232	Sweeny	\$1,043,334	17.32%	\$180,705	\$1,074,634	17.20%	\$184,837
1234	Sweetwater	\$5,549,451	18.10%	\$1,004,451	\$5,715,935	17.65%	\$1,008,863
1264	TMRS	\$10,782,366	16.31%	\$1,758,604	\$11,105,837	15.95%	\$1,771,381
1236	Taft	\$981,403	15.53%	\$152,412	\$1,010,845	16.89%	\$170,732

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
1238	Tahoka	\$715,127	1.34%	\$9,583	\$736,581	1.41%	\$10,386
1240	Talty	\$180,479	7.82%	\$14,113	\$185,893	8.14%	\$15,132
1241	Tatum	\$351,360	2.11%	\$7,414	\$361,901	1.79%	\$6,478
1246	Taylor	\$7,405,994	11.89%	\$880,573	\$7,628,174	11.88%	\$906,227
1248	Teague	\$878,877	11.71%	\$102,916	\$905,243	9.23%	\$83,554
1252	Temple	\$32,939,866	16.48%	\$5,428,490	\$33,928,062	16.43%	\$5,574,381
1254	Tenaha	\$325,772	0.60%	\$1,955	\$335,545	0.10%	\$336
1256	Terrell	\$10,371,028	16.34%	\$1,694,626	\$10,682,159	15.68%	\$1,674,963
1258	Terrell Hills	\$2,679,017	12.01%	\$321,750	\$2,759,388	12.10%	\$333,886
31263	Tex Municipal League IEBP	\$10,850,819	5.72%	\$620,667	\$11,067,835	5.91%	\$654,109
21263	Tex Municipal League IRP	\$25,194,457	10.59%	\$2,668,093	\$25,950,291	10.39%	\$2,696,235
21260	Texarkana	\$8,697,189	16.11%	\$1,401,117	\$8,914,619	16.03%	\$1,429,013
11260	Texarkana Police Dept	\$6,091,626	15.93%	\$970,396	\$6,268,283	15.01%	\$940,869
31260	Texarkana Water Utilities	\$6,932,346	16.67%	\$1,155,622	\$7,140,316	16.07%	\$1,147,449
1262	Texas City	\$22,200,941	16.70%	\$3,707,557	\$22,866,969	16.18%	\$3,699,876
11263	Texas Municipal League	\$3,068,049	16.16%	\$495,797	\$3,135,546	16.04%	\$502,942
1267	The Colony	\$22,109,861	13.06%	\$2,887,548	\$22,773,157	13.01%	\$2,962,788
1269	Thompsons	\$128,122	4.26%	\$5,458	\$131,966	4.20%	\$5,543
1268	Thorndale	\$296,604	7.37%	\$21,860	\$305,206	7.58%	\$23,135
1272	Thrall	\$177,475	7.98%	\$14,163	\$182,799	8.36%	\$15,282
1274	Three Rivers	\$2,040,261	22.05%	\$449,878	\$2,101,469	23.36%	\$490,903
1276	Throckmorton	\$135,350	5.08%	\$6,876	\$139,411	4.56%	\$6,357
1277	Tiki Island	\$464,871	3.59%	\$16,689	\$478,817	3.58%	\$17,142
1278	Timpson	\$419,303	2.39%	\$10,021	\$431,882	2.16%	\$9,329
1280	Tioga	\$360,780	1.65%	\$5,953	\$371,603	1.46%	\$5,425
1283	Tolar	\$226,810	8.89%	\$20,163	\$233,614	8.96%	\$20,932
1286	Tom Bean	\$280,049	3.01%	\$8,429	\$288,450	2.42%	\$6,980
1284	Tomball	\$10,866,889	13.42%	\$1,458,337	\$11,192,896	13.49%	\$1,509,922
1290	Trent	\$87,534	8.85%	\$7,747	\$89,985	8.18%	\$7,361
1292	Trenton	\$148,601	2.76%	\$4,101	\$153,059	2.84%	\$4,347
1293	Trinidad	\$243,622	3.63%	\$8,843	\$248,738	3.24%	\$8,059
1294	Trinity	\$914,186	7.48%	\$68,381	\$941,612	6.92%	\$65,160
1295	Trophy Club	\$4,850,431	12.78%	\$619,885	\$4,995,944	12.95%	\$646,975
1296	Troup	\$828,815	5.72%	\$47,408	\$853,679	5.33%	\$45,501
1297	Troy	\$645,031	12.54%	\$80,887	\$664,382	11.83%	\$78,596
1298	Tulia	\$1,538,821	11.92%	\$183,427	\$1,584,986	10.50%	\$166,424
1299	Turkey	\$120,923	4.73%	\$5,720	\$124,551	5.19%	\$6,464
1301	Tye	\$597,525	7.67%	\$45,830	\$613,061	7.25%	\$44,447
1304	Tyler	\$36,293,323	20.70%	\$7,512,718	\$37,382,123	20.89%	\$7,809,125
1305	Universal City	\$7,557,164	18.79%	\$1,419,991	\$7,783,879	18.46%	\$1,436,904
1306	University Park	\$16,250,619	6.90%	\$1,121,293	\$16,738,138	7.26%	\$1,215,189
1308	Uvalde	\$6,756,173	6.01%	\$406,046	\$6,958,858	5.93%	\$412,660
1312	Valley Mills	\$322,845	1.97%	\$6,360	\$332,530	1.89%	\$6,285
1313	Valley View	\$265,320	2.58%	\$6,845	\$273,280	2.17%	\$5,930
1314	Van	\$929,765	7.33%	\$68,152	\$957,658	7.32%	\$70,101

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
1316	Van Alstyne	\$1,640,103	10.64%	\$174,507	\$1,682,746	9.66%	\$162,553
1318	Van Horn	\$1,149,451	8.75%	\$100,577	\$1,173,589	7.85%	\$92,127
1320	Vega	\$260,243	23.72%	\$61,730	\$268,050	24.79%	\$66,450
1324	Venus	\$976,778	10.83%	\$105,785	\$1,006,081	10.53%	\$105,940
1326	Vernon	\$3,900,321	12.47%	\$486,370	\$4,017,331	11.98%	\$481,276
1328	Victoria	\$31,400,861	16.54%	\$5,193,702	\$32,342,887	16.59%	\$5,365,685
1329	Vidor	\$3,478,310	14.75%	\$513,051	\$3,582,659	14.24%	\$510,171
1500	Village Fire Department	\$3,593,714	6.29%	\$226,045	\$3,694,338	6.09%	\$224,985
1327	Village of the Hills	\$82,801	5.83%	\$4,827	\$85,285	6.18%	\$5,271
1330	Waco	\$81,691,480	14.25%	\$11,641,036	\$84,142,224	14.02%	\$11,796,740
1332	Waelder	\$624,235	2.64%	\$16,480	\$642,962	2.72%	\$17,489
1334	Wake Village	\$1,033,420	13.72%	\$141,785	\$1,064,423	13.11%	\$139,546
1336	Waller	\$1,574,674	4.22%	\$66,451	\$1,621,914	3.90%	\$63,255
1337	Wallis	\$593,976	3.00%	\$17,819	\$611,795	2.64%	\$16,151
1338	Walnut Springs	\$88,902	3.35%	\$2,978	\$91,569	3.53%	\$3,232
1340	Waskom	\$780,803	6.80%	\$53,095	\$800,323	6.73%	\$53,862
1341	Watauga	\$9,234,645	13.59%	\$1,254,988	\$9,511,684	13.50%	\$1,284,077
1342	Waxahachie	\$14,459,246	15.32%	\$2,215,156	\$14,893,023	14.96%	\$2,227,996
1344	Weatherford	\$22,002,463	13.35%	\$2,937,329	\$22,662,537	13.25%	\$3,002,786
1345	Webster	\$11,081,908	16.89%	\$1,871,734	\$11,414,365	17.41%	\$1,987,241
1346	Weimar	\$1,237,878	18.17%	\$224,922	\$1,268,825	17.22%	\$218,492
1350	Wellington	\$453,976	4.26%	\$19,339	\$467,595	4.04%	\$18,891
1352	Wells	\$65,221	3.76%	\$2,452	\$66,525	1.45%	\$965
1354	Weslaco	\$10,230,968	7.58%	\$775,507	\$10,435,587	7.76%	\$809,802
1356	West	\$828,460	2.04%	\$16,901	\$853,314	1.56%	\$13,312
1358	West Columbia	\$1,617,305	3.16%	\$51,107	\$1,665,824	3.26%	\$54,306
1359	West Lake Hills	\$1,792,226	17.21%	\$308,442	\$1,845,993	15.99%	\$295,174
1361	West Orange	\$1,382,542	19.99%	\$276,370	\$1,424,018	20.03%	\$285,231
1365	West Tawakoni	\$569,577	10.34%	\$58,894	\$580,969	9.56%	\$55,541
1364	West Univ. Place	\$9,475,884	13.40%	\$1,269,768	\$9,760,161	12.84%	\$1,253,205
1363	Westlake	\$3,467,829	12.66%	\$439,027	\$3,571,864	11.80%	\$421,480
1362	Westover Hills	\$1,205,032	1.72%	\$20,727	\$1,241,183	1.57%	\$19,487
1366	Westworth Village	\$2,626,086	11.38%	\$298,849	\$2,704,869	11.75%	\$317,822
1368	Wharton	\$5,577,604	6.15%	\$343,023	\$5,744,932	5.88%	\$337,802
1370	Wheeler	\$309,617	7.40%	\$22,912	\$318,906	7.69%	\$24,524
1372	White Deer	\$242,802	8.01%	\$19,448	\$250,086	8.08%	\$20,207
1377	White Oak	\$2,134,251	14.55%	\$310,534	\$2,198,279	14.10%	\$309,957
1378	White Settlement	\$6,392,017	17.88%	\$1,142,893	\$6,583,778	16.93%	\$1,114,634
1374	Whiteface	\$134,249	1.52%	\$2,041	\$138,276	1.56%	\$2,157
1375	Whitehouse	\$1,717,166	8.45%	\$145,101	\$1,760,095	8.99%	\$158,233
1376	Whitesboro	\$2,014,086	7.36%	\$148,237	\$2,074,509	7.22%	\$149,780
1380	Whitewright	\$803,971	3.63%	\$29,184	\$828,090	2.87%	\$23,766
1382	Whitney	\$736,736	4.35%	\$32,048	\$751,471	4.22%	\$31,712
1384	Wichita Falls	\$46,493,206	12.83%	\$5,965,078	\$47,888,002	12.77%	\$6,115,298
1386	Willis	\$2,138,597	10.14%	\$216,854	\$2,202,755	9.95%	\$219,174

\*Reflects phase-in, when applicable.

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

CITY #	CITY NAME	2018 EXPECTED CONTRIBUTIONS			2019 EXPECTED CONTRIBUTIONS		
		EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS	EXPECTED COMPENSATION	TOTAL RATE*	EXPECTED CONTRIBUTIONS
1387	Willow Park	\$1,794,724	7.25%	\$130,117	\$1,848,566	7.23%	\$133,651
1388	Wills Point	\$1,108,108	12.96%	\$143,611	\$1,131,378	12.40%	\$140,291
1390	Wilmer	\$1,817,259	4.57%	\$83,049	\$1,864,508	4.70%	\$87,632
1392	Wimberley	\$348,000	9.10%	\$31,668	\$358,440	7.87%	\$28,209
1393	Windcrest	\$3,259,563	7.89%	\$257,180	\$3,357,350	7.40%	\$248,444
1395	Winfield	\$158,516	2.77%	\$4,391	\$163,271	3.50%	\$5,714
1396	Wink	\$380,085	7.30%	\$27,746	\$390,727	7.44%	\$29,070
1398	Winnsboro	\$1,569,223	10.24%	\$160,688	\$1,616,300	8.94%	\$144,497
1399	Winona	\$126,492	0.73%	\$923	\$130,287	0.00%	\$0
1400	Winters	\$528,804	9.93%	\$52,510	\$542,553	9.85%	\$53,441
1403	Wolfforth	\$1,377,875	11.21%	\$154,460	\$1,419,211	11.10%	\$157,532
1409	Woodcreek	\$123,240	7.56%	\$9,317	\$126,937	7.67%	\$9,736
1404	Woodsboro	\$531,086	0.66%	\$3,505	\$547,019	1.05%	\$5,744
1406	Woodville	\$1,551,909	17.26%	\$267,859	\$1,598,466	17.52%	\$280,051
1407	Woodway	\$5,073,908	16.40%	\$832,121	\$5,226,125	16.46%	\$860,220
1408	Wortham	\$332,490	5.88%	\$19,550	\$341,135	5.89%	\$20,093
1410	Wylie	\$20,927,746	14.86%	\$3,109,863	\$21,555,578	14.84%	\$3,198,848
1412	Yoakum	\$4,061,292	15.64%	\$635,186	\$4,183,131	15.73%	\$658,007
1414	Yorktown	\$592,229	1.47%	\$8,706	\$609,996	0.92%	\$5,612
1415	Zavalla	\$248,867	3.38%	\$8,412	\$253,844	0.02%	\$51

\*Reflects phase-in, when applicable.

## **SECTION 5**

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### **SUPPLEMENTAL DEATH RATES**

**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2019**  
**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>
4 Abernathy	0.16 %	0.29 %	3	106 Bellaire	0.16 %	0.20 %	3
6 Abilene	0.15 %	0.25 %	3	109 Bellmead	0.16 %	0.19 %	3
7 Addison	0.14 %	0.17 %	3	110 Bells	0.06 %	0.11 %	3
8 Agua Dulce	0.17 %	0.17 %	3	112 Bellville	0.17 %	0.25 %	3
10 Alamo	0.16 %	0.20 %	3	114 Belton	0.12 %	0.16 %	3
12 Alamo Heights	0.14 %	0.21 %	3	118 Benbrook	0.11 %	0.14 %	3
14 Alba	0.19 %	0.19 %	3	121 Berryville	0.23 %	0.40 %	3
16 Albany	0.33 %	0.39 %	3	123 Bertram	0.12 %	0.26 %	1
17 Aledo	0.15 %	0.21 %	3	124 Big Lake	0.16 %	0.23 %	3
18 Alice	0.17 %	0.26 %	1	126 Big Sandy	0.14 %	0.22 %	3
19 Allen	0.14 %	0.15 %	3	128 Big Spring	0.19 %	0.29 %	3
20 Alpine	0.15 %	0.19 %	3	132 Bishop	0.16 %	0.24 %	3
22 Alto	0.12 %	0.25 %	3	134 Blanco	0.19 %	0.23 %	3
23 Alton	0.14 %	0.16 %	3	140 Blooming Grove	0.09 %	0.14 %	3
24 Alvarado	0.14 %	0.15 %	3	142 Blossom	0.30 %	0.53 %	3
26 Alvin	0.12 %	0.16 %	3	143 Blue Mound	0.08 %	0.10 %	3
28 Alvord	0.12 %	0.23 %	3	144 Blue Ridge	0.09 %	0.25 %	3
30 Amarillo	0.15 %	0.22 %	1	148 Boerne	0.15 %	0.17 %	3
32 Amherst	0.11 %	0.16 %	1	150 Bogata	0.13 %	0.16 %	3
34 Anahuac	0.05 %	0.13 %	3	152 Bonham	0.15 %	0.20 %	1
36 Andrews	0.14 %	0.18 %	1	154 Booker	0.29 %	0.36 %	3
38 Angleton	0.19 %	0.23 %	3	156 Borger	0.15 %	0.20 %	3
40 Anna	0.12 %	0.13 %	3	158 Bovina	0.08 %	0.18 %	3
41 Annetta	0.62 %	0.62 %	3	160 Bowie	0.14 %	0.21 %	3
44 Anson	0.14 %	0.19 %	3	162 Boyd	0.11 %	0.16 %	1
45 Anthony	0.12 %	0.13 %	3	166 Brady	0.17 %	0.24 %	3
48 Aransas Pass	0.16 %	0.20 %	3	170 Brazoria	0.16 %	0.22 %	3
50 Archer City	0.26 %	0.31 %	3	172 Breckenridge	0.19 %	0.27 %	3
49 Arcola	0.18 %	0.18 %	3	174 Bremond	0.13 %	0.26 %	3
51 Argyle	0.19 %	0.21 %	1	176 Brenham	0.13 %	0.19 %	1
52 Arlington	0.11 %	0.15 %	3	177 Bridge City	0.22 %	0.28 %	3
54 Arp	0.06 %	0.18 %	3	178 Bridgeport	0.10 %	0.15 %	3
60 Aspermont	0.13 %	0.19 %	3	180 Bronte	0.15 %	0.17 %	3
62 Athens	0.14 %	0.18 %	3	182 Brookshire	0.17 %	0.19 %	3
64 Atlanta	0.17 %	0.21 %	3	184 Brownfield	0.21 %	0.26 %	1
66 Aubrey	0.15 %	0.16 %	3	186 Brownsboro	0.37 %	0.37 %	3
74 Avinger	0.20 %	0.20 %	3	10188 Brownsville	0.13 %	0.18 %	3
75 Azle	0.14 %	0.18 %	3	20188 Brownsville PUB	0.15 %	0.20 %	3
77 Baird	0.10 %	0.15 %	3	10190 Brownwood	0.15 %	0.22 %	1
78 Balch Springs	0.12 %	0.15 %	3	30190 Brownwood Health Dept.	0.13 %	0.20 %	1
79 Balcones Heights	0.17 %	0.21 %	3	20190 Brownwood Public Library	0.58 %	0.76 %	1
80 Ballinger	0.22 %	0.29 %	3	195 Bruceville-Eddy	0.10 %	0.16 %	3
82 Balmorhea	0.07 %	0.07 %	3	192 Bryan	0.13 %	0.17 %	1
83 Bandera	0.29 %	0.41 %	3	193 Bryson	0.08 %	0.12 %	1
84 Bangs	0.22 %	0.35 %	3	194 Buda	0.14 %	0.16 %	3
90 Bartlett	0.19 %	0.25 %	3	196 Buffalo	0.31 %	0.38 %	3
91 Bartonville	0.09 %	0.11 %	3	198 Bullard	0.16 %	0.18 %	3
92 Bastrop	0.14 %	0.17 %	3	203 Bulverde	0.11 %	0.12 %	3
94 Bay City	0.15 %	0.23 %	3	199 Bunker Hill Village	0.16 %	0.22 %	3
93 Bayou Vista	0.15 %	0.19 %	3	200 Burkburnett	0.17 %	0.25 %	3
96 Baytown	0.12 %	0.15 %	3	202 Burleson	0.12 %	0.14 %	3
98 Beaumont	0.16 %	0.23 %	1	204 Burnet	0.13 %	0.17 %	3
100 Bedford	0.13 %	0.14 %	1	206 Burton	0.11 %	0.11 %	3
101 Bee Cave	0.15 %	0.16 %	3	207 Cactus	0.09 %	0.14 %	3
102 Beeville	0.15 %	0.26 %	1	208 Caddo Mills	0.16 %	0.17 %	3

\*Codes indicating provision adopted as of April 1, 2018: 1 = None, 2 = Actives only, 3 = Actives and Retirees

**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2019**  
**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>
210 Caldwell	0.29 %	0.38 %	3	297 Copper Canyon	0.49 %	0.51 %	3
212 Calvert	0.26 %	0.29 %	3	300 Copperas Cove	0.12 %	0.20 %	3
214 Cameron	0.15 %	0.26 %	3	301 Corinth	0.12 %	0.14 %	3
216 Campbell	0.19 %	0.19 %	3	302 Corpus Christi	0.16 %	0.27 %	1
220 Canadian	0.14 %	0.18 %	3	304 Corrigan	0.15 %	0.22 %	3
221 Caney City	0.08 %	0.08 %	3	306 Corsicana	0.15 %	0.23 %	3
222 Canton	0.18 %	0.21 %	3	308 Cotulla	0.26 %	0.31 %	3
224 Canyon	0.18 %	0.21 %	3	311 Covington	0.10 %	0.10 %	3
227 Carmine	0.06 %	0.08 %	3	310 Crandall	0.14 %	0.18 %	3
228 Carrizo Springs	0.26 %	0.36 %	3	312 Crane	0.13 %	0.20 %	3
230 Carrollton	0.13 %	0.17 %	1	314 Crawford	0.06 %	0.07 %	1
232 Carthage	0.19 %	0.27 %	3	316 Crockett	0.19 %	0.30 %	3
231 Castle Hills	0.11 %	0.16 %	3	318 Crosbyton	0.33 %	0.82 %	3
234 Castroville	0.23 %	0.31 %	3	320 Cross Plains	0.13 %	0.22 %	3
238 Cedar Hill	0.13 %	0.15 %	3	321 Cross Roads	0.06 %	0.07 %	3
239 Cedar Park	0.11 %	0.12 %	3	323 Crowley	0.11 %	0.13 %	3
240 Celeste	0.21 %	0.24 %	3	324 Crystal City	0.16 %	0.26 %	1
242 Celina	0.12 %	0.13 %	3	326 Cuero	0.22 %	0.28 %	3
244 Center	0.12 %	0.16 %	3	328 Cumby	0.13 %	0.14 %	3
246 Centerville	0.25 %	0.26 %	1	332 Daingerfield	0.19 %	0.23 %	1
247 Chandler	0.22 %	0.25 %	3	334 Daisetta	0.33 %	0.37 %	3
248 Charlotte	0.16 %	0.17 %	3	336 Dalhart	0.14 %	0.19 %	3
249 Chester	0.88 %	0.88 %	3	339 Dalworthington Gardens	0.09 %	0.12 %	3
245 Chico	0.27 %	0.41 %	3	340 Danbury	0.16 %	0.17 %	3
250 Childress	0.21 %	0.32 %	3	341 Darrouzett	0.07 %	0.07 %	3
251 Chillicothe	0.20 %	0.20 %	3	344 Dayton	0.13 %	0.18 %	3
253 Chireno	0.11 %	0.24 %	3	352 De Leon	0.10 %	0.19 %	3
254 Christine	0.02 %	0.08 %	1	10366 DeSoto	0.13 %	0.17 %	3
255 Cibolo	0.14 %	0.15 %	3	346 Decatur	0.21 %	0.25 %	3
256 Cisco	0.20 %	0.27 %	2	348 Deer Park	0.14 %	0.18 %	3
258 Clarendon	0.56 %	0.60 %	3	350 Dekalb	0.14 %	0.19 %	3
259 Clarksville	0.18 %	0.24 %	3	354 Del Rio	0.18 %	0.21 %	3
260 Clarksville City	0.05 %	0.17 %	3	353 Dell City	0.06 %	0.13 %	3
263 Clear Lake Shores	0.19 %	0.20 %	3	356 Denison	0.17 %	0.23 %	1
264 Cleburne	0.15 %	0.22 %	3	358 Denton	0.15 %	0.18 %	3
266 Cleveland	0.14 %	0.25 %	3	360 Denver City	0.21 %	0.28 %	3
268 Clifton	0.22 %	0.35 %	3	362 Deport	0.43 %	0.46 %	3
271 Clute	0.16 %	0.19 %	3	370 Devine	0.12 %	0.16 %	3
272 Clyde	0.12 %	0.20 %	3	371 Diboll	0.12 %	0.20 %	3
274 Coahoma	0.15 %	0.23 %	3	372 Dickens	0.18 %	0.18 %	3
276 Cockrell Hill	0.14 %	0.17 %	3	373 Dickinson	0.16 %	0.18 %	3
278 Coleman	0.19 %	0.27 %	1	374 Dilley	0.19 %	0.23 %	3
280 College Station	0.11 %	0.13 %	1	376 Dimmitt	0.23 %	0.27 %	1
281 Colleyville	0.13 %	0.16 %	3	382 Donna	0.13 %	0.16 %	1
282 Collinsville	0.22 %	0.26 %	3	379 Double Oak	0.15 %	0.19 %	3
283 Colmesneil	0.07 %	0.07 %	3	383 Dripping Springs	0.09 %	0.10 %	3
284 Colorado City	0.25 %	0.40 %	3	385 Driscoll	0.10 %	0.11 %	3
286 Columbus	0.15 %	0.22 %	3	384 Dublin	0.15 %	0.19 %	3
288 Comanche	0.20 %	0.31 %	3	386 Dumas	0.14 %	0.20 %	3
289 Combes	0.22 %	0.22 %	3	388 Duncanville	0.14 %	0.18 %	1
290 Commerce	0.13 %	0.23 %	3	394 Eagle Lake	0.19 %	0.25 %	3
294 Conroe	0.12 %	0.14 %	1	396 Eagle Pass	0.15 %	0.22 %	3
295 Converse	0.12 %	0.14 %	3	397 Early	0.12 %	0.17 %	3
298 Cooper	0.26 %	0.30 %	3	399 Earth	0.14 %	0.27 %	3
299 Coppell	0.14 %	0.16 %	3	393 East Bernard	0.17 %	0.19 %	3

\*Codes indicating provision adopted as of April 1, 2018: 1 = None, 2 = Actives only, 3 = Actives and Retirees

**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2019**  
**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>
401 East Mountain	0.10 %	0.28 %	3	502 Garrison	0.11 %	0.14 %	3
395 East Tawakoni	0.16 %	0.23 %	3	503 Gary	0.18 %	0.22 %	1
398 Eastland	0.25 %	0.32 %	3	504 Gatesville	0.18 %	0.23 %	3
402 Ector	0.37 %	0.37 %	3	505 George West	0.15 %	0.17 %	3
406 Eden	0.17 %	0.30 %	3	506 Georgetown	0.12 %	0.13 %	3
408 Edgewood	0.22 %	0.29 %	3	510 Giddings	0.21 %	0.28 %	3
410 Edinburg	0.12 %	0.15 %	3	512 Gilmer	0.17 %	0.23 %	3
412 Edna	0.19 %	0.27 %	3	514 Gladewater	0.15 %	0.19 %	3
414 El Campo	0.14 %	0.19 %	3	516 Glen Rose	0.23 %	0.31 %	3
416 Eldorado	0.16 %	0.33 %	3	517 Glenn Heights	0.11 %	0.14 %	3
418 Electra	0.18 %	0.29 %	3	518 Godley	0.09 %	0.18 %	3
420 Elgin	0.24 %	0.27 %	3	519 Goldsmith	0.41 %	0.41 %	3
422 Elkhart	0.35 %	0.40 %	1	520 Goldthwaite	0.23 %	0.26 %	3
427 Elmendorf	0.08 %	0.10 %	3	522 Goliad	0.19 %	0.23 %	3
432 Emory	0.16 %	0.21 %	3	524 Gonzales	0.15 %	0.23 %	3
436 Ennis	0.13 %	0.18 %	3	530 Gorman	0.14 %	0.14 %	3
439 Eules	0.14 %	0.17 %	1	532 Graford	0.24 %	0.24 %	3
440 Eustace	0.10 %	0.20 %	3	10534 Graham	0.21 %	0.32 %	3
441 Everman	0.28 %	0.31 %	3	536 Granbury	0.18 %	0.23 %	3
443 Fair Oaks Ranch	0.13 %	0.14 %	3	540 Grand Prairie	0.14 %	0.18 %	3
442 Fairfield	0.20 %	0.27 %	3	542 Grand Saline	0.19 %	0.30 %	3
445 Fairview	0.15 %	0.16 %	3	544 Grandview	0.12 %	0.22 %	1
20444 Falfurrias	0.19 %	0.23 %	3	546 Granger	0.25 %	0.35 %	1
446 Falls City	0.17 %	0.17 %	3	547 Granite Shoals	0.21 %	0.26 %	3
448 Farmers Branch	0.13 %	0.18 %	2	548 Grapeland	0.09 %	0.49 %	1
450 Farmersville	0.19 %	0.23 %	3	550 Grapevine	0.16 %	0.19 %	1
451 Farwell	0.12 %	0.14 %	3	552 Greenville	0.20 %	0.26 %	3
452 Fate	0.10 %	0.11 %	3	551 Gregory	0.20 %	0.25 %	3
454 Fayetteville	0.14 %	0.21 %	1	553 Grey Forest	0.19 %	0.22 %	3
456 Ferris	0.12 %	0.19 %	3	556 Groesbeck	0.17 %	0.22 %	3
458 Flatonia	0.18 %	0.23 %	3	558 Groom	0.20 %	0.26 %	1
460 Florence	0.13 %	0.14 %	3	559 Groves	0.16 %	0.22 %	1
20462 Floresville	0.16 %	0.20 %	1	560 Groveton	0.35 %	0.37 %	3
463 Flower Mound	0.12 %	0.13 %	3	562 Gruver	0.18 %	0.27 %	1
464 Floydada	0.11 %	0.23 %	3	563 Gun Barrel City	0.15 %	0.19 %	3
468 Forest Hill	0.11 %	0.14 %	3	564 Gunter	0.14 %	0.17 %	3
470 Forney	0.12 %	0.13 %	3	568 Hale Center	0.22 %	0.23 %	3
472 Fort Stockton	0.18 %	0.29 %	3	570 Hallettsville	0.19 %	0.27 %	3
476 Franklin	0.09 %	0.14 %	1	572 Hallsville	0.18 %	0.22 %	3
478 Frankston	0.14 %	0.18 %	3	574 Haltom City	0.13 %	0.18 %	3
480 Fredericksburg	0.19 %	0.23 %	3	576 Hamilton	0.15 %	0.26 %	3
482 Freeport	0.11 %	0.15 %	3	578 Hamlin	0.13 %	0.33 %	3
481 Freer	0.27 %	0.34 %	3	580 Happy	0.13 %	0.37 %	3
483 Friendswood	0.17 %	0.21 %	3	581 Harker Heights	0.12 %	0.14 %	3
484 Friona	0.11 %	0.18 %	3	10582 Harlingen	0.17 %	0.35 %	3
486 Frisco	0.12 %	0.13 %	3	20582 Harlingen Waterworks Sys	0.16 %	0.26 %	3
487 Fritch	0.12 %	0.17 %	3	583 Hart	0.06 %	0.10 %	1
488 Frost	0.49 %	0.61 %	1	586 Haskell	0.11 %	0.19 %	3
491 Fulshear	0.12 %	0.13 %	3	587 Haslet	0.17 %	0.18 %	3
493 Fulton	0.21 %	0.27 %	3	588 Hawkins	0.18 %	0.22 %	3
492 Gainesville	0.14 %	0.21 %	3	585 Hays	0.13 %	0.64 %	3
494 Galena Park	0.12 %	0.22 %	3	590 Hearne	0.15 %	0.23 %	3
498 Ganado	0.26 %	0.42 %	3	591 Heath	0.19 %	0.20 %	3
499 Garden Ridge	0.16 %	0.19 %	3	592 Hedley	0.09 %	0.38 %	3
500 Garland	0.17 %	0.21 %	3	595 Hedwig Village	0.22 %	0.25 %	3

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**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2019**  
**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>
593 Helotes	0.12 %	0.13 %	3	675 Jonestown	0.15 %	0.20 %	3
594 Hemphill	0.33 %	0.38 %	3	677 Josephine	0.09 %	0.09 %	3
596 Hempstead	0.21 %	0.23 %	3	671 Joshua	0.09 %	0.10 %	3
598 Henderson	0.10 %	0.16 %	3	672 Jourdanton	0.19 %	0.26 %	3
600 Henrietta	0.17 %	0.24 %	3	674 Junction	0.16 %	0.24 %	3
602 Hereford	0.16 %	0.22 %	3	676 Justin	0.09 %	0.11 %	1
605 Hewitt	0.10 %	0.12 %	3	678 Karnes City	0.13 %	0.21 %	3
609 Hickory Creek	0.08 %	0.09 %	3	680 Katy	0.14 %	0.17 %	3
606 Hico	0.15 %	0.25 %	3	682 Kaufman	0.16 %	0.20 %	3
607 Hidalgo	0.17 %	0.19 %	1	683 Keene	0.11 %	0.17 %	3
608 Higgins	0.22 %	0.25 %	3	681 Keller	0.12 %	0.14 %	3
610 Highland Park	0.14 %	0.17 %	1	685 Kemah	0.14 %	0.16 %	3
611 Highland Village	0.13 %	0.15 %	3	684 Kemp	0.09 %	0.15 %	1
613 Hill Country Village	0.13 %	0.14 %	3	686 Kenedy	0.18 %	0.20 %	3
612 Hillsboro	0.18 %	0.22 %	1	688 Kennedale	0.22 %	0.25 %	3
619 Hilshire Village	0.18 %	0.22 %	3	690 Kerens	0.20 %	0.20 %	3
614 Hitchcock	0.24 %	0.25 %	3	692 Kermit	0.19 %	0.26 %	3
615 Holland	0.39 %	0.48 %	3	10694 Kerrville	0.13 %	0.19 %	3
616 Holliday	0.15 %	0.15 %	1	20694 Kerrville PUB	0.14 %	0.18 %	3
617 Hollywood Park	0.14 %	0.17 %	3	10696 Kilgore	0.17 %	0.24 %	3
618 Hondo	0.13 %	0.17 %	3	698 Killeen	0.13 %	0.17 %	3
620 Honey Grove	0.24 %	0.34 %	3	700 Kingsville	0.14 %	0.19 %	1
622 Hooks	0.19 %	0.28 %	3	701 Kirby	0.09 %	0.11 %	3
626 Howe	0.22 %	0.32 %	3	702 Kirbyville	0.21 %	0.34 %	3
627 Hubbard	0.22 %	0.23 %	3	704 Knox City	0.39 %	0.44 %	3
628 Hudson	0.19 %	0.20 %	3	706 Kosse	0.15 %	0.15 %	3
629 Hudson Oaks	0.10 %	0.12 %	3	708 Kountze	0.13 %	0.17 %	3
630 Hughes Springs	0.29 %	0.30 %	3	709 Kress	0.03 %	0.73 %	1
632 Humble	0.14 %	0.16 %	3	699 Krugerville	0.11 %	0.12 %	3
633 Hunters Creek Village	0.09 %	0.35 %	3	707 Krum	0.13 %	0.14 %	3
634 Huntington	0.16 %	0.21 %	3	710 Kyle	0.11 %	0.12 %	3
636 Huntsville	0.16 %	0.21 %	3	725 La Coste	0.30 %	0.30 %	1
637 Hurst	0.14 %	0.19 %	1	714 La Feria	0.14 %	0.22 %	3
638 Hutchins	0.11 %	0.12 %	3	716 La Grange	0.22 %	0.27 %	3
640 Hutto	0.11 %	0.12 %	3	723 La Grulla	0.10 %	0.18 %	3
641 Huxley	0.17 %	0.24 %	3	732 La Joya	0.17 %	0.20 %	3
642 Idalou	0.07 %	0.07 %	3	721 La Marque	0.12 %	0.17 %	3
643 Ingleside	0.27 %	0.32 %	3	728 La Porte	0.14 %	0.17 %	3
646 Ingram	0.12 %	0.18 %	1	731 La Vernia	0.14 %	0.16 %	3
647 Iowa Colony	0.45 %	0.45 %	3	711 Lacy-Lakeview	0.17 %	0.21 %	3
644 Iowa Park	0.16 %	0.23 %	3	712 Ladonia	0.30 %	0.49 %	3
645 Iraan	0.32 %	0.48 %	3	713 Lago Vista	0.20 %	0.23 %	3
648 Irving	0.14 %	0.18 %	3	705 Laguna Vista	0.16 %	0.16 %	3
650 Italy	0.21 %	0.24 %	3	717 Lake Dallas	0.11 %	0.16 %	3
652 Itasca	0.17 %	0.23 %	3	718 Lake Jackson	0.16 %	0.21 %	3
654 Jacinto City	0.27 %	0.32 %	3	719 Lake Worth	0.12 %	0.16 %	3
656 Jacksboro	0.16 %	0.22 %	3	727 Lakeport	0.08 %	0.10 %	3
658 Jacksonville	0.13 %	0.19 %	3	715 Lakeside	0.30 %	0.33 %	3
660 Jasper	0.18 %	0.23 %	3	729 Lakeside City	0.12 %	0.20 %	3
664 Jefferson	0.25 %	0.31 %	3	720 Lakeway	0.15 %	0.18 %	3
665 Jersey Village	0.12 %	0.16 %	3	722 Lamesa	0.20 %	0.29 %	1
666 Jewett	0.25 %	0.26 %	3	724 Lampasas	0.13 %	0.19 %	3
668 Joaquin	0.30 %	0.44 %	3	726 Lancaster	0.10 %	0.13 %	3
670 Johnson City	0.18 %	0.19 %	3	730 Laredo	0.16 %	0.21 %	3
673 Jones Creek	0.14 %	0.24 %	3	733 Lavon	0.15 %	0.16 %	3

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**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2019**  
**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>
736 League City	0.14 %	0.17 %	3	826 McCamey	0.19 %	0.19 %	3
737 Leander	0.13 %	0.14 %	3	828 McGregor	0.19 %	0.25 %	3
735 Lefors	0.07 %	0.07 %	3	830 McKinney	0.12 %	0.13 %	3
739 Leon Valley	0.13 %	0.18 %	3	832 McLean	0.23 %	0.25 %	3
738 Leonard	0.13 %	0.21 %	3	833 McLendon-Chisholm	0.78 %	0.79 %	3
740 Levelland	0.17 %	0.20 %	3	834 Meadow	0.15 %	0.15 %	3
742 Lewisville	0.12 %	0.15 %	1	831 Meadowlakes	0.19 %	0.20 %	3
744 Lexington	0.08 %	0.16 %	1	835 Meadows Place	0.11 %	0.14 %	3
746 Liberty	0.16 %	0.19 %	1	837 Melissa	0.14 %	0.17 %	3
745 Liberty Hill	0.20 %	0.21 %	3	1501 Memorial Villages PD	0.11 %	0.17 %	3
748 Lindale	0.15 %	0.17 %	1	840 Memphis	0.24 %	0.28 %	3
750 Linden	0.31 %	0.36 %	3	842 Menard	0.13 %	0.17 %	1
755 Lipan	0.25 %	0.25 %	3	844 Mercedes	0.14 %	0.18 %	3
751 Little Elm	0.12 %	0.13 %	3	846 Meridian	0.10 %	0.11 %	3
752 Littlefield	0.16 %	0.26 %	3	848 Merkel	0.09 %	0.14 %	3
753 Live Oak	0.15 %	0.18 %	3	852 Mertzson	0.09 %	0.14 %	3
757 Liverpool	0.22 %	0.22 %	3	854 Mesquite	0.13 %	0.18 %	1
754 Livingston	0.19 %	0.23 %	3	856 Mexia	0.12 %	0.17 %	3
756 Llano	0.17 %	0.28 %	3	858 Miami	0.40 %	0.40 %	3
758 Lockhart	0.21 %	0.26 %	3	860 Midland	0.14 %	0.21 %	3
760 Lockney	0.42 %	0.52 %	3	862 Midlothian	0.11 %	0.14 %	3
765 Lone Star	0.14 %	0.19 %	3	863 Milano	0.57 %	0.57 %	3
766 Longview	0.15 %	0.21 %	3	864 Miles	0.25 %	0.25 %	3
768 Loraine	0.05 %	0.06 %	3	865 Milford	0.06 %	0.17 %	3
769 Lorena	0.17 %	0.19 %	3	868 Mineola	0.13 %	0.19 %	3
770 Lorenzo	0.10 %	0.11 %	1	870 Mineral Wells	0.20 %	0.26 %	3
771 Los Fresnos	0.14 %	0.17 %	3	874 Mission	0.14 %	0.16 %	3
773 Lott	0.07 %	0.09 %	3	875 Missouri City	0.11 %	0.13 %	3
774 Lovelady	0.08 %	0.12 %	3	876 Monahans	0.19 %	0.25 %	3
778 Lubbock	0.14 %	0.21 %	1	887 Mont Belvieu	0.14 %	0.16 %	3
779 Lucas	0.11 %	0.12 %	3	877 Montgomery	0.18 %	0.20 %	1
782 Lufkin	0.17 %	0.23 %	3	878 Moody	0.15 %	0.19 %	3
784 Luling	0.20 %	0.30 %	3	883 Morgan's Point	0.12 %	0.23 %	2
785 Lumberton	0.17 %	0.22 %	3	882 Morgan's Point Resort	0.14 %	0.20 %	3
786 Lyford	0.16 %	0.18 %	1	884 Morton	0.17 %	0.20 %	3
787 Lytle	0.18 %	0.19 %	3	886 Moulton	0.10 %	0.16 %	3
790 Madisonville	0.24 %	0.34 %	3	890 Mount Enterprise	0.09 %	0.12 %	3
791 Magnolia	0.28 %	0.31 %	3	892 Mt. Pleasant	0.14 %	0.18 %	3
792 Malakoff	0.22 %	0.26 %	3	894 Mt. Vernon	0.15 %	0.25 %	3
796 Manor	0.10 %	0.11 %	3	896 Muenster	0.30 %	0.39 %	1
798 Mansfield	0.13 %	0.15 %	3	898 Muleshoe	0.15 %	0.21 %	3
799 Manvel	0.13 %	0.14 %	3	901 Munday	0.09 %	0.15 %	3
800 Marble Falls	0.15 %	0.19 %	3	903 Murphy	0.12 %	0.13 %	3
802 Marfa	0.29 %	0.38 %	3	10904 Nacogdoches	0.14 %	0.20 %	3
804 Marion	0.29 %	0.38 %	3	906 Naples	0.17 %	0.22 %	3
806 Marlin	0.12 %	0.27 %	3	907 Nash	0.10 %	0.16 %	3
810 Marshall	0.16 %	0.25 %	3	905 Nassau Bay	0.12 %	0.15 %	3
812 Mart	0.19 %	0.28 %	3	909 Natalia	0.19 %	0.21 %	3
813 Martindale	0.16 %	0.17 %	3	908 Navasota	0.12 %	0.19 %	3
814 Mason	0.25 %	0.32 %	3	910 Nederland	0.16 %	0.21 %	1
816 Matador	0.23 %	0.26 %	3	912 Needville	0.36 %	0.42 %	3
818 Mathis	0.21 %	0.27 %	3	914 New Boston	0.17 %	0.23 %	3
820 Maud	0.08 %	0.10 %	3	10916 New Braunfels	0.11 %	0.14 %	3
822 Maypearl	0.25 %	0.29 %	3	20916 New Braunfels Utilities	0.14 %	0.16 %	3
824 McAllen	0.12 %	0.16 %	1	915 New Deal	0.18 %	0.19 %	1

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**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2019**  
**SUPPLEMENTAL DEATH BENEFITS**

<u>CITY</u>	<u>ACTIVES</u>	<u>ACTIVES &amp;</u>	<u>CODE*</u>	<u>CITY</u>	<u>ACTIVES</u>	<u>ACTIVES &amp;</u>	<u>CODE*</u>
<u>NO. CITY NAME</u>	<u>ONLY</u>	<u>RETIREES</u>		<u>NO. CITY NAME</u>	<u>ONLY</u>	<u>RETIREES</u>	
923 New Fairview	0.03 %	0.13 %	3	1007 Plains	0.21 %	0.23 %	3
918 New London	0.18 %	0.21 %	1	1008 Plainview	0.14 %	0.24 %	1
919 New Summerfield	0.22 %	0.22 %	1	1010 Plano	0.14 %	0.17 %	1
917 New Waverly	0.28 %	0.32 %	3	1012 Pleasanton	0.14 %	0.16 %	3
913 Newark	0.12 %	0.12 %	3	1013 Point	0.08 %	0.11 %	1
920 Newton	0.13 %	0.23 %	3	1017 Ponder	0.36 %	0.40 %	3
922 Nixon	0.15 %	0.21 %	3	1014 Port Aransas	0.19 %	0.22 %	3
924 Nocona	0.18 %	0.26 %	3	11016 Port Arthur	0.18 %	0.25 %	3
925 Nolanville	0.13 %	0.14 %	3	1018 Port Isabel	0.13 %	0.18 %	3
928 Normangee	0.13 %	0.28 %	3	1020 Port Lavaca	0.16 %	0.24 %	3
931 North Richland Hills	0.12 %	0.15 %	1	1022 Port Neches	0.14 %	0.18 %	1
930 Northlake	0.09 %	0.10 %	3	1019 Portland	0.17 %	0.20 %	3
935 O'Donnell	0.12 %	0.18 %	3	1024 Post	0.24 %	0.48 %	3
936 Oak Point	0.12 %	0.13 %	3	1026 Poteet	0.15 %	0.19 %	3
937 Oak Ridge North	0.18 %	0.20 %	3	1028 Poth	0.21 %	0.32 %	3
942 Odem	0.25 %	0.40 %	3	1030 Pottsboro	0.13 %	0.17 %	3
944 Odessa	0.14 %	0.20 %	3	1031 Prairie View	0.21 %	0.21 %	3
945 Oglesby	0.04 %	0.17 %	3	1032 Premont	0.16 %	0.24 %	3
949 Old River-Winfree	0.13 %	0.13 %	1	1029 Presidio	0.21 %	0.23 %	3
950 Olmos Park	0.10 %	0.14 %	1	1033 Primera	0.14 %	0.16 %	3
951 Olney	0.15 %	0.18 %	3	1034 Princeton	0.10 %	0.11 %	3
953 Omaha	0.28 %	0.28 %	3	1036 Prosper	0.12 %	0.13 %	1
954 Onalaska	0.11 %	0.15 %	3	1037 Providence Village	0.21 %	0.21 %	3
958 Orange	0.16 %	0.22 %	1	1042 Quanah	0.24 %	0.36 %	3
960 Orange Grove	0.12 %	0.17 %	3	1045 Queen City	0.32 %	0.32 %	3
959 Ore City	0.13 %	0.14 %	3	1044 Quinlan	0.08 %	0.09 %	3
962 Overton	0.14 %	0.18 %	3	1047 Quintana	0.09 %	0.09 %	3
961 Ovilla	0.11 %	0.14 %	3	1046 Quitaque	0.16 %	0.20 %	3
963 Oyster Creek	0.17 %	0.21 %	3	1048 Quitman	0.14 %	0.22 %	3
964 Paducah	0.22 %	0.32 %	3	1050 Ralls	0.26 %	0.51 %	3
966 Palacios	0.23 %	0.28 %	3	1051 Rancho Viejo	0.09 %	0.10 %	3
968 Palestine	0.13 %	0.20 %	3	1052 Ranger	0.18 %	0.27 %	1
970 Palmer	0.09 %	0.10 %	3	1054 Rankin	0.20 %	0.29 %	3
969 Palmhurst	0.08 %	0.09 %	3	1055 Ransom Canyon	0.23 %	0.24 %	3
971 Palmview	0.09 %	0.10 %	3	1058 Raymondville	0.12 %	0.29 %	3
972 Pampa	0.13 %	0.25 %	3	1061 Red Oak	0.12 %	0.13 %	3
974 Panhandle	0.22 %	0.25 %	1	1062 Redwater	0.15 %	0.15 %	3
973 Panorama Village	0.42 %	0.48 %	3	1064 Refugio	0.14 %	0.28 %	1
975 Pantego	0.11 %	0.16 %	3	1065 Reklaw	0.24 %	0.33 %	3
976 Paris	0.16 %	0.25 %	3	1066 Reno (Lamar County)	0.09 %	0.10 %	3
977 Parker	0.17 %	0.19 %	3	1069 Reno (Parker County)	0.18 %	0.20 %	3
978 Pasadena	0.17 %	0.23 %	3	1067 Rhome	0.16 %	0.19 %	3
983 Pearland	0.11 %	0.12 %	3	1068 Rice	0.10 %	0.12 %	3
984 Pearsall	0.13 %	0.17 %	3	1070 Richardson	0.14 %	0.18 %	1
988 Pecos City	0.20 %	0.26 %	3	1073 Richland Hills	0.19 %	0.26 %	3
989 Pelican Bay	0.11 %	0.11 %	3	1074 Richland Springs	0.07 %	0.23 %	3
991 Penitas	0.07 %	0.07 %	3	1076 Richmond	0.14 %	0.16 %	3
994 Perryton	0.21 %	0.27 %	3	1077 Richwood	0.10 %	0.13 %	3
1000 Pflugerville	0.12 %	0.14 %	3	1072 Riesel	0.12 %	0.15 %	3
1002 Pharr	0.10 %	0.13 %	3	1075 Rio Grande City	0.13 %	0.14 %	3
1004 Pilot Point	0.11 %	0.13 %	3	1079 Rio Vista	0.08 %	0.11 %	3
1005 Pinehurst	0.16 %	0.24 %	3	1080 Rising Star	0.18 %	0.27 %	3
1003 Pineland	0.17 %	0.30 %	3	1082 River Oaks	0.15 %	0.28 %	3
1001 Piney Point Village	0.20 %	0.23 %	3	1084 Roanoke	0.14 %	0.15 %	1
1006 Pittsburg	0.11 %	0.22 %	3	1088 Robert Lee	0.02 %	0.28 %	3

\*Codes indicating provision adopted as of April 1, 2018: 1 = None, 2 = Actives only, 3 = Actives and Retirees

**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2019**  
**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>
1089 Robinson	0.16 %	0.19 %	3	1173 Shavano Park	0.10 %	0.13 %	3
21090 Robstown	0.11 %	0.14 %	3	1175 Shenandoah	0.12 %	0.14 %	3
11090 Robstown Utility Systems	0.26 %	0.33 %	3	1181 Shepherd	0.19 %	0.19 %	3
1092 Roby	0.08 %	0.57 %	3	1176 Sherman	0.14 %	0.20 %	3
1096 Rockdale	0.29 %	0.35 %	3	1178 Shiner	0.23 %	0.36 %	3
1098 Rockport	0.20 %	0.24 %	3	1179 Shoreacres	0.22 %	0.25 %	3
1100 Rocksprings	0.07 %	0.08 %	1	1180 Silsbee	0.13 %	0.22 %	1
1102 Rockwall	0.13 %	0.15 %	3	1182 Silverton	0.12 %	0.20 %	3
1104 Rogers	0.09 %	0.22 %	1	1184 Sinton	0.14 %	0.23 %	3
1105 Rollingwood	0.17 %	0.21 %	3	1185 Skellytown	0.13 %	0.20 %	3
1106 Roma	0.18 %	0.24 %	3	1186 Slaton	0.16 %	0.27 %	3
1109 Roscoe	0.35 %	0.39 %	3	1188 Smithville	0.18 %	0.25 %	3
1112 Rosebud	0.21 %	0.31 %	3	1189 Smyer	0.17 %	0.17 %	3
1114 Rosenberg	0.09 %	0.12 %	3	1190 Snyder	0.17 %	0.23 %	3
1116 Rotan	0.16 %	0.26 %	3	1191 Somerset	0.08 %	0.22 %	3
1118 Round Rock	0.12 %	0.14 %	3	1192 Somerville	0.36 %	0.48 %	3
1119 Rowlett	0.13 %	0.15 %	1	1194 Sonora	0.17 %	0.28 %	3
1120 Royse City	0.15 %	0.17 %	3	1196 Sour Lake	0.36 %	0.37 %	3
1122 Rule	0.15 %	0.20 %	3	1198 South Houston	0.19 %	0.25 %	3
1123 Runaway Bay	0.17 %	0.22 %	3	1199 South Padre Island	0.13 %	0.16 %	3
1124 Runge	0.63 %	0.71 %	3	1197 Southlake	0.12 %	0.14 %	3
1126 Rusk	0.16 %	0.19 %	3	1200 Southmayd	0.07 %	0.09 %	3
1128 Sabinal	0.27 %	0.36 %	3	1202 Southside Place	0.13 %	0.20 %	3
1129 Sachse	0.13 %	0.15 %	3	1204 Spearman	0.20 %	0.26 %	3
1131 Saginaw	0.15 %	0.18 %	3	1201 Splendora	0.17 %	0.17 %	3
1130 Saint Jo	0.07 %	0.30 %	3	1205 Spring Valley Village	0.12 %	0.16 %	3
1133 Salado	0.16 %	0.20 %	3	1203 Springtown	0.14 %	0.17 %	3
1132 San Angelo	0.15 %	0.24 %	1	1206 Spur	0.22 %	0.24 %	3
21136 San Antonio	0.16 %	0.22 %	1	1207 Stafford	0.14 %	0.18 %	3
11136 San Antonio Water System	0.17 %	0.22 %	1	1208 Stamford	0.35 %	0.47 %	3
1138 San Augustine	0.15 %	0.24 %	3	1210 Stanton	0.18 %	0.21 %	3
1140 San Benito	0.14 %	0.21 %	3	1211 Star Harbor	0.21 %	0.47 %	3
1144 San Felipe	0.16 %	0.19 %	3	1212 Stephenville	0.15 %	0.20 %	3
1148 San Juan	0.14 %	0.17 %	3	1213 Sterling City	0.19 %	0.22 %	1
1150 San Marcos	0.13 %	0.15 %	3	1214 Stinnett	0.13 %	0.21 %	3
1152 San Saba	0.22 %	0.28 %	3	1216 Stockdale	0.33 %	0.35 %	3
1146 Sanger	0.12 %	0.14 %	3	1218 Stratford	0.24 %	0.29 %	3
1153 Sansom Park	0.11 %	0.14 %	3	1224 Sudan	0.11 %	0.19 %	1
1155 Santa Fe	0.17 %	0.21 %	1	1225 Sugar Land	0.14 %	0.15 %	3
1158 Savoy	0.14 %	0.30 %	3	1226 Sulphur Springs	0.18 %	0.24 %	3
1159 Schertz	0.10 %	0.12 %	3	1228 Sundown	0.12 %	0.20 %	3
1160 Schulenburg	0.19 %	0.26 %	3	1229 Sunnyvale	0.21 %	0.25 %	3
1161 Seabrook	0.12 %	0.15 %	3	1230 Sunray	0.09 %	0.20 %	3
1162 Seadrift	0.16 %	0.17 %	3	1227 Sunrise Beach Village	0.08 %	0.13 %	3
1164 Seagoville	0.16 %	0.20 %	3	1231 Sunset Valley	0.10 %	0.12 %	3
1166 Seagraves	0.30 %	0.51 %	3	1233 Surfside Beach	0.22 %	0.23 %	3
1167 Sealy	0.13 %	0.15 %	3	1232 Sweeny	0.14 %	0.31 %	3
1168 Seguin	0.13 %	0.19 %	3	1234 Sweetwater	0.19 %	0.26 %	3
1169 Selma	0.12 %	0.13 %	3	1264 TMRS	0.15 %	0.17 %	3
1170 Seminole	0.18 %	0.23 %	3	1236 Taft	0.25 %	0.36 %	3
1171 Seven Points	0.11 %	0.18 %	3	1238 Tahoka	0.23 %	0.30 %	3
1172 Seymour	0.24 %	0.35 %	3	1240 Talty	0.44 %	0.44 %	3
1165 Shady Shores	0.07 %	0.07 %	3	1241 Tatum	0.11 %	0.15 %	3
1177 Shallowater	0.11 %	0.14 %	3	1246 Taylor	0.17 %	0.24 %	3
1174 Shamrock	0.28 %	0.49 %	3	1248 Teague	0.09 %	0.33 %	3

\*Codes indicating provision adopted as of April 1, 2018: 1 = None, 2 = Actives only, 3 = Actives and Retirees

**Section 5**  
**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**CITY CONTRIBUTION RATES FOR 2019**  
**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>
1252 Temple	0.13 %	0.20 %	3	1337 Wallis	0.23 %	0.26 %	3
1254 Tenaha	0.07 %	0.19 %	3	1338 Walnut Springs	0.10 %	0.15 %	3
1256 Terrell	0.15 %	0.21 %	3	1340 Waskom	0.18 %	0.22 %	3
1258 Terrell Hills	0.17 %	0.20 %	3	1341 Watauga	0.15 %	0.18 %	3
31263 Tex Municipal League IEBP	0.21 %	0.22 %	3	1342 Waxahachie	0.16 %	0.20 %	3
21263 Tex Municipal League IRP	0.20 %	0.21 %	3	1344 Weatherford	0.13 %	0.17 %	3
21260 Texarkana	0.18 %	0.28 %	1	1345 Webster	0.18 %	0.21 %	3
11260 Texarkana Police Dept	0.12 %	0.15 %	1	1346 Weimar	0.16 %	0.27 %	3
31260 Texarkana Water Utilities	0.17 %	0.25 %	1	1350 Wellington	0.27 %	0.50 %	3
1262 Texas City	0.15 %	0.24 %	1	1352 Wells	0.05 %	0.09 %	1
11263 Texas Municipal League	0.13 %	0.18 %	3	1354 Weslaco	0.11 %	0.16 %	3
1267 The Colony	0.12 %	0.14 %	3	1356 West	0.18 %	0.28 %	3
1269 Thompsons	0.20 %	0.20 %	3	1358 West Columbia	0.13 %	0.20 %	1
1268 Thorndale	0.27 %	0.34 %	3	1359 West Lake Hills	0.11 %	0.26 %	3
1272 Thrall	0.42 %	0.42 %	3	1361 West Orange	0.15 %	0.24 %	1
1274 Three Rivers	0.35 %	0.39 %	3	1365 West Tawakoni	0.14 %	0.25 %	3
1276 Throckmorton	0.10 %	0.25 %	3	1364 West Univ. Place	0.14 %	0.19 %	3
1277 Tiki Island	0.17 %	0.18 %	3	1363 Westlake	0.18 %	0.19 %	3
1278 Timpson	0.40 %	0.44 %	3	1362 Westover Hills	0.17 %	0.29 %	3
1280 Tioga	0.12 %	0.12 %	3	1366 Westworth Village	0.17 %	0.19 %	3
1283 Tolar	0.10 %	0.11 %	3	1368 Wharton	0.18 %	0.22 %	3
1286 Tom Bean	0.10 %	0.12 %	3	1370 Wheeler	0.07 %	0.11 %	3
1284 Tomball	0.16 %	0.19 %	3	1372 White Deer	0.37 %	0.60 %	3
1290 Trent	0.38 %	0.48 %	3	1377 White Oak	0.15 %	0.21 %	3
1292 Trenton	0.24 %	0.33 %	3	1378 White Settlement	0.12 %	0.16 %	3
1293 Trinidad	0.33 %	0.44 %	3	1374 Whiteface	0.09 %	0.34 %	3
1294 Trinity	0.31 %	0.34 %	3	1375 Whitehouse	0.14 %	0.18 %	3
1295 Trophy Club	0.13 %	0.15 %	3	1376 Whitesboro	0.19 %	0.24 %	3
1296 Troup	0.19 %	0.28 %	3	1380 Whitewright	0.07 %	0.13 %	3
1297 Troy	0.33 %	0.43 %	3	1382 Whitney	0.15 %	0.18 %	3
1298 Tulia	0.16 %	0.24 %	3	1384 Wichita Falls	0.17 %	0.25 %	1
1299 Turkey	0.13 %	0.30 %	3	1386 Willis	0.14 %	0.18 %	3
1301 Tye	0.14 %	0.17 %	3	1387 Willow Park	0.11 %	0.12 %	3
1304 Tyler	0.15 %	0.23 %	3	1388 Wills Point	0.10 %	0.19 %	3
1305 Universal City	0.15 %	0.18 %	3	1390 Wilmer	0.15 %	0.16 %	3
1306 University Park	0.19 %	0.23 %	1	1392 Wimberley	0.15 %	0.20 %	3
1308 Uvalde	0.12 %	0.17 %	3	1393 Windcrest	0.18 %	0.21 %	3
1312 Valley Mills	0.12 %	0.12 %	3	1395 Winfield	0.32 %	0.32 %	3
1313 Valley View	0.06 %	0.07 %	3	1396 Wink	0.27 %	0.30 %	3
1314 Van	0.17 %	0.24 %	3	1398 Winnsboro	0.18 %	0.24 %	3
1316 Van Alstyne	0.10 %	0.14 %	3	1399 Winona	0.10 %	0.19 %	3
1318 Van Horn	0.15 %	0.19 %	3	1400 Winters	0.14 %	0.36 %	3
1320 Vega	0.12 %	0.18 %	3	1403 Wolfforth	0.17 %	0.19 %	3
1324 Venus	0.10 %	0.13 %	1	1409 Woodcreek	0.62 %	0.67 %	3
1326 Vernon	0.16 %	0.30 %	3	1404 Woodsboro	0.17 %	0.18 %	3
1328 Victoria	0.12 %	0.19 %	3	1406 Woodville	0.18 %	0.26 %	3
1329 Vidor	0.14 %	0.20 %	3	1407 Woodway	0.13 %	0.15 %	3
1500 Village Fire Department	0.10 %	0.13 %	3	1408 Wortham	0.12 %	0.13 %	3
1327 Village of the Hills	0.06 %	0.06 %	3	1410 Wylie	0.11 %	0.12 %	3
1330 Waco	0.15 %	0.22 %	1	1412 Yoakum	0.22 %	0.28 %	3
1332 Waelder	0.16 %	0.26 %	3	1414 Yorktown	0.14 %	0.37 %	3
1334 Wake Village	0.16 %	0.28 %	3	1415 Zavalla	0.10 %	0.11 %	1
1336 Waller	0.26 %	0.32 %	3				

\*Codes indicating provision adopted as of April 1, 2018: 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, 2010 to December 31, 2014. They were adopted in 2015 and first used in the December 31, 2015 actuarial valuation. The post-retirement mortality assumption for healthy annuitants and Annuity Purchase Rate (APRs) are based on the Mortality Experience Investigation Study covering 2009 through 2011 and dated December 31, 2013. In conjunction with these changes 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) calculating the Annuity Purchase Rates (APRs) used in 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 – 3.00% 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 2005 to 2014, 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	10.50%
2	7.50%
3	7.00%
4	6.50%
5	6.00%
6	5.50%
7	5.25%
8-10	4.75%
11	4.50%
12-13	4.25%
14-16	4.00%
17-24	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.

## II. Demographic Assumptions

### A. Termination Rates

- 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 – 63%, 2) Police – 88%, 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	0.2920	0.2623	0.2186	0.1932	0.1850	0.1673	0.1529	0.1243	0.1022	0.0816
25	0.2653	0.2269	0.1812	0.1554	0.1429	0.1267	0.1148	0.1006	0.0926	0.0757
30	0.2451	0.2052	0.1610	0.1322	0.1079	0.0998	0.0896	0.0774	0.0744	0.0621
35	0.2505	0.2070	0.1577	0.1265	0.1050	0.0994	0.0848	0.0719	0.0621	0.0567
40	0.2467	0.2060	0.1561	0.1213	0.1046	0.0943	0.0805	0.0710	0.0601	0.0577
45	0.2268	0.1934	0.1556	0.1220	0.1053	0.0926	0.0813	0.0711	0.0605	0.0575
50	0.2078	0.1731	0.1412	0.1149	0.1016	0.0887	0.0807	0.0716	0.0604	0.0578
55	0.2003	0.1668	0.1265	0.1074	0.0861	0.0864	0.0771	0.0682	0.0609	0.0560
60	0.1999	0.1542	0.1231	0.1060	0.0790	0.0868	0.0753	0.0683	0.0571	0.0549
65	0.2000	0.1463	0.1238	0.1063	0.0803	0.0867	0.0757	0.0700	0.0547	0.0551
70	0.2000	0.1477	0.1237	0.1063	0.0802	0.0867	0.0756	0.0697	0.0551	0.0551

#### Females

Age	Service									
	0	1	2	3	4	5	6	7	8	9
20	0.3030	0.2790	0.2221	0.2098	0.1997	0.2021	0.1536	0.1539	0.1564	0.1574
25	0.2782	0.2409	0.2067	0.1962	0.1710	0.1663	0.1369	0.1352	0.1186	0.1125
30	0.2574	0.2188	0.1949	0.1762	0.1347	0.1348	0.1276	0.1126	0.0973	0.0804
35	0.2424	0.2118	0.1805	0.1438	0.1273	0.1238	0.1112	0.1085	0.1000	0.0769
40	0.2244	0.1993	0.1614	0.1342	0.1295	0.1097	0.1023	0.0924	0.0834	0.0733
45	0.2191	0.1853	0.1427	0.1337	0.1054	0.1017	0.0894	0.0784	0.0705	0.0725
50	0.2201	0.1793	0.1347	0.1229	0.0886	0.0881	0.0823	0.0723	0.0675	0.0617
55	0.2200	0.1738	0.1350	0.1199	0.0834	0.0806	0.0713	0.0705	0.0685	0.0551
60	0.2200	0.1523	0.1350	0.1172	0.0798	0.0843	0.0645	0.0639	0.0429	0.0379
65	0.2200	0.1431	0.1350	0.1150	0.0800	0.0857	0.0667	0.0593	0.0276	0.0280
70	0.2200	0.1447	0.1350	0.1154	0.0800	0.0854	0.0664	0.0601	0.0303	0.0298

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 – 52%, 2) Police – 79%, or 3) Other – 115%. A sample of the base rates follows:

Years from Retirement	Male	Female
1	1.72%	2.20%
2	2.29%	2.97%
3	2.71%	3.54%
4	3.06%	4.01%
5	3.35%	4.41%
6	3.61%	4.77%
7	3.85%	5.10%
8	4.07%	5.40%
9	4.28%	5.68%
10	4.47%	5.94%
11	4.65%	6.19%
12	4.82%	6.43%
13	4.98%	6.66%
14	5.14%	6.87%
15	5.29%	7.08%

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 1½-to-1 cities, and 8% is added for 1-to-1 cities.

Age	Percent of Terminating Employees Choosing to Take a Refund
25	41.2%
30	41.2%
35	41.2%
40	38.0%
45	32.6%
50	27.1%
55	21.7%

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 RP2000 Combined Healthy Mortality Tables with Blue Collar Adjustment are used with male rates multiplied by 109% and female rates multiplied by 103%. The rates are projected on a fully generational basis by scale BB to account for future mortality improvements.

D. Disabled Annuitant Mortality Rates

For calculating the actuarial liability and the retirement contribution rates, the Gender-distinct RP2000 Combined Healthy Mortality Tables with Blue Collar Adjustment are used with male rates multiplied by 109% and female rates multiplied by 103% with a 3 year set-forward for both males and females. In addition, a 3% minimum mortality rate will be applied to reflect the impairment for younger members who become disabled. The rates are projected on a fully generational basis by scale BB 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 Gender-distinct RP2000 Combined Healthy Mortality Tables with Blue Collar Adjustment are used with male rates multiplied by 54.5% and female rates multiplied by 51.5%. The rates are projected on a fully generational basis by scale BB 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) for 2014 are based on the UP-1984 Table with an age setback of two years for retirees and an age setback of eight years for beneficiaries. Beginning in 2027 the APRs will be 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. 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. From 2015 through 2026, the fully generational APRs will be phased into.

G. Disability Rates

Age	Males & Females
20	0.000004
25	0.000025
30	0.000099
35	0.000259
40	0.000494
45	0.000804
50	0.001188
55	0.001647
60	0.002180
65	0.002787

H. Service Retirement Rates, applied to both Active and Inactive Members  
 The base table rates vary by gender, entry age group, and age. For members under age 62, these base rates are then multiplied by 2 factors based on 1) employee contribution rate and employer match and 2) if the city has a recurring COLA.

Age	Males Entry Age Groups			Females Entry Age Groups		
	Ages 32 & Under	Ages 33 - 47	Ages 48 & Over	Ages 32 & Under	Ages 33 - 47	Ages 48 & Over
40-44	0.06	-	-	0.06	-	-
45-49	0.06	-	-	0.06	-	-
50-52	0.08	-	-	0.08	-	-
53	0.08	0.10	-	0.08	0.10	-
54	0.08	0.10	-	0.11	0.10	-
55-59	0.14	0.10	-	0.11	0.10	-
60	0.20	0.15	0.10	0.14	0.15	0.10
61	0.25	0.30	0.20	0.28	0.26	0.20
62	0.32	0.25	0.12	0.28	0.17	0.12
63	0.32	0.23	0.12	0.28	0.17	0.12
64	0.32	0.35	0.20	0.28	0.22	0.20
65	0.32	0.32	0.20	0.28	0.27	0.20
66-69	0.22	0.22	0.17	0.22	0.22	0.17
70-74	0.20	0.22	0.25	0.22	0.22	0.25
75 and over	1.00	1.00	1.00	1.00	1.00	1.00

Note: For cities without a 20-year/any age retirement provision, the rates for entry ages 32 and under are loaded by 20% for ages below 60.

Plan Design Factors Applied to Base Retirement Rates

Employer Match	Employee Contribution Rate		
	5%	6%	7%
1 - 1	0.75	0.80	0.84
1½ - 1	0.81	0.86	0.92
2 - 1	0.86	0.93	1.00

Recurring COLA: 100%

No Recurring COLA: 90%

**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 15% corridor around the market value of assets, if necessary. For the purpose of determining the UAAL and annual required contribution associated with the Supplemental Death Trust, assets are valued at the Fund Value.
  
- 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 with twenty or more employees, 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. Beginning January 1, 2016, all new experience losses are amortized over individual periods of not more than 25 years. Previously, some cities amortized their losses over a 30 year period. 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 non ad hoc bases are erased and the surplus for overfunded cities is amortized over a 25 year open period.

Ad hoc benefit enhancements are amortized over individual periods using a level dollar policy. The period will be based on the minimum of 15 years or the current life expectancy of the covered group.

For the December 31, 2013 actuarial valuation, there was a one-time change in the amortization policy for underfunded cities implemented in conjunction with the changes to the assumptions and cost method to minimize rate volatility associated with these changes. An initial ARC was developed using the methodology described above. For cities with a decrease in the rate compared to the rate calculated prior to changes, the amortization period for all non-ad hoc bases was shortened enough to keep the rates stable (if possible). Cities with an increase of more than 0.50% were allowed to extend the amortization periods for non-ad hoc bases up to 30 years to keep the full contribution rate from increasing. For cities with an increase of 0.50% or less, the amortization periods for all non-ad hoc bases could be extended to 25 years to keep the rate from increasing. The amortization period calculated in the prior steps was then rounded up to the nearest integer to calculate the final full contribution rate.

For the purpose of determining the annual required contribution associated with the Supplemental Death Trust, the amortization of the UAAL is done using a 25 year open period.

- 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 115% 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 amortization period for amortizing gains and losses is decreased from current levels 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 25 years.

- E. Supplemental Death Benefit – 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. Due to the significant reserve in the Supplemental Death Trust, the SDB rate for retiree coverage is currently only one-third of the total term cost.

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

1. Valuation payroll (used for determining the amortization contribution rate): An exponential average of the actual salaries paid 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: Healthy members are assumed to choose a life only benefit when they retire. Disabled members are assumed to select a 50% Joint and Survivor option when they retire.
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 12/31/2017 Valuation

CITY	Changes
Abernathy	Adopted 20 yr, any age retirement eligibility.
Alamo Heights	1) Decreased repeating USC from 100% to 75%. 2) Dropped transfer provision from repeating USC. 3) Increased employee contribution rate from 6% to 7%.
Alice	1) Decreased repeating COLA from 70% to 30%. 2) Decreased repeating USC from 100% to 75%.
Angleton	1) Adopted 5 year vesting. 2) Removed statutory max.
Annetta	1) Adopted restricted prior service credit. * 2) Increased municipal matching ratio from 1 - 1 to 2 - 1.
Aubrey	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 13.50% due to plan changes.
Bells	Adopted 20 yr, any age retirement eligibility.
Bonham	Adopted 20 yr, any age retirement eligibility.
Breckenridge	Adopted buy-back provision. *
Brenham	Granted 70% ad hoc COLA.
Bridgeport	Removed statutory max.
Bruceville-Eddy	Adopted restricted prior service credit. *
Buda	Removed statutory max.
Burkburnett	Granted 30% ad hoc COLA.
Cedar Park	1) Increased repeating COLA from 30% to 50%. 2) Removed statutory max.
Celina	Adopted restricted prior service credit. *
Cisco	1) Increased municipal matching ratio from 1.5 - 1 to 2 - 1. 2) Increased statutory max to 11.50% due to plan changes.
Colmesneil	Granted 50% ad hoc USC.
Corpus Christi	1) Granted 100% ad hoc USC. 2) Granted 70% ad hoc COLA.
Corrigan	1) Increased municipal matching ratio from 1 - 1 to 2 - 1. 2) Increased statutory max to 11.50% due to plan changes.
Dripping Springs	1) Increased employee contribution rate from 5% to 6%. 2) Increased municipal matching ratio from 1 - 1 to 2 - 1.
Frost	Adopted 5 year vesting.
Fulshear	Increased employee contribution rate from 5% to 7%.
Garrison	Increased employee contribution rate from 6% to 7%.
Gun Barrel City	Adopted 20 yr, any age retirement eligibility.
Hilshire Village	Increased municipal matching ratio from 1 - 1 to 2 - 1.
Hurst	Granted 30% ad hoc COLA.
Jonestown	1) Adopted restricted prior service credit. * 2) Increased employee contribution rate from 6% to 7%.
Justin	1) Decreased repeating USC from 100% to 50%. 2) Increased employee contribution rate from 5% to 7%. 3) Increased municipal matching ratio from 1 - 1 to 2 - 1. 4) Increased statutory max to 13.50% due to plan changes.
Kaufman	Granted 70% ad hoc COLA.
Keene	Decreased repeating COLA from 70% to 30%.
Lakeway	Increased statutory max to 15.50%.
Los Fresnos	1) Increased municipal matching ratio from 1.5 - 1 to 2 - 1. 2) Increased statutory max to 11.50% due to plan changes.
Lovelady	Increased employee contribution rate from 5% to 7%.
McLean	Adopted 20 yr, any age retirement eligibility.
Meadows Place	1) Granted 100% ad hoc USC. 2) Granted 70% ad hoc COLA.
Melissa	Adopted 100% repeating USC with transfer.
Mesquite	1) Granted 100% ad hoc USC with transfer. 2) Granted 50% 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 12/31/2017 Valuation**

CITY	Changes
Missouri City	1) Granted 100% ad hoc USC with transfer.
Murphy	2) Granted 70% ad hoc COLA.
Nacogdoches	Increased statutory max to 15.50%.
	1) Adopted buy-back provision. *
	2) Adopted participation for the Economic Development Corporation and the Department of Conventions and Tourism. *
New Braunfels Utilities	Increased municipal matching ratio from 1.5 - 1 to 2 - 1.
Northlake	Adopted 20 yr, any age retirement eligibility.
Oak Point	Adopted military service credit. *
Point	Removed statutory max.
Port Isabel	Adopted restricted prior service credit. *
Port Neches	Granted 30% ad hoc COLA.
Poteet	Adopted 20 yr, any age retirement eligibility.
Prosper	Increased statutory max to 15.50%.
Robstown Utility Systems	Decreased municipal matching ratio from 2 - 1 to 1.5 - 1.
Rogers	1) Decreased repeating USC from 100% to 75%.
	2) Increased municipal matching ratio from 1 - 1 to 1.5 - 1.
Royse City	1) Increased repeating COLA from 30% to 70%.
	2) Removed statutory max.
San Antonio	Granted 70% ad hoc COLA.
Seguin	Granted 70% ad hoc COLA.
Shiner	Adopted restricted prior service credit. *
Stephenville	Rescinded 70% repeating COLA
Sudan	1) Granted 100% ad hoc USC with transfer.
	2) Granted 70% ad hoc COLA.
Sulphur Springs	Granted 100% ad hoc USC with transfer.
Surfside Beach	1) Increased employee contribution rate from 6% to 7%.
	2) Increased statutory max to 9.50% due to plan changes.
Taft	Removed statutory max.
Tahoka	Granted 100% ad hoc USC.
Tex Municipal League IEBP	Granted 100% ad hoc USC.
Three Rivers	Increased employee contribution rate from 5% to 7%.
Tioga	1) Increased employee contribution rate from 6% to 7%.
	2) Increased statutory max to 9.50% due to plan changes.
Tom Bean	1) Increased employee contribution rate from 5% to 6%.
	2) Increased municipal matching ratio from 1 - 1 to 1.5 - 1.
	3) Increased statutory max to 10.50% due to plan changes.
University Park	Adopted participation for newly hired firefighters. *
Wake Village	Removed statutory max.
Weslaco	1) Granted 30% ad hoc COLA.
	2) Granted 50% ad hoc USC with transfer.
Wimberley	1) Granted 100% ad hoc USC with transfer.
	2) Increased municipal matching ratio from 1 - 1 to 2 - 1.
Woodcreek	Increased municipal matching ratio from 1 - 1 to 2 - 1.

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

## **SECTION 8**

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### **INDIVIDUAL CITY REPORTS**

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Abernathy	Abilene	Addison	Agua Dulce	Alamo	Alamo Heights	Alba
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$967,957	\$121,697,617	\$49,247,759	\$41,459	\$6,803,918	\$9,664,283	\$268,974
b. Noncontributing Members	56,060	25,212,135	15,250,834	0	1,059,128	3,982,973	4,423
c. Annuitants	368,145	149,577,542	61,646,488	0	2,705,209	12,320,872	36,987
2. Total Actuarial Accrued Liability	\$1,392,162	\$296,487,294	\$126,145,081	\$41,459	\$10,568,255	\$25,968,128	\$310,384
3. Actuarial value of assets	1,238,109	271,537,985	121,109,034	3,705	9,123,952	19,499,339	302,033
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$154,053	\$24,949,309	\$5,036,047	\$37,754	\$1,444,303	\$6,468,789	\$8,351
5. Funded Ratio: (3) / (2)	88.9%	91.6%	96.0%	8.9%	86.3%	75.1%	97.3%
6. Annual Payroll	\$706,853	\$51,216,096	\$19,558,190	\$81,064	\$4,786,762	\$5,554,165	\$223,940
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	2.60%	7.63%	8.35%	2.29%	4.87%	9.83%	1.78%
Prior Service	1.41%	3.30%	2.34%	6.79%	2.00%	7.01%	0.66%
Total Retirement	4.01%	10.93%	10.69%	9.08%	6.87%	16.84%	2.44%
Supplemental Death	0.29%	0.25%	0.17%	0.17%	0.20%	0.21%	0.19%
Total Rate	4.30%	11.18%	10.86%	9.25%	7.07%	17.05%	2.63%
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)	7.50%	N/A	15.50%	N/A	9.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	23.0 years	21.5 years	14.3 years	8.0 years	22.2 years	25.9 years	6.4 years
Number of annuitants	6	802	196	0	34	74	1
Number of active contributing members	18	1,031	257	3	140	93	5
Number of inactive members	33	514	221	0	85	86	1
Average age of contributing members	45.7 years	44.2 years	40.4 years	53.0 years	41.5 years	42.4 years	52.0 years
Average length of service of contributing members	9.6 years	10.6 years	11.2 years	5.5 years	9.1 years	12.2 years	12.4 years

	Albany	Aledo	Alice	Allen	Alpine	Alto	Alton
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$582,315	\$417,548	\$18,990,674	\$122,781,390	\$3,334,469	\$255,674	\$4,213,725
b. Noncontributing Members	21,452	103,197	2,401,284	25,069,923	489,102	372,354	607,577
c. Annuitants	324,180	317,453	17,638,045	48,729,720	2,410,677	411,803	645,198
2. Total Actuarial Accrued Liability	\$927,947	\$838,198	\$39,030,003	\$196,581,033	\$6,234,248	\$1,039,831	\$5,466,500
3. Actuarial value of assets	824,213	811,636	39,762,090	167,803,110	7,497,242	985,959	4,712,895
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$103,734	\$26,562	(\$732,087)	\$28,777,923	(\$1,262,994)	\$53,872	\$753,605
5. Funded Ratio: (3) / (2)	88.8%	96.8%	101.9%	85.4%	120.3%	94.8%	86.2%
6. Annual Payroll	\$610,796	\$661,328	\$9,922,911	\$47,847,654	\$3,044,184	\$369,309	\$2,938,589
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	4.09%	7.15%	5.26%	10.42%	3.61%	10.46%	12.37%
Prior Service	1.15%	0.31%	-0.45%	3.61%	-2.55%	1.12%	1.53%
Total Retirement	5.24%	7.46%	4.81%	14.03%	1.06%	11.58%	13.90%
Supplemental Death	0.39%	0.21%	0.00%	0.15%	0.19%	0.25%	0.16%
Total Rate	5.63%	7.67%	4.81%	14.18%	1.25%	11.83%	14.06%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	10.55%	12.30%
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 1/2019	21.4 years	17.7 years	25.0 years	25.9 years	25.0 years	19.3 years	26.3 years
Number of annuitants	7	7	150	205	31	9	13
Number of active contributing members	17	14	208	737	72	13	78
Number of inactive members	10	11	88	428	56	19	81
Average age of contributing members	54.5 years	45.2 years	46.8 years	42.8 years	41.4 years	39.8 years	39.9 years
Average length of service of contributing members	8.3 years	7.9 years	11.3 years	10.3 years	7.5 years	3.4 years	7.1 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Alvarado	Alvin	Alvord	Amarillo	Amherst	Anahuac	Andrews
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$2,494,368	\$27,506,094	\$55,291	\$199,678,193	\$59,482	\$97,825	\$12,477,750
b. Noncontributing Members	710,725	8,147,825	285,826	26,824,838	13,189	380,056	1,353,749
c. Annuitants	324,118	26,060,884	76,483	243,102,301	79,397	446,909	12,979,739
2. Total Actuarial Accrued Liability	\$3,529,211	\$61,714,803	\$417,600	\$469,605,332	\$152,068	\$924,790	\$26,811,238
3. Actuarial value of assets	3,269,524	52,220,260	382,429	410,290,548	331,237	885,380	22,549,721
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$259,687	\$9,494,543	\$35,171	\$59,314,784	(\$179,169)	\$39,410	\$4,261,517
5. Funded Ratio: (3) / (2)	92.6%	84.6%	91.6%	87.4%	217.8%	95.7%	84.1%
6. Annual Payroll	\$2,690,141	\$10,955,349	\$299,140	\$88,360,930	\$132,920	\$260,771	\$4,400,012
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	4.59%	9.98%	4.15%	7.15%	4.13%	7.08%	8.77%
Prior Service	0.60%	6.90%	1.29%	5.03%	-4.13%	1.67%	7.20%
Total Retirement	5.19%	16.88%	5.44%	12.18%	0.00%	8.75%	15.97%
Supplemental Death	0.15%	0.16%	0.23%	0.00%	0.00%	0.13%	0.00%
Total Rate	5.34%	17.04%	5.67%	12.18%	0.00%	8.88%	15.97%
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 1/2019	24.4 years	17.0 years	11.2 years	18.5 years	25.0 years	11.8 years	18.7 years
Number of annuitants	11	121	3	1,112	2	5	36
Number of active contributing members	59	210	7	1,823	4	9	72
Number of inactive members	53	225	4	1,078	4	17	37
Average age of contributing members	41.0 years	40.2 years	36.0 years	43.4 years	48.0 years	37.4 years	40.4 years
Average length of service of contributing members	6.7 years	9.4 years	2.9 years	8.8 years	4.9 years	4.0 years	9.4 years

	Angleton	Anna	Annetta	Anson	Anthony	Aransas Pass	Archer City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$12,910,537	\$4,475,851	\$26,095	\$838,510	\$554,720	\$4,457,854	\$447,231
b. Noncontributing Members	2,670,358	902,392	17,158	118,935	269,879	1,602,943	283,449
c. Annuitants	10,357,014	1,178,230	0	242,636	599,081	8,430,014	158,223
2. Total Actuarial Accrued Liability	\$25,937,909	\$6,556,473	\$43,253	\$1,200,081	\$1,423,680	\$14,490,811	\$888,903
3. Actuarial value of assets	22,272,917	5,634,603	37,109	1,261,376	1,127,272	12,499,015	821,631
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$3,664,992	\$921,870	\$6,144	(\$61,295)	\$296,408	\$1,991,796	\$67,272
5. Funded Ratio: (3) / (2)	85.9%	85.9%	85.8%	105.1%	79.2%	86.3%	92.4%
6. Annual Payroll	\$6,361,763	\$3,665,609	\$131,863	\$757,569	\$1,326,412	\$4,954,983	\$813,309
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	8.54%	13.17%	9.28%	1.04%	1.51%	7.29%	3.61%
Prior Service	3.81%	1.50%	0.71%	-0.50%	1.48%	2.42%	0.57%
Total Retirement	12.35%	14.67%	9.99%	0.54%	2.99%	9.71%	4.18%
Supplemental Death	0.23%	0.13%	0.62%	0.19%	0.13%	0.20%	0.31%
Total Rate	12.58%	14.80%	10.61%	0.73%	3.12%	9.91%	4.49%
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 1/2019	22.2 years	26.1 years	7.6 years	25.0 years	22.1 years	25.9 years	21.0 years
Number of annuitants	57	7	0	7	7	49	5
Number of active contributing members	120	64	3	24	31	105	18
Number of inactive members	54	38	1	26	22	120	14
Average age of contributing members	44.1 years	40.7 years	58.2 years	39.1 years	42.7 years	39.9 years	49.4 years
Average length of service of contributing members	9.2 years	9.0 years	1.4 years	9.5 years	6.7 years	5.6 years	9.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Arcola	Argyle	Arlington	Arp	Aspermont	Athens	Atlanta
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$230,968	\$3,942,197	\$481,854,184	\$165,572	\$259,093	\$15,080,338	\$2,003,608
b. Noncontributing Members	24,898	942,329	87,852,892	104,898	25,340	2,143,210	400,127
c. Annuitants	0	409,781	619,630,404	414,978	160,435	19,804,058	1,408,392
2. Total Actuarial Accrued Liability	\$255,866	\$5,294,307	\$1,189,337,480	\$685,448	\$444,868	\$37,027,606	\$3,812,127
3. Actuarial value of assets	89,093	4,689,268	1,036,660,677	711,364	576,021	26,655,700	3,789,457
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$166,773	\$605,039	\$152,676,803	(\$25,916)	(\$131,153)	\$10,371,906	\$22,670
5. Funded Ratio: (3) / (2)	34.8%	88.6%	87.2%	103.8%	129.5%	72.0%	99.4%
6. Annual Payroll	\$547,429	\$1,577,686	\$174,216,577	\$294,999	\$264,878	\$7,013,887	\$1,599,142
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	2.01%	11.26%	9.27%	2.22%	1.42%	10.32%	3.49%
Prior Service	2.80%	2.42%	6.54%	-0.54%	-1.42%	10.47%	0.09%
Total Retirement	4.81%	13.68%	15.81%	1.68%	0.00%	20.79%	3.58%
Supplemental Death	0.18%	0.00%	0.15%	0.18%	0.19%	0.18%	0.21%
Total Rate	4.99%	13.68%	15.96%	1.86%	0.19%	20.97%	3.79%
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	N/A	N/A	7.50%	7.50%	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	14.0 years	23.9 years	18.6 years	25.0 years	25.0 years	20.1 years	28.0 years
Number of annuitants	0	15	1,725	5	2	77	19
Number of active contributing members	12	26	2,495	8	6	126	41
Number of inactive members	4	22	1,129	8	2	58	13
Average age of contributing members	47.8 years	47.3 years	41.7 years	37.7 years	50.0 years	41.5 years	48.9 years
Average length of service of contributing members	4.4 years	13.2 years	11.1 years	5.8 years	11.8 years	9.4 years	10.3 years

	Aubrey	Avinger	Azle	Baird	Balch Springs	Balcones Heights	Ballinger
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$2,006,328	\$94,348	\$12,186,612	\$177,287	\$22,837,707	\$7,422,591	\$1,561,410
b. Noncontributing Members	913,226	0	3,772,789	204,831	3,965,975	1,573,921	166,526
c. Annuitants	292,990	0	7,592,015	288,388	9,245,016	7,702,795	1,921,884
2. Total Actuarial Accrued Liability	\$3,212,544	\$94,348	\$23,551,416	\$670,506	\$36,048,698	\$16,699,307	\$3,649,820
3. Actuarial value of assets	3,104,585	103,729	20,114,664	724,353	28,614,732	14,384,815	3,574,906
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$107,959	(\$9,381)	\$3,436,752	(\$53,847)	\$7,433,966	\$2,314,492	\$74,914
5. Funded Ratio: (3) / (2)	96.6%	109.9%	85.4%	108.0%	79.4%	86.1%	97.9%
6. Annual Payroll	\$2,285,827	\$61,951	\$6,523,624	\$472,592	\$10,123,835	\$3,018,484	\$1,446,371
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	5.83%	3.00%	8.73%	1.57%	9.44%	11.17%	3.30%
Prior Service	0.30%	-0.93%	3.50%	-0.70%	4.39%	4.59%	0.40%
Total Retirement	6.13%	2.07%	12.23%	0.87%	13.83%	15.76%	3.70%
Supplemental Death	0.16%	0.20%	0.18%	0.15%	0.15%	0.21%	0.29%
Total Rate	6.29%	2.27%	12.41%	1.02%	13.98%	15.97%	3.99%
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)	13.50%	9.50%	12.50%	N/A	N/A	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	24.0 years	25.0 years	22.1 years	25.0 years	26.1 years	26.1 years	17.5 years
Number of annuitants	11	0	71	5	82	51	19
Number of active contributing members	49	2	117	11	168	55	37
Number of inactive members	80	0	117	9	112	42	14
Average age of contributing members	41.4 years	50.3 years	42.6 years	43.5 years	42.3 years	45.1 years	46.5 years
Average length of service of contributing members	8.5 years	14.5 years	9.6 years	5.5 years	8.4 years	12.4 years	7.5 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Balmerhea	Bandera	Bangs	Bartlett	Bartonville	Bastrop	Bay City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$23,396	\$834,633	\$886,716	\$404,155	\$199,680	\$10,650,792	\$14,371,421
b. Noncontributing Members	1,837	347,538	162,548	398,443	333,275	1,805,929	3,254,869
c. Annuitants	0	1,064,150	982,018	322,058	605,597	6,243,846	17,153,538
2. Total Actuarial Accrued Liability	\$25,233	\$2,246,321	\$2,031,282	\$1,124,656	\$1,138,552	\$18,700,567	\$34,779,828
3. Actuarial value of assets	42,572	2,322,679	1,884,477	1,233,435	775,146	15,542,356	30,971,522
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$17,339)	(\$76,358)	\$146,805	(\$108,779)	\$363,406	\$3,158,211	\$3,808,306
5. Funded Ratio: (3) / (2)	168.7%	103.4%	92.8%	109.7%	68.1%	83.1%	89.1%
6. Annual Payroll	\$31,728	\$733,786	\$534,024	\$629,468	\$439,763	\$6,679,619	\$7,710,417
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	1.66%	11.09%	10.86%	8.93%	7.34%	8.54%	5.73%
Prior Service	-1.66%	-0.69%	1.94%	-1.06%	7.94%	2.83%	3.78%
Total Retirement	0.00%	10.40%	12.80%	7.87%	15.28%	11.37%	9.51%
Supplemental Death	0.07%	0.41%	0.35%	0.25%	0.11%	0.17%	0.23%
Total Rate	0.07%	10.81%	13.15%	8.12%	15.39%	11.54%	9.74%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	14.34%	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 1/2019	25.0 years	25.0 years	20.1 years	25.0 years	13.3 years	26.1 years	18.3 years
Number of annuitants	0	12	10	7	6	52	102
Number of active contributing members	1	20	15	13	6	127	160
Number of inactive members	1	27	16	28	9	52	102
Average age of contributing members	48.2 years	49.3 years	52.7 years	47.0 years	46.8 years	44.5 years	43.5 years
Average length of service of contributing members	9.3 years	4.8 years	5.9 years	5.5 years	5.8 years	9.7 years	10.1 years

	Bayou Vista	Baytown	Beaumont	Bedford	Bee Cave	Beeville	Bellaire
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$53,061	\$176,831,450	\$206,911,416	\$25,811,634	\$3,065,790	\$4,265,265	\$35,505,667
b. Noncontributing Members	132,506	18,610,573	22,436,216	3,239,070	1,736,097	1,332,521	5,970,505
c. Annuitants	176,373	132,094,193	242,464,234	5,539,969	411,604	5,084,039	39,689,259
2. Total Actuarial Accrued Liability	\$361,940	\$327,536,216	\$471,811,866	\$34,590,673	\$5,213,491	\$10,681,825	\$81,165,431
3. Actuarial value of assets	401,746	266,057,238	398,926,875	22,002,954	4,851,787	12,861,459	67,322,669
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$39,806)	\$61,478,978	\$72,884,991	\$12,587,719	\$361,704	(\$2,179,634)	\$13,842,762
5. Funded Ratio: (3) / (2)	111.0%	81.2%	84.6%	63.6%	93.1%	120.4%	82.9%
6. Annual Payroll	\$298,416	\$55,571,513	\$61,144,792	\$22,759,566	\$2,691,896	\$4,749,651	\$10,906,835
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	3.72%	9.90%	9.74%	5.63%	8.23%	3.65%	11.22%
Prior Service	-0.90%	7.73%	9.48%	3.39%	0.85%	-2.82%	9.23%
Total Retirement	2.82%	17.63%	19.22%	9.02%	9.08%	0.83%	20.45%
Supplemental Death	0.19%	0.15%	0.00%	0.00%	0.16%	0.00%	0.20%
Total Rate	3.01%	17.78%	19.22%	9.02%	9.24%	0.83%	20.65%
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)	N/A	N/A	N/A	N/A	13.50%	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	20.5 years	17.0 years	25.1 years	24.0 years	25.0 years	19.3 years
Number of annuitants	3	457	863	55	8	67	127
Number of active contributing members	6	819	992	339	42	112	156
Number of inactive members	11	293	375	128	35	94	101
Average age of contributing members	46.2 years	41.6 years	45.0 years	42.7 years	41.3 years	42.6 years	44.2 years
Average length of service of contributing members	2.7 years	11.1 years	12.2 years	12.3 years	7.5 years	8.8 years	11.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Bellmead	Bells	Bellville	Belton	Benbrook	Berryville	Bertram
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$5,134,274	\$67,421	\$6,406,115	\$10,112,118	\$28,413,785	\$32,554	\$134,627
b. Noncontributing Members	1,665,237	94,403	756,509	2,476,919	3,837,138	24,076	182,556
c. Annuitants	<u>6,236,628</u>	<u>108,116</u>	<u>4,872,923</u>	<u>9,994,807</u>	<u>23,497,837</u>	<u>132,832</u>	<u>239,828</u>
2. Total Actuarial Accrued Liability	\$13,036,139	\$269,940	\$12,035,547	\$22,583,844	\$55,748,760	\$189,462	\$557,011
3. Actuarial value of assets	<u>13,011,074</u>	<u>364,499</u>	<u>9,105,176</u>	<u>20,541,621</u>	<u>49,055,049</u>	<u>199,045</u>	<u>557,419</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$25,065	(\$94,559)	\$2,930,371	\$2,042,223	\$6,693,711	(\$9,583)	(\$408)
5. Funded Ratio: (3) / (2)	99.8%	135.0%	75.7%	91.0%	88.0%	105.1%	100.1%
6. Annual Payroll	\$3,701,687	\$317,982	\$2,518,993	\$8,576,476	\$9,668,152	\$75,622	\$430,401
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	8.77%	1.53%	6.25%	6.06%	11.42%	3.81%	1.99%
Prior Service	<u>0.04%</u>	<u>-1.53%</u>	<u>9.13%</u>	<u>1.42%</u>	<u>4.76%</u>	<u>-0.78%</u>	<u>-0.01%</u>
Total Retirement	8.81%	0.00%	15.38%	7.48%	16.18%	3.03%	1.98%
Supplemental Death	<u>0.19%</u>	<u>0.11%</u>	<u>0.25%</u>	<u>0.16%</u>	<u>0.14%</u>	<u>0.40%</u>	<u>0.00%</u>
Total Rate	9.00%	0.11%	15.63%	7.64%	16.32%	3.43%	1.98%
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	11.50%	N/A	9.50%	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	28.0 years	25.0 years	17.4 years	26.3 years	21.0 years	25.0 years	25.0 years
Number of annuitants	29	4	35	83	73	3	6
Number of active contributing members	77	8	54	174	122	2	10
Number of inactive members	59	17	25	136	48	1	13
Average age of contributing members	43.3 years	39.2 years	45.1 years	40.1 years	40.5 years	58.6 years	43.2 years
Average length of service of contributing members	8.6 years	5.6 years	11.7 years	9.5 years	12.0 years	4.0 years	10.7 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	\$3,782,328	\$219,481	\$21,465,092	\$1,107,247	\$180,087	\$201,558	\$306,892
b. Noncontributing Members	619,945	127,039	5,212,578	270,047	136,762	70,235	55,806
c. Annuitants	<u>1,927,267</u>	<u>637,992</u>	<u>27,755,508</u>	<u>1,118,453</u>	<u>423,634</u>	<u>169,099</u>	<u>353,107</u>
2. Total Actuarial Accrued Liability	\$6,329,540	\$984,512	\$54,433,178	\$2,495,747	\$740,483	\$440,892	\$715,805
3. Actuarial value of assets	<u>4,550,053</u>	<u>955,768</u>	<u>44,044,975</u>	<u>2,458,764</u>	<u>733,314</u>	<u>386,484</u>	<u>776,549</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,779,487	\$28,744	\$10,388,203	\$36,983	\$7,169	\$54,408	(\$60,744)
5. Funded Ratio: (3) / (2)	71.9%	97.1%	80.9%	98.5%	99.0%	87.7%	108.5%
6. Annual Payroll	\$1,168,143	\$448,993	\$9,255,677	\$736,400	\$799,418	\$174,658	\$177,196
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	6.89%	1.45%	8.91%	2.98%	1.53%	6.68%	5.82%
Prior Service	<u>10.78%</u>	<u>0.99%</u>	<u>8.28%</u>	<u>0.53%</u>	<u>0.06%</u>	<u>3.30%</u>	<u>-2.10%</u>
Total Retirement	17.67%	2.44%	17.19%	3.51%	1.59%	9.98%	3.72%
Supplemental Death	<u>0.23%</u>	<u>0.22%</u>	<u>0.29%</u>	<u>0.24%</u>	<u>0.23%</u>	<u>0.14%</u>	<u>0.53%</u>
Total Rate	17.90%	2.66%	17.48%	3.75%	1.82%	10.12%	4.25%
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%	7.50%	11.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	20.1 years	7.5 years	19.6 years	11.8 years	22.6 years	11.7 years	25.0 years
Number of annuitants	11	4	141	15	7	2	4
Number of active contributing members	24	11	178	22	22	5	4
Number of inactive members	7	9	103	11	30	2	1
Average age of contributing members	43.5 years	44.3 years	43.2 years	47.4 years	40.9 years	42.8 years	52.3 years
Average length of service of contributing members	9.4 years	6.4 years	7.7 years	8.4 years	4.2 years	9.8 years	11.0 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Blue Mound	Blue Ridge	Boerne	Bogata	Bonham	Booker	Borger
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$332,696	\$30,097	\$42,222,726	\$125,434	\$8,317,120	\$500,881	\$23,819,805
b. Noncontributing Members	144,890	58,006	3,118,200	24,154	1,914,388	181,181	2,214,507
c. Annuitants	165,983	25,783	17,926,433	101,956	6,057,346	189,945	19,018,520
2. Total Actuarial Accrued Liability	\$643,569	\$113,886	\$63,267,359	\$251,544	\$16,288,854	\$872,007	\$45,052,832
3. Actuarial value of assets	622,382	151,109	46,354,630	326,793	15,822,582	848,878	38,214,968
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$21,187	(\$37,223)	\$16,912,729	(\$75,249)	\$466,272	\$23,129	\$6,837,864
5. Funded Ratio: (3) / (2)	96.7%	132.7%	73.3%	129.9%	97.1%	97.3%	84.8%
6. Annual Payroll	\$965,413	\$206,394	\$14,757,052	\$287,868	\$5,243,946	\$453,029	\$8,665,445
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	4.51%	2.92%	11.45%	1.57%	4.43%	5.40%	9.32%
Prior Service	0.13%	-1.11%	6.89%	-1.57%	0.88%	0.45%	5.25%
Total Retirement	4.64%	1.81%	18.34%	0.00%	5.31%	5.85%	14.57%
Supplemental Death	0.10%	0.25%	0.17%	0.16%	0.00%	0.36%	0.20%
Total Rate	4.74%	2.06%	18.51%	0.16%	5.31%	6.21%	14.77%
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%	10.50%	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.8 years	25.0 years	25.9 years	25.0 years	12.8 years	14.7 years	22.0 years
Number of annuitants	6	2	82	3	52	3	86
Number of active contributing members	23	5	250	9	113	9	168
Number of inactive members	24	5	79	4	110	15	60
Average age of contributing members	39.7 years	45.8 years	43.1 years	42.5 years	42.5 years	47.5 years	42.1 years
Average length of service of contributing members	5.9 years	1.6 years	9.7 years	5.0 years	9.2 years	7.9 years	9.4 years

	Bovina	Bowie	Boyd	Brady	Brazoria	Breckenridge	Bremond
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$110,327	\$6,733,907	\$256,440	\$4,984,710	\$2,939,566	\$2,123,746	\$501,873
b. Noncontributing Members	47,756	2,089,724	275,893	2,032,345	640,748	496,338	150,849
c. Annuitants	193,967	7,441,501	395,177	2,936,557	764,487	5,603,882	25,168
2. Total Actuarial Accrued Liability	\$352,050	\$16,265,132	\$927,510	\$9,953,612	\$4,344,801	\$8,223,966	\$677,890
3. Actuarial value of assets	427,694	14,404,612	959,995	8,832,094	4,283,148	7,231,681	529,249
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$75,644)	\$1,860,520	(\$32,485)	\$1,121,518	\$61,653	\$992,285	\$148,641
5. Funded Ratio: (3) / (2)	121.5%	88.6%	103.5%	88.7%	98.6%	87.9%	78.1%
6. Annual Payroll	\$378,836	\$3,546,367	\$698,141	\$3,989,720	\$1,154,192	\$2,219,255	\$269,657
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	1.19%	7.07%	4.53%	8.45%	6.18%	4.66%	5.71%
Prior Service	-1.19%	3.55%	-0.29%	1.79%	0.51%	2.76%	10.24%
Total Retirement	0.00%	10.62%	4.24%	10.24%	6.69%	7.42%	15.95%
Supplemental Death	0.18%	0.21%	0.00%	0.24%	0.22%	0.27%	0.26%
Total Rate	0.18%	10.83%	4.24%	10.48%	6.91%	7.69%	16.21%
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)	7.50%	11.50%	11.50%	12.50%	11.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	21.5 years	25.0 years	23.6 years	13.8 years	26.0 years	6.2 years
Number of annuitants	5	63	6	52	14	48	1
Number of active contributing members	11	75	14	94	26	65	7
Number of inactive members	17	76	21	106	20	48	9
Average age of contributing members	40.6 years	43.5 years	43.8 years	44.0 years	47.4 years	41.2 years	42.4 years
Average length of service of contributing members	3.8 years	9.8 years	8.2 years	7.7 years	11.4 years	6.9 years	8.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Brenham	Bridge City	Bridgeport	Bronte	Brookshire	Brownfield	Brownsboro
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$19,488,365	\$8,871,858	\$5,566,257	\$283,374	\$2,553,857	\$8,986,542	\$434,433
b. Noncontributing Members	4,201,323	1,914,679	2,298,865	12,154	1,596,532	625,045	598
c. Annuitants	22,937,054	9,099,114	4,964,127	148,454	934,592	8,769,742	0
2. Total Actuarial Accrued Liability	\$46,626,742	\$19,885,651	\$12,829,249	\$443,982	\$5,084,981	\$18,381,329	\$435,031
3. Actuarial value of assets	41,444,512	16,726,426	10,360,111	336,647	5,037,615	18,545,401	51,524
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$5,182,230	\$3,159,225	\$2,469,138	\$107,335	\$47,366	(\$164,072)	\$383,507
5. Funded Ratio: (3) / (2)	88.9%	84.1%	80.8%	75.8%	99.1%	100.9%	11.8%
6. Annual Payroll	\$11,491,759	\$3,362,271	\$3,074,799	\$125,029	\$1,669,329	\$3,870,125	\$376,650
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	5.20%	9.44%	8.87%	1.95%	5.50%	5.37%	1.85%
Prior Service	4.52%	5.63%	5.01%	11.03%	0.18%	-0.26%	8.90%
Total Retirement	9.72%	15.07%	13.88%	12.98%	5.68%	5.11%	10.75%
Supplemental Death	0.00%	0.28%	0.15%	0.17%	0.19%	0.00%	0.37%
Total Rate	9.72%	15.35%	14.03%	13.15%	5.87%	5.11%	11.12%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	12.53%	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	11.50%	N/A	N/A	N/A	11.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	12.6 years	26.0 years	26.0 years	9.6 years	24.6 years	25.0 years	15.0 years
Number of annuitants	133	48	42	1	9	45	0
Number of active contributing members	207	52	59	3	40	86	10
Number of inactive members	127	31	73	1	41	36	2
Average age of contributing members	41.3 years	46.0 years	39.8 years	49.3 years	43.6 years	44.6 years	51.0 years
Average length of service of contributing members	10.2 years	11.5 years	8.5 years	18.7 years	7.6 years	10.3 years	8.5 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	\$212,733,018	\$105,144,049	\$22,856,749	\$532,069	\$129,901	\$430,163	\$161,883,530
b. Noncontributing Members	12,222,031	9,041,864	3,938,133	107,148	3,410	279,752	30,365,732
c. Annuitants	135,257,926	60,485,886	23,595,460	748,517	170,836	377,608	135,593,257
2. Total Actuarial Accrued Liability	\$360,212,975	\$174,671,799	\$50,390,342	\$1,387,734	\$304,147	\$1,087,523	\$327,842,519
3. Actuarial value of assets	309,161,030	143,241,256	43,584,926	1,284,367	333,699	1,117,217	275,763,859
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$51,051,945	\$31,430,543	\$6,805,416	\$103,367	(\$29,552)	(\$29,694)	\$52,078,660
5. Funded Ratio: (3) / (2)	85.8%	82.0%	86.5%	92.6%	109.7%	102.7%	84.1%
6. Annual Payroll	\$62,180,566	\$29,832,470	\$10,155,361	\$458,090	\$173,162	\$613,573	\$57,780,345
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.53%	10.20%	8.54%	8.24%	5.75%	5.55%	8.88%
Prior Service	6.54%	7.25%	4.59%	1.71%	-1.05%	-0.31%	6.11%
Total Retirement	17.07%	17.45%	13.13%	9.95%	4.70%	5.24%	14.99%
Supplemental Death	0.18%	0.20%	0.00%	0.00%	0.00%	0.16%	0.00%
Total Rate	17.25%	17.65%	13.13%	9.95%	4.70%	5.40%	14.99%
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	11.50%	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	17.0 years	21.0 years	21.1 years	18.2 years	25.0 years	25.0 years	21.4 years
Number of annuitants	545	256	128	11	3	7	579
Number of active contributing members	1,148	587	230	12	9	18	875
Number of inactive members	249	114	84	3	5	14	442
Average age of contributing members	43.3 years	42.9 years	43.0 years	47.2 years	63.5 years	39.3 years	41.5 years
Average length of service of contributing members	11.6 years	11.7 years	8.7 years	8.7 years	6.2 years	4.4 years	11.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Bryson	Buda	Buffalo	Bullard	Bulverde	Bunker Hill Village	Burkburnett
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$64,355	\$6,500,415	\$896,669	\$1,411,508	\$1,474,246	\$1,598,504	\$5,981,472
b. Noncontributing Members	28,519	1,249,181	213,555	314,329	780,890	358,965	2,247,462
c. Annuitants	353,990	1,797,355	298,956	108,059	389,341	1,212,208	6,405,360
2. Total Actuarial Accrued Liability	\$446,864	\$9,546,951	\$1,409,180	\$1,833,896	\$2,644,477	\$3,169,677	\$14,634,294
3. Actuarial value of assets	596,028	7,682,256	1,401,289	1,511,819	2,291,933	3,050,276	12,821,450
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$149,164)	\$1,864,695	\$7,891	\$322,077	\$352,544	\$119,401	\$1,812,844
5. Funded Ratio: (3) / (2)	133.4%	80.5%	99.4%	82.4%	86.7%	96.2%	87.6%
6. Annual Payroll	\$98,848	\$4,890,245	\$555,981	\$1,145,001	\$1,453,746	\$626,350	\$3,126,183
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	2.64%	11.67%	4.72%	5.94%	7.53%	9.67%	6.42%
Prior Service	-2.64%	2.27%	0.10%	1.74%	1.52%	2.03%	3.72%
Total Retirement	0.00%	13.94%	4.82%	7.68%	9.05%	11.70%	10.14%
Supplemental Death	0.00%	0.16%	0.38%	0.18%	0.12%	0.22%	0.25%
Total Rate	0.00%	14.10%	5.20%	7.86%	9.17%	11.92%	10.39%
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%	N/A	11.50%	11.50%	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	26.4 years	19.0 years	24.7 years	24.3 years	11.7 years	23.3 years
Number of annuitants	1	14	4	2	7	6	49
Number of active contributing members	3	93	15	26	26	7	75
Number of inactive members	2	41	12	16	16	6	37
Average age of contributing members	43.5 years	41.1 years	53.7 years	44.3 years	40.4 years	52.9 years	42.6 years
Average length of service of contributing members	6.4 years	6.7 years	12.3 years	10.1 years	8.1 years	17.8 years	8.7 years

	Burleson	Burnet	Burton	Cactus	Caddo Mills	Caldwell	Calvert
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$55,073,377	\$10,494,535	\$24,683	\$655,059	\$409,336	\$6,215,822	\$137,810
b. Noncontributing Members	9,702,737	3,053,124	0	186,850	86,137	633,195	81,607
c. Annuitants	30,537,192	10,808,899	0	571,857	46,041	4,021,671	62,133
2. Total Actuarial Accrued Liability	\$95,313,306	\$24,356,558	\$24,683	\$1,413,766	\$541,514	\$10,870,688	\$281,550
3. Actuarial value of assets	77,044,692	20,650,609	13,211	1,404,427	479,128	10,186,448	344,152
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$18,268,614	\$3,705,949	\$11,472	\$9,339	\$62,386	\$684,240	(\$62,602)
5. Funded Ratio: (3) / (2)	80.8%	84.8%	53.5%	99.3%	88.5%	93.7%	122.2%
6. Annual Payroll	\$22,290,825	\$5,881,724	\$36,318	\$1,711,326	\$566,627	\$2,213,961	\$416,306
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.39%	9.29%	1.64%	5.06%	5.56%	5.84%	1.96%
Prior Service	4.92%	3.77%	8.45%	0.03%	0.82%	3.48%	-0.92%
Total Retirement	15.31%	13.06%	10.09%	5.09%	6.38%	9.32%	1.04%
Supplemental Death	0.14%	0.17%	0.11%	0.14%	0.17%	0.38%	0.29%
Total Rate	15.45%	13.23%	10.20%	5.23%	6.55%	9.70%	1.33%
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	13.50%	N/A	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.0 years	26.1 years	4.1 years	24.0 years	18.7 years	10.9 years	25.0 years
Number of annuitants	121	59	0	10	1	30	2
Number of active contributing members	328	110	1	39	13	59	11
Number of inactive members	165	63	0	51	12	30	21
Average age of contributing members	41.9 years	42.0 years	47.5 years	36.6 years	46.6 years	51.3 years	45.8 years
Average length of service of contributing members	11.0 years	9.4 years	14.8 years	3.4 years	5.7 years	12.1 years	4.1 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Cameron	Campbell	Canadian	Caney City	Canton	Canyon	Carmine
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$2,041,400	\$151,240	\$1,626,229	\$16,930	\$5,752,048	\$15,131,764	\$118,647
b. Noncontributing Members	1,166,580	0	709,681	995	1,326,085	3,624,555	0
c. Annuitants	2,340,050	0	2,288,316	0	3,549,766	11,183,264	38,263
2. Total Actuarial Accrued Liability	\$5,548,030	\$151,240	\$4,624,226	\$17,925	\$10,627,899	\$29,939,583	\$156,910
3. Actuarial value of assets	4,331,816	22,294	3,435,225	19,122	8,832,375	26,580,313	156,988
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,216,214	\$128,946	\$1,189,001	(\$1,197)	\$1,795,524	\$3,359,270	(\$78)
5. Funded Ratio: (3) / (2)	78.1%	14.7%	74.3%	106.7%	83.1%	88.8%	100.0%
6. Annual Payroll	\$1,757,163	\$60,070	\$1,040,968	\$144,853	\$2,918,435	\$5,083,008	\$63,286
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	5.25%	1.70%	9.39%	1.96%	8.10%	10.52%	2.68%
Prior Service	4.84%	40.11%	6.84%	-0.05%	3.98%	4.81%	-0.01%
Total Retirement	10.09%	41.81%	16.23%	1.91%	12.08%	15.33%	2.67%
Supplemental Death	0.26%	0.19%	0.18%	0.08%	0.21%	0.21%	0.08%
Total Rate	10.35%	42.00%	16.41%	1.99%	12.29%	15.54%	2.75%
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	N/A	N/A	N/A	N/A	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	22.2 years	6.0 years	26.0 years	25.0 years	23.0 years	19.3 years	25.0 years
Number of annuitants	33	0	10	0	32	40	2
Number of active contributing members	43	2	20	4	69	90	2
Number of inactive members	34	0	8	3	40	43	0
Average age of contributing members	44.3 years	57.5 years	42.1 years	41.3 years	45.1 years	44.0 years	39.9 years
Average length of service of contributing members	8.5 years	20.2 years	7.5 years	1.8 years	8.4 years	10.5 years	14.0 years

	Carrizo Springs	Carrollton	Carthage	Castle Hills	Castroville	Cedar Hill	Cedar Park
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,179,860	\$164,825,706	\$10,674,930	\$6,652,272	\$1,181,917	\$54,606,617	\$61,989,897
b. Noncontributing Members	242,769	61,406,347	1,686,136	1,197,752	1,158,232	9,460,392	10,406,942
c. Annuitants	3,286,065	188,709,127	19,490,560	10,204,419	3,126,561	37,663,499	17,291,665
2. Total Actuarial Accrued Liability	\$4,708,694	\$414,941,180	\$31,851,626	\$18,054,443	\$5,466,710	\$101,730,508	\$89,688,504
3. Actuarial value of assets	4,595,679	393,485,849	26,458,413	16,019,151	5,013,851	87,877,663	68,015,140
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$113,015	\$21,455,331	\$5,393,213	\$2,035,292	\$452,859	\$13,852,845	\$21,673,364
5. Funded Ratio: (3) / (2)	97.6%	94.8%	83.1%	88.7%	91.7%	86.4%	75.8%
6. Annual Payroll	\$1,367,205	\$56,485,201	\$4,220,281	\$3,767,772	\$1,907,632	\$21,994,157	\$28,394,158
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	4.75%	8.35%	9.07%	7.84%	7.62%	9.69%	9.53%
Prior Service	0.49%	3.60%	9.69%	3.59%	1.44%	4.02%	4.79%
Total Retirement	5.24%	11.95%	18.76%	11.43%	9.06%	13.71%	14.32%
Supplemental Death	0.36%	0.00%	0.27%	0.16%	0.31%	0.15%	0.12%
Total Rate	5.60%	11.95%	19.03%	11.59%	9.37%	13.86%	14.44%
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)	9.50%	N/A	N/A	N/A	11.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.3 years	13.6 years	18.2 years	22.1 years	26.0 years	23.5 years	24.1 years
Number of annuitants	25	606	59	48	32	164	117
Number of active contributing members	40	800	73	67	40	336	445
Number of inactive members	39	630	39	32	61	164	233
Average age of contributing members	48.2 years	42.5 years	44.4 years	40.7 years	49.1 years	42.2 years	41.0 years
Average length of service of contributing members	7.5 years	11.6 years	10.4 years	10.1 years	7.2 years	10.9 years	9.7 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Celeste	Celina	Center	Centerville	Chandler	Charlotte	Chester
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$35,321	\$3,596,092	\$6,948,769	\$727,900	\$324,040	\$545,161	\$290,228
b. Noncontributing Members	44,677	1,708,445	423,463	53,063	78,674	89,166	204,684
c. Annuitants	37,643	666,165	5,593,046	129,330	566,372	72,870	0
2. Total Actuarial Accrued Liability	\$117,641	\$5,970,702	\$12,965,278	\$910,293	\$969,086	\$707,197	\$494,912
3. Actuarial value of assets	59,163	6,101,859	11,333,687	726,934	688,374	633,574	521,256
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$58,478	(\$131,157)	\$1,631,591	\$183,359	\$280,712	\$73,623	(\$26,344)
5. Funded Ratio: (3) / (2)	50.3%	102.2%	87.4%	79.9%	71.0%	89.6%	105.3%
6. Annual Payroll	\$101,153	\$6,078,896	\$3,260,165	\$217,922	\$1,021,651	\$340,519	\$33,243
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	2.35%	6.47%	9.83%	6.75%	2.17%	4.61%	6.90%
Prior Service	5.25%	-0.13%	3.33%	14.91%	2.53%	1.97%	-5.36%
Total Retirement	7.60%	6.34%	13.16%	21.66%	4.70%	6.58%	1.54%
Supplemental Death	0.24%	0.13%	0.16%	0.00%	0.25%	0.17%	0.88%
Total Rate	7.84%	6.47%	13.32%	21.66%	4.95%	6.75%	2.42%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	20.95%	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	13.50%	N/A	N/A	N/A	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	14.3 years	25.0 years	22.0 years	6.4 years	14.0 years	14.2 years	25.0 years
Number of annuitants	1	8	43	1	7	1	0
Number of active contributing members	4	105	71	5	26	10	2
Number of inactive members	7	56	13	3	8	6	2
Average age of contributing members	47.2 years	39.8 years	42.4 years	56.6 years	50.6 years	50.0 years	70.8 years
Average length of service of contributing members	11.8 years	7.6 years	9.1 years	14.7 years	6.4 years	9.8 years	28.1 years

	Chico	Childress	Chillicothe	Chireno	Christine	Cibolo	Cisco
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$188,851	\$3,717,469	\$175,809	\$810,310	\$19,019	\$8,723,524	\$1,896,975
b. Noncontributing Members	100,199	283,251	0	0	97	1,608,655	516,666
c. Annuitants	119,830	5,100,990	0	1,024,212	16,500	2,350,068	1,086,905
2. Total Actuarial Accrued Liability	\$408,880	\$9,101,710	\$175,809	\$1,834,522	\$35,616	\$12,682,247	\$3,500,546
3. Actuarial value of assets	371,768	7,062,983	52,234	1,380,203	46,212	10,794,451	3,454,123
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$37,112	\$2,038,727	\$123,575	\$454,319	(\$10,596)	\$1,887,796	\$46,423
5. Funded Ratio: (3) / (2)	90.9%	77.6%	29.7%	75.2%	129.8%	85.1%	98.7%
6. Annual Payroll	\$239,672	\$2,150,284	\$210,111	\$279,070	\$31,962	\$6,554,454	\$1,251,512
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	2.27%	9.29%	2.02%	9.70%	0.71%	10.97%	6.33%
Prior Service	1.73%	5.69%	7.76%	10.76%	-0.71%	1.75%	0.23%
Total Retirement	4.00%	14.98%	9.78%	20.46%	0.00%	12.72%	6.56%
Supplemental Death	0.41%	0.32%	0.20%	0.24%	0.00%	0.15%	0.20%
Total Rate	4.41%	15.30%	9.98%	20.70%	0.00%	12.87%	6.76%
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)	N/A	N/A	N/A	N/A	N/A	13.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	11.0 years	25.9 years	9.0 years	22.3 years	25.0 years	25.5 years	25.0 years
Number of annuitants	4	39	0	4	2	29	17
Number of active contributing members	7	60	6	6	1	123	36
Number of inactive members	5	39	0	0	1	88	25
Average age of contributing members	54.4 years	46.6 years	51.3 years	44.7 years	34.9 years	41.0 years	40.8 years
Average length of service of contributing members	8.9 years	6.8 years	8.1 years	11.5 years	8.3 years	9.0 years	8.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Clarendon	Clarksville	Clarksville City	Clear Lake Shores	Cleburne	Cleveland	Clifton
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$497,859	\$406,384	\$113,977	\$1,179,184	\$32,719,354	\$5,130,711	\$1,268,129
b. Noncontributing Members	100,084	553,196	3,407	225,625	6,335,366	1,823,990	359,070
c. Annuitants	167,183	1,649,960	1,154,697	457,186	50,737,828	4,911,506	631,493
2. Total Actuarial Accrued Liability	\$765,126	\$2,609,540	\$1,272,081	\$1,861,995	\$89,792,548	\$11,866,207	\$2,258,692
3. Actuarial value of assets	871,071	3,293,637	1,358,345	1,610,640	72,450,915	9,826,595	2,291,811
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$105,945)	(\$684,097)	(\$86,264)	\$251,355	\$17,341,633	\$2,039,612	(\$33,119)
5. Funded Ratio: (3) / (2)	113.8%	126.2%	106.8%	86.5%	80.7%	82.8%	101.5%
6. Annual Payroll	\$498,624	\$828,349	\$194,632	\$957,939	\$15,433,177	\$3,380,449	\$1,088,476
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	2.77%	7.26%	5.28%	9.22%	8.04%	6.60%	1.95%
Prior Service	-1.30%	-5.07%	-1.25%	1.66%	7.65%	4.17%	-0.19%
Total Retirement	1.47%	2.19%	4.03%	10.88%	15.69%	10.77%	1.76%
Supplemental Death	0.60%	0.24%	0.17%	0.20%	0.22%	0.25%	0.35%
Total Rate	2.07%	2.43%	4.20%	11.08%	15.91%	11.02%	2.11%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	3.78%	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	9.50%	11.50%	N/A	12.50%	N/A	11.50%	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	25.0 years	25.0 years	24.2 years	21.3 years	22.3 years	25.0 years
Number of annuitants	7	18	7	4	205	49	16
Number of active contributing members	16	24	4	17	285	77	25
Number of inactive members	18	41	3	16	133	81	20
Average age of contributing members	54.0 years	46.3 years	36.6 years	41.8 years	43.7 years	42.0 years	48.5 years
Average length of service of contributing members	9.8 years	6.4 years	4.4 years	9.3 years	9.2 years	8.2 years	10.9 years

	Clute	Clyde	Coahoma	Cockrell Hill	Coleman	College Station	Colleyville
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$8,848,924	\$2,057,296	\$321,711	\$2,238,548	\$7,277,998	\$132,548,197	\$25,625,994
b. Noncontributing Members	3,394,243	215,599	135,472	1,034,100	1,915,412	31,262,339	7,946,398
c. Annuitants	8,547,494	1,830,895	323,091	969,136	6,054,731	120,633,522	22,193,487
2. Total Actuarial Accrued Liability	\$20,790,661	\$4,103,790	\$780,274	\$4,241,784	\$15,248,141	\$284,444,058	\$55,765,879
3. Actuarial value of assets	20,420,717	3,434,530	799,096	4,494,641	12,851,190	246,863,192	56,274,183
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$369,944	\$669,260	(\$18,822)	(\$252,857)	\$2,396,951	\$37,580,866	(\$508,304)
5. Funded Ratio: (3) / (2)	98.2%	83.7%	102.4%	106.0%	84.3%	86.8%	100.9%
6. Annual Payroll	\$4,441,951	\$1,175,233	\$247,263	\$1,402,032	\$2,747,130	\$55,755,838	\$13,198,520
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.74%	9.55%	6.50%	9.29%	8.98%	8.56%	8.73%
Prior Service	0.51%	3.41%	-0.47%	-1.11%	7.56%	4.64%	-0.17%
Total Retirement	10.25%	12.96%	6.03%	8.18%	16.54%	13.20%	8.56%
Supplemental Death	0.19%	0.20%	0.23%	0.17%	0.00%	0.00%	0.16%
Total Rate	10.44%	13.16%	6.26%	8.35%	16.54%	13.20%	8.72%
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%	11.50%	13.50%	N/A	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.1 years	26.0 years	25.0 years	25.0 years	16.0 years	21.0 years	25.0 years
Number of annuitants	54	15	4	12	49	445	123
Number of active contributing members	90	32	5	32	68	905	185
Number of inactive members	77	19	3	41	37	520	141
Average age of contributing members	42.5 years	42.9 years	51.9 years	42.9 years	46.4 years	39.6 years	42.7 years
Average length of service of contributing members	7.9 years	8.9 years	8.9 years	9.4 years	12.0 years	9.7 years	11.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Collinsville	Colmesneil	Colorado City	Columbus	Comanche	Combes	Commerce
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$270,893	\$272,279	\$2,180,123	\$3,974,009	\$1,391,267	\$514,500	\$3,738,627
b. Noncontributing Members	1,915	564	1,174,070	1,565,973	254,534	406	2,396,697
c. Annuitants	120,671	0	2,309,295	2,720,309	1,551,109	0	5,220,955
2. Total Actuarial Accrued Liability	\$393,479	\$272,843	\$5,663,488	\$8,260,291	\$3,196,910	\$514,906	\$11,356,279
3. Actuarial value of assets	395,448	227,037	5,686,688	7,215,276	2,959,766	32,550	10,523,511
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$1,969)	\$45,806	(\$23,200)	\$1,045,015	\$237,144	\$482,356	\$832,768
5. Funded Ratio: (3) / (2)	100.5%	83.2%	100.4%	87.3%	92.6%	6.3%	92.7%
6. Annual Payroll	\$324,038	\$164,562	\$1,558,934	\$1,791,681	\$1,108,444	\$593,086	\$2,862,390
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	5.49%	3.69%	8.48%	7.79%	3.26%	1.49%	6.69%
Prior Service	-0.04%	4.72%	-0.09%	4.60%	1.46%	5.26%	1.87%
Total Retirement	5.45%	8.41%	8.39%	12.39%	4.72%	6.75%	8.56%
Supplemental Death	0.26%	0.07%	0.40%	0.22%	0.31%	0.22%	0.23%
Total Rate	5.71%	8.48%	8.79%	12.61%	5.03%	6.97%	8.79%
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)	12.50%	N/A	12.50%	N/A	7.50%	N/A	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	6.7 years	25.0 years	17.7 years	21.1 years	23.0 years	23.3 years
Number of annuitants	3	0	27	24	21	0	63
Number of active contributing members	8	5	40	38	26	18	78
Number of inactive members	2	1	45	29	14	2	90
Average age of contributing members	50.1 years	40.6 years	48.3 years	43.7 years	45.5 years	44.2 years	39.6 years
Average length of service of contributing members	9.1 years	10.1 years	7.3 years	10.1 years	10.6 years	7.4 years	7.0 years

	Conroe	Converse	Cooper	Coppell	Copper Canyon	Copperas Cove	Corinth
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$76,197,982	\$13,232,626	\$724,922	\$86,587,801	\$249,523	\$24,847,658	\$22,822,722
b. Noncontributing Members	10,496,392	3,972,991	147,462	17,046,179	56,992	8,686,111	5,249,122
c. Annuitants	49,860,801	11,139,726	590,830	50,894,228	115,815	26,952,051	10,646,306
2. Total Actuarial Accrued Liability	\$136,555,175	\$28,345,343	\$1,463,214	\$154,528,208	\$422,330	\$60,485,820	\$38,718,150
3. Actuarial value of assets	111,491,427	23,244,882	1,373,415	134,884,187	386,653	52,959,675	31,994,960
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$25,063,748	\$5,100,461	\$89,799	\$19,644,021	\$35,677	\$7,526,145	\$6,723,190
5. Funded Ratio: (3) / (2)	81.6%	82.0%	93.9%	87.3%	91.6%	87.6%	82.6%
6. Annual Payroll	\$27,941,147	\$7,405,518	\$424,841	\$28,875,257	\$204,979	\$12,108,567	\$9,580,026
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.65%	9.63%	3.17%	11.06%	10.72%	8.24%	11.08%
Prior Service	6.52%	4.12%	1.76%	4.47%	2.32%	3.72%	4.22%
Total Retirement	16.17%	13.75%	4.93%	15.53%	13.04%	11.96%	15.30%
Supplemental Death	0.00%	0.14%	0.30%	0.16%	0.51%	0.20%	0.14%
Total Rate	16.17%	13.89%	5.23%	15.69%	13.55%	12.16%	15.44%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	11.45%	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	8.50%	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	19.4 years	26.1 years	16.0 years	22.4 years	8.9 years	26.0 years	25.8 years
Number of annuitants	175	58	5	203	3	213	74
Number of active contributing members	419	158	13	378	3	252	143
Number of inactive members	163	149	4	213	2	222	110
Average age of contributing members	41.5 years	40.0 years	51.7 years	43.6 years	64.7 years	42.0 years	42.5 years
Average length of service of contributing members	10.2 years	7.8 years	11.8 years	12.3 years	13.3 years	12.3 years	12.4 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Corpus Christi	Corrigan	Corsicana	Cotulla	Covington	Crandall	Crane
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$298,510,262	\$448,211	\$26,163,618	\$1,524,583	\$4,060	\$1,815,294	\$2,413,699
b. Noncontributing Members	43,724,239	160,024	5,224,316	48,278	4,939	802,511	177,055
c. Annuitants	413,244,057	883,310	25,005,158	688,202	0	626,526	3,833,528
2. Total Actuarial Accrued Liability	\$755,478,558	\$1,491,545	\$56,393,092	\$2,261,063	\$8,999	\$3,244,331	\$6,424,282
3. Actuarial value of assets	698,509,065	1,494,714	47,568,356	1,845,970	9,701	3,369,977	6,465,342
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$56,969,493	(\$3,169)	\$8,824,736	\$415,093	(\$702)	(\$125,646)	(\$41,060)
5. Funded Ratio: (3) / (2)	92.5%	100.2%	84.4%	81.6%	107.8%	103.9%	100.6%
6. Annual Payroll	\$129,827,363	\$1,030,540	\$9,571,484	\$1,354,315	\$25,918	\$1,312,096	\$1,223,742
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	4.69%	3.85%	7.90%	4.76%	2.77%	11.27%	9.07%
Prior Service	4.88%	-0.02%	7.61%	1.91%	-0.17%	-0.59%	-0.21%
Total Retirement	9.57%	3.83%	15.51%	6.67%	2.60%	10.68%	8.86%
Supplemental Death	0.00%	0.22%	0.23%	0.31%	0.10%	0.18%	0.20%
Total Rate	9.57%	4.05%	15.74%	6.98%	2.70%	10.86%	9.06%
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	11.50%	N/A	13.50%	15.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	11.5 years	25.0 years	17.9 years	24.5 years	25.0 years	25.0 years	25.0 years
Number of annuitants	2,174	15	148	16	0	11	18
Number of active contributing members	2,321	29	180	37	1	29	22
Number of inactive members	1,086	38	92	57	1	41	4
Average age of contributing members	45.2 years	41.7 years	44.2 years	49.5 years	46.4 years	42.6 years	44.1 years
Average length of service of contributing members	11.5 years	5.9 years	11.4 years	5.9 years	1.5 years	6.6 years	9.6 years

	Crawford	Crockett	Crosbyton	Cross Plains	Cross Roads	Crowley	Crystal City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$80,956	\$3,583,288	\$379,285	\$631,003	\$132,521	\$9,766,891	\$1,044,348
b. Noncontributing Members	1,912	534,086	185,328	235,937	39,084	2,442,820	731,474
c. Annuitants	59,988	6,362,854	896,169	352,939	33,782	6,350,910	1,469,064
2. Total Actuarial Accrued Liability	\$142,856	\$10,480,228	\$1,460,782	\$1,219,879	\$205,387	\$18,560,621	\$3,244,886
3. Actuarial value of assets	154,231	9,993,965	1,507,925	1,119,660	176,548	16,171,947	3,950,920
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$11,375)	\$486,263	(\$47,143)	\$100,219	\$28,839	\$2,388,674	(\$706,034)
5. Funded Ratio: (3) / (2)	108.0%	95.4%	103.2%	91.8%	86.0%	87.1%	121.8%
6. Annual Payroll	\$189,773	\$2,215,947	\$317,012	\$409,811	\$477,770	\$5,771,849	\$1,393,570
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	1.35%	6.58%	5.78%	5.22%	6.82%	8.30%	4.05%
Prior Service	-0.37%	1.52%	-0.91%	3.17%	0.55%	2.47%	-3.20%
Total Retirement	0.98%	8.10%	4.87%	8.39%	7.37%	10.77%	0.85%
Supplemental Death	0.00%	0.30%	0.82%	0.22%	0.07%	0.13%	0.00%
Total Rate	0.98%	8.40%	5.69%	8.61%	7.44%	10.90%	0.85%
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%	10.50%	9.50%	N/A	12.50%	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	20.8 years	25.0 years	9.2 years	14.2 years	26.2 years	25.0 years
Number of annuitants	1	59	12	3	1	52	22
Number of active contributing members	5	54	9	8	9	111	50
Number of inactive members	1	45	15	5	3	74	82
Average age of contributing members	39.2 years	42.6 years	53.2 years	48.5 years	38.7 years	42.1 years	41.9 years
Average length of service of contributing members	7.5 years	8.9 years	6.9 years	9.9 years	8.8 years	9.5 years	5.1 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Cuero	Cumby	Daingerfield	Daisetta	Dalhart	Dalworthington Gardens	Danbury
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$7,958,686	\$121,441	\$797,668	\$160,713	\$3,889,879	\$2,973,191	\$390,218
b. Noncontributing Members	1,157,016	76,059	637,570	67,270	711,221	1,438,526	111,013
c. Annuitants	5,274,430	93,267	1,114,925	6,471	3,568,446	4,345,331	4,869
2. Total Actuarial Accrued Liability	\$14,390,132	\$290,767	\$2,550,163	\$234,454	\$8,169,546	\$8,757,048	\$506,100
3. Actuarial value of assets	11,711,029	255,423	2,472,556	272,164	8,163,301	5,962,603	418,279
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$2,679,103	\$35,344	\$77,607	(\$37,710)	\$6,245	\$2,794,445	\$87,821
5. Funded Ratio: (3) / (2)	81.4%	87.8%	97.0%	116.1%	99.9%	68.1%	82.6%
6. Annual Payroll	\$4,820,457	\$394,503	\$800,809	\$259,907	\$2,800,282	\$1,712,437	\$454,342
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	7.01%	1.55%	5.53%	2.24%	4.67%	10.18%	4.58%
Prior Service	3.33%	0.63%	0.61%	-0.98%	0.01%	11.18%	1.57%
Total Retirement	10.34%	2.18%	6.14%	1.26%	4.68%	21.36%	6.15%
Supplemental Death	0.28%	0.14%	0.00%	0.37%	0.19%	0.12%	0.17%
Total Rate	10.62%	2.32%	6.14%	1.63%	4.87%	21.48%	6.32%
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%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.1 years	20.2 years	23.8 years	25.0 years	25.0 years	21.1 years	16.5 years
Number of annuitants	54	3	14	1	30	10	1
Number of active contributing members	93	10	17	8	67	26	10
Number of inactive members	38	15	10	10	72	25	9
Average age of contributing members	46.1 years	41.0 years	44.1 years	57.9 years	40.4 years	41.4 years	47.2 years
Average length of service of contributing members	10.9 years	4.7 years	8.0 years	7.3 years	7.9 years	9.5 years	7.7 years

	Darrouzett	Dayton	De Leon	DeSoto	Decatur	Deer Park	Dekalb
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$21,209	\$4,384,193	\$193,124	\$52,413,881	\$16,151,371	\$58,731,917	\$423,461
b. Noncontributing Members	213,569	602,769	101,423	13,617,430	3,255,339	6,282,608	36,135
c. Annuitants	0	3,285,741	287,070	50,969,792	5,139,317	64,779,877	334,064
2. Total Actuarial Accrued Liability	\$234,778	\$8,272,703	\$581,617	\$117,001,103	\$24,546,027	\$129,794,402	\$793,660
3. Actuarial value of assets	241,383	7,101,190	571,106	110,898,095	20,653,543	118,093,905	842,557
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$6,605)	\$1,171,513	\$10,511	\$6,103,008	\$3,892,484	\$11,700,497	(\$48,897)
5. Funded Ratio: (3) / (2)	102.8%	85.8%	98.2%	94.8%	84.1%	91.0%	106.2%
6. Annual Payroll	\$90,570	\$4,169,526	\$493,691	\$23,752,222	\$6,002,596	\$19,709,545	\$532,473
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	2.42%	5.60%	1.34%	9.33%	10.77%	10.30%	3.61%
Prior Service	-0.45%	1.68%	0.18%	1.60%	3.88%	3.80%	-0.58%
Total Retirement	1.97%	7.28%	1.52%	10.93%	14.65%	14.10%	3.03%
Supplemental Death	0.07%	0.18%	0.19%	0.17%	0.25%	0.18%	0.19%
Total Rate	2.04%	7.46%	1.71%	11.10%	14.90%	14.28%	3.22%
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)	N/A	13.50%	7.50%	N/A	N/A	N/A	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	26.2 years	17.0 years	24.4 years	26.1 years	23.4 years	25.0 years
Number of annuitants	0	46	7	223	40	203	12
Number of active contributing members	2	90	12	349	110	305	15
Number of inactive members	3	67	14	214	86	133	8
Average age of contributing members	44.0 years	43.6 years	41.8 years	43.2 years	45.5 years	41.1 years	49.1 years
Average length of service of contributing members	3.1 years	6.9 years	7.6 years	10.9 years	12.9 years	11.3 years	7.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Del Rio	Dell City	Denison	Denton	Denver City	Deport	Devine
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$21,325,667	\$177,747	\$24,633,092	\$255,287,565	\$3,989,703	\$1,517	\$4,310,401
b. Noncontributing Members	2,042,629	0	4,688,138	47,687,938	1,105,197	5,782	191,820
c. Annuitants	9,007,615	208,019	34,675,071	164,846,928	4,340,487	70,792	1,345,008
2. Total Actuarial Accrued Liability	\$32,375,911	\$385,766	\$63,996,301	\$467,822,431	\$9,435,387	\$78,091	\$5,847,229
3. Actuarial value of assets	22,456,921	354,393	59,147,912	389,929,450	8,941,489	72,609	3,112,528
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$9,918,990	\$31,373	\$4,848,389	\$77,892,981	\$493,898	\$5,482	\$2,734,701
5. Funded Ratio: (3) / (2)	69.4%	91.9%	92.4%	83.3%	94.8%	93.0%	53.2%
6. Annual Payroll	\$19,605,448	\$75,560	\$10,920,605	\$88,147,999	\$1,407,929	\$84,826	\$1,771,333
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	3.68%	5.24%	8.43%	10.00%	6.54%	2.17%	5.90%
Prior Service	3.76%	5.11%	3.74%	7.00%	4.76%	1.01%	10.51%
Total Retirement	7.44%	10.35%	12.17%	17.00%	11.30%	3.18%	16.41%
Supplemental Death	0.21%	0.13%	0.00%	0.18%	0.28%	0.46%	0.16%
Total Rate	7.65%	10.48%	12.17%	17.18%	11.58%	3.64%	16.57%
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	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	18.7 years	10.3 years	15.8 years	17.1 years	8.9 years	7.4 years	21.3 years
Number of annuitants	107	1	151	576	19	1	14
Number of active contributing members	472	3	216	1,246	26	4	40
Number of inactive members	184	0	100	545	28	3	11
Average age of contributing members	43.6 years	41.3 years	44.1 years	43.5 years	47.0 years	49.4 years	44.1 years
Average length of service of contributing members	9.4 years	8.1 years	10.5 years	11.6 years	12.1 years	0.2 years	10.0 years

	Diboll	Dickens	Dickinson	Dilley	Dimmitt	Donna	Double Oak
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,825,317	\$22,029	\$11,502,658	\$1,369,194	\$1,240,976	\$5,024,068	\$524,525
b. Noncontributing Members	1,850,446	24,343	2,389,708	113,439	343,542	1,181,002	191,279
c. Annuitants	5,210,136	0	3,901,835	888,111	2,634,569	2,194,073	23,679
2. Total Actuarial Accrued Liability	\$10,885,899	\$46,372	\$17,794,201	\$2,370,744	\$4,219,087	\$8,399,143	\$739,483
3. Actuarial value of assets	9,585,962	57,416	16,258,190	1,888,630	4,841,087	6,429,630	694,600
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,299,937	(\$11,044)	\$1,536,011	\$482,114	(\$622,000)	\$1,969,513	\$44,883
5. Funded Ratio: (3) / (2)	88.1%	123.8%	91.4%	79.7%	114.7%	76.6%	93.9%
6. Annual Payroll	\$1,936,010	\$73,679	\$5,639,771	\$1,313,985	\$1,059,383	\$4,950,041	\$724,210
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.84%	3.43%	7.21%	5.73%	7.33%	5.97%	4.97%
Prior Service	4.20%	-0.92%	1.68%	2.26%	-3.61%	2.64%	0.50%
Total Retirement	14.04%	2.51%	8.89%	7.99%	3.72%	8.61%	5.47%
Supplemental Death	0.20%	0.18%	0.18%	0.23%	0.00%	0.00%	0.19%
Total Rate	14.24%	2.69%	9.07%	8.22%	3.72%	8.61%	5.66%
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%	11.50%	12.50%	12.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.9 years	25.0 years	24.8 years	24.8 years	25.0 years	22.1 years	16.6 years
Number of annuitants	35	0	34	19	19	31	3
Number of active contributing members	40	2	103	33	32	131	11
Number of inactive members	38	1	75	46	17	84	6
Average age of contributing members	43.5 years	54.7 years	43.4 years	47.8 years	45.1 years	41.1 years	45.8 years
Average length of service of contributing members	9.7 years	3.0 years	9.4 years	8.5 years	6.1 years	5.9 years	11.8 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Dripping Springs	Driscoll	Dublin	Dumas	Duncanville	Eagle Lake	Eagle Pass
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$475,680	\$17,760	\$1,760,813	\$8,090,651	\$34,483,873	\$2,528,339	\$31,545,319
b. Noncontributing Members	126,039	56,854	599,249	2,125,435	13,840,570	549,941	3,798,697
c. Annuitants	59,920	0	1,802,654	7,190,723	61,102,317	1,565,406	31,258,261
2. Total Actuarial Accrued Liability	\$661,639	\$74,614	\$4,162,716	\$17,406,809	\$109,426,760	\$4,643,686	\$66,602,277
3. Actuarial value of assets	518,829	72,644	3,400,479	16,790,497	106,427,480	4,236,066	64,197,878
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$142,810	\$1,970	\$762,237	\$616,312	\$2,999,280	\$407,620	\$2,404,399
5. Funded Ratio: (3) / (2)	78.4%	97.4%	81.7%	96.5%	97.3%	91.2%	96.4%
6. Annual Payroll	\$1,047,322	\$364,131	\$1,405,282	\$5,792,456	\$16,907,621	\$1,200,328	\$16,495,919
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	5.37%	1.89%	9.18%	4.89%	5.69%	7.05%	6.89%
Prior Service	0.99%	0.04%	3.25%	0.64%	1.96%	2.26%	1.51%
Total Retirement	6.36%	1.93%	12.43%	5.53%	7.65%	9.31%	8.40%
Supplemental Death	0.10%	0.11%	0.19%	0.20%	0.00%	0.25%	0.22%
Total Rate	6.46%	2.04%	12.62%	5.73%	7.65%	9.56%	8.62%
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	9.50%	N/A	12.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	19.3 years	21.0 years	26.1 years	26.1 years	11.1 years	22.6 years	12.0 years
Number of annuitants	1	0	18	62	214	16	175
Number of active contributing members	21	8	39	113	257	26	412
Number of inactive members	11	13	47	88	175	31	152
Average age of contributing members	40.7 years	41.4 years	40.1 years	42.2 years	43.3 years	47.9 years	41.9 years
Average length of service of contributing members	5.0 years	3.9 years	5.5 years	9.4 years	10.7 years	8.5 years	9.2 years

	Early	Earth	East Bernard	East Mountain	East Tawakoni	Eastland	Ector
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,200,243	\$109,083	\$31,795	\$2,421	\$214,489	\$2,296,538	\$171,965
b. Noncontributing Members	128,117	46,024	0	200,293	93,398	380,283	5,978
c. Annuitants	1,040,189	84,943	28,076	128,976	404,632	1,890,133	16,922
2. Total Actuarial Accrued Liability	\$2,368,549	\$240,050	\$59,871	\$331,690	\$712,519	\$4,566,954	\$194,865
3. Actuarial value of assets	2,440,577	174,974	46,160	349,469	711,276	4,069,623	201,768
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$72,028)	\$65,076	\$13,711	(\$17,779)	\$1,243	\$497,331	(\$6,903)
5. Funded Ratio: (3) / (2)	103.0%	72.9%	77.1%	105.4%	99.8%	89.1%	103.5%
6. Annual Payroll	\$1,151,758	\$167,466	\$128,911	\$83,293	\$295,231	\$1,725,515	\$176,482
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	3.86%	1.85%	3.63%	13.01%	5.85%	7.27%	2.24%
Prior Service	-0.38%	3.21%	1.74%	-1.31%	0.04%	1.85%	-0.24%
Total Retirement	3.48%	5.06%	5.37%	11.70%	5.89%	9.12%	2.00%
Supplemental Death	0.17%	0.27%	0.19%	0.28%	0.23%	0.32%	0.37%
Total Rate	3.65%	5.33%	5.56%	11.98%	6.12%	9.44%	2.37%
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%	N/A	N/A	N/A	N/A	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	16.2 years	7.0 years	25.0 years	14.0 years	23.3 years	25.0 years
Number of annuitants	11	3	1	2	4	19	1
Number of active contributing members	27	7	4	1	9	40	4
Number of inactive members	14	3	0	8	5	34	1
Average age of contributing members	44.6 years	48.0 years	49.6 years	52.5 years	46.4 years	43.5 years	52.4 years
Average length of service of contributing members	7.2 years	6.9 years	2.4 years	0.6 years	4.2 years	8.7 years	9.8 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Eden	Edgewood	Edinburg	Edna	El Campo	Eldorado	Electra
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$273,024	\$142,384	\$89,728,626	\$4,392,690	\$13,304,787	\$957,470	\$625,129
b. Noncontributing Members	84,123	116,594	7,328,408	1,243,855	3,361,371	152,988	365,048
c. Annuitants	<u>887,832</u>	<u>122,990</u>	<u>43,434,413</u>	<u>2,581,177</u>	<u>11,938,959</u>	<u>1,392,169</u>	<u>885,429</u>
2. Total Actuarial Accrued Liability	\$1,244,979	\$381,968	\$140,491,447	\$8,217,722	\$28,605,117	\$2,502,627	\$1,875,606
3. Actuarial value of assets	<u>1,268,695</u>	<u>326,713</u>	<u>107,690,719</u>	<u>7,126,058</u>	<u>24,944,565</u>	<u>2,210,288</u>	<u>1,808,835</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$23,716)	\$55,255	\$32,800,728	\$1,091,664	\$3,660,552	\$292,339	\$66,771
5. Funded Ratio: (3) / (2)	101.9%	85.5%	76.7%	86.7%	87.2%	88.3%	96.4%
6. Annual Payroll	\$356,624	\$379,578	\$36,301,995	\$1,692,726	\$5,664,682	\$761,026	\$1,004,447
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	3.31%	1.84%	8.40%	5.86%	6.17%	4.88%	1.69%
Prior Service	<u>-0.45%</u>	<u>1.19%</u>	<u>5.84%</u>	<u>4.95%</u>	<u>4.43%</u>	<u>2.33%</u>	<u>0.55%</u>
Total Retirement	2.86%	3.03%	14.24%	10.81%	10.60%	7.21%	2.24%
Supplemental Death	<u>0.30%</u>	<u>0.29%</u>	<u>0.15%</u>	<u>0.27%</u>	<u>0.19%</u>	<u>0.33%</u>	<u>0.29%</u>
Total Rate	3.16%	3.32%	14.39%	11.08%	10.79%	7.54%	2.53%
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	10.50%	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	18.3 years	23.0 years	17.9 years	21.0 years	25.6 years	17.1 years
Number of annuitants	13	7	235	26	68	8	25
Number of active contributing members	9	11	818	36	106	20	27
Number of inactive members	5	9	286	35	63	18	30
Average age of contributing members	48.6 years	44.8 years	40.8 years	47.6 years	41.9 years	37.2 years	46.1 years
Average length of service of contributing members	7.2 years	4.8 years	8.4 years	12.5 years	11.0 years	6.0 years	8.6 years

	Elgin	Elkhart	Elmendorf	Emory	Ennis	Eules	Eustace
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$7,986,345	\$221,643	\$162,433	\$612,417	\$33,037,511	\$101,205,779	\$285,405
b. Noncontributing Members	2,333,646	111,409	37,460	161,197	2,478,508	15,151,812	79,525
c. Annuitants	<u>2,593,181</u>	<u>351,685</u>	<u>15,948</u>	<u>744,940</u>	<u>31,880,201</u>	<u>90,293,678</u>	<u>337,437</u>
2. Total Actuarial Accrued Liability	\$12,913,172	\$684,737	\$215,841	\$1,518,554	\$67,396,220	\$206,651,269	\$702,367
3. Actuarial value of assets	<u>10,201,351</u>	<u>637,881</u>	<u>210,604</u>	<u>1,528,764</u>	<u>58,973,959</u>	<u>184,304,069</u>	<u>614,003</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$2,711,821	\$46,856	\$5,237	(\$10,210)	\$8,422,261	\$22,347,200	\$88,364
5. Funded Ratio: (3) / (2)	79.0%	93.2%	97.6%	100.7%	87.5%	89.2%	87.4%
6. Annual Payroll	\$4,036,027	\$256,496	\$580,631	\$924,211	\$11,310,606	\$29,311,759	\$291,636
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.78%	3.53%	1.38%	4.57%	11.79%	11.17%	5.15%
Prior Service	<u>4.18%</u>	<u>1.51%</u>	<u>0.07%</u>	<u>-0.07%</u>	<u>5.11%</u>	<u>6.34%</u>	<u>3.82%</u>
Total Retirement	13.96%	5.04%	1.45%	4.50%	16.90%	17.51%	8.97%
Supplemental Death	<u>0.27%</u>	<u>0.00%</u>	<u>0.10%</u>	<u>0.21%</u>	<u>0.18%</u>	<u>0.00%</u>	<u>0.20%</u>
Total Rate	14.23%	5.04%	1.55%	4.71%	17.08%	17.51%	9.17%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	9.08%
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	11.50%	N/A	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	24.5 years	16.1 years	17.5 years	25.0 years	21.0 years	16.0 years	9.5 years
Number of annuitants	26	4	1	11	123	234	8
Number of active contributing members	81	6	13	21	197	384	7
Number of inactive members	61	7	14	12	48	159	12
Average age of contributing members	45.0 years	43.4 years	38.5 years	41.7 years	42.5 years	42.7 years	41.2 years
Average length of service of contributing members	9.3 years	6.3 years	3.2 years	7.3 years	11.9 years	13.8 years	6.4 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Everman	Fair Oaks Ranch	Fairfield	Fairview	Falfurrias	Falls City	Farmers Branch
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$2,587,696	\$4,592,209	\$2,222,721	\$6,088,480	\$1,108,762	\$122,510	\$90,697,165
b. Noncontributing Members	687,060	1,307,972	985,892	1,439,717	262,523	137,701	33,090,895
c. Annuitants	3,149,154	949,321	2,367,936	414,003	1,247,527	0	132,904,872
2. Total Actuarial Accrued Liability	\$6,423,910	\$6,849,502	\$5,576,549	\$7,942,200	\$2,618,812	\$260,211	\$256,692,932
3. Actuarial value of assets	5,754,515	6,204,574	5,625,189	6,891,643	2,419,926	210,878	225,823,161
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$669,395	\$644,928	(\$48,640)	\$1,050,557	\$198,886	\$49,333	\$30,869,771
5. Funded Ratio: (3) / (2)	89.6%	90.6%	100.9%	86.8%	92.4%	81.0%	88.0%
6. Annual Payroll	\$2,142,206	\$2,872,344	\$1,581,478	\$4,745,068	\$1,865,467	\$144,893	\$29,250,938
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	7.53%	10.37%	8.28%	9.30%	2.61%	4.87%	10.03%
Prior Service	2.03%	1.35%	-0.19%	1.36%	0.70%	2.76%	8.46%
Total Retirement	9.56%	11.72%	8.09%	10.66%	3.31%	7.63%	18.49%
Supplemental Death	0.31%	0.14%	0.27%	0.16%	0.23%	0.17%	0.13%
Total Rate	9.87%	11.86%	8.36%	10.82%	3.54%	7.80%	18.62%
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)	11.50%	13.50%	13.50%	N/A	9.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	22.8 years	26.0 years	25.0 years	25.1 years	22.7 years	16.6 years	17.4 years
Number of annuitants	21	9	25	6	21	0	324
Number of active contributing members	50	54	35	68	45	4	398
Number of inactive members	43	38	33	41	36	9	317
Average age of contributing members	45.0 years	42.3 years	47.6 years	41.7 years	46.3 years	42.7 years	41.4 years
Average length of service of contributing members	9.1 years	6.5 years	6.6 years	8.8 years	6.4 years	5.0 years	11.2 years

	Farmersville	Farwell	Fate	Fayetteville	Ferris	Flatonia	Florence
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,184,877	\$233,439	\$1,410,731	\$88,251	\$781,665	\$2,582,142	\$214,715
b. Noncontributing Members	515,671	127,124	935,484	0	959,362	539,596	209,920
c. Annuitants	1,998,476	736,773	462,633	31,799	1,929,452	1,642,898	3,158
2. Total Actuarial Accrued Liability	\$5,699,024	\$1,097,336	\$2,808,848	\$120,050	\$3,670,479	\$4,764,636	\$427,793
3. Actuarial value of assets	5,132,201	965,600	2,577,414	113,828	3,557,928	4,258,891	441,624
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$566,823	\$131,736	\$231,434	\$6,222	\$112,551	\$505,745	(\$13,831)
5. Funded Ratio: (3) / (2)	90.1%	88.0%	91.8%	94.8%	96.9%	89.4%	103.2%
6. Annual Payroll	\$2,079,848	\$293,741	\$2,815,967	\$84,149	\$1,709,551	\$938,040	\$335,746
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	6.94%	11.30%	9.39%	1.99%	4.92%	10.30%	4.50%
Prior Service	1.63%	3.02%	0.51%	0.98%	0.39%	5.36%	-0.25%
Total Retirement	8.57%	14.32%	9.90%	2.97%	5.31%	15.66%	4.25%
Supplemental Death	0.23%	0.14%	0.11%	0.00%	0.19%	0.23%	0.14%
Total Rate	8.80%	14.46%	10.01%	2.97%	5.50%	15.89%	4.39%
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 1/2019	26.1 years	21.6 years	24.5 years	9.0 years	26.5 years	12.7 years	25.0 years
Number of annuitants	18	3	9	1	28	12	1
Number of active contributing members	35	7	47	4	39	19	10
Number of inactive members	15	10	32	0	54	11	13
Average age of contributing members	46.3 years	46.0 years	40.8 years	53.4 years	39.1 years	47.8 years	44.8 years
Average length of service of contributing members	10.3 years	6.4 years	8.0 years	5.3 years	5.1 years	11.9 years	4.4 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Floresville	Flower Mound	Floydada	Forest Hill	Forney	Fort Stockton	Franklin
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,982,054	\$82,610,814	\$2,405,656	\$10,363,774	\$13,313,940	\$5,542,298	\$287,189
b. Noncontributing Members	424,598	18,083,586	204,001	3,781,413	2,743,481	2,381,826	36,532
c. Annuitants	<u>3,184,880</u>	<u>31,603,190</u>	<u>2,219,607</u>	<u>8,134,559</u>	<u>6,076,991</u>	<u>9,131,195</u>	<u>231,238</u>
2. Total Actuarial Accrued Liability	\$7,591,532	\$132,297,590	\$4,829,264	\$22,279,746	\$22,134,412	\$17,055,319	\$554,959
3. Actuarial value of assets	<u>5,811,934</u>	<u>116,245,370</u>	<u>4,367,461</u>	<u>19,609,271</u>	<u>18,667,110</u>	<u>13,990,142</u>	<u>606,564</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,779,598	\$16,052,220	\$461,803	\$2,670,475	\$3,467,302	\$3,065,177	(\$51,605)
5. Funded Ratio: (3) / (2)	76.6%	87.9%	90.4%	88.0%	84.3%	82.0%	109.3%
6. Annual Payroll	\$3,094,316	\$37,136,622	\$1,055,367	\$4,969,992	\$8,801,529	\$5,557,292	\$562,364
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	6.66%	8.00%	6.95%	10.13%	11.11%	6.32%	3.80%
Prior Service	<u>3.89%</u>	<u>2.67%</u>	<u>3.14%</u>	<u>3.22%</u>	<u>2.36%</u>	<u>3.65%</u>	<u>-0.56%</u>
Total Retirement	10.55%	10.67%	10.09%	13.35%	13.47%	9.97%	3.24%
Supplemental Death	<u>0.00%</u>	<u>0.13%</u>	<u>0.23%</u>	<u>0.14%</u>	<u>0.13%</u>	<u>0.29%</u>	<u>0.00%</u>
Total Rate	10.55%	10.80%	10.32%	13.49%	13.60%	10.26%	3.24%
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)	11.50%	13.50%	N/A	13.50%	N/A	11.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	22.7 years	24.8 years	21.2 years	26.0 years	26.0 years	22.2 years	25.0 years
Number of annuitants	29	203	18	68	22	65	5
Number of active contributing members	65	583	21	83	143	120	14
Number of inactive members	30	436	16	84	46	74	7
Average age of contributing members	45.0 years	41.2 years	42.8 years	39.9 years	39.2 years	40.9 years	40.2 years
Average length of service of contributing members	6.8 years	9.8 years	10.2 years	9.1 years	8.4 years	6.0 years	4.8 years

	Frankston	Fredericksburg	Freeport	Freer	Friendswood	Frona	Frisco
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$245,603	\$22,455,435	\$11,891,235	\$633,626	\$41,005,796	\$1,376,872	\$193,204,959
b. Noncontributing Members	6,593	2,761,250	5,050,862	263,986	7,953,562	764,193	22,858,730
c. Annuitants	<u>150,241</u>	<u>17,260,093</u>	<u>10,317,788</u>	<u>293,728</u>	<u>26,192,016</u>	<u>2,803,469</u>	<u>27,864,280</u>
2. Total Actuarial Accrued Liability	\$402,437	\$42,476,778	\$27,259,885	\$1,191,340	\$75,151,374	\$4,944,534	\$243,927,969
3. Actuarial value of assets	<u>419,975</u>	<u>38,514,099</u>	<u>21,698,973</u>	<u>876,194</u>	<u>64,475,226</u>	<u>4,682,189</u>	<u>202,777,934</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$17,538)	\$3,962,679	\$5,560,912	\$315,146	\$10,676,148	\$262,345	\$41,150,035
5. Funded Ratio: (3) / (2)	104.4%	90.7%	79.6%	73.5%	85.8%	94.7%	83.1%
6. Annual Payroll	\$488,114	\$9,980,187	\$6,459,970	\$619,298	\$14,344,031	\$929,238	\$83,759,010
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	1.68%	5.98%	8.50%	3.65%	10.93%	6.34%	11.25%
Prior Service	<u>-0.22%</u>	<u>3.61%</u>	<u>5.15%</u>	<u>3.40%</u>	<u>4.76%</u>	<u>2.79%</u>	<u>2.96%</u>
Total Retirement	1.46%	9.59%	13.65%	7.05%	15.69%	9.13%	14.21%
Supplemental Death	<u>0.18%</u>	<u>0.23%</u>	<u>0.15%</u>	<u>0.34%</u>	<u>0.21%</u>	<u>0.18%</u>	<u>0.13%</u>
Total Rate	1.64%	9.82%	13.80%	7.39%	15.90%	9.31%	14.34%
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	11.50%	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	14.3 years	26.1 years	21.9 years	23.4 years	13.4 years	25.8 years
Number of annuitants	4	95	67	6	115	14	163
Number of active contributing members	12	169	120	16	210	22	1,129
Number of inactive members	4	55	108	15	109	23	430
Average age of contributing members	44.4 years	45.2 years	40.4 years	49.8 years	44.3 years	43.2 years	41.3 years
Average length of service of contributing members	7.3 years	13.1 years	6.7 years	9.2 years	12.4 years	9.1 years	9.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Fritch	Frost	Fulshear	Fulton	Gainesville	Galena Park	Ganado
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$399,641	\$36,417	\$1,207,136	\$172,215	\$20,102,350	\$7,486,812	\$1,118,808
b. Noncontributing Members	452,187	48,351	113,647	32,222	2,957,681	1,523,108	1,366,423
c. Annuitants	504,733	182,421	58,340	296,970	20,349,829	8,764,118	750,004
2. Total Actuarial Accrued Liability	\$1,356,561	\$267,189	\$1,379,123	\$501,407	\$43,409,860	\$17,774,038	\$3,235,235
3. Actuarial value of assets	2,004,102	240,427	1,053,163	343,215	37,124,929	16,047,279	3,134,590
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$647,541)	\$26,762	\$325,960	\$158,192	\$6,284,931	\$1,726,759	\$100,645
5. Funded Ratio: (3) / (2)	147.7%	90.0%	76.4%	68.5%	85.5%	90.3%	96.9%
6. Annual Payroll	\$751,307	\$104,839	\$2,802,743	\$264,430	\$11,345,149	\$3,710,437	\$494,867
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	8.17%	3.37%	7.17%	7.03%	4.61%	9.24%	11.89%
Prior Service	-5.29%	2.21%	0.76%	12.12%	4.58%	3.08%	1.70%
Total Retirement	2.88%	5.58%	7.93%	19.15%	9.19%	12.32%	13.59%
Supplemental Death	0.17%	0.00%	0.13%	0.27%	0.21%	0.22%	0.42%
Total Rate	3.05%	5.58%	8.06%	19.42%	9.40%	12.54%	14.01%
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%	7.50%	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	15.2 years	22.6 years	5.5 years	17.1 years	26.0 years	16.7 years
Number of annuitants	10	2	1	4	141	57	10
Number of active contributing members	21	3	49	6	211	73	10
Number of inactive members	36	3	17	2	108	53	6
Average age of contributing members	37.5 years	63.5 years	44.6 years	53.0 years	42.3 years	41.4 years	52.0 years
Average length of service of contributing members	4.4 years	5.4 years	8.4 years	8.3 years	10.3 years	8.0 years	10.1 years

	Garden Ridge	Garland	Garrison	Gary	Gatesville	George West	Georgetown
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,801,777	\$486,210,708	\$726,866	\$240,497	\$10,142,247	\$720,157	\$91,798,561
b. Noncontributing Members	478,845	54,345,390	467,283	3,153	862,579	373,216	13,081,068
c. Annuitants	549,077	407,393,187	849,090	220,572	7,738,278	553,054	37,024,432
2. Total Actuarial Accrued Liability	\$2,829,699	\$947,949,285	\$2,043,239	\$464,222	\$18,743,104	\$1,646,427	\$141,904,061
3. Actuarial value of assets	2,418,482	910,478,458	1,775,152	360,951	15,626,639	1,293,891	119,675,227
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$411,217	\$37,470,827	\$268,087	\$103,271	\$3,116,465	\$352,536	\$22,228,834
5. Funded Ratio: (3) / (2)	85.5%	96.0%	86.9%	77.8%	83.4%	78.6%	84.3%
6. Annual Payroll	\$1,610,930	\$148,985,462	\$338,518	\$218,357	\$3,741,618	\$1,194,095	\$44,747,625
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	6.20%	8.52%	10.73%	3.76%	9.55%	4.37%	9.08%
Prior Service	1.56%	2.27%	8.01%	3.34%	5.50%	1.79%	3.15%
Total Retirement	7.76%	10.79%	18.74%	7.10%	15.05%	6.16%	12.23%
Supplemental Death	0.19%	0.21%	0.14%	0.00%	0.23%	0.17%	0.13%
Total Rate	7.95%	11.00%	18.88%	7.10%	15.28%	6.33%	12.36%
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	7.50%	N/A	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.2 years	14.4 years	13.3 years	23.2 years	22.3 years	25.4 years	23.7 years
Number of annuitants	14	1,366	5	2	46	7	179
Number of active contributing members	29	2,005	7	4	74	28	653
Number of inactive members	21	608	3	2	22	32	222
Average age of contributing members	46.0 years	44.9 years	44.2 years	49.8 years	44.1 years	45.0 years	42.2 years
Average length of service of contributing members	12.4 years	13.7 years	7.4 years	9.5 years	12.7 years	6.9 years	9.8 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Giddings	Gilmer	Gladewater	Glen Rose	Glenn Heights	Godley	Goldsmith
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$8,176,421	\$4,746,190	\$1,449,828	\$1,542,964	\$2,845,912	\$196,736	\$194,264
b. Noncontributing Members	1,027,237	571,487	1,599,759	143,625	2,487,235	80,879	165,954
c. Annuitants	6,158,203	4,451,918	3,346,375	2,146,697	3,039,060	149,209	0
2. Total Actuarial Accrued Liability	\$15,361,861	\$9,769,595	\$6,395,962	\$3,833,286	\$8,372,207	\$426,824	\$360,218
3. Actuarial value of assets	11,959,121	8,056,762	6,719,707	3,220,708	8,676,254	366,757	338,126
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$3,402,740	\$1,712,833	(\$323,745)	\$612,578	(\$304,047)	\$60,067	\$22,092
5. Funded Ratio: (3) / (2)	77.8%	82.5%	105.1%	84.0%	103.6%	85.9%	93.9%
6. Annual Payroll	\$2,859,383	\$2,236,489	\$2,657,786	\$1,282,401	\$3,959,755	\$497,238	\$213,853
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.02%	8.60%	3.31%	11.69%	3.60%	1.68%	1.67%
Prior Service	9.81%	5.06%	-0.75%	2.88%	-0.47%	0.85%	1.95%
Total Retirement	18.83%	13.66%	2.56%	14.57%	3.13%	2.53%	3.62%
Supplemental Death	0.28%	0.23%	0.19%	0.31%	0.14%	0.18%	0.41%
Total Rate	19.11%	13.89%	2.75%	14.88%	3.27%	2.71%	4.03%
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)	N/A	N/A	7.50%	N/A	12.50%	8.50%	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	16.2 years	22.3 years	25.0 years	25.8 years	25.0 years	20.4 years	6.0 years
Number of annuitants	35	34	39	18	50	5	0
Number of active contributing members	65	49	55	29	73	11	4
Number of inactive members	45	30	85	12	88	13	2
Average age of contributing members	45.3 years	42.6 years	41.7 years	46.9 years	40.6 years	38.2 years	49.8 years
Average length of service of contributing members	10.5 years	11.2 years	6.0 years	9.2 years	7.5 years	4.8 years	12.3 years

	Goldthwaite	Goliad	Gonzales	Gorman	Graford	Graham	Granbury
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,046,284	\$388,222	\$6,777,596	\$188,750	\$97,636	\$6,885,358	\$19,422,054
b. Noncontributing Members	219,623	278,224	2,001,449	5,498	0	934,985	3,769,959
c. Annuitants	2,595,994	1,076,096	8,977,636	0	0	8,845,826	17,374,896
2. Total Actuarial Accrued Liability	\$5,861,901	\$1,742,542	\$17,756,681	\$194,248	\$97,636	\$16,666,169	\$40,566,909
3. Actuarial value of assets	4,832,980	1,977,849	14,397,910	35,171	91,939	14,739,708	33,486,675
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,028,921	(\$235,307)	\$3,358,771	\$159,077	\$5,697	\$1,926,461	\$7,080,234
5. Funded Ratio: (3) / (2)	82.4%	113.5%	81.1%	18.1%	94.2%	88.4%	82.5%
6. Annual Payroll	\$719,108	\$559,318	\$4,918,434	\$243,149	\$128,632	\$3,929,688	\$8,156,484
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.37%	4.93%	6.28%	1.75%	2.09%	6.92%	10.03%
Prior Service	11.88%	-2.74%	4.40%	6.80%	0.79%	3.52%	5.94%
Total Retirement	22.25%	2.19%	10.68%	8.55%	2.88%	10.44%	15.97%
Supplemental Death	0.26%	0.23%	0.23%	0.14%	0.24%	0.32%	0.23%
Total Rate	22.51%	2.42%	10.91%	8.69%	3.12%	10.76%	16.20%
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 1/2019	16.1 years	25.0 years	23.2 years	12.0 years	6.3 years	22.2 years	21.1 years
Number of annuitants	8	10	55	0	0	69	97
Number of active contributing members	11	15	106	7	3	84	157
Number of inactive members	4	21	103	2	0	37	85
Average age of contributing members	48.8 years	40.9 years	40.6 years	47.0 years	49.0 years	45.1 years	44.3 years
Average length of service of contributing members	15.5 years	6.9 years	8.0 years	8.6 years	7.6 years	9.2 years	9.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Grand Prairie	Grand Saline	Grandview	Granger	Granite Shoals	Grapeland	Grapevine
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$278,476,710	\$830,186	\$418,388	\$101,041	\$1,247,408	\$77,443	\$130,297,047
b. Noncontributing Members	32,511,255	539,746	316,917	170,855	194,628	201,693	19,713,792
c. Annuitants	<u>244,786,920</u>	<u>1,466,158</u>	<u>623,008</u>	<u>160,329</u>	<u>177,137</u>	<u>378,735</u>	<u>121,771,071</u>
2. Total Actuarial Accrued Liability	\$555,774,885	\$2,836,090	\$1,358,313	\$432,225	\$1,619,173	\$657,871	\$271,781,910
3. Actuarial value of assets	<u>484,310,130</u>	<u>2,901,606</u>	<u>1,495,691</u>	<u>511,101</u>	<u>1,507,982</u>	<u>649,399</u>	<u>227,817,063</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$71,464,755	(\$65,516)	(\$137,378)	(\$78,876)	\$111,191	\$8,472	\$43,964,847
5. Funded Ratio: (3) / (2)	87.1%	102.3%	110.1%	118.2%	93.1%	98.7%	83.8%
6. Annual Payroll	\$92,249,384	\$878,505	\$769,369	\$350,491	\$1,773,765	\$288,434	\$43,703,242
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.06%	4.73%	7.29%	2.17%	4.62%	3.51%	11.44%
Prior Service	<u>5.85%</u>	<u>-0.50%</u>	<u>-1.10%</u>	<u>-1.52%</u>	<u>0.39%</u>	<u>0.21%</u>	<u>7.14%</u>
Total Retirement	15.91%	4.23%	6.19%	0.65%	5.01%	3.72%	18.58%
Supplemental Death	<u>0.18%</u>	<u>0.30%</u>	<u>0.00%</u>	<u>0.00%</u>	<u>0.26%</u>	<u>0.00%</u>	<u>0.00%</u>
Total Rate	16.09%	4.53%	6.19%	0.65%	5.27%	3.72%	18.58%
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	9.50%	11.50%	7.50%	N/A	7.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	18.3 years	25.0 years	25.0 years	25.0 years	24.1 years	20.3 years	20.0 years
Number of annuitants	735	16	10	7	8	10	377
Number of active contributing members	1,313	22	16	9	31	8	575
Number of inactive members	515	18	16	14	19	19	257
Average age of contributing members	41.8 years	45.7 years	45.0 years	48.0 years	45.4 years	41.9 years	44.7 years
Average length of service of contributing members	11.4 years	7.4 years	8.3 years	4.8 years	9.0 years	3.9 years	12.1 years

	Greenville	Gregory	Grey Forest	Groesbeck	Groom	Groves	Groveton
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$50,145,049	\$130,714	\$5,983,517	\$941,092	\$109,763	\$19,989,403	\$183,744
b. Noncontributing Members	9,309,504	105,888	846,530	209,976	18,638	1,283,836	10,001
c. Annuitants	<u>53,857,726</u>	<u>125,586</u>	<u>7,199,299</u>	<u>533,353</u>	<u>171,987</u>	<u>17,944,018</u>	<u>29,557</u>
2. Total Actuarial Accrued Liability	\$113,312,279	\$362,188	\$14,029,346	\$1,684,421	\$300,388	\$39,217,257	\$223,302
3. Actuarial value of assets	<u>106,474,081</u>	<u>516,148</u>	<u>11,733,286</u>	<u>1,467,411</u>	<u>311,398</u>	<u>37,797,992</u>	<u>228,046</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$6,838,198	(\$153,960)	\$2,296,060	\$217,010	(\$11,010)	\$1,419,265	(\$4,744)
5. Funded Ratio: (3) / (2)	94.0%	142.5%	83.6%	87.1%	103.7%	96.4%	102.1%
6. Annual Payroll	\$18,782,227	\$441,509	\$2,742,657	\$1,248,700	\$175,804	\$6,498,991	\$245,305
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	7.43%	6.23%	9.47%	1.33%	3.28%	7.28%	2.11%
Prior Service	<u>3.37%</u>	<u>-2.14%</u>	<u>5.91%</u>	<u>1.17%</u>	<u>-0.38%</u>	<u>2.04%</u>	<u>-0.12%</u>
Total Retirement	10.80%	4.09%	15.38%	2.50%	2.90%	9.32%	1.99%
Supplemental Death	<u>0.26%</u>	<u>0.25%</u>	<u>0.22%</u>	<u>0.22%</u>	<u>0.00%</u>	<u>0.00%</u>	<u>0.37%</u>
Total Rate	11.06%	4.34%	15.60%	2.72%	2.90%	9.32%	2.36%
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	9.50%	N/A	N/A	7.50%	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	13.9 years	25.0 years	20.2 years	21.5 years	25.0 years	13.7 years	25.0 years
Number of annuitants	272	2	22	14	4	90	2
Number of active contributing members	320	9	39	30	4	97	11
Number of inactive members	156	15	15	17	3	35	4
Average age of contributing members	45.8 years	49.9 years	44.0 years	45.4 years	53.2 years	45.8 years	58.0 years
Average length of service of contributing members	11.7 years	4.8 years	7.7 years	10.9 years	6.4 years	15.1 years	7.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Gruver	Gun Barrel City	Gunter	Hale Center	Hallettsville	Hallsville	Haltom City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$421,110	\$1,544,308	\$75,636	\$221,812	\$4,174,943	\$355,091	\$53,509,482
b. Noncontributing Members	444,802	715,963	49,938	55,944	265,596	55,542	13,521,374
c. Annuitants	432,089	921,161	73,461	56,750	2,991,626	258,183	51,034,751
2. Total Actuarial Accrued Liability	\$1,298,001	\$3,181,432	\$199,035	\$334,506	\$7,432,165	\$668,816	\$118,065,607
3. Actuarial value of assets	1,200,480	3,269,505	282,945	331,519	6,651,753	491,984	96,605,503
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$97,521	(\$88,073)	(\$83,910)	\$2,987	\$780,412	\$176,832	\$21,460,104
5. Funded Ratio: (3) / (2)	92.5%	102.8%	142.2%	99.1%	89.5%	73.6%	81.8%
6. Annual Payroll	\$245,746	\$1,706,220	\$361,999	\$428,449	\$1,516,202	\$741,942	\$17,256,507
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	7.50%	5.42%	5.38%	1.90%	6.88%	1.58%	10.56%
Prior Service	5.44%	-0.32%	-1.42%	0.06%	4.89%	1.44%	8.28%
Total Retirement	12.94%	5.10%	3.96%	1.96%	11.77%	3.02%	18.84%
Supplemental Death	0.00%	0.19%	0.17%	0.23%	0.27%	0.22%	0.18%
Total Rate	12.94%	5.29%	4.13%	2.19%	12.04%	3.24%	19.02%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	11.96%	N/A	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	12.50%	11.50%	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	9.0 years	25.0 years	25.0 years	14.9 years	13.5 years	25.8 years	22.0 years
Number of annuitants	3	23	4	1	22	4	201
Number of active contributing members	5	39	8	11	34	17	259
Number of inactive members	8	36	11	8	15	18	161
Average age of contributing members	46.2 years	42.9 years	48.1 years	46.8 years	47.2 years	43.9 years	44.4 years
Average length of service of contributing members	7.5 years	7.1 years	4.5 years	7.0 years	15.1 years	7.9 years	12.7 years

	Hamilton	Hamlin	Happy	Harker Heights	Harlingen	Harlingen Waterworks Sys	Hart
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,201,473	\$801,501	\$193,787	\$32,723,600	\$34,457,373	\$9,369,966	\$102,418
b. Noncontributing Members	315,834	165,778	125,818	5,710,604	9,107,549	1,293,600	36,862
c. Annuitants	2,793,091	2,152,451	224,811	11,617,160	48,365,294	12,661,663	25,070
2. Total Actuarial Accrued Liability	\$4,310,398	\$3,119,730	\$544,416	\$50,051,364	\$91,930,216	\$23,325,229	\$164,350
3. Actuarial value of assets	3,503,172	2,631,674	544,857	40,163,272	87,548,778	23,444,058	117,008
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$807,226	\$488,056	(\$441)	\$9,888,092	\$4,381,438	(\$118,829)	\$47,342
5. Funded Ratio: (3) / (2)	81.3%	84.4%	100.1%	80.2%	95.2%	100.5%	71.2%
6. Annual Payroll	\$945,354	\$562,975	\$89,915	\$12,204,192	\$9,915,947	\$6,268,591	\$143,835
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	11.46%	7.87%	8.36%	10.03%	4.96%	1.99%	1.12%
Prior Service	6.42%	6.06%	-0.03%	4.86%	5.53%	-0.12%	2.81%
Total Retirement	17.88%	13.93%	8.33%	14.89%	10.49%	1.87%	3.93%
Supplemental Death	0.26%	0.33%	0.37%	0.14%	0.35%	0.26%	0.00%
Total Rate	18.14%	14.26%	8.70%	15.03%	10.84%	2.13%	3.93%
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	N/A	N/A	N/A	15.50%	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	18.4 years	23.5 years	25.0 years	26.0 years	11.3 years	25.0 years	17.0 years
Number of annuitants	21	14	2	78	332	116	2
Number of active contributing members	27	15	2	215	179	135	5
Number of inactive members	17	9	2	131	74	49	1
Average age of contributing members	42.7 years	44.0 years	51.5 years	41.8 years	49.9 years	45.0 years	38.2 years
Average length of service of contributing members	5.5 years	6.8 years	10.8 years	13.6 years	18.8 years	10.7 years	7.4 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Haskell	Haslet	Hawkins	Hays	Hearne	Heath	Hedley
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$331,411	\$1,886,649	\$1,414,293	\$3,303	\$4,359,382	\$5,062,723	\$9,950
b. Noncontributing Members	197,388	341,585	28,920	0	1,015,618	2,244,426	139,811
c. Annuitants	<u>762,765</u>	<u>311,894</u>	<u>747,154</u>	<u>131,443</u>	<u>3,231,086</u>	<u>3,175,608</u>	<u>20,118</u>
2. Total Actuarial Accrued Liability	\$1,291,564	\$2,540,128	\$2,190,367	\$134,746	\$8,606,086	\$10,482,757	\$169,879
3. Actuarial value of assets	<u>1,768,239</u>	<u>2,565,528</u>	<u>1,973,782</u>	<u>151,892</u>	<u>6,552,902</u>	<u>9,518,812</u>	<u>175,139</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$476,675)	(\$25,400)	\$216,585	(\$17,146)	\$2,053,184	\$963,945	(\$5,260)
5. Funded Ratio: (3) / (2)	136.9%	101.0%	90.1%	112.7%	76.1%	90.8%	103.1%
6. Annual Payroll	\$738,095	\$1,302,002	\$439,534	\$16,894	\$2,192,725	\$3,735,325	\$59,406
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	1.74%	8.91%	8.65%	10.07%	9.04%	9.55%	4.72%
Prior Service	<u>-1.74%</u>	<u>-0.12%</u>	<u>6.14%</u>	<u>-6.87%</u>	<u>6.04%</u>	<u>1.59%</u>	<u>-0.60%</u>
Total Retirement	0.00%	8.79%	14.79%	3.20%	15.08%	11.14%	4.12%
Supplemental Death	<u>0.19%</u>	<u>0.18%</u>	<u>0.22%</u>	<u>0.64%</u>	<u>0.23%</u>	<u>0.20%</u>	<u>0.38%</u>
Total Rate	0.19%	8.97%	15.01%	3.84%	15.31%	11.34%	4.50%
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)	9.50%	15.50%	N/A	N/A	N/A	13.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	25.0 years	9.9 years	25.0 years	23.1 years	24.9 years	25.0 years
Number of annuitants	12	6	12	3	25	18	1
Number of active contributing members	19	24	10	1	56	49	2
Number of inactive members	16	20	3	0	34	32	7
Average age of contributing members	39.7 years	45.5 years	49.3 years	54.3 years	44.8 years	44.1 years	49.1 years
Average length of service of contributing members	4.9 years	9.6 years	14.1 years	0.8 years	8.3 years	12.3 years	1.5 years

	Hedwig Village	Helotes	Hemphill	Hempstead	Henderson	Henrietta	Hereford
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$2,891,528	\$4,739,210	\$2,509,211	\$6,547,521	\$14,853,700	\$835,654	\$11,798,337
b. Noncontributing Members	621,922	1,049,845	191,312	353,954	2,431,245	568,674	1,607,057
c. Annuitants	<u>2,008,135</u>	<u>726,582</u>	<u>674,563</u>	<u>4,050,259</u>	<u>15,169,953</u>	<u>1,409,526</u>	<u>8,044,748</u>
2. Total Actuarial Accrued Liability	\$5,521,585	\$6,515,637	\$3,375,086	\$10,951,734	\$32,454,898	\$2,813,854	\$21,450,142
3. Actuarial value of assets	<u>4,995,110</u>	<u>5,880,898</u>	<u>2,864,557</u>	<u>10,033,854</u>	<u>26,451,006</u>	<u>2,260,104</u>	<u>18,406,458</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$526,475	\$634,739	\$510,529	\$917,880	\$6,003,892	\$553,750	\$3,043,684
5. Funded Ratio: (3) / (2)	90.5%	90.3%	84.9%	91.6%	81.5%	80.3%	85.8%
6. Annual Payroll	\$2,025,209	\$3,714,397	\$1,159,729	\$3,560,483	\$6,250,521	\$687,875	\$5,237,981
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	4.97%	5.24%	4.90%	6.35%	8.61%	9.94%	6.53%
Prior Service	<u>2.25%</u>	<u>1.33%</u>	<u>2.88%</u>	<u>1.55%</u>	<u>6.54%</u>	<u>4.86%</u>	<u>4.03%</u>
Total Retirement	7.22%	6.57%	7.78%	7.90%	15.15%	14.80%	10.56%
Supplemental Death	<u>0.25%</u>	<u>0.13%</u>	<u>0.38%</u>	<u>0.23%</u>	<u>0.16%</u>	<u>0.24%</u>	<u>0.22%</u>
Total Rate	7.47%	6.70%	8.16%	8.13%	15.31%	15.04%	10.78%
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	12.50%	11.50%	N/A	N/A	N/A	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	15.5 years	17.5 years	22.6 years	26.0 years	21.3 years	25.7 years	20.7 years
Number of annuitants	14	12	10	21	70	14	45
Number of active contributing members	29	72	24	76	121	17	94
Number of inactive members	19	32	6	24	57	13	32
Average age of contributing members	49.4 years	40.7 years	48.1 years	46.6 years	39.0 years	46.1 years	42.0 years
Average length of service of contributing members	13.3 years	10.3 years	11.3 years	9.8 years	9.2 years	6.5 years	11.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Hewitt	Hickory Creek	Hico	Hidalgo	Higgins	Highland Park	Highland Village
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$10,180,567	\$2,026,733	\$177,384	\$10,962,066	\$184,213	\$29,133,491	\$23,533,853
b. Noncontributing Members	1,818,439	651,497	416,368	4,090,713	0	5,404,702	7,447,012
c. Annuitants	7,046,588	412,735	463,604	3,983,075	178,606	39,075,492	9,166,317
2. Total Actuarial Accrued Liability	\$19,045,594	\$3,090,965	\$1,057,356	\$19,035,854	\$362,819	\$73,613,685	\$40,147,182
3. Actuarial value of assets	15,180,995	2,757,098	1,127,356	16,552,199	373,625	75,446,251	35,307,354
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$3,864,599	\$333,867	(\$70,000)	\$2,483,655	(\$10,806)	(\$1,832,566)	\$4,839,828
5. Funded Ratio: (3) / (2)	79.7%	89.2%	106.6%	87.0%	103.0%	102.5%	87.9%
6. Annual Payroll	\$4,751,519	\$1,126,695	\$447,278	\$6,075,635	\$117,185	\$12,449,142	\$10,209,145
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.88%	10.16%	5.86%	9.62%	4.03%	6.31%	10.51%
Prior Service	4.88%	1.91%	-1.03%	3.11%	-0.57%	-0.90%	2.84%
Total Retirement	15.76%	12.07%	4.83%	12.73%	3.46%	5.41%	13.35%
Supplemental Death	0.12%	0.09%	0.25%	0.00%	0.25%	0.00%	0.15%
Total Rate	15.88%	12.16%	5.08%	12.73%	3.71%	5.41%	13.50%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	5.34%	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	13.50%	11.50%	13.50%	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.0 years	25.5 years	25.0 years	18.1 years	25.0 years	25.0 years	26.1 years
Number of annuitants	32	9	8	33	2	112	63
Number of active contributing members	91	21	13	150	3	118	153
Number of inactive members	58	16	8	106	0	38	115
Average age of contributing members	39.2 years	38.6 years	41.7 years	44.3 years	53.3 years	45.5 years	42.4 years
Average length of service of contributing members	9.5 years	7.4 years	3.7 years	7.4 years	12.0 years	14.9 years	10.9 years

	Hill Country Village	Hillsboro	Hilshire Village	Hitchcock	Holland	Holiday	Hollywood Park
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,024,070	\$9,647,325	\$75,714	\$2,238,819	\$406,464	\$541,711	\$2,958,732
b. Noncontributing Members	499,498	2,882,970	3,299	655,346	70,813	103,596	761,637
c. Annuitants	331,949	6,883,855	11,500	1,197,714	151,659	117	2,003,252
2. Total Actuarial Accrued Liability	\$1,855,517	\$19,414,150	\$90,513	\$4,091,879	\$628,936	\$645,424	\$5,723,621
3. Actuarial value of assets	1,924,379	16,574,991	60,920	4,138,763	562,841	650,842	5,068,675
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$68,862)	\$2,839,159	\$29,593	(\$46,884)	\$66,095	(\$5,418)	\$654,946
5. Funded Ratio: (3) / (2)	103.7%	85.4%	67.3%	101.1%	89.5%	100.8%	88.6%
6. Annual Payroll	\$808,134	\$4,742,841	\$106,729	\$2,399,215	\$269,963	\$418,067	\$1,951,218
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	4.24%	6.10%	5.76%	3.98%	6.00%	2.80%	6.79%
Prior Service	-0.53%	4.95%	7.23%	0.25%	2.00%	-0.08%	2.01%
Total Retirement	3.71%	11.05%	12.99%	4.23%	8.00%	2.72%	8.80%
Supplemental Death	0.14%	0.00%	0.22%	0.25%	0.48%	0.00%	0.17%
Total Rate	3.85%	11.05%	13.21%	4.48%	8.48%	2.72%	8.97%
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 1/2019	25.0 years	16.2 years	4.2 years	0.0 years	16.7 years	25.0 years	26.0 years
Number of annuitants	4	61	1	15	3	1	18
Number of active contributing members	15	98	2	51	7	10	38
Number of inactive members	20	72	1	51	2	4	24
Average age of contributing members	43.8 years	43.3 years	45.8 years	46.7 years	53.9 years	46.6 years	44.0 years
Average length of service of contributing members	11.4 years	10.5 years	5.5 years	9.9 years	9.2 years	10.5 years	8.8 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Hondo	Honey Grove	Hooks	Howe	Hubbard	Hudson	Hudson Oaks
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$4,258,173	\$660,790	\$818,302	\$1,149,843	\$298,242	\$695,862	\$2,640,783
b. Noncontributing Members	2,098,249	319,179	495,073	507,283	120,366	37,261	635,963
c. Annuitants	<u>8,569,051</u>	<u>565,537</u>	<u>192,921</u>	<u>500,998</u>	<u>8,975</u>	<u>71,507</u>	<u>497,514</u>
2. Total Actuarial Accrued Liability	\$14,925,473	\$1,545,506	\$1,506,296	\$2,158,124	\$427,583	\$804,630	\$3,774,260
3. Actuarial value of assets	<u>13,787,124</u>	<u>1,483,382</u>	<u>1,169,040</u>	<u>2,163,910</u>	<u>465,245</u>	<u>768,525</u>	<u>3,282,300</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,138,349	\$62,124	\$337,256	(\$5,786)	(\$37,662)	\$36,105	\$491,960
5. Funded Ratio: (3) / (2)	92.4%	96.0%	77.6%	100.3%	108.8%	95.5%	87.0%
6. Annual Payroll	\$4,393,931	\$446,554	\$546,652	\$704,498	\$415,159	\$676,650	\$1,418,461
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	6.83%	6.50%	8.02%	5.48%	1.37%	3.96%	9.86%
Prior Service	<u>1.55%</u>	<u>1.25%</u>	<u>5.47%</u>	<u>-0.06%</u>	<u>-0.58%</u>	<u>0.40%</u>	<u>2.10%</u>
Total Retirement	8.38%	7.75%	13.49%	5.42%	0.79%	4.36%	11.96%
Supplemental Death	<u>0.17%</u>	<u>0.34%</u>	<u>0.28%</u>	<u>0.32%</u>	<u>0.23%</u>	<u>0.20%</u>	<u>0.12%</u>
Total Rate	8.55%	8.09%	13.77%	5.74%	1.02%	4.56%	12.08%
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)	11.50%	9.50%	13.50%	11.50%	N/A	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.1 years	14.4 years	14.7 years	25.0 years	25.0 years	18.2 years	25.6 years
Number of annuitants	64	4	3	9	2	2	9
Number of active contributing members	111	10	14	15	12	15	21
Number of inactive members	68	19	8	17	11	4	16
Average age of contributing members	42.0 years	50.7 years	47.8 years	44.8 years	43.9 years	45.4 years	40.9 years
Average length of service of contributing members	6.0 years	9.7 years	9.9 years	8.4 years	8.0 years	9.0 years	10.4 years

	Hughes Springs	Humble	Hunters Creek Village	Huntington	Huntsville	Hurst	Hutchins
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,364,524	\$43,031,342	\$495,747	\$1,393,448	\$35,803,129	\$74,213,092	\$4,207,406
b. Noncontributing Members	45,686	2,639,222	140,491	218,785	6,875,319	11,387,532	1,436,041
c. Annuitants	<u>867,458</u>	<u>27,503,780</u>	<u>769,718</u>	<u>1,841,627</u>	<u>45,424,687</u>	<u>72,199,668</u>	<u>2,041,731</u>
2. Total Actuarial Accrued Liability	\$4,277,668	\$73,174,344	\$1,405,956	\$3,453,860	\$88,103,135	\$157,800,292	\$7,685,178
3. Actuarial value of assets	<u>4,404,908</u>	<u>65,097,466</u>	<u>930,005</u>	<u>2,938,189</u>	<u>69,023,336</u>	<u>147,958,763</u>	<u>7,012,828</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$127,240)	\$8,076,878	\$475,951	\$515,671	\$19,079,799	\$9,841,529	\$672,350
5. Funded Ratio: (3) / (2)	103.0%	89.0%	66.1%	85.1%	78.3%	93.8%	91.3%
6. Annual Payroll	\$620,817	\$14,846,390	\$486,713	\$772,534	\$13,702,860	\$27,125,053	\$3,403,671
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.43%	9.49%	9.13%	10.03%	8.19%	7.99%	7.51%
Prior Service	<u>-1.35%</u>	<u>3.94%</u>	<u>7.10%</u>	<u>4.09%</u>	<u>10.18%</u>	<u>2.86%</u>	<u>1.19%</u>
Total Retirement	9.08%	13.43%	16.23%	14.12%	18.37%	10.85%	8.70%
Supplemental Death	<u>0.30%</u>	<u>0.16%</u>	<u>0.35%</u>	<u>0.21%</u>	<u>0.21%</u>	<u>0.00%</u>	<u>0.12%</u>
Total Rate	9.38%	13.59%	16.58%	14.33%	18.58%	10.85%	8.82%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	15.79%	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 1/2019	25.0 years	19.4 years	19.4 years	25.9 years	19.6 years	17.3 years	25.7 years
Number of annuitants	6	101	9	12	194	264	26
Number of active contributing members	12	197	8	19	244	399	66
Number of inactive members	2	53	4	15	144	173	57
Average age of contributing members	54.5 years	42.9 years	43.7 years	43.4 years	43.6 years	42.4 years	39.7 years
Average length of service of contributing members	17.3 years	13.0 years	12.3 years	8.6 years	11.6 years	12.3 years	8.1 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Hutto	Huxley	Idalou	Ingleside	Ingram	Iowa Colony	Iowa Park
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$6,471,427	\$269,611	\$357,160	\$5,460,719	\$181,599	\$508,710	\$4,804,198
b. Noncontributing Members	4,360,682	130,605	205,667	1,108,897	58,521	1,925	730,027
c. Annuitants	<u>2,037,752</u>	<u>403,527</u>	<u>0</u>	<u>4,361,992</u>	<u>573,546</u>	<u>0</u>	<u>3,241,299</u>
2. Total Actuarial Accrued Liability	\$12,869,861	\$803,743	\$562,827	\$10,931,608	\$813,666	\$510,635	\$8,775,524
3. Actuarial value of assets	<u>12,661,749</u>	<u>919,767</u>	<u>508,612</u>	<u>9,379,559</u>	<u>742,245</u>	<u>280,686</u>	<u>7,384,602</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$208,112	(\$116,024)	\$54,215	\$1,552,049	\$71,421	\$229,949	\$1,390,922
5. Funded Ratio: (3) / (2)	98.4%	114.4%	90.4%	85.8%	91.2%	55.0%	84.1%
6. Annual Payroll	\$6,714,939	\$358,328	\$595,776	\$3,549,777	\$506,908	\$298,848	\$1,819,018
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	11.90%	2.99%	3.73%	7.24%	4.72%	5.03%	6.96%
Prior Service	<u>0.19%</u>	<u>-1.73%</u>	<u>0.62%</u>	<u>2.63%</u>	<u>1.02%</u>	<u>14.28%</u>	<u>7.73%</u>
Total Retirement	12.09%	1.26%	4.35%	9.87%	5.74%	19.31%	14.69%
Supplemental Death	<u>0.12%</u>	<u>0.24%</u>	<u>0.07%</u>	<u>0.32%</u>	<u>0.00%</u>	<u>0.45%</u>	<u>0.23%</u>
Total Rate	12.21%	1.50%	4.42%	10.19%	5.74%	19.76%	14.92%
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	9.50%	N/A	11.50%	9.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.3 years	25.0 years	21.0 years	25.9 years	19.5 years	6.1 years	12.4 years
Number of annuitants	21	5	0	43	13	0	26
Number of active contributing members	111	10	13	75	12	8	42
Number of inactive members	84	6	14	64	9	1	35
Average age of contributing members	42.0 years	44.8 years	37.7 years	48.6 years	46.5 years	45.1 years	44.7 years
Average length of service of contributing members	7.4 years	10.9 years	6.1 years	11.3 years	8.6 years	6.3 years	10.8 years

	Iraan	Irving	Italy	Itasca	Jacinto City	Jacksboro	Jacksonville
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$651,917	\$342,494,969	\$129,075	\$855,712	\$5,577,430	\$2,336,500	\$14,579,481
b. Noncontributing Members	85,789	54,212,771	150,281	101,527	740,170	953,507	1,721,501
c. Annuitants	<u>720,658</u>	<u>336,936,137</u>	<u>295,735</u>	<u>821,294</u>	<u>2,796,723</u>	<u>3,687,196</u>	<u>13,115,201</u>
2. Total Actuarial Accrued Liability	\$1,458,364	\$733,643,877	\$575,091	\$1,778,533	\$9,114,323	\$6,977,203	\$29,416,183
3. Actuarial value of assets	<u>1,128,699</u>	<u>669,753,236</u>	<u>436,221</u>	<u>1,945,658</u>	<u>8,182,732</u>	<u>5,656,078</u>	<u>26,347,096</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$329,665	\$63,890,641	\$138,870	(\$167,125)	\$931,591	\$1,321,125	\$3,069,087
5. Funded Ratio: (3) / (2)	77.4%	91.3%	75.9%	109.4%	89.8%	81.1%	89.6%
6. Annual Payroll	\$266,149	\$104,702,009	\$616,510	\$641,439	\$2,750,950	\$1,815,837	\$6,176,655
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	6.69%	9.53%	1.70%	11.97%	4.63%	9.88%	7.51%
Prior Service	<u>10.31%</u>	<u>4.81%</u>	<u>1.39%</u>	<u>-1.60%</u>	<u>3.15%</u>	<u>4.37%</u>	<u>3.25%</u>
Total Retirement	17.00%	14.34%	3.09%	10.37%	7.78%	14.25%	10.76%
Supplemental Death	<u>0.48%</u>	<u>0.18%</u>	<u>0.24%</u>	<u>0.23%</u>	<u>0.32%</u>	<u>0.22%</u>	<u>0.19%</u>
Total Rate	17.48%	14.52%	3.33%	10.60%	8.10%	14.47%	10.95%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	17.29%	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	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	16.0 years	17.8 years	24.7 years	25.0 years	13.8 years	25.9 years	23.3 years
Number of annuitants	5	983	9	6	30	21	98
Number of active contributing members	6	1,450	16	19	56	40	135
Number of inactive members	6	493	22	22	34	44	68
Average age of contributing members	48.2 years	43.8 years	42.9 years	44.3 years	45.3 years	42.8 years	42.0 years
Average length of service of contributing members	10.2 years	13.3 years	6.9 years	5.1 years	9.7 years	7.4 years	9.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Jasper	Jefferson	Jersey Village	Jewett	Joaquin	Johnson City	Jones Creek
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$13,096,094	\$895,500	\$7,751,571	\$728,350	\$74,696	\$969,455	\$191,642
b. Noncontributing Members	1,229,283	193,810	4,634,301	34,874	42,072	396,955	1,717
c. Annuitants	<u>11,312,439</u>	<u>541,683</u>	<u>11,428,876</u>	<u>460,191</u>	<u>187,240</u>	<u>703,313</u>	<u>261,497</u>
2. Total Actuarial Accrued Liability	\$25,637,816	\$1,630,993	\$23,814,748	\$1,223,415	\$304,008	\$2,069,723	\$454,856
3. Actuarial value of assets	<u>23,536,062</u>	<u>1,745,568</u>	<u>19,656,881</u>	<u>1,055,570</u>	<u>231,716</u>	<u>1,661,146</u>	<u>379,078</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$2,101,754	(\$114,575)	\$4,157,867	\$167,845	\$72,292	\$408,577	\$75,778
5. Funded Ratio: (3) / (2)	91.8%	107.0%	82.5%	86.3%	76.2%	80.3%	83.3%
6. Annual Payroll	\$5,605,538	\$735,953	\$5,360,367	\$295,608	\$208,538	\$803,450	\$238,889
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	5.17%	2.27%	10.09%	5.17%	1.92%	6.52%	3.01%
Prior Service	<u>3.77%</u>	<u>-1.05%</u>	<u>4.64%</u>	<u>4.15%</u>	<u>2.75%</u>	<u>3.57%</u>	<u>3.43%</u>
Total Retirement	8.94%	1.22%	14.73%	9.32%	4.67%	10.09%	6.44%
Supplemental Death	<u>0.23%</u>	<u>0.31%</u>	<u>0.16%</u>	<u>0.26%</u>	<u>0.44%</u>	<u>0.19%</u>	<u>0.24%</u>
Total Rate	9.17%	1.53%	14.89%	9.58%	5.11%	10.28%	6.68%
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)	15.50%	N/A	N/A	9.50%	N/A	10.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	12.5 years	25.0 years	26.1 years	19.2 years	17.1 years	21.1 years	11.4 years
Number of annuitants	75	9	55	3	5	6	5
Number of active contributing members	119	19	93	6	5	16	6
Number of inactive members	49	26	79	2	3	13	1
Average age of contributing members	43.6 years	47.9 years	42.1 years	51.2 years	48.5 years	46.9 years	43.3 years
Average length of service of contributing members	10.9 years	9.9 years	8.5 years	14.3 years	3.6 years	7.3 years	8.1 years

	Jonestown	Josephine	Joshua	Jourdanton	Junction	Justin	Karnes City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$807,163	\$325,928	\$1,569,666	\$1,463,085	\$907,789	\$980,439	\$1,200,285
b. Noncontributing Members	194,197	23,564	1,135,949	381,009	283,826	538,690	377,439
c. Annuitants	<u>457,713</u>	<u>0</u>	<u>573,273</u>	<u>1,037,282</u>	<u>2,753,990</u>	<u>375,368</u>	<u>1,018,169</u>
2. Total Actuarial Accrued Liability	\$1,459,073	\$349,492	\$3,278,888	\$2,881,376	\$3,945,605	\$1,894,497	\$2,595,893
3. Actuarial value of assets	<u>1,317,816</u>	<u>334,963</u>	<u>3,251,231</u>	<u>2,654,488</u>	<u>3,424,092</u>	<u>1,580,780</u>	<u>2,225,604</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$141,257	\$14,529	\$27,657	\$226,888	\$521,513	\$313,717	\$370,289
5. Funded Ratio: (3) / (2)	90.3%	95.8%	99.2%	92.1%	86.8%	83.4%	85.7%
6. Annual Payroll	\$1,242,074	\$301,991	\$1,708,781	\$1,542,877	\$729,585	\$1,568,552	\$1,394,637
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	6.29%	5.85%	5.87%	5.17%	10.41%	6.40%	3.65%
Prior Service	<u>0.71%</u>	<u>0.50%</u>	<u>0.10%</u>	<u>0.87%</u>	<u>4.30%</u>	<u>1.26%</u>	<u>1.58%</u>
Total Retirement	7.00%	6.35%	5.97%	6.04%	14.71%	7.66%	5.23%
Supplemental Death	<u>0.20%</u>	<u>0.09%</u>	<u>0.10%</u>	<u>0.26%</u>	<u>0.24%</u>	<u>0.00%</u>	<u>0.21%</u>
Total Rate	7.20%	6.44%	6.07%	6.30%	14.95%	7.66%	5.44%
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	N/A	13.50%	9.50%	N/A	13.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	24.2 years	11.9 years	24.4 years	26.5 years	25.9 years	24.1 years	26.3 years
Number of annuitants	9	0	7	13	17	9	12
Number of active contributing members	26	7	36	41	20	30	29
Number of inactive members	11	3	38	29	20	27	15
Average age of contributing members	43.4 years	41.2 years	40.6 years	47.1 years	48.0 years	36.1 years	44.8 years
Average length of service of contributing members	6.6 years	11.1 years	9.0 years	8.6 years	5.3 years	5.9 years	8.6 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Katy	Kaufman	Keene	Keller	Kemah	Kemp	Kenedy
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$29,117,148	\$6,678,005	\$3,627,714	\$50,323,754	\$2,945,386	\$216,957	\$1,505,238
b. Noncontributing Members	2,935,346	820,240	1,636,118	14,515,020	779,263	311,889	784,835
c. Annuitants	15,238,141	5,055,553	4,558,747	33,161,089	1,271,978	222,031	576,002
2. Total Actuarial Accrued Liability	\$47,290,635	\$12,553,798	\$9,822,579	\$97,999,863	\$4,996,627	\$750,877	\$2,866,075
3. Actuarial value of assets	41,820,269	11,994,407	8,682,101	82,435,181	4,749,235	840,841	2,482,317
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$5,470,366	\$559,391	\$1,140,478	\$15,564,682	\$247,392	(\$89,964)	\$383,758
5. Funded Ratio: (3) / (2)	88.4%	95.5%	88.4%	84.1%	95.0%	112.0%	86.6%
6. Annual Payroll	\$12,437,687	\$3,090,158	\$2,501,421	\$19,475,120	\$2,155,191	\$656,834	\$2,069,235
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	11.23%	8.08%	8.92%	10.19%	6.26%	5.97%	3.13%
Prior Service	2.82%	1.22%	3.10%	5.26%	0.78%	-0.93%	1.10%
Total Retirement	14.05%	9.30%	12.02%	15.45%	7.04%	5.04%	4.23%
Supplemental Death	0.17%	0.20%	0.17%	0.14%	0.16%	0.00%	0.20%
Total Rate	14.22%	9.50%	12.19%	15.59%	7.20%	5.04%	4.43%
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)	N/A	N/A	N/A	N/A	N/A	11.50%	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	23.3 years	21.7 years	21.3 years	22.4 years	23.7 years	25.0 years	26.5 years
Number of annuitants	63	47	24	146	14	8	10
Number of active contributing members	200	62	44	287	36	19	43
Number of inactive members	53	52	43	189	35	25	28
Average age of contributing members	41.2 years	44.1 years	41.0 years	41.6 years	46.1 years	40.9 years	45.2 years
Average length of service of contributing members	9.3 years	12.3 years	9.7 years	12.2 years	12.1 years	2.7 years	7.6 years

	Kennedale	Kerens	Kermit	Kerrville	Kerrville PUB	Kilgore	Killeen
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$6,296,992	\$377,061	\$5,579,343	\$36,757,395	\$10,488,821	\$18,593,103	\$80,619,090
b. Noncontributing Members	4,966,838	7,866	1,609,668	7,479,102	6,324,439	2,699,583	12,768,924
c. Annuitants	4,489,933	0	4,674,659	35,076,348	10,141,467	22,941,303	90,658,708
2. Total Actuarial Accrued Liability	\$15,753,763	\$384,927	\$11,863,670	\$79,312,845	\$26,954,727	\$44,233,989	\$184,046,722
3. Actuarial value of assets	13,751,680	116,796	9,259,227	72,308,942	24,832,358	38,742,997	161,764,924
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$2,002,083	\$268,131	\$2,604,443	\$7,003,903	\$2,122,369	\$5,490,992	\$22,281,798
5. Funded Ratio: (3) / (2)	87.3%	30.3%	78.0%	91.2%	92.1%	87.6%	87.9%
6. Annual Payroll	\$4,190,255	\$394,106	\$2,244,543	\$17,025,434	\$4,126,065	\$7,739,989	\$47,284,261
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.82%	2.06%	9.19%	7.60%	8.78%	9.86%	5.78%
Prior Service	3.03%	6.26%	6.97%	2.45%	3.26%	4.35%	4.13%
Total Retirement	13.85%	8.32%	16.16%	10.05%	12.04%	14.21%	9.91%
Supplemental Death	0.25%	0.20%	0.26%	0.19%	0.18%	0.24%	0.17%
Total Rate	14.10%	8.52%	16.42%	10.24%	12.22%	14.45%	10.08%
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	N/A	15.50%	N/A	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.7 years	14.0 years	25.9 years	26.2 years	23.8 years	25.0 years	15.0 years
Number of annuitants	36	0	27	240	35	120	500
Number of active contributing members	72	11	52	304	56	155	947
Number of inactive members	106	2	96	175	30	82	485
Average age of contributing members	43.4 years	45.6 years	44.9 years	43.2 years	43.9 years	43.9 years	42.8 years
Average length of service of contributing members	12.8 years	9.0 years	8.0 years	10.1 years	10.7 years	9.8 years	11.0 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Kingsville	Kirby	Kirbyville	Knox City	Kosse	Kountze	Kress
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$26,585,814	\$3,000,179	\$610,192	\$206,615	\$34,508	\$663,302	\$5,663
b. Noncontributing Members	6,917,534	1,217,633	159,307	284,226	190	143,253	6,022
c. Annuitants	27,184,035	4,307,350	1,164,369	135,443	0	18,356	246,111
2. Total Actuarial Accrued Liability	\$60,687,383	\$8,525,162	\$1,933,868	\$626,284	\$34,698	\$824,911	\$257,796
3. Actuarial value of assets	57,189,152	7,163,449	1,618,369	708,809	3,399	820,795	337,194
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$3,498,231	\$1,361,713	\$315,499	(\$82,525)	\$31,299	\$4,116	(\$79,398)
5. Funded Ratio: (3) / (2)	94.2%	84.0%	83.7%	113.2%	9.8%	99.5%	130.8%
6. Annual Payroll	\$11,809,455	\$2,119,625	\$854,226	\$331,432	\$130,074	\$932,771	\$36,671
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	6.58%	10.82%	3.04%	4.11%	2.01%	1.30%	2.91%
Prior Service	2.10%	3.83%	2.42%	-1.53%	3.17%	0.03%	-2.91%
Total Retirement	8.68%	14.65%	5.46%	2.58%	5.18%	1.33%	0.00%
Supplemental Death	0.00%	0.11%	0.34%	0.44%	0.15%	0.17%	0.00%
Total Rate	8.68%	14.76%	5.80%	3.02%	5.33%	1.50%	0.00%
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	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	20.0 years	26.3 years	26.0 years	25.0 years	9.0 years	24.0 years	25.0 years
Number of annuitants	162	28	19	5	0	2	3
Number of active contributing members	260	54	25	8	4	24	1
Number of inactive members	161	87	27	14	1	46	1
Average age of contributing members	44.2 years	39.8 years	46.4 years	56.0 years	50.1 years	43.6 years	39.0 years
Average length of service of contributing members	10.2 years	7.6 years	5.2 years	12.3 years	6.8 years	7.4 years	2.7 years

	Krugerville	Krum	Kyle	La Coste	La Feria	La Grange	La Grulla
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$359,516	\$924,344	\$16,674,700	\$282,407	\$2,083,557	\$9,338,767	\$374,383
b. Noncontributing Members	53,735	659,075	2,082,974	1,437	855,219	904,630	56,285
c. Annuitants	91,017	163,787	2,943,644	56,758	3,865,577	5,350,647	296,788
2. Total Actuarial Accrued Liability	\$504,268	\$1,747,206	\$21,701,318	\$340,602	\$6,804,353	\$15,594,044	\$727,456
3. Actuarial value of assets	447,756	1,766,696	18,140,416	370,288	5,315,085	13,578,066	830,762
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$56,512	(\$19,490)	\$3,560,902	(\$29,686)	\$1,489,268	\$2,015,978	(\$103,306)
5. Funded Ratio: (3) / (2)	88.8%	101.1%	83.6%	108.7%	78.1%	87.1%	114.2%
6. Annual Payroll	\$617,427	\$1,563,884	\$10,621,057	\$317,406	\$2,085,724	\$2,905,258	\$726,049
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	7.71%	5.81%	10.46%	2.05%	4.97%	9.45%	6.55%
Prior Service	0.91%	-0.08%	2.03%	-0.57%	6.08%	5.38%	-0.91%
Total Retirement	8.62%	5.73%	12.49%	1.48%	11.05%	14.83%	5.64%
Supplemental Death	0.12%	0.14%	0.12%	0.00%	0.22%	0.27%	0.18%
Total Rate	8.74%	5.87%	12.61%	1.48%	11.27%	15.10%	5.82%
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	12.50%	13.50%	7.50%	N/A	N/A	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	12.6 years	25.0 years	25.7 years	25.0 years	15.5 years	17.6 years	25.0 years
Number of annuitants	3	7	19	3	30	33	8
Number of active contributing members	10	32	197	8	53	64	27
Number of inactive members	4	31	85	2	43	34	19
Average age of contributing members	46.8 years	42.9 years	39.2 years	49.7 years	43.9 years	50.4 years	40.6 years
Average length of service of contributing members	8.8 years	10.1 years	7.5 years	13.2 years	7.7 years	11.3 years	4.6 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	La Joya	La Marque	La Porte	La Vernia	Lacy-Lakeview	Ladonia	Lago Vista
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$704,333	\$10,184,077	\$76,871,981	\$174,485	\$4,307,627	\$15,753	\$6,012,976
b. Noncontributing Members	196,328	3,842,563	8,896,495	192,888	861,973	18,545	1,341,172
c. Annuitants	600,494	13,058,072	72,071,807	103,722	3,089,142	49,117	2,715,219
2. Total Actuarial Accrued Liability	\$1,501,155	\$27,084,712	\$157,840,283	\$471,095	\$8,258,742	\$83,415	\$10,069,367
3. Actuarial value of assets	686,341	22,407,430	140,331,837	351,833	6,528,613	121,737	9,411,739
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$814,814	\$4,677,282	\$17,508,446	\$119,262	\$1,730,129	(\$38,322)	\$657,628
5. Funded Ratio: (3) / (2)	45.7%	82.7%	88.9%	74.7%	79.1%	145.9%	93.5%
6. Annual Payroll	\$1,245,759	\$5,960,648	\$23,284,618	\$637,527	\$2,098,190	\$46,950	\$4,095,068
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	1.49%	9.95%	9.30%	2.11%	9.44%	9.55%	6.73%
Prior Service	4.72%	4.84%	6.23%	1.17%	4.92%	-5.01%	1.04%
Total Retirement	6.21%	14.79%	15.53%	3.28%	14.36%	4.54%	7.77%
Supplemental Death	0.20%	0.17%	0.17%	0.16%	0.21%	0.49%	0.23%
Total Rate	6.41%	14.96%	15.70%	3.44%	14.57%	5.03%	8.00%
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	12.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	19.6 years	26.6 years	16.1 years	24.4 years	26.2 years	25.0 years	22.9 years
Number of annuitants	8	90	207	2	21	3	34
Number of active contributing members	39	117	373	17	47	2	88
Number of inactive members	66	108	164	15	31	5	60
Average age of contributing members	42.5 years	41.7 years	42.7 years	43.2 years	41.2 years	58.6 years	47.8 years
Average length of service of contributing members	5.9 years	7.6 years	12.2 years	5.9 years	9.3 years	1.5 years	7.8 years

	Laguna Vista	Lake Dallas	Lake Jackson	Lake Worth	Lakeport	Lakeside	Lakeside City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$637,959	\$1,877,098	\$31,533,462	\$11,445,391	\$120,972	\$893,484	\$128,636
b. Noncontributing Members	91,164	1,848,958	5,828,653	2,198,146	92,807	221,604	831
c. Annuitants	0	5,060,056	25,515,793	6,740,892	26,322	84,322	55,857
2. Total Actuarial Accrued Liability	\$729,123	\$8,786,112	\$62,877,908	\$20,384,429	\$240,101	\$1,199,410	\$185,324
3. Actuarial value of assets	758,492	8,031,733	58,363,428	16,697,056	377,886	1,136,524	178,846
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$29,369)	\$754,379	\$4,514,480	\$3,687,373	(\$137,785)	\$62,886	\$6,478
5. Funded Ratio: (3) / (2)	104.0%	91.4%	92.8%	81.9%	157.4%	94.8%	96.5%
6. Annual Payroll	\$708,278	\$1,831,330	\$11,546,629	\$5,069,658	\$207,016	\$727,357	\$184,828
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	4.80%	9.98%	8.23%	8.61%	3.14%	7.47%	1.96%
Prior Service	-0.25%	2.56%	3.75%	4.68%	-3.14%	0.66%	0.51%
Total Retirement	4.55%	12.54%	11.98%	13.29%	0.00%	8.13%	2.47%
Supplemental Death	0.16%	0.16%	0.21%	0.16%	0.10%	0.33%	0.20%
Total Rate	4.71%	12.70%	12.19%	13.45%	0.10%	8.46%	2.67%
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	13.50%	N/A	N/A	N/A	12.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	24.4 years	13.3 years	23.2 years	25.0 years	18.0 years	8.0 years
Number of annuitants	0	39	126	40	1	3	3
Number of active contributing members	17	28	216	91	6	15	4
Number of inactive members	10	45	162	55	3	19	1
Average age of contributing members	49.0 years	43.8 years	43.0 years	44.9 years	44.0 years	50.0 years	50.8 years
Average length of service of contributing members	7.8 years	7.2 years	10.9 years	12.1 years	6.1 years	14.4 years	12.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Lakeway	Lamesa	Lampasas	Lancaster	Laredo	Lavon	League City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$12,394,870	\$5,393,424	\$13,734,627	\$29,254,391	\$392,155,863	\$524,749	\$78,025,053
b. Noncontributing Members	2,600,382	1,840,055	1,771,087	14,193,557	21,964,567	405,075	13,135,061
c. Annuitants	5,430,817	8,224,240	9,563,616	37,639,907	205,744,827	104,068	53,694,963
2. Total Actuarial Accrued Liability	\$20,426,069	\$15,457,719	\$25,069,330	\$81,087,855	\$619,865,257	\$1,033,892	\$144,855,077
3. Actuarial value of assets	16,358,994	15,760,166	20,474,391	67,877,112	469,789,287	1,012,212	118,625,285
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$4,067,075	(\$302,447)	\$4,594,939	\$13,210,743	\$150,075,970	\$21,680	\$26,229,792
5. Funded Ratio: (3) / (2)	80.1%	102.0%	81.7%	83.7%	75.8%	97.9%	81.9%
6. Annual Payroll	\$6,720,749	\$3,334,005	\$5,376,057	\$16,234,919	\$110,832,076	\$878,724	\$32,247,039
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.28%	5.04%	9.62%	8.53%	9.99%	5.10%	9.35%
Prior Service	3.64%	-0.59%	5.62%	4.86%	10.79%	0.18%	5.70%
Total Retirement	13.92%	4.45%	15.24%	13.39%	20.78%	5.28%	15.05%
Supplemental Death	0.18%	0.00%	0.19%	0.13%	0.21%	0.16%	0.17%
Total Rate	14.10%	4.45%	15.43%	13.52%	20.99%	5.44%	15.22%
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)	15.50%	13.50%	N/A	N/A	N/A	N/A	15.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.8 years	25.0 years	22.5 years	26.2 years	17.0 years	19.8 years	20.4 years
Number of annuitants	53	51	65	189	920	3	220
Number of active contributing members	110	77	114	247	2,089	18	508
Number of inactive members	88	56	65	228	544	18	239
Average age of contributing members	43.7 years	45.6 years	42.6 years	39.4 years	44.6 years	44.7 years	41.7 years
Average length of service of contributing members	8.2 years	7.2 years	9.7 years	7.6 years	11.9 years	7.7 years	9.8 years

	Leander	Lefors	Leon Valley	Leonard	Levelland	Lewisville	Lexington
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$24,830,371	\$43,152	\$11,330,469	\$134,575	\$13,082,585	\$155,077,559	\$154,574
b. Noncontributing Members	2,475,637	12,809	5,712,933	222,092	2,724,509	20,719,389	364,734
c. Annuitants	6,244,756	0	23,600,663	421,896	11,772,481	122,186,803	1,335,528
2. Total Actuarial Accrued Liability	\$33,550,764	\$55,961	\$40,644,065	\$778,563	\$27,579,575	\$297,983,751	\$1,854,836
3. Actuarial value of assets	26,897,720	40,250	37,549,520	818,859	25,593,636	255,750,205	1,685,245
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$6,653,044	\$15,711	\$3,094,545	(\$4,296)	\$1,985,939	\$42,233,546	\$169,591
5. Funded Ratio: (3) / (2)	80.2%	71.9%	92.4%	105.2%	92.8%	85.8%	90.9%
6. Annual Payroll	\$16,406,863	\$123,381	\$5,619,200	\$630,004	\$5,149,363	\$52,994,202	\$481,412
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.81%	1.61%	9.11%	2.32%	8.47%	10.20%	6.38%
Prior Service	2.42%	2.33%	4.14%	-0.39%	3.22%	6.08%	2.17%
Total Retirement	12.23%	3.94%	13.25%	1.93%	11.69%	16.28%	8.55%
Supplemental Death	0.14%	0.07%	0.18%	0.21%	0.20%	0.00%	0.00%
Total Rate	12.37%	4.01%	13.43%	2.14%	11.89%	16.28%	8.55%
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%	N/A	N/A	9.50%	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.1 years	6.2 years	18.4 years	25.0 years	15.9 years	18.0 years	24.8 years
Number of annuitants	54	0	99	8	53	392	9
Number of active contributing members	271	3	103	14	95	758	13
Number of inactive members	85	9	61	20	30	334	20
Average age of contributing members	41.3 years	44.9 years	43.1 years	44.3 years	43.5 years	41.2 years	40.3 years
Average length of service of contributing members	8.3 years	4.4 years	12.0 years	6.0 years	11.1 years	11.9 years	3.4 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Liberty	Liberty Hill	Lindale	Linden	Lipan	Little Elm	Littlefield
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$7,396,056	\$471,364	\$4,803,682	\$494,468	\$155,458	\$24,844,695	\$3,371,504
b. Noncontributing Members	2,447,167	217,497	925,754	90,759	2,660	4,825,220	1,854,076
c. Annuitants	<u>5,562,956</u>	<u>0</u>	<u>1,986,586</u>	<u>216,597</u>	<u>0</u>	<u>3,379,024</u>	<u>3,291,748</u>
2. Total Actuarial Accrued Liability	\$15,406,179	\$688,861	\$7,716,022	\$801,824	\$158,118	\$33,048,939	\$8,517,328
3. Actuarial value of assets	<u>9,950,297</u>	<u>674,277</u>	<u>5,512,467</u>	<u>859,478</u>	<u>152,333</u>	<u>27,739,585</u>	<u>7,653,989</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$5,455,882	\$14,584	\$2,203,555	(\$57,654)	\$5,785	\$5,309,354	\$863,339
5. Funded Ratio: (3) / (2)	64.6%	97.9%	71.4%	107.2%	96.3%	83.9%	89.9%
6. Annual Payroll	\$4,575,110	\$1,128,602	\$2,522,718	\$535,561	\$145,172	\$14,653,380	\$2,270,994
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	5.49%	6.78%	8.22%	1.89%	1.88%	10.96%	6.34%
Prior Service	<u>12.34%</u>	<u>0.09%</u>	<u>6.39%</u>	<u>-0.66%</u>	<u>0.58%</u>	<u>2.22%</u>	<u>2.91%</u>
Total Retirement	17.83%	6.87%	14.61%	1.23%	2.46%	13.18%	9.25%
Supplemental Death	<u>0.00%</u>	<u>0.21%</u>	<u>0.00%</u>	<u>0.36%</u>	<u>0.25%</u>	<u>0.13%</u>	<u>0.26%</u>
Total Rate	17.83%	7.08%	14.61%	1.59%	2.71%	13.31%	9.51%
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	13.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	12.5 years	19.6 years	19.2 years	25.0 years	8.0 years	25.0 years	18.7 years
Number of annuitants	41	0	13	4	0	39	44
Number of active contributing members	94	22	53	15	4	232	57
Number of inactive members	129	13	25	12	1	124	47
Average age of contributing members	42.5 years	45.5 years	42.3 years	51.6 years	54.7 years	41.5 years	42.3 years
Average length of service of contributing members	9.1 years	5.7 years	7.9 years	9.9 years	11.3 years	8.7 years	8.5 years

	Live Oak	Liverpool	Livingston	Llano	Lockhart	Lockney	Lone Star
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$24,193,541	\$56,686	\$14,066,170	\$4,307,184	\$15,707,951	\$44,836	\$639,465
b. Noncontributing Members	4,903,908	9,856	1,203,898	827,744	4,143,520	59,185	531,145
c. Annuitants	<u>12,298,410</u>	<u>0</u>	<u>11,101,336</u>	<u>3,031,199</u>	<u>12,358,041</u>	<u>400,468</u>	<u>278,799</u>
2. Total Actuarial Accrued Liability	\$41,395,859	\$66,542	\$26,371,404	\$8,166,127	\$32,209,512	\$504,489	\$1,449,409
3. Actuarial value of assets	<u>34,435,590</u>	<u>59,994</u>	<u>23,441,548</u>	<u>6,168,467</u>	<u>27,620,393</u>	<u>751,285</u>	<u>1,528,875</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$6,960,269	\$6,548	\$2,929,856	\$1,997,660	\$4,589,119	(\$246,796)	(\$79,466)
5. Funded Ratio: (3) / (2)	83.2%	90.2%	88.9%	75.5%	85.8%	148.9%	105.5%
6. Annual Payroll	\$6,624,877	\$143,701	\$4,179,519	\$2,249,603	\$6,226,203	\$153,940	\$440,300
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.40%	1.99%	8.83%	7.87%	7.41%	2.74%	3.35%
Prior Service	<u>7.55%</u>	<u>0.69%</u>	<u>5.98%</u>	<u>6.80%</u>	<u>5.59%</u>	<u>-2.74%</u>	<u>-1.22%</u>
Total Retirement	17.95%	2.68%	14.81%	14.67%	13.00%	0.00%	2.13%
Supplemental Death	<u>0.18%</u>	<u>0.22%</u>	<u>0.23%</u>	<u>0.28%</u>	<u>0.26%</u>	<u>0.52%</u>	<u>0.19%</u>
Total Rate	18.13%	2.90%	15.04%	14.95%	13.26%	0.52%	2.32%
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	7.50%	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	19.7 years	7.7 years	15.5 years	19.4 years	19.4 years	25.0 years	25.0 years
Number of annuitants	62	0	37	39	75	3	4
Number of active contributing members	111	4	83	44	134	3	11
Number of inactive members	61	4	12	22	107	3	14
Average age of contributing members	44.4 years	48.6 years	44.9 years	46.0 years	43.1 years	53.1 years	43.4 years
Average length of service of contributing members	13.9 years	4.0 years	11.8 years	9.8 years	10.2 years	4.6 years	10.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Longview	Loraine	Lorena	Lorenzo	Los Fresnos	Lott	Lovelady
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$83,046,454	\$9,698	\$781,662	\$107,661	\$2,290,315	\$118,156	\$75,843
b. Noncontributing Members	12,290,778	81,083	340,234	102,323	355,245	40,749	3,551
c. Annuitants	<u>81,655,284</u>	<u>19,974</u>	<u>264,434</u>	<u>214,021</u>	<u>975,683</u>	<u>27,804</u>	<u>11,611</u>
2. Total Actuarial Accrued Liability	\$176,992,516	\$110,755	\$1,386,330	\$424,005	\$3,621,243	\$186,709	\$91,005
3. Actuarial value of assets	<u>160,205,832</u>	<u>116,560</u>	<u>1,374,901</u>	<u>560,650</u>	<u>3,774,108</u>	<u>199,422</u>	<u>70,780</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$16,786,684	(\$5,805)	\$11,429	(\$136,645)	(\$152,865)	(\$12,713)	\$20,225
5. Funded Ratio: (3) / (2)	90.5%	105.2%	99.2%	132.2%	104.2%	106.8%	77.8%
6. Annual Payroll	\$34,601,992	\$99,495	\$627,140	\$272,874	\$2,002,604	\$323,857	\$120,183
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	7.21%	2.99%	6.56%	5.11%	3.68%	1.44%	6.66%
Prior Service	<u>3.54%</u>	<u>-0.36%</u>	<u>0.11%</u>	<u>-3.07%</u>	<u>-0.47%</u>	<u>-0.24%</u>	<u>2.29%</u>
Total Retirement	10.75%	2.63%	6.67%	2.04%	3.21%	1.20%	8.95%
Supplemental Death	<u>0.21%</u>	<u>0.06%</u>	<u>0.19%</u>	<u>0.00%</u>	<u>0.17%</u>	<u>0.09%</u>	<u>0.12%</u>
Total Rate	10.96%	2.69%	6.86%	2.04%	3.38%	1.29%	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)	15.50%	N/A	10.50%	9.50%	11.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	19.2 years	25.0 years	25.5 years	25.0 years	25.0 years	25.0 years	8.7 years
Number of annuitants	481	1	8	6	16	4	1
Number of active contributing members	663	3	18	8	55	7	3
Number of inactive members	300	8	12	8	35	23	2
Average age of contributing members	43.0 years	39.5 years	46.6 years	39.6 years	40.8 years	38.6 years	43.9 years
Average length of service of contributing members	10.2 years	1.0 years	9.5 years	2.9 years	9.6 years	4.0 years	6.1 years

	Lubbock	Lucas	Lufkin	Luling	Lumberton	Lyford	Lytle
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$283,783,072	\$1,985,201	\$52,934,425	\$5,960,628	\$7,009,501	\$578,256	\$3,108,604
b. Noncontributing Members	45,053,600	962,378	6,747,179	477,938	240,879	4,526	134,882
c. Annuitants	<u>377,677,561</u>	<u>845,682</u>	<u>40,607,289</u>	<u>3,476,709</u>	<u>2,819,679</u>	<u>9,724</u>	<u>94,610</u>
2. Total Actuarial Accrued Liability	\$706,514,233	\$3,793,261	\$100,288,893	\$9,915,275	\$10,070,059	\$592,506	\$3,338,096
3. Actuarial value of assets	<u>594,611,706</u>	<u>3,081,683</u>	<u>82,312,434</u>	<u>8,496,565</u>	<u>8,181,802</u>	<u>457,689</u>	<u>2,864,854</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$111,902,527	\$711,578	\$17,976,459	\$1,418,710	\$1,888,257	\$134,817	\$473,242
5. Funded Ratio: (3) / (2)	84.2%	81.2%	82.1%	85.7%	81.2%	77.2%	85.8%
6. Annual Payroll	\$101,652,300	\$2,102,495	\$17,202,581	\$3,176,698	\$2,261,760	\$447,635	\$1,106,905
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.91%	10.64%	8.50%	5.93%	10.47%	1.42%	6.46%
Prior Service	<u>7.80%</u>	<u>2.19%</u>	<u>7.84%</u>	<u>3.37%</u>	<u>6.12%</u>	<u>2.79%</u>	<u>3.28%</u>
Total Retirement	17.71%	12.83%	16.34%	9.30%	16.59%	4.21%	9.74%
Supplemental Death	<u>0.00%</u>	<u>0.12%</u>	<u>0.23%</u>	<u>0.30%</u>	<u>0.22%</u>	<u>0.00%</u>	<u>0.19%</u>
Total Rate	17.71%	12.95%	16.57%	9.60%	16.81%	4.21%	9.93%
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	15.50%	N/A	11.50%	N/A	N/A	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	20.1 years	23.1 years	18.5 years	18.4 years	19.1 years	13.9 years	17.9 years
Number of annuitants	1,336	13	222	42	21	1	1
Number of active contributing members	1,751	37	366	84	40	17	23
Number of inactive members	725	23	161	57	7	5	7
Average age of contributing members	43.0 years	40.2 years	43.7 years	44.4 years	46.5 years	47.7 years	44.9 years
Average length of service of contributing members	10.5 years	5.9 years	10.6 years	9.5 years	11.4 years	10.0 years	12.3 years

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**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Madisonville	Magnolia	Malakoff	Manor	Mansfield	Manvel	Marble Falls
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,861,462	\$703,686	\$1,727,161	\$2,017,523	\$106,005,913	\$2,976,945	\$10,516,195
b. Noncontributing Members	464,397	353,590	227,514	261,664	8,636,392	345,776	2,265,983
c. Annuitants	1,988,652	277,984	515,116	563,160	46,297,178	221,603	8,476,891
2. Total Actuarial Accrued Liability	\$4,314,511	\$1,335,260	\$2,469,791	\$2,842,347	\$160,939,483	\$3,544,324	\$21,259,069
3. Actuarial value of assets	3,714,511	1,433,221	2,188,826	2,709,894	138,600,471	2,277,086	21,227,718
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$600,000	(\$97,961)	\$280,965	\$132,453	\$22,339,012	\$1,267,238	\$31,351
5. Funded Ratio: (3) / (2)	86.1%	107.3%	88.6%	95.3%	86.1%	64.2%	99.9%
6. Annual Payroll	\$1,619,293	\$1,552,152	\$1,268,535	\$3,465,679	\$35,811,284	\$2,346,016	\$6,521,464
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	6.66%	2.06%	6.06%	4.00%	10.84%	6.19%	5.75%
Prior Service	2.51%	-0.39%	1.40%	0.24%	4.11%	5.41%	0.03%
Total Retirement	9.17%	1.67%	7.46%	4.24%	14.95%	11.60%	5.78%
Supplemental Death	0.34%	0.31%	0.26%	0.11%	0.15%	0.14%	0.19%
Total Rate	9.51%	1.98%	7.72%	4.35%	15.10%	11.74%	5.97%
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%	8.50%	13.50%	N/A	N/A	13.50%	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	21.5 years	25.0 years	24.0 years	24.0 years	22.4 years	12.6 years	23.0 years
Number of annuitants	24	11	13	7	175	7	76
Number of active contributing members	37	31	27	67	490	45	106
Number of inactive members	31	34	12	33	162	31	65
Average age of contributing members	46.3 years	43.7 years	50.2 years	37.6 years	41.9 years	41.3 years	43.8 years
Average length of service of contributing members	7.5 years	7.5 years	10.1 years	6.9 years	11.5 years	8.7 years	10.7 years

	Marfa	Marion	Marlin	Marshall	Mart	Martindale	Mason
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,290,952	\$526,659	\$1,147,802	\$21,243,054	\$384,253	\$75,394	\$2,506,674
b. Noncontributing Members	232,233	54,501	1,051,223	3,404,280	433,767	84,223	172,596
c. Annuitants	1,160,998	424,018	3,008,008	32,212,768	361,824	12,460	716,688
2. Total Actuarial Accrued Liability	\$2,684,183	\$1,005,178	\$5,207,033	\$56,860,102	\$1,179,844	\$172,077	\$3,395,958
3. Actuarial value of assets	3,034,412	1,047,688	4,604,479	49,487,673	1,474,328	130,004	3,110,842
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$350,229)	(\$42,510)	\$602,554	\$7,372,429	(\$294,484)	\$42,073	\$285,116
5. Funded Ratio: (3) / (2)	113.0%	104.2%	88.4%	87.0%	125.0%	75.5%	91.6%
6. Annual Payroll	\$1,387,302	\$517,785	\$1,868,103	\$8,468,955	\$485,848	\$101,204	\$1,231,993
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	4.24%	5.70%	6.77%	10.03%	5.35%	6.01%	4.83%
Prior Service	-1.55%	-0.50%	2.14%	6.14%	-3.72%	7.32%	2.07%
Total Retirement	2.69%	5.20%	8.91%	16.17%	1.63%	13.33%	6.90%
Supplemental Death	0.38%	0.38%	0.27%	0.25%	0.28%	0.17%	0.32%
Total Rate	3.07%	5.58%	9.18%	16.42%	1.91%	13.50%	7.22%
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%	11.50%	11.50%	N/A	9.50%	N/A	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	25.0 years	26.0 years	21.5 years	25.0 years	6.5 years	14.6 years
Number of annuitants	20	7	50	174	7	1	11
Number of active contributing members	38	11	59	181	13	3	30
Number of inactive members	31	9	94	75	30	6	12
Average age of contributing members	47.8 years	45.2 years	41.9 years	45.1 years	45.4 years	52.7 years	50.0 years
Average length of service of contributing members	5.7 years	9.5 years	4.4 years	10.6 years	6.1 years	7.1 years	10.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Matador	Mathis	Maud	Maypearl	McAllen	McCamey	McGregor
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$85,647	\$975,561	\$131,168	\$95,501	\$151,539,516	\$1,419,663	\$3,451,838
b. Noncontributing Members	0	784,870	6,748	105,997	21,912,963	6,628	1,273,100
c. Annuitants	146,188	1,174,956	0	50,770	91,897,578	235,330	2,403,768
2. Total Actuarial Accrued Liability	\$231,835	\$2,935,387	\$137,916	\$252,268	\$265,350,057	\$1,661,621	\$7,128,706
3. Actuarial value of assets	184,017	3,470,613	90,952	248,457	245,099,733	1,793,450	6,617,467
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$47,818	(\$535,226)	\$46,964	\$3,811	\$20,250,324	(\$131,829)	\$511,239
5. Funded Ratio: (3) / (2)	79.4%	118.2%	65.9%	98.5%	92.4%	107.9%	92.8%
6. Annual Payroll	\$155,500	\$2,048,826	\$231,535	\$204,386	\$73,211,950	\$612,867	\$2,584,504
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	1.62%	5.91%	1.66%	2.46%	4.85%	2.96%	8.67%
Prior Service	4.76%	-1.60%	1.96%	0.24%	2.91%	-1.32%	1.20%
Total Retirement	6.38%	4.31%	3.62%	2.70%	7.76%	1.64%	9.87%
Supplemental Death	0.26%	0.27%	0.10%	0.29%	0.00%	0.19%	0.25%
Total Rate	6.64%	4.58%	3.72%	2.99%	7.76%	1.83%	10.12%
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)	N/A	13.50%	N/A	7.50%	13.50%	9.50%	12.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	7.5 years	25.0 years	13.1 years	9.4 years	11.8 years	25.0 years	25.5 years
Number of annuitants	2	25	0	3	515	5	32
Number of active contributing members	4	55	7	5	1,584	13	57
Number of inactive members	0	95	4	12	399	4	51
Average age of contributing members	43.6 years	43.3 years	42.9 years	54.9 years	42.1 years	50.2 years	45.5 years
Average length of service of contributing members	6.8 years	4.3 years	6.3 years	12.1 years	10.2 years	9.9 years	9.6 years

	McKinney	McLean	McLendon-Chisholm	Meadow	Meadowlakes	Meadows Place	Melissa
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$168,282,143	\$215,759	\$65,163	\$54,364	\$449,825	\$2,569,511	\$3,868,042
b. Noncontributing Members	32,011,941	243,953	17,643	1,470	69,349	1,284,879	346,569
c. Annuitants	74,385,734	4,165	10,675	0	10,020	3,041,845	655,285
2. Total Actuarial Accrued Liability	\$274,679,818	\$463,877	\$93,481	\$55,834	\$529,194	\$6,896,235	\$4,869,896
3. Actuarial value of assets	230,789,466	456,857	63,343	24,079	541,359	6,444,506	3,300,449
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$43,890,352	\$7,020	\$30,138	\$31,755	(\$12,165)	\$451,729	\$1,569,447
5. Funded Ratio: (3) / (2)	84.0%	98.5%	67.8%	43.1%	102.3%	93.4%	67.8%
6. Annual Payroll	\$73,851,686	\$238,758	\$148,533	\$143,883	\$817,719	\$1,576,887	\$2,594,232
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	11.51%	1.83%	3.14%	1.90%	2.50%	6.00%	9.30%
Prior Service	3.56%	0.35%	5.39%	2.66%	-0.09%	2.81%	3.80%
Total Retirement	15.07%	2.18%	8.53%	4.56%	2.41%	8.81%	13.10%
Supplemental Death	0.13%	0.25%	0.79%	0.15%	0.20%	0.14%	0.17%
Total Rate	15.20%	2.43%	9.32%	4.71%	2.61%	8.95%	13.27%
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	13.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.0 years	10.0 years	4.1 years	10.0 years	25.0 years	13.5 years	24.1 years
Number of annuitants	292	1	1	0	1	15	14
Number of active contributing members	1,030	6	2	5	17	27	50
Number of inactive members	394	6	1	4	10	32	40
Average age of contributing members	41.8 years	50.0 years	61.3 years	44.3 years	47.1 years	43.1 years	41.5 years
Average length of service of contributing members	10.5 years	8.9 years	9.8 years	4.4 years	3.8 years	10.5 years	9.6 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Memorial Villages PD	Memphis	Menard	Mercedes	Meridian	Merkel	Mertzon
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,310,689	\$1,568,167	\$211,695	\$11,205,036	\$598,198	\$507,187	\$36,977
b. Noncontributing Members	1,393,920	32,285	69,251	2,123,862	24,482	191,182	140,951
c. Annuitants	10,020,380	730,775	1,213,137	8,152,089	96,141	915,060	264,562
2. Total Actuarial Accrued Liability	\$14,724,989	\$2,331,227	\$1,494,083	\$21,480,987	\$718,821	\$1,613,429	\$442,490
3. Actuarial value of assets	12,170,865	2,448,003	1,818,787	16,866,114	775,405	1,317,182	230,281
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$2,554,124	(\$116,776)	(\$324,704)	\$4,614,873	(\$56,584)	\$296,247	\$212,209
5. Funded Ratio: (3) / (2)	82.7%	105.0%	121.7%	78.5%	107.9%	81.6%	52.0%
6. Annual Payroll	\$3,377,913	\$579,913	\$269,202	\$4,442,283	\$412,282	\$510,296	\$157,469
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	6.51%	4.84%	3.49%	10.56%	4.00%	8.09%	4.57%
Prior Service	4.52%	-1.32%	-3.49%	7.56%	-0.84%	3.60%	8.64%
Total Retirement	11.03%	3.52%	0.00%	18.12%	3.16%	11.69%	13.21%
Supplemental Death	0.17%	0.28%	0.00%	0.18%	0.11%	0.14%	0.14%
Total Rate	11.20%	3.80%	0.00%	18.30%	3.27%	11.83%	13.35%
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	11.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.1 years	25.0 years	25.0 years	19.3 years	25.0 years	24.7 years	23.3 years
Number of annuitants	40	7	6	53	2	8	2
Number of active contributing members	43	20	9	108	10	16	4
Number of inactive members	22	11	5	73	7	14	11
Average age of contributing members	44.2 years	48.4 years	45.4 years	43.7 years	39.6 years	40.3 years	41.1 years
Average length of service of contributing members	10.8 years	12.1 years	6.5 years	9.6 years	8.9 years	4.0 years	1.9 years

	Mesquite	Mexia	Miami	Midland	Midlothian	Milano	Miles
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$202,982,677	\$8,147,642	\$148,630	\$116,630,915	\$24,776,427	\$20,820	\$50,923
b. Noncontributing Members	21,375,070	1,669,003	0	23,130,326	6,328,490	0	184,238
c. Annuitants	244,224,387	7,201,462	0	177,407,847	14,195,372	0	0
2. Total Actuarial Accrued Liability	\$468,582,134	\$17,018,107	\$148,630	\$317,169,088	\$45,300,289	\$20,820	\$235,161
3. Actuarial value of assets	421,556,196	15,263,510	79,189	279,499,859	37,791,461	11,220	304,916
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$47,025,938	\$1,754,597	\$69,441	\$37,669,229	\$7,508,828	\$9,600	(\$69,755)
5. Funded Ratio: (3) / (2)	90.0%	89.7%	53.3%	88.1%	83.4%	53.9%	129.7%
6. Annual Payroll	\$75,234,354	\$4,195,263	\$91,528	\$48,400,745	\$13,747,253	\$33,375	\$141,736
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	5.60%	9.78%	2.78%	8.59%	11.02%	3.73%	2.09%
Prior Service	7.09%	2.51%	11.07%	5.62%	3.27%	7.04%	-2.09%
Total Retirement	12.69%	12.29%	13.85%	14.21%	14.29%	10.77%	0.00%
Supplemental Death	0.00%	0.17%	0.40%	0.21%	0.14%	0.57%	0.25%
Total Rate	12.69%	12.46%	14.25%	14.42%	14.43%	11.34%	0.25%
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	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	10.8 years	26.0 years	8.0 years	19.5 years	26.1 years	4.5 years	25.0 years
Number of annuitants	777	57	0	605	88	0	0
Number of active contributing members	1,103	99	3	761	217	1	4
Number of inactive members	381	86	0	590	118	0	9
Average age of contributing members	42.5 years	42.1 years	61.5 years	41.0 years	40.9 years	68.2 years	49.0 years
Average length of service of contributing members	11.5 years	8.3 years	11.4 years	9.3 years	9.6 years	8.3 years	10.5 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Milford	Mineola	Mineral Wells	Mission	Missouri City	Monahans	Mont Belvieu
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$147,552	\$2,350,325	\$14,408,251	\$61,162,013	\$41,784,530	\$8,113,006	\$12,036,169
b. Noncontributing Members	188,204	732,326	2,660,591	6,000,804	12,585,823	1,125,670	1,383,070
c. Annuitants	483,045	3,396,624	15,595,075	24,135,318	49,561,131	4,463,235	8,308,612
2. Total Actuarial Accrued Liability	\$818,801	\$6,479,275	\$32,663,917	\$91,298,135	\$103,931,484	\$13,701,911	\$21,727,851
3. Actuarial value of assets	689,647	6,853,686	30,831,905	81,494,312	99,093,023	12,504,829	17,064,285
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$129,154	(\$374,411)	\$1,832,012	\$9,803,823	\$4,838,461	\$1,197,082	\$4,663,566
5. Funded Ratio: (3) / (2)	84.2%	105.8%	94.4%	89.3%	95.3%	91.3%	78.5%
6. Annual Payroll	\$287,011	\$2,195,681	\$8,107,102	\$30,271,450	\$23,680,282	\$3,596,449	\$5,219,131
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	3.39%	5.23%	6.91%	6.41%	5.59%	5.34%	10.44%
Prior Service	5.77%	-1.05%	1.92%	2.01%	2.57%	2.32%	5.40%
Total Retirement	9.16%	4.18%	8.83%	8.42%	8.16%	7.66%	15.84%
Supplemental Death	0.17%	0.19%	0.26%	0.16%	0.13%	0.25%	0.16%
Total Rate	9.33%	4.37%	9.09%	8.58%	8.29%	7.91%	16.00%
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%	15.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	9.7 years	25.0 years	15.6 years	24.5 years	9.5 years	20.6 years	25.6 years
Number of annuitants	5	29	107	175	180	26	27
Number of active contributing members	6	50	168	676	336	62	78
Number of inactive members	10	37	106	296	173	44	22
Average age of contributing members	35.0 years	40.7 years	45.5 years	42.3 years	41.0 years	43.2 years	41.7 years
Average length of service of contributing members	5.5 years	8.4 years	9.8 years	10.0 years	10.4 years	11.0 years	9.6 years

	Montgomery	Moody	Morgan's Point	Morgan's Point Resort	Morton	Moulton	Mount Enterprise
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$661,635	\$273,348	\$1,312,781	\$1,389,478	\$1,636,526	\$581,538	\$65,135
b. Noncontributing Members	313,417	11,564	978,783	974,522	341,334	552,268	0
c. Annuitants	291,921	527,906	2,012,665	1,101,685	263,237	1,078,755	137,049
2. Total Actuarial Accrued Liability	\$1,266,973	\$812,818	\$4,304,229	\$3,465,685	\$2,241,097	\$2,212,561	\$202,184
3. Actuarial value of assets	1,362,783	772,278	4,277,192	3,081,817	2,374,578	2,170,555	201,567
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$95,810)	\$40,540	\$27,037	\$383,868	(\$133,481)	\$42,006	\$617
5. Funded Ratio: (3) / (2)	107.6%	95.0%	99.4%	88.9%	106.0%	98.1%	99.7%
6. Annual Payroll	\$1,181,853	\$510,086	\$803,239	\$1,105,229	\$382,982	\$436,248	\$101,447
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	6.63%	1.52%	8.97%	9.95%	6.49%	4.36%	1.78%
Prior Service	-0.50%	1.90%	0.26%	2.22%	-2.18%	0.79%	0.13%
Total Retirement	6.13%	3.42%	9.23%	12.17%	4.31%	5.15%	1.91%
Supplemental Death	0.00%	0.19%	0.12%	0.20%	0.20%	0.16%	0.12%
Total Rate	6.13%	3.61%	9.35%	12.37%	4.51%	5.31%	2.03%
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)	13.50%	7.50%	N/A	13.50%	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	4.6 years	17.8 years	26.3 years	25.0 years	16.4 years	5.2 years
Number of annuitants	8	4	15	24	3	12	1
Number of active contributing members	24	12	11	26	9	9	2
Number of inactive members	25	12	7	16	5	17	0
Average age of contributing members	43.0 years	44.8 years	42.7 years	40.8 years	48.8 years	43.2 years	45.0 years
Average length of service of contributing members	6.7 years	6.9 years	11.5 years	6.4 years	16.8 years	8.9 years	6.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Mt. Pleasant	Mt. Vernon	Muenster	Muleshoe	Munday	Murphy	Nacogdoches
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$20,072,799	\$1,947,220	\$384,025	\$4,769,044	\$102,407	\$10,246,753	\$46,768,424
b. Noncontributing Members	5,559,983	336,467	294,817	1,154,826	44,169	5,400,932	4,893,949
c. Annuitants	11,542,181	1,238,513	790,600	4,108,473	200,730	4,599,682	48,374,688
2. Total Actuarial Accrued Liability	\$37,174,963	\$3,522,200	\$1,469,442	\$10,032,343	\$347,306	\$20,247,367	\$100,037,061
3. Actuarial value of assets	31,424,359	3,185,682	1,785,051	8,331,644	259,768	17,264,692	84,455,594
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$5,750,604	\$336,518	(\$315,609)	\$1,700,699	\$87,538	\$2,982,675	\$15,581,467
5. Funded Ratio: (3) / (2)	84.5%	90.4%	121.5%	83.0%	74.8%	85.3%	84.4%
6. Annual Payroll	\$7,877,784	\$864,909	\$518,954	\$1,428,335	\$277,058	\$7,427,715	\$16,382,362
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.26%	8.68%	5.15%	9.03%	1.44%	11.68%	8.35%
Prior Service	4.83%	2.53%	-3.73%	8.81%	2.13%	2.43%	6.64%
Total Retirement	15.09%	11.21%	1.42%	17.84%	3.57%	14.11%	14.99%
Supplemental Death	0.18%	0.25%	0.00%	0.21%	0.15%	0.13%	0.20%
Total Rate	15.27%	11.46%	1.42%	18.05%	3.72%	14.24%	15.19%
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	13.50%	11.50%	N/A	N/A	15.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	22.2 years	23.5 years	25.0 years	18.9 years	21.6 years	25.7 years	20.5 years
Number of annuitants	93	19	10	25	4	34	216
Number of active contributing members	162	21	13	35	7	116	303
Number of inactive members	93	11	6	28	6	96	119
Average age of contributing members	41.6 years	44.3 years	52.8 years	45.2 years	40.4 years	41.0 years	42.5 years
Average length of service of contributing members	9.1 years	10.1 years	5.9 years	10.3 years	6.8 years	10.7 years	12.0 years

	Naples	Nash	Nassau Bay	Natalia	Navasota	Nederland	Needville
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$121,132	\$2,451,423	\$5,456,935	\$190,347	\$5,963,337	\$28,191,094	\$1,561,783
b. Noncontributing Members	48,966	108,080	1,132,911	70,170	987,990	3,341,832	273,256
c. Annuitants	307,083	648,375	3,687,952	71,124	6,076,602	23,706,747	827,545
2. Total Actuarial Accrued Liability	\$477,181	\$3,207,878	\$10,277,798	\$331,641	\$13,027,929	\$55,239,673	\$2,662,584
3. Actuarial value of assets	560,224	1,946,953	7,431,242	279,702	12,241,257	57,662,517	2,622,246
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$83,043)	\$1,260,925	\$2,846,556	\$51,939	\$786,672	(\$2,422,844)	\$40,338
5. Funded Ratio: (3) / (2)	117.4%	60.7%	72.3%	84.3%	94.0%	104.4%	98.5%
6. Annual Payroll	\$362,267	\$979,709	\$2,827,850	\$404,177	\$3,308,117	\$8,241,463	\$832,382
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	3.34%	8.76%	9.63%	2.11%	5.81%	8.16%	3.83%
Prior Service	-1.41%	8.87%	6.03%	1.02%	2.20%	-1.81%	0.36%
Total Retirement	1.93%	17.63%	15.66%	3.13%	8.01%	6.35%	4.19%
Supplemental Death	0.22%	0.16%	0.15%	0.21%	0.19%	0.00%	0.42%
Total Rate	2.15%	17.79%	15.81%	3.34%	8.20%	6.35%	4.61%
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)	9.50%	N/A	N/A	N/A	11.50%	N/A	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	21.4 years	26.0 years	17.1 years	13.9 years	25.0 years	19.5 years
Number of annuitants	6	8	22	2	48	97	9
Number of active contributing members	11	19	44	12	77	118	18
Number of inactive members	10	8	33	13	47	26	10
Average age of contributing members	46.1 years	40.0 years	44.1 years	51.0 years	41.5 years	45.1 years	54.5 years
Average length of service of contributing members	4.5 years	9.4 years	14.2 years	6.5 years	9.2 years	15.5 years	13.1 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	New Boston	New Braunfels	New Braunfels Utilities	New Deal	New Fairview	New London	New Summerfield
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,214,273	\$90,007,765	\$44,328,876	\$204,083	\$132,353	\$702,841	\$412,800
b. Noncontributing Members	462,677	12,457,684	6,427,678	36,023	0	117,898	83,346
c. Annuitants	<u>1,868,340</u>	<u>54,348,022</u>	<u>33,799,233</u>	<u>51,992</u>	<u>16,027</u>	<u>202,640</u>	<u>59,500</u>
2. Total Actuarial Accrued Liability	\$3,545,290	\$156,813,471	\$84,555,787	\$292,098	\$148,380	\$1,023,379	\$555,646
3. Actuarial value of assets	<u>3,837,047</u>	<u>121,513,719</u>	<u>69,476,995</u>	<u>354,360</u>	<u>87,456</u>	<u>1,018,511</u>	<u>496,109</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$291,757)	\$35,299,752	\$15,078,792	(\$62,262)	\$60,924	\$4,868	\$59,537
5. Funded Ratio: (3) / (2)	108.2%	77.5%	82.2%	121.3%	58.9%	99.5%	89.3%
6. Annual Payroll	\$1,242,841	\$36,822,743	\$16,391,721	\$220,343	\$68,667	\$395,062	\$437,476
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	3.07%	11.21%	9.87%	2.43%	1.05%	3.76%	8.08%
Prior Service	<u>-1.44%</u>	<u>5.75%</u>	<u>7.55%</u>	<u>-1.89%</u>	<u>9.37%</u>	<u>0.11%</u>	<u>1.46%</u>
Total Retirement	1.63%	16.96%	17.42%	0.54%	10.42%	3.87%	9.54%
Supplemental Death	<u>0.23%</u>	<u>0.14%</u>	<u>0.16%</u>	<u>0.00%</u>	<u>0.13%</u>	<u>0.00%</u>	<u>0.00%</u>
Total Rate	1.86%	17.10%	17.58%	0.54%	10.55%	3.87%	9.54%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	9.76%	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	7.50%	N/A	N/A	7.50%	N/A	7.50%	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	26.0 years	16.3 years	25.0 years	11.8 years	14.0 years	11.5 years
Number of annuitants	16	246	113	1	1	4	5
Number of active contributing members	35	587	272	4	1	8	10
Number of inactive members	31	278	77	4	0	6	8
Average age of contributing members	46.9 years	41.8 years	41.0 years	56.0 years	37.5 years	49.8 years	48.9 years
Average length of service of contributing members	7.7 years	10.5 years	8.8 years	15.2 years	15.8 years	13.7 years	6.0 years

	New Waverly	Newark	Newton	Nixon	Nocona	Nolanville	Normangee
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$428,018	\$69,452	\$3,022,500	\$456,807	\$1,586,832	\$100,942	\$24,366
b. Noncontributing Members	0	1,324	9,899	85,189	549,480	68,221	56,721
c. Annuitants	<u>222,926</u>	<u>0</u>	<u>3,193,908</u>	<u>198,847</u>	<u>612,798</u>	<u>28,153</u>	<u>136,249</u>
2. Total Actuarial Accrued Liability	\$650,944	\$70,776	\$6,226,307	\$740,843	\$2,749,110	\$197,316	\$217,336
3. Actuarial value of assets	<u>630,047</u>	<u>57,492</u>	<u>4,789,060</u>	<u>805,669</u>	<u>2,376,803</u>	<u>150,484</u>	<u>287,925</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$20,897	\$13,284	\$1,437,247	(\$64,826)	\$372,307	\$46,832	(\$70,589)
5. Funded Ratio: (3) / (2)	96.8%	81.2%	76.9%	108.8%	86.5%	76.3%	132.5%
6. Annual Payroll	\$234,374	\$253,021	\$1,052,666	\$729,634	\$820,558	\$506,394	\$183,791
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	5.02%	2.10%	10.46%	1.25%	6.67%	1.72%	4.65%
Prior Service	<u>1.12%</u>	<u>1.05%</u>	<u>10.05%</u>	<u>-0.55%</u>	<u>3.16%</u>	<u>0.60%</u>	<u>-2.36%</u>
Total Retirement	6.14%	3.15%	20.51%	0.70%	9.83%	2.32%	2.29%
Supplemental Death	<u>0.32%</u>	<u>0.12%</u>	<u>0.23%</u>	<u>0.21%</u>	<u>0.26%</u>	<u>0.14%</u>	<u>0.28%</u>
Total Rate	6.46%	3.27%	20.74%	0.91%	10.09%	2.46%	2.57%
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)	9.50%	N/A	N/A	N/A	11.50%	N/A	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	9.6 years	5.6 years	19.0 years	25.0 years	20.6 years	23.0 years	25.0 years
Number of annuitants	2	0	15	6	13	2	3
Number of active contributing members	5	4	23	18	19	15	3
Number of inactive members	0	2	3	23	28	20	8
Average age of contributing members	53.8 years	46.9 years	41.6 years	43.7 years	50.1 years	39.9 years	44.0 years
Average length of service of contributing members	18.5 years	4.8 years	10.7 years	6.8 years	10.2 years	5.0 years	2.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	North Richland Hills	Northlake	O'Donnell	Oak Point	Oak Ridge North	Odem	Odessa
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$112,635,631	\$2,362,236	\$83,915	\$1,733,242	\$7,279,408	\$348,865	\$101,732,084
b. Noncontributing Members	21,147,007	447,714	44,505	634,505	1,618,533	10,938	20,982,445
c. Annuitants	113,165,571	100,592	106,892	132,522	1,174,338	825,393	134,063,865
2. Total Actuarial Accrued Liability	\$246,948,209	\$2,910,542	\$235,312	\$2,500,269	\$10,072,279	\$1,185,196	\$256,778,394
3. Actuarial value of assets	220,805,672	2,448,958	195,287	2,164,736	8,838,361	899,290	224,580,828
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$26,142,537	\$461,584	\$40,025	\$335,533	\$1,233,918	\$285,906	\$32,197,566
5. Funded Ratio: (3) / (2)	89.4%	84.1%	83.0%	86.6%	87.7%	75.9%	87.5%
6. Annual Payroll	\$36,076,649	\$1,885,622	\$109,902	\$1,613,367	\$2,695,570	\$468,537	\$42,868,232
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	11.00%	8.96%	1.67%	5.73%	9.06%	5.14%	7.86%
Prior Service	5.15%	1.54%	5.36%	1.39%	2.76%	3.98%	5.21%
Total Retirement	16.15%	10.50%	7.03%	7.12%	11.82%	9.12%	13.07%
Supplemental Death	0.00%	0.10%	0.18%	0.13%	0.20%	0.40%	0.20%
Total Rate	16.15%	10.60%	7.21%	7.25%	12.02%	9.52%	13.27%
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 1/2019	20.0 years	24.1 years	8.2 years	22.0 years	25.8 years	22.7 years	20.7 years
Number of annuitants	355	4	2	5	11	10	524
Number of active contributing members	540	30	3	26	43	12	713
Number of inactive members	292	23	1	29	30	5	452
Average age of contributing members	42.4 years	39.8 years	52.5 years	39.2 years	43.6 years	50.4 years	42.3 years
Average length of service of contributing members	12.5 years	8.7 years	13.8 years	7.4 years	11.5 years	7.2 years	9.1 years

	Oglesby	Old River-Winfree	Olmos Park	Oney	Omaha	Onalaska	Orange
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$4,704	\$35,883	\$1,098,636	\$556,198	\$212,316	\$272,760	\$31,317,908
b. Noncontributing Members	0	5,164	1,410,400	280,883	31,661	55,658	5,507,288
c. Annuitants	71,282	0	2,875,874	349,116	51,479	27,772	33,833,397
2. Total Actuarial Accrued Liability	\$75,986	\$41,047	\$5,384,910	\$1,186,197	\$295,456	\$356,190	\$70,658,593
3. Actuarial value of assets	78,338	66,169	5,776,036	1,114,157	222,454	381,975	63,899,296
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$2,352)	(\$25,122)	(\$391,126)	\$72,040	\$73,002	(\$25,785)	\$6,759,297
5. Funded Ratio: (3) / (2)	103.1%	161.2%	107.3%	93.9%	75.3%	107.2%	90.4%
6. Annual Payroll	\$26,466	\$34,694	\$1,857,855	\$782,234	\$214,055	\$474,572	\$9,170,932
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	1.11%	2.39%	3.89%	5.70%	2.09%	2.96%	10.75%
Prior Service	-0.58%	-2.39%	-1.29%	0.65%	3.21%	-0.33%	5.05%
Total Retirement	0.53%	0.00%	2.60%	6.35%	5.30%	2.63%	15.80%
Supplemental Death	0.17%	0.00%	0.00%	0.18%	0.28%	0.15%	0.00%
Total Rate	0.70%	0.00%	2.60%	6.53%	5.58%	2.78%	15.80%
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%	11.50%	N/A	N/A	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	25.0 years	25.0 years	23.1 years	13.6 years	25.0 years	21.1 years
Number of annuitants	2	0	37	6	1	4	132
Number of active contributing members	2	1	38	19	6	12	152
Number of inactive members	0	1	67	13	1	15	57
Average age of contributing members	36.0 years	56.2 years	40.0 years	45.0 years	55.2 years	45.1 years	45.2 years
Average length of service of contributing members	2.3 years	11.6 years	7.0 years	6.4 years	10.7 years	5.7 years	12.7 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Orange Grove	Ore City	Overton	Ovilla	Oyster Creek	Paducah	Palacios
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$369,626	\$149,581	\$563,276	\$1,464,252	\$1,712,758	\$201,222	\$2,584,261
b. Noncontributing Members	58,980	130,042	339,026	709,057	186,765	118,235	1,392,582
c. Annuitants	560,463	99,453	381,545	740,169	1,228,981	900,908	2,128,672
2. Total Actuarial Accrued Liability	\$989,069	\$379,076	\$1,283,847	\$2,913,478	\$3,128,504	\$1,220,365	\$6,105,515
3. Actuarial value of assets	1,236,741	386,521	1,480,741	2,686,024	2,760,583	1,441,449	4,689,331
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$247,672)	(\$7,445)	(\$196,894)	\$227,454	\$367,921	(\$221,084)	\$1,416,184
5. Funded Ratio: (3) / (2)	125.0%	102.0%	115.3%	92.2%	88.2%	118.1%	76.8%
6. Annual Payroll	\$364,795	\$361,344	\$764,660	\$1,208,107	\$953,038	\$375,150	\$1,523,813
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	5.20%	1.58%	3.59%	8.41%	8.42%	4.87%	11.04%
Prior Service	-4.17%	-0.13%	-1.58%	1.18%	2.60%	-3.76%	6.41%
Total Retirement	1.03%	1.45%	2.01%	9.59%	11.02%	1.11%	17.45%
Supplemental Death	0.17%	0.14%	0.18%	0.14%	0.21%	0.32%	0.28%
Total Rate	1.20%	1.59%	2.19%	9.73%	11.23%	1.43%	17.73%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	9.59%	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	9.50%	7.50%	11.50%	13.50%	13.50%	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	25.0 years	25.0 years	24.2 years	21.6 years	25.0 years	21.4 years
Number of annuitants	4	2	12	15	17	11	18
Number of active contributing members	10	9	20	25	23	7	34
Number of inactive members	15	5	26	37	8	6	42
Average age of contributing members	45.1 years	45.5 years	43.1 years	43.3 years	44.7 years	52.3 years	47.6 years
Average length of service of contributing members	7.6 years	5.7 years	7.6 years	10.3 years	7.6 years	6.6 years	9.6 years

	Palestine	Palmer	Palmhurst	Palmview	Pampa	Panhandle	Panorama Village
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$15,594,281	\$1,042,602	\$563,361	\$1,097,473	\$18,756,529	\$1,660,308	\$871,308
b. Noncontributing Members	3,855,573	574,354	100,966	430,820	2,439,541	791,883	111,708
c. Annuitants	25,906,988	282,728	21,626	84,647	24,146,012	876,778	929,859
2. Total Actuarial Accrued Liability	\$45,356,842	\$1,899,684	\$685,953	\$1,612,940	\$45,342,082	\$3,328,969	\$1,912,875
3. Actuarial value of assets	36,867,175	1,789,950	638,157	1,336,000	32,502,446	2,633,975	1,906,780
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$8,489,667	\$109,734	\$47,796	\$276,940	\$12,839,636	\$694,994	\$6,095
5. Funded Ratio: (3) / (2)	81.3%	94.2%	93.0%	82.8%	71.7%	79.1%	99.7%
6. Annual Payroll	\$9,058,468	\$1,166,760	\$1,138,857	\$2,545,204	\$7,601,872	\$849,065	\$608,816
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	7.80%	6.18%	5.67%	1.19%	9.06%	7.19%	6.49%
Prior Service	5.62%	0.56%	0.27%	0.73%	12.37%	5.15%	0.09%
Total Retirement	13.42%	6.74%	5.94%	1.92%	21.43%	12.34%	6.58%
Supplemental Death	0.20%	0.10%	0.09%	0.10%	0.25%	0.00%	0.48%
Total Rate	13.62%	6.84%	6.03%	2.02%	21.68%	12.34%	7.06%
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	12.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.0 years	26.0 years	22.6 years	21.6 years	19.1 years	24.1 years	15.0 years
Number of annuitants	153	5	3	1	145	10	13
Number of active contributing members	185	23	29	61	156	16	12
Number of inactive members	117	30	31	31	87	14	6
Average age of contributing members	42.1 years	37.7 years	38.5 years	38.1 years	41.2 years	44.9 years	56.0 years
Average length of service of contributing members	8.6 years	5.1 years	4.8 years	6.2 years	8.7 years	11.1 years	12.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Pantego	Paris	Parker	Pasadena	Pearland	Pearsall	Pecos City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,604,367	\$28,399,604	\$2,199,204	\$210,349,289	\$94,305,635	\$2,654,645	\$7,879,985
b. Noncontributing Members	2,948,277	6,289,099	247,797	28,182,550	15,619,277	1,199,524	1,373,318
c. Annuitants	9,243,058	26,896,446	1,164,339	202,303,371	35,499,604	2,114,584	5,561,595
2. Total Actuarial Accrued Liability	\$15,795,702	\$61,585,149	\$3,611,340	\$440,835,210	\$145,424,516	\$5,968,753	\$14,814,898
3. Actuarial value of assets	13,248,548	59,102,844	2,702,963	409,831,935	122,275,759	5,840,223	14,750,854
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$2,547,154	\$2,482,305	\$908,377	\$31,003,275	\$23,148,757	\$128,530	\$64,044
5. Funded Ratio: (3) / (2)	83.9%	96.0%	74.8%	93.0%	84.1%	97.8%	99.6%
6. Annual Payroll	\$2,474,634	\$12,247,026	\$1,416,205	\$63,187,798	\$43,775,138	\$2,796,657	\$5,747,219
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.96%	4.19%	7.47%	9.22%	10.13%	2.59%	5.99%
Prior Service	6.53%	2.76%	4.74%	4.23%	3.17%	0.28%	0.07%
Total Retirement	17.49%	6.95%	12.21%	13.45%	13.30%	2.87%	6.06%
Supplemental Death	0.16%	0.25%	0.19%	0.23%	0.12%	0.17%	0.26%
Total Rate	17.65%	7.20%	12.40%	13.68%	13.42%	3.04%	6.32%
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	15.50%	7.50%	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.2 years	8.7 years	18.9 years	15.7 years	26.0 years	25.2 years	23.1 years
Number of annuitants	49	215	7	744	200	25	61
Number of active contributing members	43	254	23	1,007	666	65	117
Number of inactive members	89	122	12	282	289	76	110
Average age of contributing members	42.6 years	44.3 years	47.6 years	43.9 years	41.1 years	40.5 years	45.8 years
Average length of service of contributing members	10.2 years	11.9 years	12.3 years	12.4 years	9.6 years	8.1 years	8.2 years

	Pelican Bay	Penitas	Perryton	Pflugerville	Pharr	Pilot Point	Pinehurst
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$186,553	\$474,376	\$14,618,563	\$34,648,367	\$43,247,407	\$1,830,608	\$2,422,673
b. Noncontributing Members	224	38,582	1,442,200	8,987,024	7,038,990	1,060,183	311,602
c. Annuitants	0	0	6,511,370	17,372,242	31,199,907	1,367,234	3,153,980
2. Total Actuarial Accrued Liability	\$186,777	\$512,958	\$22,572,133	\$61,007,633	\$81,486,304	\$4,258,025	\$5,888,255
3. Actuarial value of assets	9,990	256,859	19,714,650	50,097,719	71,679,826	3,814,937	4,533,965
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$176,787	\$256,099	\$2,857,483	\$10,909,914	\$9,806,478	\$443,088	\$1,354,290
5. Funded Ratio: (3) / (2)	5.3%	50.1%	87.3%	82.1%	88.0%	89.6%	77.0%
6. Annual Payroll	\$404,018	\$1,450,615	\$3,975,664	\$19,570,626	\$27,718,603	\$2,157,577	\$1,122,451
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	1.52%	3.22%	7.97%	9.98%	5.25%	7.96%	11.53%
Prior Service	3.49%	1.11%	6.74%	3.35%	2.64%	1.23%	7.85%
Total Retirement	5.01%	4.33%	14.71%	13.33%	7.89%	9.19%	19.38%
Supplemental Death	0.11%	0.07%	0.27%	0.14%	0.13%	0.13%	0.24%
Total Rate	5.12%	4.40%	14.98%	13.47%	8.02%	9.32%	19.62%
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	N/A	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	17.0 years	24.0 years	13.7 years	25.9 years	18.6 years	26.1 years	25.9 years
Number of annuitants	0	0	33	79	208	18	29
Number of active contributing members	12	40	79	335	573	46	21
Number of inactive members	1	21	70	165	159	55	8
Average age of contributing members	42.7 years	36.5 years	44.5 years	41.1 years	40.4 years	41.6 years	46.6 years
Average length of service of contributing members	4.8 years	4.4 years	11.2 years	8.5 years	9.1 years	7.6 years	10.0 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Pineland	Piney Point Village	Pittsburg	Plains	Plainview	Plano	Pleasanton
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,191,287	\$282,159	\$3,203,996	\$1,353,213	\$13,733,588	\$526,772,003	\$8,690,451
b. Noncontributing Members	15,899	70,841	509,342	24,606	4,892,492	65,331,261	2,334,755
c. Annuitants	1,070,101	202,776	4,446,133	415,350	22,579,985	415,574,594	7,930,800
2. Total Actuarial Accrued Liability	\$2,277,287	\$555,776	\$8,159,471	\$1,793,169	\$41,206,065	\$1,007,677,858	\$18,956,006
3. Actuarial value of assets	2,205,996	538,643	7,275,870	1,855,349	37,949,635	902,876,591	13,646,038
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$71,291	\$17,133	\$883,601	(\$62,180)	\$3,256,430	\$104,801,267	\$5,309,968
5. Funded Ratio: (3) / (2)	96.9%	96.9%	89.2%	103.5%	92.1%	89.6%	72.0%
6. Annual Payroll	\$486,305	\$498,003	\$1,491,618	\$379,958	\$6,351,544	\$162,749,915	\$5,137,100
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	5.18%	6.50%	9.22%	7.57%	9.18%	11.34%	9.30%
Prior Service	2.73%	0.45%	5.17%	-1.00%	3.89%	5.33%	6.49%
Total Retirement	7.91%	6.95%	14.39%	6.57%	13.07%	16.67%	15.79%
Supplemental Death	0.30%	0.23%	0.22%	0.23%	0.00%	0.00%	0.16%
Total Rate	8.21%	7.18%	14.61%	6.80%	13.07%	16.67%	15.95%
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 1/2019	6.1 years	9.1 years	16.1 years	25.0 years	19.4 years	16.1 years	24.1 years
Number of annuitants	8	5	23	4	112	1,191	40
Number of active contributing members	13	7	34	9	133	2,346	103
Number of inactive members	3	6	31	2	45	983	67
Average age of contributing members	48.5 years	55.6 years	41.0 years	45.2 years	45.4 years	43.5 years	41.0 years
Average length of service of contributing members	11.3 years	12.3 years	7.8 years	14.1 years	10.2 years	12.2 years	7.4 years

	Point	Ponder	Port Aransas	Port Arthur	Port Isabel	Port Lavaca	Port Neches
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$210,619	\$688,274	\$8,580,560	\$80,327,669	\$2,178,918	\$4,352,583	\$22,297,649
b. Noncontributing Members	147,528	89,770	838,876	11,903,247	822,090	1,958,259	1,294,319
c. Annuitants	150,326	53,016	5,844,100	102,679,213	2,114,723	4,889,904	23,293,654
2. Total Actuarial Accrued Liability	\$508,473	\$831,060	\$15,263,536	\$194,910,129	\$5,115,731	\$11,200,746	\$46,885,622
3. Actuarial value of assets	393,511	769,073	12,189,456	166,874,666	5,181,155	10,398,832	43,397,265
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$114,962	\$61,987	\$3,074,080	\$28,035,463	(\$65,424)	\$801,914	\$3,488,357
5. Funded Ratio: (3) / (2)	77.4%	92.5%	79.9%	85.6%	101.3%	92.8%	92.6%
6. Annual Payroll	\$326,257	\$756,270	\$6,163,205	\$34,119,257	\$2,471,788	\$3,862,424	\$6,813,681
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.92%	5.47%	8.56%	7.01%	4.13%	4.57%	8.84%
Prior Service	3.75%	0.64%	2.99%	6.79%	-0.16%	1.24%	3.65%
Total Retirement	13.67%	6.11%	11.55%	13.80%	3.97%	5.81%	12.49%
Supplemental Death	0.00%	0.40%	0.22%	0.25%	0.18%	0.24%	0.00%
Total Rate	13.67%	6.51%	11.77%	14.05%	4.15%	6.05%	12.49%
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	9.50%	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	12.1 years	17.4 years	26.1 years	16.2 years	25.0 years	26.0 years	20.4 years
Number of annuitants	3	2	50	478	28	63	82
Number of active contributing members	10	14	118	518	75	91	95
Number of inactive members	16	6	66	127	70	100	26
Average age of contributing members	39.7 years	54.1 years	47.6 years	47.2 years	41.7 years	39.9 years	41.5 years
Average length of service of contributing members	2.9 years	9.1 years	7.6 years	12.9 years	6.5 years	6.7 years	14.4 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Portland	Post	Poteet	Poth	Pottsboro	Prairie View	Premont
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$14,351,265	\$745,579	\$600,462	\$416,843	\$814,714	\$361,541	\$284,910
b. Noncontributing Members	2,276,608	312,983	365,006	91,694	236,335	0	42,142
c. Annuitants	9,805,209	945,255	374,040	188,720	163,022	0	365,789
2. Total Actuarial Accrued Liability	\$26,433,082	\$2,003,817	\$1,339,508	\$697,257	\$1,214,071	\$361,541	\$692,841
3. Actuarial value of assets	20,841,757	1,541,532	1,579,884	580,209	1,183,939	20,828	986,732
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$5,591,325	\$462,285	(\$240,376)	\$117,048	\$30,132	\$340,713	(\$293,891)
5. Funded Ratio: (3) / (2)	78.8%	76.9%	117.9%	83.2%	97.5%	5.8%	142.4%
6. Annual Payroll	\$6,974,407	\$632,448	\$993,631	\$402,266	\$887,293	\$725,525	\$599,959
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	8.17%	4.09%	3.67%	2.36%	6.50%	2.12%	1.64%
Prior Service	5.47%	6.70%	-1.49%	2.11%	0.22%	3.13%	-1.64%
Total Retirement	13.64%	10.79%	2.18%	4.47%	6.72%	5.25%	0.00%
Supplemental Death	0.20%	0.48%	0.19%	0.32%	0.17%	0.21%	0.24%
Total Rate	13.84%	11.27%	2.37%	4.79%	6.89%	5.46%	0.24%
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	9.50%	9.50%	13.50%	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	21.2 years	14.4 years	25.0 years	19.4 years	22.4 years	22.0 years	25.0 years
Number of annuitants	64	13	8	4	11	0	11
Number of active contributing members	131	19	27	10	19	17	20
Number of inactive members	80	12	37	12	13	0	15
Average age of contributing members	42.9 years	47.2 years	40.7 years	48.4 years	44.1 years	51.9 years	48.0 years
Average length of service of contributing members	9.7 years	6.2 years	7.7 years	8.5 years	11.3 years	6.9 years	5.9 years

	Presidio	Primera	Princeton	Prosper	Providence Village	Quanah	Queen City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$955,914	\$276,227	\$3,449,013	\$12,172,727	\$155,301	\$994,779	\$387,137
b. Noncontributing Members	316,460	72,277	707,851	3,903,865	0	5,142	259,914
c. Annuitants	172,360	169,176	1,848,054	1,407,908	0	2,204,384	6,095
2. Total Actuarial Accrued Liability	\$1,444,734	\$517,680	\$6,004,918	\$17,484,500	\$155,301	\$3,204,305	\$653,146
3. Actuarial value of assets	1,592,257	627,327	5,600,908	15,045,988	92,168	3,000,431	733,391
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$147,523)	(\$109,647)	\$404,010	\$2,438,512	\$63,133	\$203,874	(\$80,245)
5. Funded Ratio: (3) / (2)	110.2%	121.2%	93.3%	86.1%	59.3%	93.6%	112.3%
6. Annual Payroll	\$1,597,670	\$560,188	\$3,481,256	\$11,333,378	\$405,660	\$536,424	\$492,436
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	1.44%	1.26%	10.04%	12.24%	5.36%	4.98%	2.77%
Prior Service	-0.57%	-1.20%	0.71%	1.31%	2.14%	4.38%	-1.00%
Total Retirement	0.87%	0.06%	10.75%	13.55%	7.50%	9.36%	1.77%
Supplemental Death	0.23%	0.16%	0.11%	0.00%	0.21%	0.36%	0.32%
Total Rate	1.10%	0.22%	10.86%	13.55%	7.71%	9.72%	2.09%
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%	15.50%	N/A	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	25.0 years	25.3 years	25.2 years	8.6 years	11.2 years	25.0 years
Number of annuitants	5	4	17	16	0	16	3
Number of active contributing members	44	17	71	168	7	15	10
Number of inactive members	22	19	25	79	0	4	22
Average age of contributing members	47.2 years	41.2 years	41.4 years	41.7 years	46.8 years	45.6 years	47.6 years
Average length of service of contributing members	7.6 years	6.2 years	5.8 years	8.2 years	8.1 years	11.0 years	7.4 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Quinlan	Quintana	Quitaque	Quitman	Ralls	Rancho Viejo	Ranger
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$485,774	\$29,213	\$199,059	\$2,536,475	\$599,037	\$1,435,414	\$1,197,195
b. Noncontributing Members	83,117	56,503	7,362	291,463	178,764	173,349	363,022
c. Annuitants	50,950	0	34,510	1,062,519	855,337	1,063,749	307,886
2. Total Actuarial Accrued Liability	\$619,841	\$85,716	\$240,931	\$3,890,457	\$1,633,138	\$2,672,512	\$1,868,103
3. Actuarial value of assets	616,577	84,467	213,709	4,013,185	1,563,204	2,574,494	2,021,472
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$3,264	\$1,249	\$27,222	(\$122,728)	\$69,934	\$98,018	(\$153,369)
5. Funded Ratio: (3) / (2)	99.5%	98.5%	88.7%	103.2%	95.7%	96.3%	108.2%
6. Annual Payroll	\$671,695	\$91,971	\$116,801	\$1,015,687	\$451,243	\$547,756	\$400,610
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.98%	2.29%	1.40%	6.23%	5.28%	5.08%	8.99%
Prior Service	0.03%	0.26%	3.52%	-0.74%	1.22%	1.83%	-2.35%
Total Retirement	10.01%	2.55%	4.92%	5.49%	6.50%	6.91%	6.64%
Supplemental Death	0.09%	0.09%	0.20%	0.22%	0.51%	0.10%	0.00%
Total Rate	10.10%	2.64%	5.12%	5.71%	7.01%	7.01%	6.64%
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	11.50%	9.50%	11.50%	12.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	24.8 years	6.0 years	7.7 years	25.0 years	19.2 years	12.3 years	25.0 years
Number of annuitants	2	0	1	10	9	2	7
Number of active contributing members	15	1	4	22	10	10	19
Number of inactive members	19	5	1	10	14	7	67
Average age of contributing members	39.4 years	51.6 years	44.3 years	43.0 years	46.1 years	37.9 years	43.8 years
Average length of service of contributing members	8.9 years	4.6 years	12.5 years	10.8 years	9.0 years	11.4 years	6.2 years

	Rankin	Ransom Canyon	Raymondville	Red Oak	Redwater	Refugio	Reklaw
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$135,357	\$1,504,461	\$3,027,053	\$5,562,440	\$141,722	\$964,313	\$937,124
b. Noncontributing Members	120,205	77,937	566,287	1,427,306	97,682	68,317	195,163
c. Annuitants	425,529	332,549	4,507,979	1,671,287	0	831,795	263,332
2. Total Actuarial Accrued Liability	\$681,091	\$1,914,947	\$8,101,319	\$8,661,033	\$239,404	\$1,864,425	\$1,395,619
3. Actuarial value of assets	706,266	1,236,455	9,136,816	7,608,647	229,607	2,477,685	1,185,762
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$25,175)	\$678,492	(\$1,035,497)	\$1,052,386	\$9,797	(\$613,260)	\$209,857
5. Funded Ratio: (3) / (2)	103.7%	64.6%	112.8%	87.8%	95.9%	132.9%	85.0%
6. Annual Payroll	\$232,362	\$551,652	\$2,263,185	\$5,758,621	\$257,743	\$1,221,512	\$268,486
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	1.91%	5.23%	4.28%	5.03%	2.61%	0.93%	8.54%
Prior Service	-0.67%	10.16%	-2.81%	1.13%	0.47%	-0.93%	7.99%
Total Retirement	1.24%	15.39%	1.47%	6.16%	3.08%	0.00%	16.53%
Supplemental Death	0.29%	0.24%	0.29%	0.13%	0.15%	0.00%	0.33%
Total Rate	1.53%	15.63%	1.76%	6.29%	3.23%	0.00%	16.86%
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%	12.50%	N/A	7.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	16.2 years	25.0 years	24.6 years	9.8 years	25.0 years	13.1 years
Number of annuitants	3	3	49	25	0	18	3
Number of active contributing members	5	11	70	92	7	28	7
Number of inactive members	3	1	34	54	1	11	1
Average age of contributing members	49.1 years	48.5 years	40.6 years	41.6 years	49.4 years	44.4 years	53.4 years
Average length of service of contributing members	6.4 years	13.6 years	7.3 years	9.5 years	5.3 years	9.9 years	12.8 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Reno (Lamar County)	Reno (Parker County)	Rhome	Rice	Richardson	Richland Hills	Richland Springs
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$544,617	\$160,916	\$264,647	\$95,641	\$239,689,171	\$9,416,347	\$4,283
b. Noncontributing Members	303,636	74,450	489,779	61,398	40,596,608	5,954,624	0
c. Annuitants	41,364	29,377	334,597	54,785	242,336,931	15,789,984	99,638
2. Total Actuarial Accrued Liability	\$889,617	\$264,743	\$1,089,023	\$211,824	\$522,622,710	\$31,160,955	\$103,921
3. Actuarial value of assets	1,012,352	323,696	1,053,762	239,541	469,640,036	28,555,849	200,728
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$122,735)	(\$58,953)	\$35,261	(\$27,717)	\$52,982,674	\$2,605,106	(\$96,807)
5. Funded Ratio: (3) / (2)	113.8%	122.3%	96.8%	113.1%	89.9%	91.6%	193.2%
6. Annual Payroll	\$551,607	\$581,458	\$666,571	\$337,521	\$73,866,001	\$4,584,278	\$18,556
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	5.56%	3.34%	7.17%	1.57%	7.96%	11.62%	5.65%
Prior Service	-1.39%	-0.62%	0.43%	-0.50%	6.48%	3.85%	-5.65%
Total Retirement	4.17%	2.72%	7.60%	1.07%	14.44%	15.47%	0.00%
Supplemental Death	0.10%	0.20%	0.19%	0.12%	0.00%	0.26%	0.23%
Total Rate	4.27%	2.92%	7.79%	1.19%	14.44%	15.73%	0.23%
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)	11.50%	N/A	13.50%	7.50%	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	25.0 years	16.5 years	25.0 years	14.4 years	21.5 years	25.0 years
Number of annuitants	1	5	9	2	688	95	2
Number of active contributing members	12	16	14	10	1,001	73	1
Number of inactive members	10	16	19	15	404	108	0
Average age of contributing members	41.1 years	39.6 years	45.3 years	41.7 years	43.5 years	42.8 years	48.5 years
Average length of service of contributing members	10.3 years	6.8 years	7.6 years	4.4 years	13.7 years	10.5 years	1.3 years

	Richmond	Richwood	Riesel	Rio Grande City	Rio Vista	Rising Star	River Oaks
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$20,932,192	\$1,018,643	\$319,798	\$6,681,662	\$55,162	\$31,190	\$5,211,381
b. Noncontributing Members	3,932,100	336,606	69,813	1,651,029	291,087	104,341	1,314,360
c. Annuitants	17,643,131	2,629,302	60,094	1,390,470	157,755	18,307	6,582,610
2. Total Actuarial Accrued Liability	\$42,507,423	\$3,984,551	\$449,705	\$9,723,161	\$504,004	\$153,838	\$13,108,351
3. Actuarial value of assets	37,511,323	3,391,683	287,346	8,490,216	454,302	233,062	11,825,613
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$4,996,100	\$592,868	\$162,359	\$1,232,945	\$49,702	(\$79,224)	\$1,282,738
5. Funded Ratio: (3) / (2)	88.2%	85.1%	63.9%	87.3%	90.1%	151.5%	90.2%
6. Annual Payroll	\$8,519,930	\$1,262,811	\$339,300	\$5,677,963	\$302,494	\$235,021	\$2,471,491
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.37%	7.96%	1.21%	5.73%	2.47%	1.96%	9.96%
Prior Service	4.30%	3.09%	4.77%	1.30%	1.30%	-1.96%	3.80%
Total Retirement	14.67%	11.05%	5.98%	7.03%	3.77%	0.00%	13.76%
Supplemental Death	0.16%	0.13%	0.15%	0.14%	0.11%	0.27%	0.28%
Total Rate	14.83%	11.18%	6.13%	7.17%	3.88%	0.27%	14.04%
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	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	19.1 years	22.4 years	12.6 years	26.1 years	17.2 years	25.0 years	19.2 years
Number of annuitants	72	18	2	15	2	1	49
Number of active contributing members	149	23	8	156	7	7	56
Number of inactive members	97	16	6	81	8	17	44
Average age of contributing members	42.4 years	40.5 years	40.7 years	42.7 years	39.8 years	45.2 years	44.9 years
Average length of service of contributing members	11.5 years	6.9 years	8.8 years	6.9 years	5.2 years	6.1 years	9.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Roanoke	Robert Lee	Robinson	Robstown	Robstown Utility Systems	Roby	Rockdale
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$27,297,076	\$17,360	\$8,661,901	\$7,407,555	\$7,630,495	\$100,805	\$3,344,726
b. Noncontributing Members	5,256,794	9,551	1,246,457	2,346,081	1,159,762	133,230	586,036
c. Annuitants	<u>3,226,748</u>	<u>173,147</u>	<u>2,772,188</u>	<u>6,439,353</u>	<u>6,127,651</u>	<u>447,442</u>	<u>1,316,321</u>
2. Total Actuarial Accrued Liability	\$35,780,618	\$200,058	\$12,680,546	\$16,192,989	\$14,917,908	\$681,477	\$5,247,083
3. Actuarial value of assets	<u>27,850,011</u>	<u>139,221</u>	<u>9,703,163</u>	<u>14,966,554</u>	<u>12,642,405</u>	<u>727,916</u>	<u>4,531,371</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$7,930,607	\$60,837	\$2,977,383	\$1,226,435	\$2,275,503	(\$46,439)	\$715,712
5. Funded Ratio: (3) / (2)	77.8%	69.6%	76.5%	92.4%	84.7%	106.8%	86.4%
6. Annual Payroll	\$10,144,220	\$140,281	\$3,337,957	\$5,705,493	\$2,311,840	\$68,173	\$1,902,491
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	12.77%	1.10%	8.50%	4.39%	5.00%	6.37%	7.05%
Prior Service	<u>4.68%</u>	<u>4.30%</u>	<u>5.35%</u>	<u>1.74%</u>	<u>7.76%</u>	<u>-4.56%</u>	<u>2.25%</u>
Total Retirement	17.45%	5.40%	13.85%	6.13%	12.76%	1.81%	9.30%
Supplemental Death	<u>0.00%</u>	<u>0.28%</u>	<u>0.19%</u>	<u>0.14%</u>	<u>0.33%</u>	<u>0.57%</u>	<u>0.35%</u>
Total Rate	17.45%	5.68%	14.04%	6.27%	13.09%	2.38%	9.65%
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)	N/A	N/A	N/A	9.50%	N/A	N/A	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.1 years	13.7 years	26.0 years	16.6 years	17.2 years	25.0 years	26.1 years
Number of annuitants	22	3	19	50	38	4	22
Number of active contributing members	125	2	69	108	41	2	46
Number of inactive members	67	5	35	72	50	3	33
Average age of contributing members	42.8 years	36.0 years	43.6 years	40.0 years	44.6 years	44.2 years	49.3 years
Average length of service of contributing members	12.8 years	4.0 years	11.5 years	8.1 years	14.9 years	10.4 years	9.9 years

	Rockport	Rocksprings	Rockwall	Rogers	Rollingwood	Roma	Roscoe
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$15,017,385	\$75,296	\$56,604,751	\$227,743	\$792,501	\$8,536,533	\$380,059
b. Noncontributing Members	2,451,117	9,815	7,080,819	192,237	399,298	817,116	52,129
c. Annuitants	<u>14,270,007</u>	<u>298,410</u>	<u>24,861,304</u>	<u>489,737</u>	<u>1,050,569</u>	<u>3,733,860</u>	<u>85,608</u>
2. Total Actuarial Accrued Liability	\$31,738,509	\$383,521	\$88,546,874	\$909,717	\$2,242,368	\$13,087,509	\$517,796
3. Actuarial value of assets	<u>25,783,700</u>	<u>435,432</u>	<u>75,626,658</u>	<u>764,099</u>	<u>2,123,628</u>	<u>11,177,232</u>	<u>514,727</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$5,954,809	(\$51,911)	\$12,920,216	\$145,618	\$118,740	\$1,910,277	\$3,069
5. Funded Ratio: (3) / (2)	81.2%	113.5%	85.4%	84.0%	94.7%	85.4%	99.4%
6. Annual Payroll	\$6,945,411	\$230,686	\$19,704,460	\$358,955	\$967,807	\$4,158,864	\$299,928
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	11.87%	1.90%	11.83%	5.32%	7.21%	6.72%	2.02%
Prior Service	<u>5.58%</u>	<u>-1.38%</u>	<u>3.93%</u>	<u>3.20%</u>	<u>0.96%</u>	<u>3.94%</u>	<u>0.12%</u>
Total Retirement	17.45%	0.52%	15.76%	8.52%	8.17%	10.66%	2.14%
Supplemental Death	<u>0.24%</u>	<u>0.00%</u>	<u>0.15%</u>	<u>0.00%</u>	<u>0.21%</u>	<u>0.24%</u>	<u>0.39%</u>
Total Rate	17.69%	0.52%	15.91%	8.52%	8.38%	10.90%	2.53%
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%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	22.8 years	25.0 years	26.0 years	17.3 years	17.5 years	15.4 years	11.0 years
Number of annuitants	69	2	92	6	8	45	2
Number of active contributing members	113	7	271	9	14	136	7
Number of inactive members	78	9	90	13	15	77	3
Average age of contributing members	45.2 years	36.8 years	43.9 years	38.5 years	43.7 years	45.0 years	55.6 years
Average length of service of contributing members	10.3 years	3.2 years	13.5 years	6.6 years	7.7 years	9.8 years	11.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Rosebud	Rosenberg	Rotan	Round Rock	Rowlett	Royse City	Rule
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$133,917	\$29,648,036	\$320,233	\$166,009,553	\$60,679,570	\$5,446,845	\$107,885
b. Noncontributing Members	39,732	9,906,154	93,501	17,468,196	19,599,237	1,207,637	70,036
c. Annuitants	58,148	29,654,066	5,530	77,411,991	44,422,703	1,851,255	145,023
2. Total Actuarial Accrued Liability	\$231,797	\$69,208,256	\$419,264	\$260,889,740	\$124,701,510	\$8,505,737	\$322,944
3. Actuarial value of assets	239,940	58,561,811	568,924	219,738,526	111,278,575	6,528,644	301,909
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$8,143)	\$10,646,445	(\$149,660)	\$41,151,214	\$13,422,935	\$1,977,093	\$21,035
5. Funded Ratio: (3) / (2)	103.5%	84.6%	135.7%	84.2%	89.2%	76.8%	93.5%
6. Annual Payroll	\$419,331	\$15,480,751	\$261,605	\$60,020,497	\$25,063,342	\$3,462,082	\$101,364
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	2.02%	8.31%	1.34%	10.77%	9.42%	12.45%	5.23%
Prior Service	-0.12%	4.56%	-1.34%	4.56%	3.40%	3.53%	3.65%
Total Retirement	1.90%	12.87%	0.00%	15.33%	12.82%	15.98%	8.88%
Supplemental Death	0.31%	0.12%	0.26%	0.14%	0.00%	0.17%	0.20%
Total Rate	2.21%	12.99%	0.26%	15.47%	12.82%	16.15%	9.08%
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	N/A	N/A	N/A	N/A	11.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	22.2 years	25.0 years	22.1 years	23.7 years	24.7 years	6.5 years
Number of annuitants	6	150	1	299	216	20	1
Number of active contributing members	11	254	6	927	381	63	3
Number of inactive members	10	165	5	381	252	36	4
Average age of contributing members	49.5 years	39.1 years	47.2 years	41.9 years	41.4 years	41.1 years	54.4 years
Average length of service of contributing members	5.9 years	9.5 years	10.6 years	10.9 years	10.3 years	8.0 years	11.5 years

	Runaway Bay	Runge	Rusk	Sabinal	Sachse	Saginaw	Saint Jo
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$95,178	\$592,504	\$2,709,900	\$517,498	\$14,778,947	\$23,145,519	\$64,222
b. Noncontributing Members	197,168	69,872	280,739	62,370	5,916,279	2,228,078	93,750
c. Annuitants	305,448	39,182	1,014,663	466,573	9,956,718	12,077,689	404,629
2. Total Actuarial Accrued Liability	\$597,794	\$701,558	\$4,005,302	\$1,046,441	\$30,651,944	\$37,451,286	\$562,601
3. Actuarial value of assets	742,603	536,174	4,000,020	1,056,930	25,219,248	28,208,109	619,411
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$144,809)	\$165,384	\$5,282	(\$10,489)	\$5,432,696	\$9,243,177	(\$56,810)
5. Funded Ratio: (3) / (2)	124.2%	76.4%	99.9%	101.0%	82.3%	75.3%	110.1%
6. Annual Payroll	\$555,183	\$124,198	\$1,772,544	\$441,485	\$8,961,879	\$8,435,849	\$271,107
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	3.53%	4.63%	6.56%	3.27%	11.13%	9.63%	6.42%
Prior Service	-1.75%	14.22%	0.02%	-0.15%	3.66%	7.51%	-1.29%
Total Retirement	1.78%	18.85%	6.58%	3.12%	14.79%	17.14%	5.13%
Supplemental Death	0.22%	0.71%	0.19%	0.36%	0.15%	0.18%	0.30%
Total Rate	2.00%	19.56%	6.77%	3.48%	14.94%	17.32%	5.43%
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)	9.50%	N/A	10.50%	9.50%	N/A	N/A	10.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	12.1 years	24.0 years	25.0 years	25.7 years	21.1 years	25.0 years
Number of annuitants	10	1	15	7	71	53	6
Number of active contributing members	15	4	40	13	142	141	6
Number of inactive members	26	3	14	31	137	80	13
Average age of contributing members	45.1 years	66.0 years	45.5 years	46.9 years	42.0 years	43.5 years	40.4 years
Average length of service of contributing members	3.0 years	16.6 years	12.4 years	8.7 years	9.4 years	12.8 years	2.1 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Salado	San Angelo	San Antonio	San Antonio Water System	San Augustine	San Benito	San Felipe
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$82,392	\$96,454,997	\$775,452,498	\$94,269,133	\$2,603,504	\$6,081,261	\$178,318
b. Noncontributing Members	275,473	12,821,004	127,777,674	17,468,471	771,863	1,727,732	12,811
c. Annuitants	160,572	125,207,572	740,444,735	96,654,088	1,623,450	5,190,456	134,599
2. Total Actuarial Accrued Liability	\$518,437	\$234,483,573	\$1,643,674,907	\$208,391,692	\$4,998,817	\$12,999,449	\$325,728
3. Actuarial value of assets	610,455	190,748,768	1,430,078,727	184,877,600	4,849,244	11,515,094	277,272
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$92,018)	\$43,734,805	\$213,596,180	\$23,514,092	\$149,573	\$1,484,355	\$48,456
5. Funded Ratio: (3) / (2)	117.7%	81.3%	87.0%	88.7%	97.0%	88.6%	85.1%
6. Annual Payroll	\$491,464	\$35,769,917	\$377,852,748	\$107,491,867	\$1,149,872	\$5,864,759	\$188,561
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	7.40%	8.49%	6.81%	2.06%	7.51%	3.80%	1.79%
Prior Service	-1.15%	8.97%	4.56%	1.54%	0.83%	1.71%	2.67%
Total Retirement	6.25%	17.46%	11.37%	3.60%	8.34%	5.51%	4.46%
Supplemental Death	0.20%	0.00%	0.00%	0.00%	0.24%	0.21%	0.19%
Total Rate	6.45%	17.46%	11.37%	3.60%	8.58%	5.72%	4.65%
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)	N/A	N/A	N/A	5.50%	13.50%	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	19.5 years	16.7 years	20.2 years	23.6 years	21.5 years	12.0 years
Number of annuitants	5	611	4,671	1,223	20	86	3
Number of active contributing members	10	718	6,939	1,698	29	159	4
Number of inactive members	14	313	2,777	653	20	106	3
Average age of contributing members	43.4 years	43.4 years	45.2 years	45.0 years	47.7 years	43.3 years	47.6 years
Average length of service of contributing members	9.5 years	10.2 years	10.8 years	13.3 years	7.4 years	9.0 years	13.8 years

	San Juan	San Marcos	San Saba	Sanger	Sansom Park	Santa Fe	Savoy
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$7,372,826	\$114,144,943	\$2,984,814	\$6,235,320	\$598,413	\$6,130,603	\$55,821
b. Noncontributing Members	2,366,260	15,992,327	282,831	852,605	959,169	2,024,389	112,722
c. Annuitants	2,303,628	77,704,811	2,841,292	2,406,548	465,281	4,786,685	61,062
2. Total Actuarial Accrued Liability	\$12,042,714	\$207,842,081	\$6,108,937	\$9,494,473	\$2,022,863	\$12,941,677	\$229,605
3. Actuarial value of assets	12,363,779	168,804,431	5,433,379	8,469,489	2,201,739	10,468,137	311,540
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$321,065)	\$39,037,650	\$675,558	\$1,024,984	(\$178,876)	\$2,473,540	(\$81,935)
5. Funded Ratio: (3) / (2)	102.7%	81.2%	88.9%	89.2%	108.8%	80.9%	135.7%
6. Annual Payroll	\$8,050,345	\$40,991,557	\$1,874,809	\$3,695,504	\$1,278,409	\$3,349,663	\$99,433
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	2.79%	10.38%	6.15%	6.23%	7.01%	6.73%	4.57%
Prior Service	-0.24%	6.96%	2.16%	1.68%	-0.86%	4.89%	-4.57%
Total Retirement	2.55%	17.34%	8.31%	7.91%	6.15%	11.62%	0.00%
Supplemental Death	0.17%	0.15%	0.28%	0.14%	0.14%	0.00%	0.30%
Total Rate	2.72%	17.49%	8.59%	8.05%	6.29%	11.62%	0.30%
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)	10.50%	N/A	10.50%	12.50%	11.50%	N/A	10.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	19.2 years	26.0 years	25.6 years	25.0 years	22.2 years	25.0 years
Number of annuitants	52	288	23	18	12	25	3
Number of active contributing members	211	631	46	65	33	62	2
Number of inactive members	117	259	14	27	88	60	10
Average age of contributing members	42.5 years	42.3 years	43.5 years	42.9 years	39.1 years	43.0 years	52.6 years
Average length of service of contributing members	9.1 years	10.4 years	8.4 years	11.9 years	4.8 years	9.5 years	6.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Schertz	Schulenburg	Seabrook	Seadrift	Seagoville	Seagraves	Sealy
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$39,223,373	\$5,747,579	\$16,789,185	\$537,872	\$11,593,012	\$214,810	\$7,180,722
b. Noncontributing Members	6,707,017	1,109,931	1,784,860	101,888	1,642,895	133,722	3,841,756
c. Annuitants	20,123,959	7,102,451	16,965,196	53,238	4,830,701	1,648,409	4,417,697
2. Total Actuarial Accrued Liability	\$66,054,349	\$13,959,961	\$35,539,241	\$692,998	\$18,066,608	\$1,996,941	\$15,440,175
3. Actuarial value of assets	49,347,226	11,522,636	30,827,921	570,348	15,785,538	1,741,667	13,074,581
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$16,707,123	\$2,437,325	\$4,711,320	\$122,650	\$2,281,070	\$255,274	\$2,365,594
5. Funded Ratio: (3) / (2)	74.7%	82.5%	86.7%	82.3%	87.4%	87.2%	84.7%
6. Annual Payroll	\$17,970,056	\$1,790,706	\$6,445,494	\$505,670	\$4,828,808	\$704,982	\$3,181,428
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.47%	9.84%	9.62%	1.33%	7.71%	7.85%	10.12%
Prior Service	5.57%	11.59%	5.95%	2.76%	3.15%	2.17%	4.45%
Total Retirement	16.04%	21.43%	15.57%	4.09%	10.86%	10.02%	14.57%
Supplemental Death	0.12%	0.26%	0.15%	0.17%	0.20%	0.51%	0.15%
Total Rate	16.16%	21.69%	15.72%	4.26%	11.06%	10.53%	14.72%
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%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.0 years	16.0 years	16.5 years	10.7 years	21.9 years	26.0 years	26.0 years
Number of annuitants	98	26	69	3	52	15	23
Number of active contributing members	322	37	94	13	96	16	55
Number of inactive members	166	19	36	3	64	30	49
Average age of contributing members	41.1 years	47.1 years	43.1 years	44.3 years	43.4 years	50.2 years	40.5 years
Average length of service of contributing members	9.5 years	12.4 years	11.7 years	9.4 years	11.4 years	4.0 years	8.9 years

	Seguin	Selma	Seminole	Seven Points	Seymour	Shady Shores	Shallowater
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$44,193,289	\$11,730,384	\$6,641,299	\$200,349	\$1,471,959	\$49,681	\$520,843
b. Noncontributing Members	6,336,390	1,951,883	2,240,563	124,088	275,689	0	518,263
c. Annuitants	40,373,409	5,217,861	7,711,712	481,598	2,654,692	0	224,035
2. Total Actuarial Accrued Liability	\$90,903,088	\$18,900,128	\$16,593,574	\$806,035	\$4,402,340	\$49,681	\$1,263,141
3. Actuarial value of assets	73,996,250	15,582,992	14,681,771	1,470,113	3,946,770	41,662	1,374,267
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$16,906,838	\$3,317,136	\$1,911,803	(\$664,078)	\$455,570	\$8,019	(\$111,126)
5. Funded Ratio: (3) / (2)	81.4%	82.4%	88.5%	182.4%	89.7%	83.9%	108.8%
6. Annual Payroll	\$20,920,627	\$5,667,089	\$3,044,744	\$637,130	\$1,240,760	\$111,624	\$613,057
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	8.11%	11.17%	8.52%	9.00%	3.54%	7.77%	3.53%
Prior Service	7.13%	3.49%	4.37%	-6.40%	3.49%	1.49%	-1.11%
Total Retirement	15.24%	14.66%	12.89%	2.60%	7.03%	9.26%	2.42%
Supplemental Death	0.19%	0.13%	0.23%	0.18%	0.35%	0.07%	0.14%
Total Rate	15.43%	14.79%	13.12%	2.78%	7.38%	9.33%	2.56%
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%	8.50%	N/A	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	14.8 years	26.2 years	20.6 years	25.0 years	14.3 years	5.4 years	25.0 years
Number of annuitants	229	19	31	7	26	0	5
Number of active contributing members	381	91	58	19	39	2	15
Number of inactive members	171	36	44	24	19	0	8
Average age of contributing members	41.5 years	39.7 years	41.6 years	42.6 years	46.4 years	45.7 years	43.3 years
Average length of service of contributing members	9.5 years	9.9 years	7.8 years	2.5 years	7.9 years	9.5 years	8.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Shamrock	Shavano Park	Shenandoah	Shepherd	Sherman	Shiner	Shoreacres
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$873,198	\$4,117,517	\$4,677,525	\$385,063	\$64,184,889	\$1,607,964	\$453,615
b. Noncontributing Members	3,792	2,192,334	4,232,724	75,357	9,443,682	463,240	704,948
c. Annuitants	1,559,194	1,455,353	3,933,056	78,124	68,085,412	2,169,480	550,386
2. Total Actuarial Accrued Liability	\$2,436,184	\$7,765,204	\$12,843,305	\$538,544	\$141,713,983	\$4,240,684	\$1,708,949
3. Actuarial value of assets	1,863,147	6,742,998	9,500,180	662,287	124,028,600	3,591,118	1,873,123
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$573,037	\$1,022,206	\$3,343,125	(\$123,743)	\$17,685,383	\$649,566	(\$164,174)
5. Funded Ratio: (3) / (2)	76.5%	86.8%	74.0%	123.0%	87.5%	84.7%	109.6%
6. Annual Payroll	\$902,544	\$2,702,035	\$3,647,741	\$336,307	\$24,220,288	\$1,257,274	\$716,829
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	3.08%	11.52%	11.46%	4.96%	8.70%	3.47%	6.11%
Prior Service	4.76%	2.30%	5.47%	-2.26%	5.22%	4.24%	-1.43%
Total Retirement	7.84%	13.82%	16.93%	2.70%	13.92%	7.71%	4.68%
Supplemental Death	0.49%	0.13%	0.14%	0.19%	0.20%	0.36%	0.25%
Total Rate	8.33%	13.95%	17.07%	2.89%	14.12%	8.07%	4.93%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	13.62%	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	13.50%	N/A	11.50%	N/A	N/A	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	18.5 years	25.5 years	26.2 years	25.0 years	20.1 years	16.3 years	25.0 years
Number of annuitants	19	27	19	1	317	16	6
Number of active contributing members	22	50	47	11	418	30	13
Number of inactive members	6	81	47	5	151	15	17
Average age of contributing members	50.1 years	41.1 years	41.6 years	50.2 years	42.8 years	48.9 years	50.9 years
Average length of service of contributing members	7.5 years	9.1 years	9.2 years	7.4 years	11.0 years	11.1 years	4.6 years

	Silsbee	Silverton	Sinton	Skellytown	Slaton	Smithville	Smyer
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$7,241,621	\$42,721	\$4,456,726	\$12,497	\$3,836,710	\$3,271,951	\$270,415
b. Noncontributing Members	1,341,449	46,253	1,074,089	76,809	881,763	1,184,093	0
c. Annuitants	9,653,580	710,444	3,589,123	88,006	2,967,509	1,552,926	0
2. Total Actuarial Accrued Liability	\$18,236,650	\$799,418	\$9,119,938	\$177,312	\$7,685,982	\$6,008,970	\$270,415
3. Actuarial value of assets	14,219,374	826,821	7,352,817	238,612	7,648,730	5,356,947	250,762
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$4,017,276	(\$27,403)	\$1,767,121	(\$61,300)	\$37,252	\$652,023	\$19,653
5. Funded Ratio: (3) / (2)	78.0%	103.4%	80.6%	134.6%	99.5%	89.1%	92.7%
6. Annual Payroll	\$3,029,105	\$123,294	\$2,306,128	\$97,618	\$2,007,013	\$2,423,553	\$111,498
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.70%	5.97%	8.29%	4.41%	6.40%	4.93%	6.22%
Prior Service	8.79%	-1.50%	4.58%	-3.86%	0.12%	1.93%	4.17%
Total Retirement	18.49%	4.47%	12.87%	0.55%	6.52%	6.86%	10.39%
Supplemental Death	0.00%	0.20%	0.23%	0.20%	0.27%	0.25%	0.17%
Total Rate	18.49%	4.67%	13.10%	0.75%	6.79%	7.11%	10.56%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	N/A	N/A	N/A	N/A	N/A	10.51%
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	N/A	9.50%	12.50%	9.50%	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	22.2 years	25.0 years	26.1 years	25.0 years	23.7 years	19.7 years	4.7 years
Number of annuitants	49	3	25	2	29	32	0
Number of active contributing members	65	4	54	4	46	62	3
Number of inactive members	27	4	53	8	33	61	0
Average age of contributing members	44.2 years	41.7 years	42.1 years	47.8 years	43.4 years	45.5 years	56.3 years
Average length of service of contributing members	9.7 years	3.6 years	7.8 years	1.0 years	10.2 years	7.5 years	14.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Snyder	Somerset	Somerville	Sonora	Sour Lake	South Houston	South Padre Island
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$13,318,404	\$51,620	\$378,510	\$1,423,988	\$806,111	\$15,035,108	\$17,254,370
b. Noncontributing Members	3,489,789	128,157	247,883	437,754	151,633	1,837,970	4,711,210
c. Annuitants	14,068,773	90,656	515,834	2,572,125	30,220	7,698,607	12,203,041
2. Total Actuarial Accrued Liability	\$30,876,966	\$270,433	\$1,142,227	\$4,433,867	\$987,964	\$24,571,685	\$34,168,621
3. Actuarial value of assets	27,940,273	305,164	1,187,848	4,098,357	1,062,733	22,756,545	31,788,504
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$2,936,693	(\$34,731)	(\$45,621)	\$335,510	(\$74,769)	\$1,815,140	\$2,380,117
5. Funded Ratio: (3) / (2)	90.5%	112.8%	104.0%	92.4%	107.6%	92.6%	93.0%
6. Annual Payroll	\$5,165,755	\$381,736	\$558,724	\$1,247,770	\$633,078	\$5,535,456	\$8,534,662
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.90%	2.94%	5.71%	6.68%	6.42%	6.43%	11.14%
Prior Service	3.77%	-0.35%	-0.50%	1.61%	-0.73%	3.57%	1.67%
Total Retirement	13.67%	2.59%	5.21%	8.29%	5.69%	10.00%	12.81%
Supplemental Death	0.23%	0.22%	0.48%	0.28%	0.37%	0.25%	0.16%
Total Rate	13.90%	2.81%	5.69%	8.57%	6.06%	10.25%	12.97%
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	9.50%	9.50%	N/A	13.50%	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	22.1 years	25.0 years	25.0 years	26.1 years	25.0 years	11.3 years	26.0 years
Number of annuitants	52	4	12	27	2	53	62
Number of active contributing members	86	12	13	31	14	118	171
Number of inactive members	54	31	13	26	32	61	89
Average age of contributing members	43.6 years	40.8 years	53.4 years	45.0 years	46.8 years	47.1 years	43.3 years
Average length of service of contributing members	10.1 years	1.4 years	9.1 years	8.5 years	11.3 years	12.1 years	9.1 years

	Southlake	Southmayd	Southside Place	Spearman	Splendora	Spring Valley Village	Springtown
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$53,645,042	\$56,369	\$2,757,241	\$1,828,099	\$552,520	\$3,058,935	\$1,841,963
b. Noncontributing Members	16,518,221	5,267	438,866	535,460	0	1,403,819	1,268,045
c. Annuitants	23,638,897	69,587	2,162,493	3,515,486	0	6,468,331	1,256,741
2. Total Actuarial Accrued Liability	\$93,802,160	\$131,223	\$5,358,600	\$5,879,045	\$552,520	\$10,931,085	\$4,366,749
3. Actuarial value of assets	83,202,098	50,883	4,505,259	5,438,654	35,795	10,562,010	4,675,740
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$10,600,062	\$80,340	\$853,341	\$440,391	\$516,725	\$369,075	(\$308,991)
5. Funded Ratio: (3) / (2)	88.7%	38.8%	84.1%	92.5%	6.5%	96.6%	107.1%
6. Annual Payroll	\$22,447,206	\$259,852	\$1,495,537	\$1,080,354	\$1,206,343	\$2,672,145	\$1,614,984
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.53%	1.59%	8.39%	8.94%	2.56%	6.07%	10.31%
Prior Service	2.82%	4.04%	3.41%	2.44%	2.63%	0.82%	-1.17%
Total Retirement	12.35%	5.63%	11.80%	11.38%	5.19%	6.89%	9.14%
Supplemental Death	0.14%	0.09%	0.20%	0.26%	0.17%	0.16%	0.17%
Total Rate	12.49%	5.72%	12.00%	11.64%	5.36%	7.05%	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)	13.50%	N/A	N/A	13.50%	N/A	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.1 years	9.1 years	26.2 years	26.1 years	25.0 years	26.2 years	25.0 years
Number of annuitants	114	1	14	21	0	31	20
Number of active contributing members	321	7	23	24	24	38	40
Number of inactive members	190	1	13	31	0	25	49
Average age of contributing members	41.9 years	39.0 years	46.2 years	46.1 years	42.4 years	42.6 years	42.1 years
Average length of service of contributing members	11.8 years	4.1 years	10.2 years	7.1 years	4.4 years	11.8 years	7.1 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Spur	Stafford	Stamford	Stanton	Star Harbor	Stephenville	Sterling City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$346,233	\$17,808,828	\$1,343,024	\$1,888,579	\$358,249	\$17,570,959	\$315,392
b. Noncontributing Members	114,465	4,191,115	369,680	265,796	60,556	4,100,478	29,103
c. Annuitants	<u>375,861</u>	<u>18,689,692</u>	<u>1,576,114</u>	<u>1,226,346</u>	<u>424,020</u>	<u>16,222,352</u>	<u>178,426</u>
2. Total Actuarial Accrued Liability	\$836,559	\$40,689,635	\$3,288,818	\$3,380,721	\$842,825	\$37,893,789	\$522,921
3. Actuarial value of assets	<u>786,344</u>	<u>36,183,289</u>	<u>3,359,010</u>	<u>2,984,727</u>	<u>797,801</u>	<u>39,315,701</u>	<u>524,457</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$50,215	\$4,506,346	(\$70,192)	\$395,994	\$45,024	(\$1,421,912)	(\$1,536)
5. Funded Ratio: (3) / (2)	94.0%	88.9%	102.1%	88.3%	94.7%	103.8%	100.3%
6. Annual Payroll	\$321,107	\$9,929,633	\$877,701	\$1,171,483	\$156,646	\$8,431,466	\$288,565
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	2.56%	11.53%	5.75%	4.60%	7.92%	7.40%	1.23%
Prior Service	<u>2.10%</u>	<u>2.91%</u>	<u>-0.49%</u>	<u>3.15%</u>	<u>2.56%</u>	<u>-1.04%</u>	<u>-0.03%</u>
Total Retirement	4.66%	14.44%	5.26%	7.75%	10.48%	6.36%	1.20%
Supplemental Death	<u>0.24%</u>	<u>0.18%</u>	<u>0.47%</u>	<u>0.21%</u>	<u>0.47%</u>	<u>0.20%</u>	<u>0.00%</u>
Total Rate	4.90%	14.62%	5.73%	7.96%	10.95%	6.56%	1.20%
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	9.50%	9.50%	N/A	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	8.9 years	23.4 years	25.0 years	13.8 years	14.7 years	25.0 years	25.0 years
Number of annuitants	3	77	23	7	6	89	3
Number of active contributing members	10	173	22	18	4	156	7
Number of inactive members	9	74	26	8	9	96	4
Average age of contributing members	50.9 years	42.8 years	49.4 years	46.1 years	52.3 years	42.5 years	45.8 years
Average length of service of contributing members	10.0 years	8.5 years	10.2 years	11.1 years	13.0 years	10.7 years	11.8 years

	Stinnett	Stockdale	Stratford	Sudan	Sugar Land	Sulphur Springs	Sundown
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$660,984	\$158,878	\$404,024	\$481,458	\$152,849,364	\$20,462,763	\$1,233,451
b. Noncontributing Members	389,361	1,256	100,741	2,545	23,988,981	2,487,963	917,933
c. Annuitants	<u>814,503</u>	<u>39,756</u>	<u>672,183</u>	<u>141,130</u>	<u>58,149,649</u>	<u>16,412,360</u>	<u>1,005,006</u>
2. Total Actuarial Accrued Liability	\$1,864,848	\$199,890	\$1,176,948	\$625,133	\$234,987,994	\$39,363,086	\$3,156,390
3. Actuarial value of assets	<u>2,209,140</u>	<u>127,117</u>	<u>1,091,432</u>	<u>697,898</u>	<u>205,257,503</u>	<u>37,611,504</u>	<u>2,788,574</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$344,292)	\$72,773	\$85,516	(\$72,765)	\$29,730,491	\$1,751,582	\$367,816
5. Funded Ratio: (3) / (2)	118.5%	63.6%	92.7%	111.6%	87.3%	95.6%	88.3%
6. Annual Payroll	\$703,938	\$365,083	\$680,816	\$319,244	\$52,369,512	\$8,268,475	\$555,680
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	2.71%	1.92%	5.54%	1.37%	11.08%	5.17%	6.92%
Prior Service	<u>-2.71%</u>	<u>2.56%</u>	<u>0.77%</u>	<u>-0.42%</u>	<u>3.70%</u>	<u>2.14%</u>	<u>4.31%</u>
Total Retirement	0.00%	4.48%	6.31%	0.95%	14.78%	7.31%	11.23%
Supplemental Death	<u>0.21%</u>	<u>0.35%</u>	<u>0.29%</u>	<u>0.00%</u>	<u>0.15%</u>	<u>0.24%</u>	<u>0.20%</u>
Total Rate	0.21%	4.83%	6.60%	0.95%	14.93%	7.55%	11.43%
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)	9.50%	N/A	N/A	7.50%	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	9.3 years	25.3 years	25.0 years	22.8 years	12.5 years	22.8 years
Number of annuitants	9	1	12	2	206	112	13
Number of active contributing members	17	8	13	8	757	143	13
Number of inactive members	13	1	19	1	274	65	12
Average age of contributing members	43.8 years	49.9 years	41.8 years	46.3 years	42.2 years	45.3 years	46.4 years
Average length of service of contributing members	5.7 years	12.2 years	5.8 years	13.5 years	11.5 years	12.8 years	9.5 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Sunnyvale	Sunray	Sunrise Beach Village	Sunset Valley	Surfside Beach	Sweeny	Sweetwater
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$1,849,548	\$1,061,018	\$135,205	\$3,452,587	\$347,222	\$1,365,738	\$16,136,527
b. Noncontributing Members	1,376,981	233,255	40,850	1,415,230	145,345	535,972	1,109,973
c. Annuitants	2,415,767	1,305,873	123,843	1,271,296	38,688	3,623,183	15,032,141
2. Total Actuarial Accrued Liability	\$5,642,296	\$2,600,146	\$299,898	\$6,139,113	\$531,255	\$5,524,893	\$32,278,641
3. Actuarial value of assets	4,871,105	2,133,564	311,747	5,422,581	655,044	4,377,595	26,338,146
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$771,191	\$466,582	(\$11,849)	\$716,532	(\$123,789)	\$1,147,298	\$5,940,495
5. Funded Ratio: (3) / (2)	86.3%	82.1%	104.0%	88.3%	123.3%	79.2%	81.6%
6. Annual Payroll	\$2,144,241	\$619,134	\$492,551	\$1,864,639	\$742,061	\$1,043,334	\$5,549,451
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.48%	12.96%	1.43%	9.89%	2.38%	9.96%	9.55%
Prior Service	2.15%	5.55%	-0.15%	2.30%	-1.02%	7.24%	8.10%
Total Retirement	11.63%	18.51%	1.28%	12.19%	1.36%	17.20%	17.65%
Supplemental Death	0.25%	0.20%	0.13%	0.12%	0.23%	0.31%	0.26%
Total Rate	11.88%	18.71%	1.41%	12.31%	1.59%	17.51%	17.91%
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	7.50%	13.50%	9.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.1 years	19.0 years	25.0 years	26.1 years	25.0 years	22.4 years	18.3 years
Number of annuitants	16	9	3	7	1	19	78
Number of active contributing members	39	13	10	29	22	23	108
Number of inactive members	33	11	11	22	27	16	33
Average age of contributing members	44.2 years	40.9 years	41.3 years	40.1 years	46.0 years	42.3 years	46.2 years
Average length of service of contributing members	7.6 years	9.0 years	6.8 years	9.2 years	5.3 years	7.1 years	12.2 years

	TMRS	Taft	Tahoka	Talty	Tatum	Taylor	Teague
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$27,297,124	\$1,407,347	\$1,195,114	\$109,273	\$198,743	\$12,878,981	\$500,914
b. Noncontributing Members	3,503,030	600,201	81,131	0	87,726	4,805,587	635,276
c. Annuitants	14,468,623	1,376,639	1,142,603	0	78,673	12,554,635	1,732,012
2. Total Actuarial Accrued Liability	\$45,268,777	\$3,384,187	\$2,418,848	\$109,273	\$365,142	\$30,239,203	\$2,868,202
3. Actuarial value of assets	37,475,973	2,637,580	2,762,538	22,454	347,091	24,930,901	2,813,561
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$7,792,804	\$746,607	(\$343,690)	\$86,819	\$18,051	\$5,308,302	\$54,641
5. Funded Ratio: (3) / (2)	82.8%	77.9%	114.2%	20.5%	95.1%	82.4%	98.1%
6. Annual Payroll	\$10,782,366	\$981,403	\$715,127	\$180,479	\$351,360	\$7,405,994	\$878,877
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	11.18%	12.27%	4.15%	2.77%	1.38%	7.59%	8.85%
Prior Service	4.77%	4.64%	-2.74%	5.37%	0.41%	4.29%	0.38%
Total Retirement	15.95%	16.91%	1.41%	8.14%	1.79%	11.88%	9.23%
Supplemental Death	0.17%	0.36%	0.30%	0.44%	0.15%	0.24%	0.33%
Total Rate	16.12%	17.27%	1.71%	8.58%	1.94%	12.12%	9.56%
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death	N/A	17.25%	N/A	N/A	N/A	N/A	N/A
Statutory Maximum Rate (Total Retirement Only)	N/A	N/A	11.50%	N/A	7.50%	N/A	13.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	22.3 years	25.3 years	25.0 years	11.0 years	17.0 years	26.0 years	25.2 years
Number of annuitants	35	13	11	0	4	90	25
Number of active contributing members	107	24	19	6	10	148	20
Number of inactive members	28	90	5	0	13	131	36
Average age of contributing members	47.3 years	47.7 years	47.1 years	56.9 years	41.6 years	43.3 years	38.2 years
Average length of service of contributing members	11.1 years	9.1 years	9.4 years	13.7 years	5.5 years	9.3 years	4.8 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Temple	Tenaha	Terrell	Terrell Hills	Tex Municipal League IEBP	Tex Municipal League IRP	Texarkana
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$90,312,438	\$53,925	\$30,351,573	\$4,855,463	\$21,966,073	\$98,979,446	\$20,753,687
b. Noncontributing Members	14,079,980	20,577	2,417,154	2,234,030	4,790,921	11,740,706	5,974,102
c. Annuitants	90,068,104	239,892	23,064,249	5,945,767	4,676,001	32,813,110	28,313,873
2. Total Actuarial Accrued Liability	\$194,460,522	\$314,394	\$55,832,976	\$13,035,260	\$31,432,995	\$143,533,262	\$55,041,662
3. Actuarial value of assets	162,957,405	375,501	48,042,961	11,382,274	29,677,278	142,622,279	46,966,910
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$31,503,117	(\$61,107)	\$7,790,015	\$1,652,986	\$1,755,717	\$910,983	\$8,074,752
5. Funded Ratio: (3) / (2)	83.8%	119.4%	86.0%	87.3%	94.4%	99.4%	85.3%
6. Annual Payroll	\$32,939,866	\$325,772	\$10,371,028	\$2,679,017	\$10,850,819	\$25,194,457	\$8,697,189
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.10%	1.25%	10.68%	8.39%	4.38%	10.13%	9.61%
Prior Service	6.33%	-1.15%	5.00%	3.71%	1.53%	0.26%	6.42%
Total Retirement	16.43%	0.10%	15.68%	12.10%	5.91%	10.39%	16.03%
Supplemental Death	0.20%	0.19%	0.21%	0.20%	0.22%	0.21%	0.00%
Total Rate	16.63%	0.29%	15.89%	12.30%	6.13%	10.60%	16.03%
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)	N/A	7.50%	N/A	N/A	12.50%	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	22.2 years	25.0 years	22.0 years	25.9 years	14.7 years	19.5 years	22.2 years
Number of annuitants	395	6	122	30	24	74	180
Number of active contributing members	677	7	176	49	137	245	210
Number of inactive members	381	3	55	46	71	43	102
Average age of contributing members	43.6 years	39.3 years	45.0 years	39.5 years	49.2 years	48.7 years	46.7 years
Average length of service of contributing members	10.4 years	3.0 years	11.5 years	8.4 years	10.7 years	14.4 years	9.8 years

	Texarkana Police Dept	Texarkana Water Utilities	Texas City	Texas Municipal League	The Colony	Thompsons	Thorndale
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$19,969,661	\$20,028,896	\$63,641,020	\$10,680,135	\$47,927,565	\$177,909	\$345,913
b. Noncontributing Members	3,861,469	2,050,049	4,945,775	2,381,432	8,270,213	0	49,874
c. Annuitants	21,713,708	18,372,220	78,224,761	8,855,782	33,866,000	25,511	410,461
2. Total Actuarial Accrued Liability	\$45,544,838	\$40,451,165	\$146,811,556	\$21,917,349	\$90,063,778	\$203,420	\$806,248
3. Actuarial value of assets	40,870,903	34,408,956	127,229,041	18,531,431	78,520,280	182,003	772,846
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$4,673,935	\$6,042,209	\$19,582,515	\$3,385,918	\$11,543,498	\$21,417	\$33,402
5. Funded Ratio: (3) / (2)	89.7%	85.1%	86.7%	84.6%	87.2%	89.5%	95.9%
6. Annual Payroll	\$6,091,626	\$6,932,346	\$22,200,941	\$3,068,049	\$22,109,861	\$128,122	\$296,604
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	10.36%	9.47%	9.69%	7.41%	9.65%	2.03%	6.53%
Prior Service	4.65%	6.60%	6.49%	8.63%	3.36%	2.17%	1.05%
Total Retirement	15.01%	16.07%	16.18%	16.04%	13.01%	4.20%	7.58%
Supplemental Death	0.00%	0.00%	0.00%	0.18%	0.14%	0.20%	0.34%
Total Rate	15.01%	16.07%	16.18%	16.22%	13.15%	4.40%	7.92%
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	N/A	N/A	N/A	N/A	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.0 years	18.3 years	19.0 years	19.0 years	23.3 years	9.2 years	14.0 years
Number of annuitants	69	108	303	26	175	1	7
Number of active contributing members	91	153	399	32	327	3	6
Number of inactive members	31	41	182	17	158	0	5
Average age of contributing members	38.8 years	44.6 years	43.2 years	47.9 years	42.4 years	56.7 years	54.9 years
Average length of service of contributing members	13.4 years	10.7 years	10.9 years	12.9 years	10.5 years	12.8 years	8.4 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Thrall	Three Rivers	Throckmorton	Tiki Island	Timpson	Tioga	Tolar
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$120,730	\$6,192,327	\$51,707	\$335,911	\$759,641	\$301,499	\$216,146
b. Noncontributing Members	8,577	286,997	118,377	170,873	44,194	37,850	133,057
c. Annuitants	0	2,496,744	467,791	104,129	120,212	0	197,761
2. Total Actuarial Accrued Liability	\$129,307	\$8,976,068	\$637,875	\$610,913	\$924,047	\$339,349	\$546,964
3. Actuarial value of assets	80,168	4,976,314	660,925	547,042	952,042	367,045	513,047
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$49,139	\$3,999,754	(\$23,050)	\$63,871	(\$27,995)	(\$27,696)	\$33,917
5. Funded Ratio: (3) / (2)	62.0%	55.4%	103.6%	89.5%	103.0%	108.2%	93.8%
6. Annual Payroll	\$177,475	\$2,040,261	\$135,350	\$464,871	\$419,303	\$360,780	\$226,810
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	3.97%	9.99%	5.61%	2.24%	2.57%	1.93%	7.15%
Prior Service	4.39%	13.37%	-1.05%	1.34%	-0.41%	-0.47%	1.81%
Total Retirement	8.36%	23.36%	4.56%	3.58%	2.16%	1.46%	8.96%
Supplemental Death	0.42%	0.39%	0.25%	0.18%	0.44%	0.12%	0.11%
Total Rate	8.78%	23.75%	4.81%	3.76%	2.60%	1.58%	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)	N/A	N/A	9.50%	N/A	7.50%	9.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	7.3 years	21.2 years	25.0 years	13.0 years	25.0 years	25.0 years	9.9 years
Number of annuitants	0	18	6	1	3	0	2
Number of active contributing members	5	43	4	7	9	10	6
Number of inactive members	2	24	3	7	6	9	9
Average age of contributing members	60.1 years	47.6 years	40.0 years	50.1 years	51.5 years	38.8 years	44.3 years
Average length of service of contributing members	9.6 years	9.7 years	3.7 years	8.1 years	13.8 years	6.9 years	7.0 years

	Tom Bean	Tomball	Trent	Trenton	Trinidad	Trinity	Trophy Club
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$127,033	\$22,767,835	\$201,740	\$101,805	\$266,576	\$769,848	\$6,603,854
b. Noncontributing Members	46,267	4,225,023	0	31,331	45,077	163,388	6,211,716
c. Annuitants	28,344	14,531,566	14,224	178,590	157,616	480,850	5,760,761
2. Total Actuarial Accrued Liability	\$201,644	\$41,524,424	\$215,964	\$311,726	\$469,269	\$1,414,086	\$18,576,331
3. Actuarial value of assets	256,578	34,956,696	204,524	364,737	442,943	1,318,147	16,521,290
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$54,934)	\$6,567,728	\$11,440	(\$53,011)	\$26,326	\$95,939	\$2,055,041
5. Funded Ratio: (3) / (2)	127.2%	84.2%	94.7%	117.0%	94.4%	93.2%	88.9%
6. Annual Payroll	\$280,049	\$10,866,889	\$87,534	\$148,601	\$243,622	\$914,186	\$4,850,431
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	3.62%	9.87%	5.37%	5.03%	2.04%	6.30%	10.43%
Prior Service	-1.20%	3.62%	2.81%	-2.19%	1.20%	0.62%	2.52%
Total Retirement	2.42%	13.49%	8.18%	2.84%	3.24%	6.92%	12.95%
Supplemental Death	0.12%	0.19%	0.48%	0.33%	0.44%	0.34%	0.15%
Total Rate	2.54%	13.68%	8.66%	3.17%	3.68%	7.26%	13.10%
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)	10.50%	N/A	11.50%	9.50%	7.50%	11.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.0 years	26.1 years	5.2 years	25.0 years	11.6 years	26.6 years	26.4 years
Number of annuitants	2	78	1	4	5	8	33
Number of active contributing members	7	166	2	5	5	28	75
Number of inactive members	11	68	0	7	9	35	101
Average age of contributing members	40.7 years	42.0 years	62.7 years	49.2 years	52.0 years	45.0 years	42.3 years
Average length of service of contributing members	6.9 years	10.1 years	21.0 years	8.9 years	11.3 years	4.8 years	10.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Troup	Troy	Tulia	Turkey	Tye	Tyler	Universal City
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$681,078	\$695,329	\$2,813,327	\$56,840	\$502,788	\$109,951,807	\$22,474,095
b. Noncontributing Members	123,882	34,108	1,024,735	4,947	23,175	12,885,651	2,873,226
c. Annuitants	505,164	231,001	5,335,572	204,712	418,611	118,830,115	11,071,168
2. Total Actuarial Accrued Liability	\$1,310,124	\$960,438	\$9,173,634	\$266,499	\$944,574	\$241,667,573	\$36,418,489
3. Actuarial value of assets	1,223,353	820,052	8,774,691	212,183	742,027	186,277,070	26,747,262
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$86,771	\$140,386	\$398,943	\$54,316	\$202,547	\$55,390,503	\$9,671,227
5. Funded Ratio: (3) / (2)	93.4%	85.4%	95.7%	79.6%	78.6%	77.1%	73.4%
6. Annual Payroll	\$828,815	\$645,031	\$1,538,821	\$120,923	\$597,525	\$36,293,323	\$7,557,164
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	4.72%	9.73%	8.39%	2.27%	4.95%	9.23%	10.23%
Prior Service	0.61%	2.10%	2.11%	2.92%	2.30%	11.66%	8.23%
Total Retirement	5.33%	11.83%	10.50%	5.19%	7.25%	20.89%	18.46%
Supplemental Death	0.28%	0.43%	0.24%	0.30%	0.17%	0.23%	0.18%
Total Rate	5.61%	12.26%	10.74%	5.49%	7.42%	21.12%	18.64%
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%	13.50%	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	26.9 years	13.2 years	16.5 years	22.9 years	22.5 years	18.0 years	23.2 years
Number of annuitants	12	9	27	4	6	549	60
Number of active contributing members	21	13	38	3	14	668	130
Number of inactive members	13	5	29	3	7	268	93
Average age of contributing members	42.3 years	53.5 years	42.4 years	50.8 years	46.1 years	44.2 years	42.1 years
Average length of service of contributing members	10.3 years	14.9 years	8.9 years	13.4 years	12.6 years	10.5 years	10.4 years

	University Park	Uvalde	Valley Mills	Valley View	Van	Van Alstyne	Van Horn
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$44,458,727	\$7,231,436	\$27,934	\$53,503	\$1,563,505	\$1,684,856	\$2,130,934
b. Noncontributing Members	5,984,273	2,248,638	26,011	1,764	203,795	1,703,723	224,447
c. Annuitants	42,208,663	7,195,215	0	10,882	580,686	1,110,456	1,794,029
2. Total Actuarial Accrued Liability	\$92,651,663	\$16,675,289	\$53,945	\$66,149	\$2,347,986	\$4,499,035	\$4,149,410
3. Actuarial value of assets	91,011,521	15,197,910	56,258	52,782	2,359,375	3,954,570	3,676,726
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,640,142	\$1,477,379	(\$2,313)	\$13,367	(\$11,389)	\$544,465	\$472,684
5. Funded Ratio: (3) / (2)	98.2%	91.1%	104.3%	79.8%	100.5%	87.9%	88.6%
6. Annual Payroll	\$16,250,619	\$6,756,173	\$322,845	\$265,320	\$929,765	\$1,640,103	\$1,149,451
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	6.02%	4.56%	1.93%	1.33%	7.40%	7.58%	4.63%
Prior Service	1.24%	1.37%	-0.04%	0.84%	-0.08%	2.08%	3.22%
Total Retirement	7.26%	5.93%	1.89%	2.17%	7.32%	9.66%	7.85%
Supplemental Death	0.00%	0.17%	0.12%	0.07%	0.24%	0.14%	0.19%
Total Rate	7.26%	6.10%	2.01%	2.24%	7.56%	9.80%	8.04%
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	9.50%	N/A	N/A	12.50%	12.50%	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	9.8 years	24.1 years	25.0 years	6.9 years	25.0 years	25.9 years	19.2 years
Number of annuitants	153	70	0	1	10	16	15
Number of active contributing members	207	166	7	6	20	31	23
Number of inactive members	47	117	11	3	13	52	12
Average age of contributing members	46.9 years	39.8 years	40.7 years	37.4 years	46.6 years	38.1 years	45.5 years
Average length of service of contributing members	16.2 years	7.5 years	2.9 years	3.3 years	14.0 years	5.4 years	12.2 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Vega	Venus	Vernon	Victoria	Vidor	Village Fire Department	Village of the Hills
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$646,527	\$643,739	\$8,272,341	\$73,854,467	\$8,018,746	\$6,382,798	\$9,714
b. Noncontributing Members	0	241,053	3,216,840	19,949,334	1,502,906	2,918,375	0
c. Annuitants	1,154,906	730,098	9,974,622	102,535,914	9,567,477	9,518,096	0
2. Total Actuarial Accrued Liability	\$1,801,433	\$1,614,890	\$21,463,803	\$196,339,715	\$19,089,129	\$18,819,269	\$9,714
3. Actuarial value of assets	1,477,030	1,601,735	18,724,835	155,632,932	16,836,084	17,879,210	7,130
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$324,403	\$13,155	\$2,738,968	\$40,706,783	\$2,253,045	\$940,059	\$2,584
5. Funded Ratio: (3) / (2)	82.0%	99.2%	87.2%	79.3%	88.2%	95.0%	73.4%
6. Annual Payroll	\$260,243	\$976,778	\$3,900,321	\$31,400,861	\$3,478,310	\$3,593,714	\$82,801
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	11.65%	10.40%	7.03%	7.70%	9.35%	3.65%	5.59%
Prior Service	13.14%	0.13%	4.95%	8.89%	4.89%	2.44%	0.59%
Total Retirement	24.79%	10.53%	11.98%	16.59%	14.24%	6.09%	6.18%
Supplemental Death	0.18%	0.00%	0.30%	0.19%	0.20%	0.13%	0.06%
Total Rate	24.97%	10.53%	12.28%	16.78%	14.44%	6.22%	6.24%
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	13.50%	N/A	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	11.8 years	13.0 years	20.2 years	21.1 years	18.3 years	14.0 years	6.0 years
Number of annuitants	4	10	69	459	46	27	0
Number of active contributing members	5	23	91	579	67	47	1
Number of inactive members	0	13	87	370	37	28	0
Average age of contributing members	48.6 years	39.2 years	42.0 years	40.7 years	46.8 years	39.1 years	44.3 years
Average length of service of contributing members	9.6 years	6.5 years	8.9 years	10.0 years	9.7 years	10.4 years	18.8 years

	Waco	Waelder	Wake Village	Waller	Wallis	Walnut Springs	Waskom
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$244,770,183	\$575,572	\$988,916	\$936,543	\$365,892	\$70,696	\$995,182
b. Noncontributing Members	23,027,911	202,333	409,127	237,673	299,927	0	169,267
c. Annuitants	220,865,730	212,889	2,718,538	1,985,313	422,355	77,230	1,025,883
2. Total Actuarial Accrued Liability	\$488,663,824	\$990,794	\$4,116,581	\$3,159,529	\$1,088,174	\$147,926	\$2,190,332
3. Actuarial value of assets	426,051,218	950,021	3,533,168	3,203,209	1,139,441	140,445	1,818,293
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$62,612,606	\$40,773	\$583,413	(\$43,680)	(\$51,267)	\$7,481	\$372,039
5. Funded Ratio: (3) / (2)	87.2%	95.9%	85.8%	101.4%	104.7%	94.9%	83.0%
6. Annual Payroll	\$81,691,480	\$624,235	\$1,033,420	\$1,574,674	\$593,976	\$88,902	\$780,803
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	7.54%	2.22%	9.74%	4.07%	3.17%	1.52%	3.23%
Prior Service	6.48%	0.50%	3.37%	-0.17%	-0.53%	2.01%	3.50%
Total Retirement	14.02%	2.72%	13.11%	3.90%	2.64%	3.53%	6.73%
Supplemental Death	0.00%	0.26%	0.28%	0.32%	0.26%	0.15%	0.22%
Total Rate	14.02%	2.98%	13.39%	4.22%	2.90%	3.68%	6.95%
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	9.50%	8.50%	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	15.7 years	18.1 years	26.2 years	25.0 years	25.0 years	4.6 years	20.2 years
Number of annuitants	1,003	5	22	21	5	2	8
Number of active contributing members	1,438	15	24	31	14	2	16
Number of inactive members	547	19	16	22	17	0	12
Average age of contributing members	44.8 years	44.9 years	40.2 years	46.4 years	46.2 years	48.8 years	49.0 years
Average length of service of contributing members	12.1 years	9.1 years	6.5 years	6.2 years	4.8 years	8.2 years	11.0 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Watauga	Waxahachie	Weatherford	Webster	Weimar	Wellington	Wells
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$23,371,476	\$36,049,539	\$59,625,809	\$33,190,487	\$3,383,631	\$1,630,366	\$27,077
b. Noncontributing Members	8,620,254	4,905,363	9,657,851	6,839,111	921,453	8,805	33,365
c. Annuitants	16,238,871	25,456,463	46,412,224	21,520,531	3,590,686	1,582,745	201,289
2. Total Actuarial Accrued Liability	\$48,230,601	\$66,411,365	\$115,695,884	\$61,550,129	\$7,895,770	\$3,221,916	\$261,731
3. Actuarial value of assets	42,685,431	55,221,999	102,751,909	51,533,411	6,878,373	3,282,786	280,095
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$5,545,170	\$11,189,366	\$12,943,975	\$10,016,718	\$1,017,397	(\$60,870)	(\$18,364)
5. Funded Ratio: (3) / (2)	88.5%	83.2%	88.8%	83.7%	87.1%	101.9%	107.0%
6. Annual Payroll	\$9,234,645	\$14,459,246	\$22,002,463	\$11,081,908	\$1,237,878	\$453,976	\$65,221
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.62%	9.66%	9.38%	11.99%	9.19%	4.86%	3.35%
Prior Service	3.88%	5.30%	3.87%	5.42%	8.03%	-0.82%	-1.90%
Total Retirement	13.50%	14.96%	13.25%	17.41%	17.22%	4.04%	1.45%
Supplemental Death	0.18%	0.20%	0.17%	0.21%	0.27%	0.50%	0.00%
Total Rate	13.68%	15.16%	13.42%	17.62%	17.49%	4.54%	1.45%
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	N/A	N/A	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	23.1 years	21.1 years	22.4 years	26.0 years	13.4 years	25.0 years	25.0 years
Number of annuitants	95	121	209	99	26	13	2
Number of active contributing members	157	251	360	165	25	13	2
Number of inactive members	162	46	167	90	12	4	3
Average age of contributing members	43.3 years	42.5 years	41.4 years	43.7 years	47.3 years	48.9 years	34.5 years
Average length of service of contributing members	11.8 years	10.2 years	10.5 years	12.9 years	12.9 years	14.7 years	4.0 years

	Weslaco	West	West Columbia	West Lake Hills	West Orange	West Tawakoni	West Univ. Place
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$15,699,179	\$811,777	\$2,125,851	\$1,995,518	\$5,070,878	\$874,707	\$19,806,490
b. Noncontributing Members	4,041,422	318,510	360,417	2,266,556	809,830	100,487	7,696,786
c. Annuitants	20,516,558	851,940	1,824,008	4,296,749	4,432,603	430,550	22,543,129
2. Total Actuarial Accrued Liability	\$40,257,159	\$1,982,227	\$4,310,276	\$8,558,823	\$10,313,311	\$1,405,744	\$50,046,405
3. Actuarial value of assets	37,061,628	2,257,998	4,810,519	7,327,750	8,308,746	1,129,611	43,347,008
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$3,195,531	(\$275,771)	(\$500,243)	\$1,231,073	\$2,004,565	\$276,133	\$6,699,397
5. Funded Ratio: (3) / (2)	92.1%	113.9%	111.6%	85.6%	80.6%	80.4%	86.6%
6. Annual Payroll	\$10,230,968	\$828,460	\$1,617,305	\$1,792,226	\$1,382,542	\$569,577	\$9,475,884
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	5.28%	3.60%	5.16%	11.87%	9.85%	5.27%	8.65%
Prior Service	2.48%	-2.04%	-1.90%	4.12%	10.18%	4.29%	4.19%
Total Retirement	7.76%	1.56%	3.26%	15.99%	20.03%	9.56%	12.84%
Supplemental Death	0.16%	0.28%	0.00%	0.26%	0.00%	0.25%	0.19%
Total Rate	7.92%	1.84%	3.26%	16.25%	20.03%	9.81%	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)	N/A	9.50%	11.50%	N/A	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	19.0 years	25.0 years	25.0 years	26.0 years	20.3 years	16.1 years	26.5 years
Number of annuitants	154	11	23	28	20	11	108
Number of active contributing members	234	20	35	23	21	15	118
Number of inactive members	149	14	28	30	12	10	96
Average age of contributing members	41.0 years	45.3 years	43.3 years	40.5 years	47.7 years	42.4 years	43.1 years
Average length of service of contributing members	8.9 years	9.5 years	8.0 years	7.6 years	14.4 years	7.5 years	12.9 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Westlake	Westover Hills	Westworth Village	Wharton	Wheeler	White Deer	White Oak
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$5,222,716	\$573,689	\$3,143,179	\$8,297,434	\$193,663	\$160,782	\$5,380,465
b. Noncontributing Members	886,584	222,691	1,108,010	2,281,244	55,161	185,419	1,033,538
c. Annuitants	934,469	1,122,158	1,161,226	5,541,994	986,304	280,616	5,716,188
2. Total Actuarial Accrued Liability	\$7,043,769	\$1,918,538	\$5,412,415	\$16,120,672	\$1,235,128	\$626,817	\$12,130,191
3. Actuarial value of assets	5,751,787	1,902,367	4,942,016	15,181,459	1,204,215	460,448	11,143,793
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,291,982	\$16,171	\$470,399	\$939,213	\$30,913	\$166,369	\$986,398
5. Funded Ratio: (3) / (2)	81.7%	99.2%	91.3%	94.2%	97.5%	73.5%	91.9%
6. Annual Payroll	\$3,467,829	\$1,205,032	\$2,626,086	\$5,577,604	\$309,617	\$242,802	\$2,134,251
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.47%	1.49%	10.67%	4.78%	6.93%	3.47%	11.34%
Prior Service	2.33%	0.08%	1.08%	1.10%	0.76%	4.61%	2.76%
Total Retirement	11.80%	1.57%	11.75%	5.88%	7.69%	8.08%	14.10%
Supplemental Death	0.19%	0.29%	0.19%	0.22%	0.11%	0.60%	0.21%
Total Rate	11.99%	1.86%	11.94%	6.10%	7.80%	8.68%	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	7.50%	13.50%	9.50%	N/A	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	24.3 years	25.7 years	25.7 years	22.6 years	18.1 years	21.7 years	26.1 years
Number of annuitants	11	24	14	39	3	5	30
Number of active contributing members	41	22	48	103	8	5	45
Number of inactive members	22	12	49	56	3	12	23
Average age of contributing members	46.0 years	42.2 years	44.8 years	43.3 years	40.4 years	49.6 years	43.8 years
Average length of service of contributing members	9.3 years	9.3 years	8.9 years	10.5 years	3.9 years	6.4 years	11.5 years

	White Settlement	Whiteface	Whitehouse	Whitesboro	Whitewright	Whitney	Wichita Falls
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$13,453,253	\$265,228	\$2,509,152	\$4,213,680	\$277,261	\$542,511	\$113,772,581
b. Noncontributing Members	4,701,037	330,095	1,080,071	671,555	476,002	177,907	15,154,707
c. Annuitants	14,183,417	18,673	1,516,077	1,996,777	393,362	352,047	133,029,225
2. Total Actuarial Accrued Liability	\$32,337,707	\$613,996	\$5,105,300	\$6,882,012	\$1,146,625	\$1,072,465	\$261,956,513
3. Actuarial value of assets	24,943,760	699,498	4,523,567	6,392,047	1,249,243	982,095	220,460,597
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$7,393,947	(\$85,502)	\$581,733	\$489,965	(\$102,618)	\$90,370	\$41,495,916
5. Funded Ratio: (3) / (2)	77.1%	113.9%	88.6%	92.9%	108.9%	91.6%	84.2%
6. Annual Payroll	\$6,392,017	\$134,249	\$1,717,166	\$2,014,086	\$803,971	\$736,736	\$46,493,206
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.45%	5.47%	6.77%	4.97%	3.65%	3.40%	5.49%
Prior Service	7.48%	-3.91%	2.22%	2.25%	-0.78%	0.82%	7.28%
Total Retirement	16.93%	1.56%	8.99%	7.22%	2.87%	4.22%	12.77%
Supplemental Death	0.16%	0.34%	0.18%	0.24%	0.13%	0.18%	0.00%
Total Rate	17.09%	1.90%	9.17%	7.46%	3.00%	4.40%	12.77%
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	11.50%	9.50%	9.50%	7.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	23.0 years	25.0 years	24.4 years	13.9 years	25.0 years	25.8 years	16.5 years
Number of annuitants	87	1	18	28	9	11	642
Number of active contributing members	114	3	42	49	21	19	988
Number of inactive members	120	3	31	32	21	18	445
Average age of contributing members	41.9 years	43.7 years	40.8 years	46.3 years	37.7 years	43.1 years	45.1 years
Average length of service of contributing members	8.6 years	11.2 years	10.0 years	11.1 years	3.5 years	10.5 years	11.3 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Willis	Willow Park	Wills Point	Wilmer	Wimberley	Windcrest	Winfield
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$3,210,216	\$1,159,764	\$1,200,593	\$1,874,942	\$144,474	\$3,174,065	\$55,292
b. Noncontributing Members	612,635	427,020	621,843	429,763	174,779	2,155,357	30,278
c. Annuitants	1,870,284	194,731	2,775,155	1,045,724	50,156	3,901,463	0
2. Total Actuarial Accrued Liability	\$5,693,135	\$1,781,515	\$4,597,591	\$3,350,429	\$369,409	\$9,230,885	\$85,570
3. Actuarial value of assets	5,040,107	1,564,568	3,755,111	3,379,524	267,929	8,842,422	74,696
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$653,028	\$216,947	\$842,480	(\$29,095)	\$101,480	\$388,463	\$10,874
5. Funded Ratio: (3) / (2)	88.5%	87.8%	81.7%	100.9%	72.5%	95.8%	87.3%
6. Annual Payroll	\$2,138,597	\$1,794,724	\$1,108,108	\$1,817,259	\$348,000	\$3,259,563	\$158,516
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	8.09%	6.42%	6.26%	4.80%	4.74%	6.69%	2.95%
Prior Service	1.86%	0.81%	6.14%	-0.10%	3.13%	0.71%	0.55%
Total Retirement	9.95%	7.23%	12.40%	4.70%	7.87%	7.40%	3.50%
Supplemental Death	0.18%	0.12%	0.19%	0.16%	0.20%	0.21%	0.32%
Total Rate	10.13%	7.35%	12.59%	4.86%	8.07%	7.61%	3.82%
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)	13.50%	N/A	N/A	12.50%	N/A	10.50%	N/A
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	25.2 years	21.7 years	18.3 years	25.0 years	11.5 years	26.0 years	16.9 years
Number of annuitants	20	9	21	26	5	45	0
Number of active contributing members	40	35	30	51	7	66	2
Number of inactive members	25	41	43	47	11	58	5
Average age of contributing members	43.0 years	41.4 years	40.7 years	41.5 years	42.8 years	46.7 years	58.3 years
Average length of service of contributing members	10.0 years	7.6 years	5.8 years	8.2 years	4.4 years	6.9 years	17.6 years

	Wink	Winnsboro	Winona	Winters	Wolfforth	Woodcreek	Woodsboro
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$578,489	\$1,454,578	\$25,076	\$342,736	\$3,125,398	\$40,393	\$272,702
b. Noncontributing Members	0	698,629	111,924	275,425	52,602	12,042	13,442
c. Annuitants	227,246	3,046,836	310,506	2,611,432	728,360	64,771	236,891
2. Total Actuarial Accrued Liability	\$805,735	\$5,200,043	\$447,506	\$3,229,593	\$3,906,360	\$117,206	\$523,035
3. Actuarial value of assets	787,903	4,633,196	737,250	3,064,411	2,990,096	117,643	742,158
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$17,832	\$566,847	(\$289,744)	\$165,182	\$916,264	(\$437)	(\$219,123)
5. Funded Ratio: (3) / (2)	97.8%	89.1%	164.7%	94.9%	76.5%	100.4%	141.9%
6. Annual Payroll	\$380,085	\$1,569,223	\$126,492	\$528,804	\$1,377,875	\$123,240	\$531,086
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	6.98%	6.71%	10.43%	7.63%	6.95%	7.69%	3.58%
Prior Service	0.46%	2.23%	-10.43%	2.22%	4.15%	-0.02%	-2.53%
Total Retirement	7.44%	8.94%	0.00%	9.85%	11.10%	7.67%	1.05%
Supplemental Death	0.30%	0.24%	0.19%	0.36%	0.19%	0.67%	0.18%
Total Rate	7.74%	9.18%	0.19%	10.21%	11.29%	8.34%	1.23%
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%	13.50%	11.50%	N/A	N/A	7.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	13.0 years	24.9 years	25.0 years	21.1 years	24.3 years	25.0 years	25.0 years
Number of annuitants	3	25	2	15	5	2	2
Number of active contributing members	8	37	5	14	29	3	12
Number of inactive members	0	35	9	15	16	4	6
Average age of contributing members	49.3 years	45.0 years	46.1 years	43.9 years	41.4 years	65.2 years	47.7 years
Average length of service of contributing members	10.3 years	6.8 years	0.7 years	5.2 years	9.3 years	8.4 years	7.8 years

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF PARTICIPATING MUNICIPALITIES - DECEMBER 31, 2017**

	Woodville	Woodway	Wortham	Wylie	Yoakum	Yorktown	Zavalla
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$6,113,165	\$15,257,747	\$369,756	\$48,957,936	\$12,604,554	\$516,407	\$183,360
b. Noncontributing Members	390,985	2,012,902	101,193	6,065,341	1,844,292	86,582	133,412
c. Annuitants	1,604,281	9,557,363	158,200	14,484,801	10,933,157	827,507	117,619
2. Total Actuarial Accrued Liability	\$8,108,431	\$26,828,012	\$629,149	\$69,508,078	\$25,382,003	\$1,430,496	\$434,391
3. Actuarial value of assets	6,632,256	22,244,864	666,200	55,342,757	21,294,512	1,476,275	569,977
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	\$1,476,175	\$4,583,148	(\$37,051)	\$14,165,321	\$4,087,491	(\$45,779)	(\$135,586)
5. Funded Ratio: (3) / (2)	81.8%	82.9%	105.9%	79.6%	83.9%	103.2%	131.2%
6. Annual Payroll	\$1,551,909	\$5,073,908	\$332,490	\$20,927,746	\$4,061,292	\$592,229	\$248,867
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost	9.56%	9.05%	6.60%	10.77%	8.21%	1.39%	3.71%
Prior Service	7.96%	7.41%	-0.71%	4.07%	7.52%	-0.47%	-3.69%
Total Retirement	17.52%	16.46%	5.89%	14.84%	15.73%	0.92%	0.02%
Supplemental Death	0.26%	0.15%	0.13%	0.12%	0.28%	0.37%	0.00%
Total Rate	17.78%	16.61%	6.02%	14.96%	16.01%	1.29%	0.02%
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	12.50%	N/A	N/A	7.50%	9.50%
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019	15.9 years	16.3 years	25.0 years	25.9 years	18.6 years	25.0 years	25.0 years
Number of annuitants	12	40	2	95	52	12	1
Number of active contributing members	33	81	8	313	84	14	8
Number of inactive members	13	59	9	152	71	19	14
Average age of contributing members	45.3 years	40.4 years	43.4 years	40.1 years	45.5 years	44.0 years	42.9 years
Average length of service of contributing members	13.8 years	9.3 years	6.6 years	9.4 years	12.2 years	10.8 years	4.5 years

<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members							
b. Noncontributing Members							
c. Annuitants							
2. Total Actuarial Accrued Liability							
3. Actuarial value of assets							
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)							
5. Funded Ratio: (3) / (2)							
6. Annual Payroll							
<b>CITY CONTRIBUTION RATES FOR 2019</b>							
Retirement							
Normal Cost							
Prior Service							
Total Retirement							
Supplemental Death							
Total Rate							
Phase-In Rate (Minimum Contribution), Incl. Supplemental Death							
Statutory Maximum Rate (Total Retirement Only)							
<b>ADDITIONAL INFORMATION</b>							
Equivalent Single Amortization Period as of 1/2019							
Number of annuitants							
Number of active contributing members							
Number of inactive members							
Average age of contributing members							
Average length of service of contributing members							

**TEXAS MUNICIPAL RETIREMENT SYSTEM**  
**ACTUARIAL VALUATION OF INACTIVE MUNICIPALITIES - DECEMBER 31, 2017**

	Crystal Beach	Floresville No. 1	Graham Regional Med Cntr	Nacogdoches Memorial Hosp	Roy H. Laird Mem Hospital	Santa Anna	Texhoma
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Noncontributing Members	830	0	7,367,432	0	6,292,212	0	120
c. Annuitants	<u>74,688</u>	<u>17,866</u>	<u>10,057,563</u>	<u>0</u>	<u>5,704,310</u>	<u>551</u>	<u>60,747</u>
2. Total Actuarial Accrued Liability	\$75,518	\$17,866	\$17,424,995	\$0	\$11,996,522	\$551	\$60,867
3. Actuarial value of assets	<u>423,663</u>	<u>54,581</u>	<u>18,734,682</u>	<u>2,189,526</u>	<u>11,797,411</u>	<u>579,777</u>	<u>68,484</u>
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$348,145)	(\$36,715)	(\$1,309,687)	(\$2,189,526)	\$199,111	(\$579,226)	(\$7,617)
5. Funded Ratio: (3) / (2)	561.0%	305.5%	107.5%	N/A	98.3%	105222.7%	112.5%
6. Annual Payroll	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CITY CONTRIBUTION AMOUNT FOR 2019</b>	\$ -	\$ -	\$ -	\$ -	\$ 27,117	\$ -	\$ -
Amortization Period	N/A	N/A	N/A	N/A	10 years	N/A	N/A
<b>ADDITIONAL INFORMATION</b>							
Number of annuitants	1	1	91	0	57	1	2
Number of inactive members	1	0	173	0	34	0	1

	Volente						
<b>SUMMARY OF ACTUARIAL INFORMATION</b>							
1. Actuarial Accrued Liability							
a. Contributing Members	\$0						
b. Noncontributing Members	26,631						
c. Annuitants	<u>0</u>						
2. Total Actuarial Accrued Liability	\$26,631						
3. Actuarial value of assets	<u>33,661</u>						
4. Unfunded/(overfunded) actuarial accrued liability: (2) - (3)	(\$7,030)						
5. Funded Ratio: (3) / (2)	126.4%						
6. Annual Payroll	\$0						
<b>CITY CONTRIBUTION AMOUNT FOR 2019</b>	\$ -						
Amortization Period	N/A						
<b>ADDITIONAL INFORMATION</b>							
Number of annuitants	0						
Number of inactive members	2						