



June 4, 2020

City # 00052

City Official
City of Arlington
P.O. Box 90231
Arlington, TX 76004

Subject: 2021 Municipal Contribution Rate

Dear City Official:

Presented below are your city’s contribution requirements to the Texas Municipal Retirement System (TMRS) for Plan Year 2021 (Calendar Year 2021, PY2021) as determined by the December 31, 2019 actuarial valuation. The actuarially determined contribution rates for retirement benefits and Supplemental Death Benefits (SDB), if any, are based on your city’s plan provisions in effect as of April 1, 2020 and the actuarial assumptions and methods adopted by the TMRS Board. Effective January 1, 2021, your city’s monthly contribution rates will be:

	<u>Phase in Rate</u>	<u>Full Rate</u>
Normal Cost	9.56%	9.56%
Prior Service	<u>7.12%</u>	<u>7.26%</u>
Total Retirement Rate	16.68%	16.82%
Supplemental Death Benefit	<u>0.19%</u>	<u>0.19%</u>
Total Combined Contribution	16.87%	17.01%

Full information on your contribution rate, including an explanation of changes and available rate stabilization techniques, is contained in the attached report. The Total Retirement Rate shown in the Full Rate column above represents the Actuarially Determined Employer Contribution (ADEC) for PY2021 based on current TMRS funding policy. **The Total Combined Contribution Rate shown in the Phase-in Rate column above represents the minimum required contribution rate to TMRS for PY2021.** The difference represents the portion of your Full Rate that is eligible to be phased in. **Your city must contribute at least the Phase-in Rate though TMRS highly recommends that each city contribute as much toward the Full Rate as possible.** Please note that if your city chooses to contribute at a rate below the 2021 Full Rate, the contribution shortfall will be reflected in your city’s Unfunded Actuarial Accrued Liability (UAAL) and contribution rate in subsequent years. Cities may also choose to contribute at a rate level above the Full Rate.

The actuarial liabilities and contribution rates determined as part of the December 31, 2019 actuarial valuation reflect a change in actuarial assumptions based on the results of the 2019 experience study for the period ending December 31, 2018. Please see the “Actuarial Changes” section for more detailed information. Full information on your contribution rate, including an explanation of changes, is contained in the attached report.



IMPORTANT NOTE: The pension disclosure and financial statement information necessary to assist your city with the financial reporting requirements of the Governmental Accounting Standards Board (GASB) will be provided in a separate document available later this summer.

If you have questions about your rate or if you wish to evaluate potential changes in your TMRS plan, contact TMRS at 800-924-8677.

Sincerely,

A handwritten signature in blue ink that reads 'Leslee S. Hardy'.

Leslee S. Hardy, ASA, EA, FCA, MAAA
Director of Actuarial Services

Table of Contents

Actuarial Changes	A summary of the changes in actuarial assumptions and methods adopted by the Board and effective with the December 31, 2019 actuarial valuation based on the results of the 2019 experience study.
Rate Stabilization Techniques	A summary of the techniques currently available to assist cities in stabilizing their contribution rate including managing a funding surplus.
Executive Summary	A comparison of the highlights of the December 31, 2019 and December 31, 2018 actuarial valuations for your city. Included are membership counts, asset information, actuarial information, and contribution rate requirements.
Calculation of Contribution Requirements	Details the calculation of the Full Retirement Rate (TMRS Plan Year - ADEC), Minimum Required Phase-in Retirement Rate, and the Supplemental Death Rate, if applicable, for your city. Comparisons before and after the actuarial changes and to the 2018 actuarial valuation results are included.
Summary of Benefit Provisions	A summary of plan provisions in effect as of April 1, 2020.
Amortization Bases and Payments	Information on the amortization bases and payments for your city.
Historical and Projected Accumulation of the BAF Balance	This schedule provides your city with historical cash flows, interest credits and the year-end balance of its Benefit Accumulation Fund (BAF), as well as projected values for calendar/plan years 2020 and 2021.
Reconciliation of Full Retirement Rate from Prior Actuarial Valuation Report	A detailed reconciliation of changes in your city's Full Retirement Rate (ADEC) since the prior valuation.
Risks Associated with Measuring the Accrued Liability and Actuarially Determined Contribution	An explanation of risk measurements and how a 10% decline in assets will impact your city's Full Retirement Rate (ADEC).
Phase-in Rates	An explanation of "Phase-in" including a question and answer section on Phase-in contributions and how they might affect your city.

Actuarial Changes

As part of their continued effort to ensure that TMRS is well funded and that members' benefits remain secure and sustainable over generations, the TMRS Board of Trustees adopted the actuarial changes summarized below at its October 2019 Board meeting, based on the results of the 2019 experience study and the recommendations of the System's consulting actuary, Gabriel Roeder Smith & Company (GRS). The combined impact of the following actuarial changes is shown in the "Reconciliation of Full Retirement Rate from Prior Actuarial Valuation Report" section of this letter.

Actuarial Assumption Changes

The TMRS Act requires that at least once every 5 years, the System's consulting actuary perform an actuarial experience study and make recommendations to the Board based on the results of that study. Current Board policy is to conduct an actuarial experience study every four years. Accordingly, during 2019, TMRS' consulting actuary, GRS, conducted an experience study for the period ending December 31, 2018. A single set of assumptions is not expected to be suitable forever. As the actual experience of a plan unfolds or the future expectations change, the assumptions should be reviewed and adjusted accordingly. The actuarial assumptions used in the annual actuarial valuations and reviewed as part of the experience study are generally grouped into the following two major categories:

1. Economic assumptions – investment return, salary increases, overall payroll growth, inflation
2. Demographic assumptions – rates of termination, forfeiture, service retirement, disability retirement, pre-retirement mortality, post-retirement mortality

The Board adopted several changes in actuarial assumptions including, but not limited to:

- Slightly modified the step rate portion of the individual salary scale assumption based on recent trends and experience while keeping the ultimate salary increase at 3.5%.
- Introduced a load on the Updated Service Credit calculation equal to 0.1% per year into the future to reflect the asymmetric accrual pattern associated with this benefit formula.
- Decreased the current maximum payroll growth rate assumption from 3.00% to 2.75% to recognize some revenue pressure from a maturing population and changes in the property tax provisions while continuing to include a further reduction for some cities based on patterns of population decline.
- Updated the base mortality tables for healthy retirees to the client specific 2019 Municipal Retirees of Texas mortality tables using the actual mortality experience in TMRS data through December 31, 2018. Continued using a fully generational approach in projecting future mortality rates, but updated the projection scale to the ultimate rates of the MP Scales (Scale UMP).
- Updated the pre-retirement mortality tables to the PUB (10) mortality tables.
- Slightly increased the rates of termination and made small adjustments to the classification and individual city multipliers.
- Simplified and updated the service retirement rate tables.
- Slightly decreased the forfeiture rates (withdrawal of member deposits) for vested members not eligible for retirement.

Asset Valuation (Smoothing) Method Modification

In determining the Actuarial Value of Assets (AVA), decreased the “soft” corridor limit around the Market Value of Assets (MVA) from 15% to 12%. There were no other changes to the current 10-year asset smoothing method.

Amortization Policy Modifications

In TMRS, for underfunded plans, amortization of the Unfunded Actuarial Accrued Liability (UAAL) is a level percentage of payroll over a closed period using the process of “laddering” which separately tracks different amortization components or bases. For all new losses occurring after December 31, 2019 and benefit enhancements on or after January 1, 2021, the maximum amortization period is decreased from 25 years to 20 years for all cities. All prior amortization bases will continue to be amortized on their original schedule. This change will have no impact on the December 31, 2019 actuarial valuation, but will affect future valuations.

Decreased the level dollar amortization period for ad hoc benefit enhancements effective on or after January 1, 2021 from 15 years to 12 years.

Beginning with the December 31, 2019 valuation, once a City reaches an “overfunded” status, all prior amortization bases (ad hoc and non-ad hoc) are erased and an amount of the surplus is credited against the contribution rate to keep the funded ratio constant at the current level. Previously, the contribution rate credit was based on a 25-year open amortization policy.

Supplemental Death Benefit Fund Premiums

The premium for retirees will now be based on the full \$7,500 benefit versus the \$2,500 benefit previously used. There will now be a credit against premiums for active employees equal to 2% of the fund balance as of the valuation date expressed as a percentage of covered payroll for participating cities.

Rate Stabilization Techniques

Contribution rate stabilization is a strategic goal of the TMRS Board of Trustees. Since 2007, the Board has approved many actuarial changes to minimize short-term volatility in contribution rates while maximizing long-term System sustainability. Even so, some cities continue to experience significant changes in their annual contribution rates. Under the current funding policy in which rates are actuarially determined each year, contribution rate stabilization is fully optimized at the System level; therefore, any further rate stabilization must be achieved at the city level.

The most effective way for a city to stabilize its TMRS contribution rate is to determine, during its budget process, an affordable contribution rate that exceeds the required, calculated contribution rate and continue to pay that same rate, even when the calculated contribution rate goes down. This is particularly true for cities with an Unfunded Actuarial Accrued Liability (UAAL). These additional monthly contributions at a predetermined fixed rate accomplish the following:

- provides a stable annual contribution rate for budgeting purposes;
- directly reduces the UAAL;
- accelerates the years needed to attain full funding (i.e. pays off the UAAL quicker);
- produces cost savings over the long run; and
- provides a contribution rate cushion for future adverse plan experience.

A city can also make one or more lump sum contributions during the year which has a similar impact on the plan's funding status, but is less effective from a rate stabilization perspective.

For cities with an Overfunded Actuarial Accrued Liability (OAAL or surplus), the calculated contribution rate is determined by decreasing the normal cost rate (the cost of the current year accruals for active employees) by a rate calculated to keep the funded ratio constant at the current level. In most cases, the result is a required contribution less than the normal cost. It is important to note that there is still a chance that adverse experience could result in the funded ratio dropping below 100%. In order to dampen contribution rate volatility and to increase the likelihood of maintaining a funded ratio greater than 100%, TMRS encourages cities in a surplus position to consider paying the full normal cost rate (or as much as possible toward the full normal cost rate) until the funded ratio is at least 110%.

As noted above, additional contributions are entirely voluntary. A city can always revert to paying only the required calculated rate each month if financial circumstances change during the year. There is no formal action that needs to be taken by a city to contribute at a higher level than the required monthly minimum. Additional monthly contributions may be made during the normal payroll reporting process by simply filling out line 2. A. of Form TMRS 3 with the increased employer contribution rate. Lump sum contributions should be reported separately from the regular payroll reporting process and submitted with Form TMRS 3ADD.

If your city would like to explore the impact of any of these rate stabilization techniques on your TMRS plan, please contact Leslee Hardy, Director of Actuarial Services, at lhardy@tmrs.com.

Executive Summary

Valuation as of TMRS Plan Year (PY) Ending	12/31/2019	12/31/2018
Membership as of the Valuation Date		
• Number of		
- Active members	2,578	2,551
- Retirees and beneficiaries	1,876	1,793
- Inactive members	<u>1,204</u>	<u>1,192</u>
- Total	5,658	5,536
• Prior year's payroll provided by TMRS	\$ 185,842,479	\$ 177,549,206
• Valuation Payroll	\$ 190,395,189	\$ 183,134,161
Benefit Accumulation Fund (BAF) Assets		
• Market BAF Balance	\$ 1,162,541,878	\$ 1,021,045,949
• BAF crediting rate for PY	15.42%	(3.08%)
• Interest credited on beginning BAF balance	\$ 157,454,308	\$ (32,867,323)
• Municipal contributions ^	29,379,969	28,007,832
• Member contributions during year	13,023,433	12,429,434
• Benefit and refund payments ^	58,361,781	54,712,773
Actuarial Value of Assets (AVA)		
• Market BAF Balance	\$ 1,162,541,878	\$ 1,021,045,949
• Actuarial Value of Assets (AVA)	1,144,057,115	1,084,555,626
• AVA as a Percentage of BAF	98.4%	106.2%
• Return on AVA	6.96%	6.00%
Actuarial Information		
• Actuarial accrued liability (AAL)	\$ 1,317,330,381	\$ 1,249,596,102
• Actuarial value of assets (AVA)	1,144,057,115	1,084,555,626
• Unfunded actuarial accrued liability (UAAL)	173,273,266	165,040,476
• UAAL as % of pay	93.2%	93.0%
• Funded ratio (AVA/AAL)	86.8%	86.8%
• Employer normal cost	9.56%	9.26%
• Prior Service Rate	7.26%	6.87%
Contribution Rates for TMRS Plan Year (PY)		
	2021	2020
• Member	7.00%	7.00%
• Full retirement rate (ADEC)	16.82%	16.13%
• Phase-in retirement rate (minimum)	16.68%	16.13%
• Supplemental Death rate	0.19%	0.16%
Total Employer Contribution Estimates for PY		
	2021	2020
• Projected payroll	\$ 195,631,057	\$ 188,628,186
• Minimum Phase-in contribution rate	16.87%	16.29%
• Estimated employer contribution	\$ 33,002,959	\$ 30,727,531

Note: TMRS Plan Year coincides with Calendar Year

Results from prior year reflect the plan provisions used in the 12/31/2019 valuation report.

^ Excludes contributions to/benefit payments from the IRC §415(m) Full Benefit Arrangement fund.

Calculation of Contribution Requirements

From Valuation Report as of

	<u>December 31, 2019</u>		<u>December 31, 2018</u>			
	New Assumptions		Old Assumptions			
1. Prior year's payroll reported to TMRS	\$	185,842,479	\$	185,842,479	\$	177,549,206
2. Valuation payroll		190,395,189		190,395,189		183,134,161
3. Employer normal cost rate		9.56%		9.20%		9.26%
4. Actuarial liabilities						
a. Active members	\$	547,445,977	\$	545,473,231	\$	518,412,591
b. Inactive members		96,895,570		97,707,783		93,833,494
c. Annuitants		<u>672,988,834</u>		<u>669,453,053</u>		<u>637,350,017</u>
d. Total actuarial accrued liability	\$	1,317,330,381	\$	1,312,634,067	\$	1,249,596,102
5. Actuarial value of assets		<u>1,144,057,115</u>		<u>1,144,057,115</u>		<u>1,084,555,626</u>
6. Unfunded actuarial accrued liability (UAAL) (4d - 5)	\$	173,273,266	\$	168,576,952	\$	165,040,476
7. Funded ratio (5 / 4d)		86.8%		87.2%		86.8%
8. Equivalent Single Amortization Period*		17.4 Years		17.2 Years		18.1 Years
9. Assumed payroll growth rate		2.75%		3.00%		3.00%
<hr/>						
Contribution Rate for TMRS Plan Year:		2021				2020
<hr/>						
10. Full retirement rate						
a. Normal cost		9.56%		9.20%		9.26%
b. Prior service		<u>7.26%</u>		<u>6.98%</u>		<u>6.87%</u>
c. Full retirement rate		16.82%		16.18%		16.13%
11. Minimum phase-in retirement rate						
a. Full retirement rate (10c)		16.82%		16.18%		16.13%
b. Less phase-in deferral		<u>(0.14%)</u>		<u>0.00%</u>		<u>0.00%</u>
c. Minimum phase-in retirement rate		16.68%		16.18%		16.13%
12. Supplemental Death rate		0.19%		0.19%		0.16%
13. Combined contribution rates						
a. Combined full rate (10c + 12)		17.01%		16.37%		16.29%
b. Combined phase-in rate (11c + 12)		16.87%		16.37%		16.29%

* New Losses are laddered on 25-year period.

Summary of Benefit Provisions

The plan provisions are adopted by the governing body of the City, within the options available in the state statutes governing TMRS. Plan provisions for the City in effect as of April 1, 2020 were as follows:

Employee deposit rate	7%
Matching ratio (city to employee)	2 to 1
Years required for vesting	5
Retirement Eligibility (Age/Service)	60/5, 0/20
Updated Service Credit	100% Repeating Transfers
Annuity Increase (to retirees)	50% of CPI Repeating
Supplemental Death Benefit to Active Employees	Yes
Supplemental Death Benefit to Retirees	Yes

Amortization Bases and Payments

Year Established	Description	Years Remaining	Base	Payment
2013	2013 Valuation (Fresh Start)	16	\$ 154,092,582	\$ 13,045,314
2014	2014 Experience	16	(15,364,241)	(1,300,720)
2015	2015 Experience	16	(6,312,876)	(534,441)
2015	2015 Actuarial Changes	26	9,534,890	586,278
2016	2016 Experience	22	5,523,452	376,162
2017	2017 Experience	23	1,817,546	120,355
2018	2018 Experience	24	13,886,277	895,674
2019	2019 Experience	25	5,399,322	339,776
2019	2019 Actuarial Changes	25	<u>4,696,314</u>	<u>295,536</u>
	Total		173,273,266	13,823,934

Historical and Projected Accumulation of the BAF Balance

Year Ending December 31, (1)	Payroll for the Year (2)	Effective Retirement Contribution Rate ^a (3)	Employer Contributions for the Year ^c (4)	Member Contributions for the Year (5)	Benefit Payments ^c (6)	External Cash Flow for the Year (7)	Interest Credit (8)	BAF Balance ^b (9)
		(4) / (2)				(4) + (5) + (6)		
2017	\$ 169,628,359	15.57%	\$ 26,419,418	\$ 11,876,965	\$ (56,688,675)	\$ (18,392,292)	\$ 125,399,509	\$ 1,068,188,779
2018	177,549,206	15.77%	28,007,832	12,429,434	(54,712,773)	(14,275,507)	(32,867,323)	1,021,045,949
2019	185,842,479	15.81%	29,379,969	13,023,433	(58,361,781)	(15,958,379)	157,454,308	1,162,541,878
2020	190,395,189	16.13%	30,710,744	13,327,663	(66,217,920)	(22,179,513)	78,471,577	1,218,833,942
2021	195,631,057	16.68%	32,631,260	13,694,174	(67,357,654)	(21,032,220)	82,271,291	1,280,073,013

a. Effective retirement contribution rate is the actual rate determined by dividing the employer contribution received by the payroll paid.

b. BAF Balance may not sum due to rounding.

c. Excludes contributions to/benefit payments from the IRC §415(m) Full Benefit Arrangement fund.

Reconciliation of Full Retirement Rate from Prior Actuarial Valuation Report

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 table provides a detailed breakdown of changes in the retirement portion of your city’s contribution rate. This analysis reconciles the change in the retirement portion (ADEC) of your city’s contribution rate from 2020 to 2021, but will not reflect any change in the cost of the Supplemental Death Benefit (SDB), if your city currently has this provision. (Any changes in the cost of the SDB are primarily due to the changes in the average age of your city’s employee group and/or the number of covered retirees.) Following the table below is a brief description of the common sources for deviation from the expected.

Change in Full Retirement Rate	
Full Rate from 12/31/2018 Valuation (PY 2020 Rate)	16.13 %
Benefit changes	0.00 %
Return on Actuarial Value of Assets	(0.07)
Contribution lag/phase in/fully amortized prior bases	0.01
Payroll growth	(0.07)
Normal cost	(0.06)
Liability growth	0.24
Subtotal Experience Change	0.05 %
Actuarial Changes	0.64
Total change	0.69 %
Full Rate from 12/31/2019 Valuation (PY 2021 Rate)	16.82 %

Benefit Changes - Shows the increase or decrease in the contribution rate associated with any modifications made to the member city’s TMRS plan provisions. This will also include any changes to the amortization period adopted by ordinance.

Return on Actuarial Value of Assets (AVA) - Shows the change in the contribution rate associated with the return on the AVA being different than the assumed 6.75%. For the year ending December 31, 2019, the return on an AVA basis was 6.96%. The impact may show as 0.00% due to rounding.

Contribution Lag/Phase In/Fully Amortized Prior Bases - Shows the total increase or decrease in the contribution rate associated with the phase in of contributions and/or any additional contributions above the full rate. The effect of the “Contribution Lag” is also included here and refers to the time delay between the actuarial valuation date and the date the contribution rate becomes effective. For

TMRS member cities, the “Contribution Lag” is one year (i.e., the Actuarial Valuation as of December 31, 2019 sets the rate effective for Calendar Year 2021). **The impact of the “Contribution Lag” is expected to become immaterial once a city is contributing the Full Rate and the Full Rate stabilizes.**

If a city chooses to contribute the minimum phase-in contribution, the difference between the Full Rate and the Phase-in Rate will be reflected as an actuarial loss in the next valuation’s UAAL. This will increase the Full Rate for future valuations.

Cities should carefully consider whether to pay the minimum Phase-in Rate, the Full Rate, or a rate somewhere in between. If a city begins to contribute the Full Rate immediately, the actuarial valuation anticipates that the Full Rate will stabilize for the duration of the amortization period. However, if the minimum phase-in contribution schedule is utilized, the ultimate Full Rate would be expected to be higher than the current Full Rate. For more information on the impact of the phase-in, please refer to the “Phase-in Rates” section.

In addition, it shows the impact of the bases, if any, 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 higher or lower than expected growth in the member city’s overall payroll. The amortization payments were calculated assuming payroll grows at 3.00% per year. Overall payroll growth greater (less) than 3.00% will typically cause a decrease (increase) in the prior service 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 salary-weighted average of the individual rates is the total normal cost rate.

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. The most significant sources for variance will be individual salary increases compared to the assumption and turnover.

Risks Associated with Measuring the Accrued Liability and Actuarially Determined Contribution

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

Ratio of the market value of assets to payroll	6.3
Ratio of actuarial accrued liability to payroll	7.1
Ratio of actives to retirees and beneficiaries	1.4
Net cash flow as a percentage of market value of assets	(1.4%)
Duration of liabilities	17.4
Change in Contribution Rate with 10% decline in assets (smoothed)	0.38%
Change in Contribution Rate with 10% decline in assets (unsmoothed)	3.78%

Ratio of Market Value of Assets to Payroll - The relationship between assets and payroll is a useful indicator of the potential volatility of contributions. For example, if the market value of assets is 4.0 times the payroll, a return on assets 5% different than assumed would equal 20% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in plan sponsor contributions as a percentage of payroll.

Ratio of Actuarial Accrued Liability to Payroll - The ratio of liability to payroll may also be used as a measure of sensitivity of the liability itself. For example, if the actuarial accrued liability is 5.0 times the payroll, a change in liability 2% other than assumed would equal 10% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in liability (and also plan sponsor contributions) as a percentage of payroll.

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

Ratio of Actives to Retirees and Beneficiaries - A young plan with many active members and few retirees will have a high ratio of active to retirees. A mature open plan may have close to the same number of actives to retirees resulting in a ratio near 1.0. A super-mature or closed plan may have significantly more retirees than actives resulting in a ratio below 1.0.

Net Cash Flow as a Percentage of Market Value - A positive net cash flow means contributions exceed benefits and expenses. A negative cash flow means existing funds are being used to make payments. A certain amount of negative net cash flow is generally expected to occur when benefits

are prefunded through a qualified trust. Large negative net cash flows as a percent of assets may indicate a super-mature plan or a need for additional contributions.

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

Change in Contribution Rate with 10% Decline in Assets (Smoothed) - This shows the rate impact in one year if the actuarial value of assets (AVA) was 10% lower than in the current actuarial valuation with the asset loss smoothed over a 10 year period as is done in the system-wide calculation of the AVA.

Change in Contribution Rate with 10% Decline in Assets (Unsmoothed): This shows the rate impact if the actuarial value of assets was 10% lower than in the current actuarial valuation with the full asset loss recognized in the current valuation.

Phase-in Rates

Phase-in Policy

At the October 2019 board meeting and based on the results of the 2019 experience study, the TMRS Board of Trustees approved a new set of actuarial assumptions to be first reflected in the December 31, 2019 actuarial valuation. At the same time, the Board also approved a phase-in policy to help manage the potential impact of the 2019 actuarial changes on contribution rates. Specifically, any city that experienced a net contribution rate increase in excess of 0.5% due to the 2019 actuarial changes is eligible to phase in 0.5% per year until the full retirement rate is reached. For this purpose, the net contribution rate increase is the contribution rate increase resulting solely from the 2019 change in actuarial assumptions adjusted by the contribution rate decrease attributable to experience gains, if any.

Any remaining phase-in balance resulting from prior actuarial changes will be combined with the 2019 phase-in amount, if any, in determining the final phase-in balance. Your city is eligible for a contribution rate phase-in due to either the 2019 actuarial changes, the remaining balance from prior actuarial changes or both.

What rate should my city pay?

Your city must contribute at least the Phase-in Rate and should consider paying more than this amount.

Can my city contribute more than the Phase-in Rate?

You may contribute at any rate you choose, but you must contribute at least the Phase-in Rate. Your city may choose to pay (1) the Full Rate, (2) a rate between the Phase-in Rate and the Full Rate, or (3) a rate above the Full Rate. The TMRS Act was amended effective January 1, 2008 to allow cities to make additional contributions to TMRS.

What is the impact of paying the Phase-in Rate or a rate below the Full Rate?

Each year that the actual contribution rate is less than the Full Rate, the difference generates an actuarial loss in the following year's actuarial valuation, which must be amortized as part of the UAAL by an increase in the Prior Service Rate. All other things being equal, the Full Rate for each successive year of the phase-in period will reflect the cumulative increases in the Prior Service Rate from all prior years. Cities that pay the Phase-in Rate or any rate less than the Full Rate are also likely to see their funding ratio decline or increase at a slower rate each year.

What is the impact of contributions in excess of the Full Rate?

Contributions above the Full Rate will have the exact opposite effect on your city as described above for contributions less than the Full Rate. Specifically, the amortization of actuarial gains created by

additional contributions will decrease the Full Rate (by a decrease in the Prior Service Rate) in the following year's actuarial valuation. Cities that make contributions in excess of the Full Rate should also see their funding ratios improve more rapidly.

Can my city pay the Full Rate this year and change to the Phase-in Rate in a later year?

Yes. For any year in which your city is eligible to phase in the full retirement rate, TMRS will send you a rate letter showing both the Phase-in Rate and the Full Rate. The Phase-in Rate will be the minimum rate you must pay. As mentioned earlier, a city should consider paying more than the Phase-in Rate.

If my city makes plan changes that increase the cost of our plan (benefit improvements), can we phase in those additional costs?

No. The contribution rate increase due to benefit improvements will not change the Phase-in Amount used in determining the Phase-in Rate. The Phase-in Rate will increase by the same amount as the Full Rate. The Phase-in Rate was intended to assist those cities that needed additional time to budget for the Full Rate. Any city making plan changes should consider paying the Full Rate.

If my city makes changes that decrease the cost of our plan (benefit reductions), will our Phase-in Rate be affected?

Yes. Reductions in the Full Rate because of a plan benefit reduction will change the amount being phased in and the Phase-in Rate beginning with the year the plan changes are effective. The portion of the amount being phased in and not yet recognized will be reduced by the decrease in the Full Rate. If the decrease in the Full Rate due to reductions in plan benefits exceeds the remaining phase-in balance, your required contribution rate will be the reduced Full Rate based on the new plan provisions.

If I make a plan change in 2020, will my 2021 contribution rate be recalculated?

Yes. 2021 contribution rates will be re-determined for cities that adopt changes in plan benefits before the end of calendar year 2020.