



Municipal Employees' Retirement System of Michigan

Annual Actuarial Valuation Report
December 31, 2024 - Battle Creek, City of (1302)



Spring 2025

Battle Creek, City of

In care of:

Municipal Employees' Retirement System of Michigan
1134 Municipal Way
Lansing, Michigan 48917

This report presents the results of the Annual Actuarial Valuation, prepared for Battle Creek, City of (1302) as of December 31, 2024. The report includes the determination of liabilities and contribution rates resulting from the participation in the Municipal Employees' Retirement System of Michigan ("MERS"). This report contains the minimum actuarially determined contribution requirement, in alignment with the MERS Plan Document, Actuarial Policy, the Michigan Constitution, and governing statutes. Battle Creek, City of is responsible for the employer contributions needed to provide MERS benefits for its employees and former employees.

The purposes of this valuation are to:

- Measure funding progress as of December 31, 2024,
- Establish contribution requirements for the fiscal year beginning July 1, 2026,
- Provide information regarding the identification and assessment of risk,
- Provide actuarial information in connection with applicable Governmental Accounting Standards Board (GASB) statements, and
- Provide information to assist the local unit of government with State reporting requirements.

This valuation assumed the continuing ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our scope of expertise and was not performed.

The findings in this report are based on data and other information through December 31, 2024. The valuation was based upon information furnished by MERS concerning Retirement System benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal reasonability and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by MERS.

The Municipal Employees' Retirement Act, PA 427 of 1984 and the MERS' Plan Document Article VI Sec. 71 (1)(d), provides the MERS Board with the authority to set actuarial assumptions and methods after consultation with the actuary. As the fiduciary of the plan, the MERS Retirement Board sets certain assumptions for funding and GASB purposes. These assumptions are reviewed regularly through a comprehensive study, most recently in the Spring of 2025. The MERS Retirement Board adopted a Dedicated

Gains Policy at the February 17, 2022 Board meeting. The Dedicated Gains Policy automatically reduces the assumed rate of investment return in conjunction with recognizing excess investment gains to mitigate the impact on employer contributions the first year. The policy was effective with the December 31, 2021 annual actuarial valuation.

The Michigan Department of Treasury provides required assumptions to be used for purposes of Public Act 202, of 2017, reporting. These assumptions are for reporting purposes only and do not impact required contributions. Please refer to the State Reporting page found at the end of this report for information for this filing.

For a full list of all the assumptions used, please refer to the division-specific assumptions described in table(s) in this report, and to the Appendix on the MERS website at:

<https://www.mersofmich.com/Portals/0/Assets/Resources/AAV-Appendix/MERS-2024AnnualActuarialValuation-Appendix.pdf>

The actuarial assumptions used for this valuation, including the assumed rate of investment return, are reasonable for purposes of the measurement. The combined effect of the assumptions is expected to have no significant bias (i.e., not significantly optimistic or pessimistic).

In December 2021, the Actuarial Standards Board (ASB) adopted a revision to the Actuarial Standard of Practice (ASOP) No. 4, *Measuring Pension Obligations and Determining Pension Plan Costs or Contributions*. The revised ASOP No. 4 requires the calculation and disclosure of a liability referred to by the ASOP as the “Low-Default-Risk Obligation Measure” (LDROM). The LDROM calculation is provided in aggregate, along with aggregate employer results, in a separate report titled “Summary Report of the 79th Annual Actuarial Valuations,” and will be available on the MERS website during the fall of 2025.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge, the information contained in this report is accurate and fairly presents the actuarial position of Battle Creek, City of as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board, and with applicable statutes.

Rebecca L. Stouffer, Mark Buis, Kurt Dosson, and Shana M. Neeson are members of the American Academy of Actuaries. These actuaries meet the Academy's Qualification Standards to render the actuarial opinions contained herein. The signing actuaries are independent of the plan sponsor. GRS maintains independent consulting agreements with certain local units of government for services unrelated to the actuarial consulting services provided in this report.

The Retirement Board of the Municipal Employees' Retirement System of Michigan confirms that the System provides for payment of the required employer contribution as described in Section 20m of Act No. 314 of 1965 (MCL 38.1140m).

This information is purely actuarial in nature. It is not intended to serve as a substitute for legal, accounting, or investment advice.



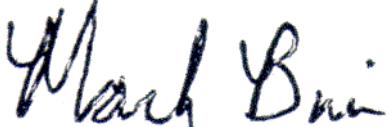
This report was prepared at the request of the MERS Retirement Board and may be provided only in its entirety by the municipality to other interested parties (MERS customarily provides the full report on request to associated third parties such as the auditor for the municipality). GRS is not responsible for the consequences of any unauthorized use. This report should not be relied on for any purpose other than the purposes described herein. Determinations of financial results, associated with the benefits described in this report, for purposes other than those identified above may be significantly different.

If you have reason to believe that the plan provisions are incorrectly described, that important plan provisions relevant to this valuation are not described, that conditions have changed since the calculations were made, that the information provided in this report is inaccurate or is in anyway incomplete, or if you need further information in order to make an informed decision on the subject matter in this report, please contact your Regional Manager at 1.800.767.MERS (6377).

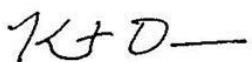
Sincerely,
Gabriel, Roeder, Smith & Company



Rebecca L. Stouffer, ASA, FCA, MAAA



Mark Buis, FSA, FCA, EA, MAAA



Kurt Dosson, ASA, FCA, MAAA



Shana M. Neeson, ASA, FCA, MAAA

Table of Contents

Executive Summary.....	6
Table 1: Employer Contribution Details for the Fiscal Year Beginning July 1, 2026	15
Table 2: Benefit Provisions.....	17
Table 3: Participant Summary	21
Table 4: Reported Assets (Market Value)	23
Table 5: Flow of Valuation Assets	24
Table 6: Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2024	25
Table 7: Actuarial Accrued Liabilities - Comparative Schedule	27
Tables 8 and 9: Division-Based Comparative Schedules	28
Table 10: Division-Based Layered Amortization Schedule.....	47
GASB Statement No. 68 Information	60
Benefit Provision History.....	61
Plan Provisions, Actuarial Assumptions, and Actuarial Funding Method	69
Risk Commentary	70
State Reporting	72

Executive Summary

Funded Ratio

The funded ratio of a plan is the percentage of the dollar value of the actuarial accrued liability that is covered by the actuarial value of assets. While the funded ratio may be a useful plan measurement, understanding a plan's funding trend may be more important than a particular point in time. Refer to Table 7 to find a history of this information.

	12/31/2024	12/31/2023
Funded Ratio*	61%	60%

* Reflects assets from Surplus divisions, if any.

Throughout this report are references to valuation results generated prior to the 2018 valuation date. Results prior to 2018 were received directly from the prior actuary or extracted from the previous valuation system by MERS' technology service provider.

Required Employer Contributions

Your required employer contributions are shown in the following table. Employee contributions, if any, are in addition to the employer contributions.

Effective with the December 31, 2021 valuation, the MERS Retirement Board adopted a Dedicated Gains Policy which allows for recognition of asset gains in excess of a set threshold in combination with lowering the assumed rate of investment return. Following the completion of an Experience Study and effective with the 2024 valuations, the MERS Retirement Board adopted updated demographic and economic assumptions. **The combined impact of the implementation of updated assumptions and application of the Dedicated Gains Policy is shown in the contribution requirements below.**

Valuation Date:	Percentage of Payroll		Monthly \$ Based on Projected Payroll	
	12/31/2024	12/31/2023	12/31/2024	12/31/2023
Fiscal Year Beginning:	July 1, 2026	July 1, 2025	July 1, 2026	July 1, 2025
Division				
01 - Gnrl NonUn.	37.55%	40.66%	\$ 213,779	\$ 213,409
10 - General AFSCME	-	-	102,854	93,366
11 - Gnl Transit	-	-	26,242	26,846
12 - Gnrl BCSA	-	-	159,675	150,577
13 - Gnl Housing	-	-	18,993	19,925
14 - SEIU Local	-	-	99,154	98,597
15 - City Mngr.	403.56%	128.63%	55,855	41,551
16 - Cntral Disp.	-	-	7,010	7,346
17 - Corr.Offrcs	0.00%	0.00%	0	0
18 - General AFSCME after 12/1/10	3.25%	3.21%	16,755	15,819
19 - Gen. SEIU hired after 7/1/201	3.81%	3.78%	13,507	13,502
20 - Gen. BCSA hired after 1/1/201	2.52%	3.21%	2,402	3,289
HA - GNL Trans hired after 3/1/10	4.80%	5.57%	5,212	6,815
Total Municipality -				
Estimated Monthly Contribution			\$ 721,438	\$ 691,042
Total Municipality -				
Estimated Annual Contribution			\$ 8,657,256	\$ 8,292,504

Employee contribution rates:

Valuation Date:	Employee Contribution Rate	
	12/31/2024	12/31/2023
Division		
01 - Gnrl NonUn.	10.00%	10.00%
10 - General AFSCME	7.00%	7.00%
11 - Gnl Transit	5.00%	5.00%
12 - Gnrl BCSA	7.16%	7.16%
13 - Gnl Housing	1.50%	1.50%
14 - SEIU Local	7.00%	7.00%
15 - City Mngr.	5.00%	5.00%
16 - Cntral Disp.	7.20%	7.20%
17 - Corr.Offrcs	5.62%	5.62%
18 - General AFSCME after 12/1/10	5.00%	5.00%
19 - Gen. SEIU hired after 7/1/201	5.00%	5.00%
20 - Gen. BCSA hired after 1/1/201	5.00%	5.00%
HA - GNL Trans hired after 3/1/10	0.00%	0.00%

The employer may contribute more than the minimum required contributions, as these additional contributions will earn investment income and may result in lower future contribution requirements. Employers making contributions in excess of the minimum requirements may elect to apply the excess contribution immediately to a particular division, or segregate the excess into one or more "Surplus" divisions. An election in the first case would immediately reduce any unfunded accrued liability and lower the amortization payments throughout the remaining amortization period. Additional contribution into one or more Surplus divisions would not immediately lower future contributions, however the assets from the Surplus division(s) could be transferred to an unfunded division in the future to reduce the unfunded liability in future

years, or to be used to pay all or a portion of the minimum required contribution in a future year. For purposes of this report, the assets in any Surplus division have been included in the municipality's total assets, unfunded accrued liability, and funded status; however, these assets are not used in calculating the minimum required contribution.

MERS strongly encourages employers to contribute more than the minimum contribution shown above. With the implemented dedicated gains policy, market gains and losses will continue to be smoothed over five years; however, excess returns are used to lower the investment assumption. Thus, there will be fewer gains to smooth in down markets. Having additional funds in Surplus divisions will assist plans with navigating potential short-term market volatility.

Assuming that experience of the plan meets actuarial assumptions:

- To accelerate to a 100% funding ratio in 10 years, estimated monthly employer contributions for the fiscal year beginning in 2026 for the entire employer would be \$886,831, instead of \$721,438.

The required employer contribution rates, or dollars if the division is closed, determined in this report are reasonable under Actuarial Standard of Practice (ASOP) No. 4, Measuring Pension Obligations and Determining Pension Plan Costs or Contributions, based on:

- The use of reasonable actuarial assumptions and cost methods;
- The use of reasonable amortization and asset valuation methods; and
- Application of the MERS funding policy which will accumulate sufficient assets to make benefit payments when due, assuming all assumptions will be realized, and the required employer contributions are made when due.

How and Why Do These Numbers Change?

In a defined benefit plan, contributions vary from one annual actuarial valuation to the next as a result of the following:

- Changes in benefit provisions (see Table 2);
- Changes in actuarial assumptions and methods (see the Appendix); and
- Experience of the plan (investment experience and demographic experience); this is the difference between actual experience of the plan and the actuarial assumptions.

These impacts are reflected in various tables in the report. For more information, please contact your Regional Manager.

Comments on Investment Rate of Return Assumption

A defined benefit plan is funded by employer contributions, participant contributions, and investment earnings. Investment earnings have historically provided a significant portion of the funding. The larger the share of benefits being provided from investment returns, the smaller the required contributions, and vice versa. Determining the contributions required to prefund the promised retirement benefits requires an assumption of what investment earnings are expected to add to the fund over a long period of time. This is called the **Investment Return Assumption**.

The MERS Investment Return Assumption is **6.93%** per year. This, along with all other actuarial assumptions, is reviewed at least every five years in an Experience Study that compares the assumptions used against actual experience and recommends adjustments if necessary. If your municipality would like to explore contributions

at lower assumed investment return assumptions, please review the “What If” projection scenarios later in this report.

Assumption and Method Changes in 2024

Effective February 17, 2022, the MERS Retirement Board adopted a dedicated gains policy that automatically lowers the assumed rate of investment return by using excess asset gains to mitigate large increases in required contributions to the Plan. Full details of this dedicated gains policy are available in the Actuarial Policy found on the MERS [website](#). Some goals of the dedicated gains policy are to:

- Provide a systematic approach to lower the assumed rate of investment return between experience studies; and
- Use excess gains to cover both the increase in normal cost and any increase in UAL payment the first contribution year after application (i.e., minimize the first-year impact (i.e., increase) in employer contributions).

The dedicated gains policy was implemented with the December 31, 2021 annual actuarial valuation and was reflected in the computed employer contribution amounts beginning in fiscal year 2023.

Investment performance measured for the one-year period ending December 31, 2024 resulted in no change to the assumed rate of investment return of 6.93%.

On February 12, 2025, the MERS Retirement Board adopted the results of an Experience Study covering the period, January 1, 2019 through December 31, 2023. The study examined recent experience and trends, with consideration for the COVID-19 pandemic. The study resulted in incremental assumption updates, with limited impact on employer contributions and funded status, for most employers when results are measured on the new assumption basis. The results of this study are reflected in the December 31, 2024 annual actuarial valuations.

MI Local Retirement Grant

Michigan lawmakers adopted Public Act 119 of 2023, which provided relief to local units of government with the most significant burden from qualified pension and retirement health benefit systems on their annual budget and revenues. As authorized under Public Act 119 of 2023, Section 990, the state pension and OPEB grants were awarded to eligible local governments in September 2024.

A smaller number of municipalities qualified for the ***MI Local Retirement Grant*** than the ***Protecting MI Pension Grant Program*** of the previous year. Pension funds received by municipalities were deposited into the MERS trust during September 2024 and are reflected in this valuation.

Comments on Asset Smoothing

To avoid dramatic spikes and dips in annual contribution requirements due to short-term fluctuations in asset markets, MERS applies a technique called **asset smoothing**. This spreads out each year’s investment gains or losses over the prior year and the following four years. After initial application of asset smoothing, remaining excess market gains are used to buy down the assumed rate of investment return and increase the level of valuation assets, to the extent allowed by the dedicated gains policy. This smoothing method is used to determine your actuarial value of assets (valuation assets), which is then used to determine both your funded ratio and your required contributions. **The (smoothed) actuarial rate of return for 2024 was 3.79%, while the actual market rate of return was 7.28%.** The actuarial rate of return is below the assumed rate of return,

which will put upward pressure on the employer contribution requirements determined in this valuation. To see historical details of the market rate of return compared to the smoothed actuarial rate of return, refer to this report's Appendix or view the "[How Smoothing Works](#)" video on the [Defined Benefit resource page](#) of the MERS website.

As of December 31, 2024, the actuarial value of assets is 107% of market value due to asset smoothing. This means that there are deferred investment losses, which will put upward pressure on contributions in the short term.

If the December 31, 2024 valuation results were based on market value instead of actuarial value:

- The funded percent of your entire municipality would be 57% (instead of 61%); and
- Your total employer contribution requirement for the fiscal year starting July 1, 2026 would be \$9,261,288 (instead of \$8,657,256).

Alternate Scenarios to Estimate the Potential Volatility of Results ("What If Scenarios")

The calculations in this report are based on assumptions about long-term economic and demographic behavior. These assumptions will never materialize in a given year, except by coincidence. Therefore, the results will vary from one year to the next. The volatility of the results depends upon the characteristics of the plan. For example:

- Open divisions that have substantial assets compared to their active employee payroll will have more volatile employer contribution rates due to investment return fluctuations.
- Open divisions that have substantial accrued liability compared to their active employee payroll will have more volatile employer contribution rates due to demographic experience fluctuations.
- Small divisions will have more volatile contribution patterns than larger divisions because statistical fluctuations are relatively larger among small populations.
- Shorter amortization periods result in more volatile contribution patterns.

Many assumptions are important in determining the required employer contributions. In the following table, we show the impact of varying the Investment Return assumption. Lower investment returns would generally result in higher required employer contributions, and vice versa. The three economic scenarios below provide a quantitative risk assessment for the impact of investment returns on the plan's projected financial condition for funding purposes.

The relative impact of the economic scenarios below will vary from year to year, as the participant demographics change. The impact of each scenario should be analyzed for a given year, not from year to year. The results in the table are based on the December 31, 2024 valuation and are for the municipality in total, not by division.

It is important to note that calculations in this report are mathematical estimates based upon assumptions regarding future events, which may or may not materialize. Actuarial calculations can and do vary from one valuation to the next, sometimes significantly depending on the group's size. Projections are not predictions. Future valuations will be based on actual future experience.

12/31/2024 Valuation Results	Lower Future Annual Returns	Lower Future Annual Returns	Valuation Assumptions
Investment Return Assumption	4.93%	5.93%	6.93%
Accrued Liability	\$ 221,173,864	\$ 198,147,037	\$ 178,845,487
Valuation Assets ¹	\$ 108,314,643	\$ 108,314,643	\$ 108,314,643
Unfunded Accrued Liability	\$ 112,859,221	\$ 89,832,394	\$ 70,530,844
Funded Ratio	49%	55%	61%
Monthly Normal Cost	\$ 203,563	\$ 138,978	\$ 90,655
Monthly Amortization Payment	\$ 844,636	\$ 736,105	\$ 629,750
Total Employer Contribution²	\$ 1,048,199	\$ 875,083	\$ 721,438

¹ The Valuation Assets include assets from Surplus divisions, if any.

² If assets exceed accrued liabilities for a division, the division may have an overfunding credit to reduce the division's employer contribution requirement. If the overfunding credit is larger than the normal cost, the division's full credit is included in the municipality's amortization payment above but the division's total contribution requirement is zero. This can cause the displayed normal cost and amortization payment to not add up to the displayed total employer contribution.

Projection Scenarios

The next two pages show projections of the plan's funded ratio and computed employer contributions under the actuarial assumptions used in the valuation and alternate economic assumption scenarios. All three projections account for the past investment experience that will continue to affect the actuarial rate of return in the short term.

The 6.93% scenario provides an estimate of computed employer contributions based on current actuarial assumptions, and a projected 6.93% market return. The other two scenarios may be useful if the municipality chooses to budget more conservatively and make contributions in addition to the minimum requirements. The 5.93% and 4.93% projection scenarios provide an indication of the potential required employer contribution if these assumptions were met over the long term.

Your municipality includes one or more Surplus divisions. Extra contributions in a Surplus division may be used to reduce future employer contributions or to accelerate the date by which the municipality becomes 100% funded. The timing and use of these Surplus assets within the plan is discretionary. Certain employers have special funding arrangements that may differ from the Actuarial Policy.

The Funded Percentage graph shows projections of funded status under the 6.93% investment return assumption, both including the Surplus assets (contributed as of the valuation date), and without the Surplus assets. The graph including the Surplus assets assumes these Surplus assets grow with interest and are not used to lower future employer contributions. We modeled the projections including the Surplus assets in this fashion because the use of these assets within the plan is discretionary by the employer and we do not know when and how the employer will use them. Once the employer uses these Surplus assets, any future employer contributions are expected to be lower than those shown in the projections.

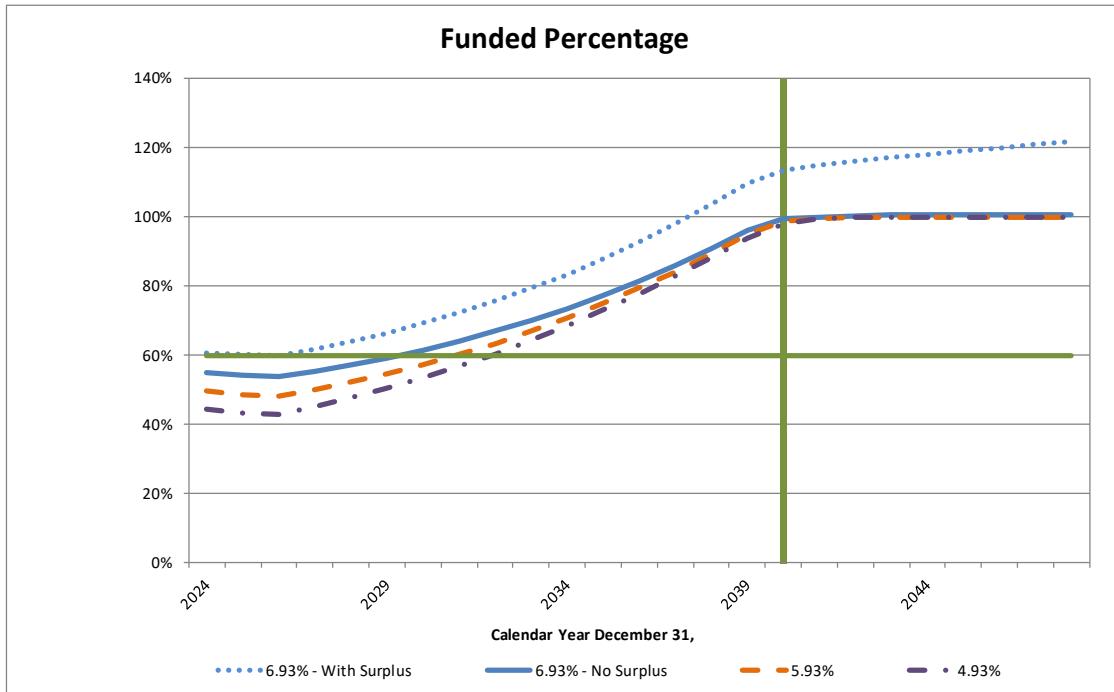
Please note that one or more of your divisions trigger the 3 times benefit payout minimum contribution requirement during the projection period (see table following the projections and the graphs). This contribution requirement was designed so that a plan does not run out of money. This means that if assets in the plan are not enough to pay 3 years of benefit payouts, a minimum contribution is required to raise the level of the assets to be equal to at least 3 years of benefit payments. See the Appendix on MERS' website for a

full description of this contribution requirement.

Valuation Year Ending 12/31	Fiscal Year Beginning 7/1	Actuarial Accrued Liability	Valuation Assets ²	Funded Percentage	Estimated Annual Employer Contribution
6.93%¹					
2024	2026	\$ 178,845,487	\$ 98,142,387	55%	\$ 8,657,256
2025	2027	\$ 179,900,000	\$ 97,600,000	54%	\$ 9,010,000
2026	2028	\$ 181,300,000	\$ 97,400,000	54%	\$ 9,600,000
2027	2029	\$ 182,500,000	\$ 100,900,000	55%	\$ 9,840,000
2028	2030	\$ 183,600,000	\$ 104,800,000	57%	\$ 10,100,000
2029	2031	\$ 184,700,000	\$ 109,300,000	59%	\$ 10,400,000
5.93%¹					
2024	2026	\$ 198,147,037	\$ 98,142,387	50%	\$ 10,500,996
2025	2027	\$ 199,200,000	\$ 96,700,000	49%	\$ 10,900,000
2026	2028	\$ 200,600,000	\$ 96,500,000	48%	\$ 11,500,000
2027	2029	\$ 201,800,000	\$ 100,900,000	50%	\$ 11,800,000
2028	2030	\$ 202,900,000	\$ 105,800,000	52%	\$ 12,100,000
2029	2031	\$ 204,000,000	\$ 111,400,000	55%	\$ 12,500,000
4.93%¹					
2024	2026	\$ 221,173,864	\$ 98,142,387	44%	\$ 12,578,388
2025	2027	\$ 222,300,000	\$ 95,800,000	43%	\$ 13,100,000
2026	2028	\$ 223,600,000	\$ 95,800,000	43%	\$ 13,800,000
2027	2029	\$ 224,900,000	\$ 101,300,000	45%	\$ 14,100,000
2028	2030	\$ 225,900,000	\$ 107,500,000	48%	\$ 14,500,000
2029	2031	\$ 227,000,000	\$ 114,400,000	50%	\$ 14,900,000

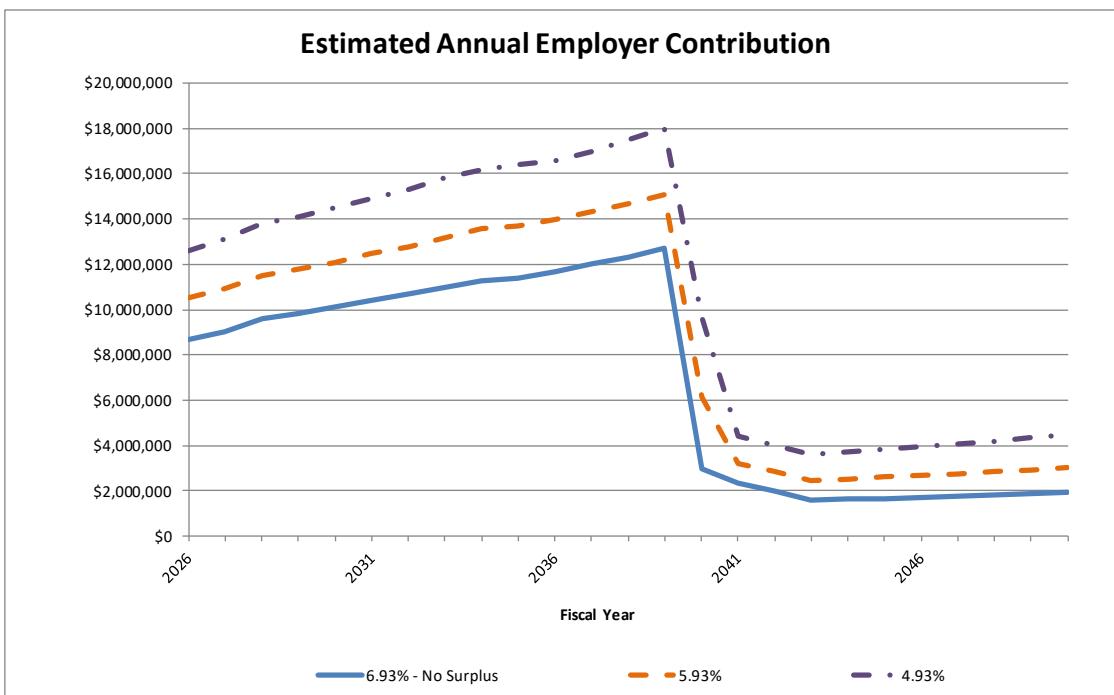
¹ Represents both the interest rate for discounting liabilities and the future investment return assumption on the Market Value of assets.

² Valuation Assets do not include assets from Surplus divisions, if any.



Notes:

Assumes assets from the Surplus division(s) will grow at the denoted investment return assumption and will not be used to lower employer contributions of non-surplus divisions during the projection period. Also assumes no additional contributions in future years to the surplus division(s). The green indicator lines have been added at 60% funded and 16 years following the valuation date for PA 202 purposes.



Notes:

Projected employer contributions do not reflect the use of any assets from the Surplus division(s).

Valuation Year Ending 12/31	Fiscal Year Beginning 7/1	6.93% No Phase-In	5.93% No Phase-In	4.93% No Phase-In
2024	2026	15	15	15
2025	2027	15	15	15
2026	2028	15	No	No
2027	2029	No	No	No
2028	2030	No	No	No
2029	2031	No	No	No

This table shows in any given year which division(s) are impacted by the 3 times benefit payout minimum required contribution. If "No" appears in the table, it means none of the divisions are impacted.

Table 1: Employer Contribution Details for the Fiscal Year Beginning July 1, 2026

Division	Total Normal Cost	Employee Contribution Rate	Employer Contributions ¹			Employee Contribution Conversion Factor ²
			Employer Normal Cost ⁶	Payment of the Unfunded Accrued Liability ⁴	Computed Employer Contribution	
Percentage of Payroll						
01 - Gnr NonUn.	15.43%	10.00%	5.43%	32.12%	37.55%	0.79%
10 - General AFSCME	13.07%	7.00%	-	-	-	19.64%
11 - Gnl Transit	11.95%	5.00%	-	-	-	27.48%
12 - Gnr BCSA	13.02%	7.16%	-	-	-	84.44%
13 - Gnl Housing	15.15%	1.50%	-	-	-	
14 - SEIU Local	13.29%	7.00%	-	-	-	27.98%
15 - City Mngr.	21.93%	5.00%	16.93%	386.63%	403.56%	0.98%
16 - Cntrl Disp.	0.00%	7.20%	-	-	-	
17 - Corr.Offrcs	10.33%	5.62%	4.71%	-11.31%	0.00%	0.94%
18 - General AFSCME after 12/1/10	8.02%	5.00%	3.02%	0.23%	3.25%	19.64% 0.82%
19 - Gen. SEIU hired after 7/1/201	8.32%	5.00%	3.32%	0.49%	3.81%	27.98% 0.85%
20 - Gen. BCSA hired after 1/1/201	9.12%	5.00%	4.12%	-1.60%	2.52%	84.44% 0.90%
HA - GNL Trans hired after 3/1/10	6.86%	0.00%	6.86%	-2.06%	4.80%	27.48%
Estimated Monthly Contribution³						
01 - Gnr NonUn.			\$ 30,917	\$ 182,862	\$ 213,779	
10 - General AFSCME			5,669	97,185	102,854	
11 - Gnl Transit			412	25,830	26,242	
12 - Gnr BCSA			5,665	154,010	159,675	
13 - Gnl Housing			3,181	15,812	18,993	
14 - SEIU Local			3,020	96,134	99,154	
15 - City Mngr.			2,343	53,512	55,855	
16 - Cntrl Disp.			0	7,010	7,010	
17 - Corr.Offrcs			737	(1,770)	0	
18 - General AFSCME after 12/1/10			15,568	1,187	16,755	
19 - Gen. SEIU hired after 7/1/201			11,773	1,734	13,507	
20 - Gen. BCSA hired after 1/1/201			3,925	(1,523)	2,402	
HA - GNL Trans hired after 3/1/10			7,445	(2,233)	5,212	
Total Municipality			\$ 90,655	\$ 629,750	\$ 721,438	
Estimated Annual Contribution³			\$ 1,087,860	\$ 7,557,000	\$ 8,657,256	

¹ The above employer contribution requirements are in addition to the employee contributions, if any.

² If employee contributions are increased/decreased by 1.00% of pay, the employer contribution requirement will decrease/increase by the Employee Contribution Conversion Factor. The conversion factor is usually under 1% because employee contributions may be refunded at termination of employment and not used to fund

retirement pensions. Employer contributions will all be used to fund pensions.

- ³ For divisions that are open to new hires, estimated contributions are based on projected fiscal year payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts. For divisions that will have no new hires (i.e., closed divisions), invoices will be based on the above dollar amounts which are based on projected fiscal year payroll. See description of Open Divisions and Closed Divisions in the Appendix.
- ⁴ Note that if the overfunding credit is larger than the normal cost, the full credit is shown above but the total contribution requirement is zero. This will cause the displayed normal cost and unfunded accrued liability contributions not to add across.
- ⁵ For linked divisions, the employer will be invoiced the Computed Employer Contribution rate shown above for each linked division (a contribution rate for the open division; a contribution dollar for the closed-but-linked division), unless the employer elects to contribute the Blended Employer Contribution rate shown above, by contacting MERS at 800-767-MERS (6377).
- ⁶ For divisions with a negative employer normal cost, employee contributions cover the normal cost and a portion of the payment of any unfunded accrued liability.

Please see the Comments on Asset Smoothing in the Executive Summary of this report.

Table 2: Benefit Provisions

01 - Gnrl NonUn.: Open Division

	2024 Valuation	2023 Valuation
Benefit Multiplier:	2.50% Multiplier (80% max)	2.50% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	55/25	55/25
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
Employee Contributions:	10.00%	10.00%
Act 88:	Yes (Adopted 7/10/1973)	Yes (Adopted 7/10/1973)

10 - General AFSCME: Closed to new hires, linked to Division 18

	2024 Valuation	2023 Valuation
Benefit Multiplier:	2.50% Multiplier (80% max)	2.50% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	55/25	55/25
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
Employee Contributions:	7.00%	7.00%
Act 88:	Yes (Adopted 7/10/1973)	Yes (Adopted 7/10/1973)

11 - Gnl Transit: Closed to new hires, linked to Division HA

	2024 Valuation	2023 Valuation
Benefit Multiplier:	2.50% Multiplier (80% max)	2.50% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	55/25	55/25
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
Employee Contributions:	5.00%	5.00%
Act 88:	Yes (Adopted 7/10/1973)	Yes (Adopted 7/10/1973)

12 - Gnrl BCSA: Closed to new hires, linked to Division 20

	2024 Valuation	2023 Valuation
Benefit Multiplier:	2.50% Multiplier (80% max)	2.50% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	55/25	55/25
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
Employee Contributions:	7.16%	7.16%
RS50% Percentage:	50%	50%
Act 88:	Yes (Adopted 7/10/1973)	Yes (Adopted 7/10/1973)

13 - Gnl Housing: Closed to new hires

	2024 Valuation	2023 Valuation
Benefit Multiplier:	2.50% Multiplier (80% max)	2.50% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	55/25	55/25
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
COLA for Future Retirees:	2.50% (Non-Compound)	2.50% (Non-Compound)
Employee Contributions:	1.50%	1.50%
DC Plan for New Hires:	12/1/2013	12/1/2013
Act 88:	Yes (Adopted 7/10/1973)	Yes (Adopted 7/10/1973)

14 - SEIU Local: Closed to new hires, linked to Division 19

	2024 Valuation	2023 Valuation
Benefit Multiplier:	2.50% Multiplier (80% max)	2.50% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	55/25	55/25
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
Employee Contributions:	7.00%	7.00%
Act 88:	Yes (Adopted 7/10/1973)	Yes (Adopted 7/10/1973)

15 - City Mngr.: Open Division

	2024 Valuation	2023 Valuation
Benefit Multiplier:	2.50% Multiplier (80% max)	2.50% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	50/25	50/25
	55/15	55/15
Early Retirement (Reduced):	-	-
Final Average Compensation:	3 years	3 years
Employee Contributions:	5.00%	5.00%
RS50% Percentage:	50%	50%
Act 88:	Yes (Adopted 7/10/1973)	Yes (Adopted 7/10/1973)

16 - Cntrl Disp.: Closed to new hires

	2024 Valuation	2023 Valuation
Benefit Multiplier:	2.50% Multiplier (80% max)	2.50% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	55/25	55/25
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
COLA for Future Retirees:	2.50% (Non-Compound)	2.50% (Non-Compound)
Employee Contributions:	7.20%	7.20%
Act 88:	Yes (Adopted 7/10/1973)	Yes (Adopted 7/10/1973)

17 - Corr.Offrcs: Open Division

	2024 Valuation	2023 Valuation
Benefit Multiplier:	2.25% Multiplier (80% max)	2.25% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	55/25	55/25
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	5 years	5 years
Employee Contributions:	5.62%	5.62%
Act 88:	Yes (Adopted 7/10/1973)	Yes (Adopted 7/10/1973)

18 - General AFSCME after 12/1/10: Open Division, linked to Division 10

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.50% Multiplier (no max)	1.50% Multiplier (no max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	-	-
Early Retirement (Reduced):	50/25 55/15	50/25 55/15
Final Average Compensation:	3 years	3 years
Employee Contributions:	5.00%	5.00%
Act 88:	Yes (Adopted 7/10/1973)	Yes (Adopted 7/10/1973)

19 - Gen. SEIU hired after 7/1/201: Open Division, linked to Division 14

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.50% Multiplier (no max)	1.50% Multiplier (no max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	-	-
Early Retirement (Reduced):	50/25 55/15	50/25 55/15
Final Average Compensation:	5 years	5 years
Employee Contributions:	5.00%	5.00%
Act 88:	Yes (Adopted 7/10/1973)	Yes (Adopted 7/10/1973)

20 - Gen. BCSA hired after 1/1/201: Open Division, linked to Division 12

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.50% Multiplier (no max)	1.50% Multiplier (no max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	-	-
Early Retirement (Reduced):	50/25 55/15	50/25 55/15
Final Average Compensation:	3 years	3 years
Employee Contributions:	5.00%	5.00%
Act 88:	Yes (Adopted 7/10/1973)	Yes (Adopted 7/10/1973)

HA - GNL Trans hired after 3/1/10: Open Division, linked to Division 11

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.25% Multiplier (no max)	1.25% Multiplier (no max)
Normal Retirement Age:	60	60
Vesting:	6 years	6 years
Early Retirement (Unreduced):	-	-
Early Retirement (Reduced):	-	-
Final Average Compensation:	3 years	3 years
Employee Contributions:	0.00%	0.00%
Act 88:	Yes (Adopted 7/10/1983)	Yes (Adopted 7/10/1983)

Table 3: Participant Summary

Division	2024 Valuation		2023 Valuation		2024 Valuation		
	Number	Annual Payroll ¹	Number	Annual Payroll ¹	Average Age	Average Benefit Service ²	Average Eligibility Service ²
01 - Gnrl NonUn.							
Active Employees	69	\$ 6,345,042	67	\$ 5,849,641	47.3	9.9	11.1
Vested Former Employees	18	453,248	17	409,809	50.9	12.3	16.1
Retirees and Beneficiaries	93	3,084,704	97	3,208,953	73.3		
Pending Refunds	15		14				
10 - General AFSCME							
Active Employees	20	\$ 1,305,213	21	\$ 1,299,421	53.6	20.6	20.6
Vested Former Employees	6	163,987	6	128,718	51.9	18.7	21.6
Retirees and Beneficiaries	121	2,702,585	123	2,741,228	71.7		
Pending Refunds	7		10				
11 - Gnl Transit							
Active Employees	1	\$ 88,442	1	\$ 88,292	54.9	23.4	23.4
Vested Former Employees	0	0	0	0	0.0	0.0	0.0
Retirees and Beneficiaries	32	727,675	34	759,989	69.3		
Pending Refunds	4		4				
12 - Gnrl BCSA							
Active Employees	15	\$ 1,411,484	15	\$ 1,334,194	54.0	23.7	23.7
Vested Former Employees	0	0	0	0	0.0	0.0	0.0
Retirees and Beneficiaries	59	2,202,854	59	2,202,854	69.0		
Pending Refunds	0		0				
13 - Gnl Housing							
Active Employees	5	\$ 416,184	6	\$ 503,866	59.6	23.6	23.6
Vested Former Employees	1	23,380	1	23,380	61.8	18.6	18.6
Retirees and Beneficiaries	10	399,695	10	376,163	68.3		
Pending Refunds	2		2				
14 - SEIU Local							
Active Employees	13	\$ 749,226	15	\$ 870,773	56.0	21.9	21.9
Vested Former Employees	5	80,833	6	85,796	48.4	11.2	13.0
Retirees and Beneficiaries	102	2,443,072	103	2,464,977	70.3		
Pending Refunds	10		11				
15 - City Mngr.							
Active Employees	1	\$ 154,238	2	\$ 359,978	47.8	0.4	9.7
Vested Former Employees	0	0	0	0	0.0	0.0	0.0
Retirees and Beneficiaries	11	630,044	9	522,213	70.2		
Pending Refunds	0		0				

Table 3 (continued)

Division	2024 Valuation		2023 Valuation		2024 Valuation		
	Number	Annual Payroll ¹	Number	Annual Payroll ¹	Average Age	Average Benefit Service ²	Average Eligibility Service ²
16 - Cntrl Disp.							
Active Employees	0	\$ 0	0	\$ 0	0.0	0.0	0.0
Vested Former Employees	2	14,164	3	29,230	56.4	7.5	16.3
Retirees and Beneficiaries	8	154,277	7	141,141	66.9		
Pending Refunds	4		5				
17 - Corr.Offrcs							
Active Employees	2	\$ 174,359	2	\$ 163,684	37.7	11.4	11.4
Vested Former Employees	2	25,792	3	26,176	48.5	8.7	18.9
Retirees and Beneficiaries	3	36,783	2	36,309	63.8		
Pending Refunds	1		1				
18 - General AFSCME after 12/1/10							
Active Employees	103	\$ 5,480,206	102	\$ 5,247,975	40.7	4.9	5.3
Vested Former Employees	4	23,998	4	26,974	43.9	7.7	16.1
Retirees and Beneficiaries	7	52,526	5	38,576	65.1		
Pending Refunds	59		47				
19 - Gen. SEIU hired after 7/1/201							
Active Employees	73	\$ 3,737,729	77	\$ 3,783,817	43.7	5.4	6.4
Vested Former Employees	3	10,199	3	11,740	47.1	5.2	8.3
Retirees and Beneficiaries	3	20,278	1	2,736	66.1		
Pending Refunds	33		27				
20 - Gen. BCSA hired after 1/1/201							
Active Employees	9	\$ 727,635	11	\$ 866,847	42.0	7.2	7.9
Vested Former Employees	0	0	0	0	0.0	0.0	0.0
Retirees and Beneficiaries	3	22,188	1	5,434	65.5		
Pending Refunds	2		1				
HA - GNL Trans hired after 3/1/10							
Active Employees	24	\$ 1,187,064	28	\$ 1,352,510	50.8	3.3	3.4
Vested Former Employees	14	35,650	9	24,061	45.8	3.9	7.8
Retirees and Beneficiaries	3	14,249	3	14,249	65.9		
Pending Refunds	0		0				
Total Municipality							
Active Employees	335	\$ 21,776,822	347	\$ 21,720,998	45.8	8.8	9.4
Vested Former Employees	55	831,251	52	765,884	49.1	9.8	14.0
Retirees and Beneficiaries	455	12,490,930	454	12,514,822	70.7		
Pending Refunds	137		122				
Total Participants	982		975				

¹ Annual payroll for active employees; annual deferred benefits payable for vested former employees; annual benefits being paid for retirees and beneficiaries.

² Descriptions can be found under Miscellaneous and Technical Assumptions in the Appendix.

Table 4: Reported Assets (Market Value)

Division	2024 Valuation		2023 Valuation	
	Employer and Retiree ¹	Employee ²	Employer and Retiree ¹	Employee ²
01 - Gnrl NonUn.	\$ 18,906,307	\$ 3,765,202	\$ 17,994,627	\$ 3,162,220
10 - General AFSCME	19,691,681	963,088	19,893,972	889,706
11 - Gnl Transit	4,471,907	50,013	4,592,964	44,694
12 - Gnrl BCSA	10,002,149	1,066,117	9,961,639	926,423
13 - Gnl Housing	5,635,048	143,389	5,435,423	165,243
14 - SEIU Local	14,802,657	668,961	15,074,984	664,785
15 - City Mngr.	1,191,956	5,355	1,083,598	52,495
16 - Cntrl Disp.	1,330,720	4,279	1,312,257	4,157
17 - Corr.Offrcs	846,684	101,864	821,005	88,388
18 - General AFSCME after 12/1/10	2,540,424	1,267,803	2,199,852	1,011,047
19 - Gen. SEIU hired after 7/1/201	1,562,041	1,065,944	1,300,742	904,804
20 - Gen. BCSA hired after 1/1/201	794,690	200,051	652,612	182,016
HA - GNL Trans hired after 3/1/10	1,042,400	4	903,295	689
S1 - Surplus Unassociated	2,428,106	0	1,719,646	0
S2 - Surplus AFSCME	432,138	0	354,877	0
S3 - Surplus Transit	88,690	0	72,349	0
S4 - Surplus BCSA	296,647	0	246,147	0
S5 - Surplus SEIU	478,532	0	399,346	0
SG - Surplus Grant Funds	5,824,010	0	5,428,227	0
Municipality Total³	\$ 92,366,785	\$ 9,302,069	\$ 89,447,563	\$ 8,096,667
Combined Assets³	\$101,668,855		\$97,544,230	

¹ Reserve for Employer Contributions and Benefit Payments.

² Reserve for Employee Contributions.

³ Totals may not add due to rounding.

The December 31, 2024 valuation assets (actuarial value of assets) are equal to 1.065367 times the reported market value of assets (compared to 1.099555 as of December 31, 2023). Refer to the Appendix for a description of the valuation asset derivation and a detailed calculation of valuation assets.

Assets in the Surplus division(s) are employer assets that have been reserved separately and may be used within the plan at the employer's discretion at some point in the future. These assets are not used in calculating the employer contribution for the fiscal year beginning July 1, 2026.

Table 5: Flow of Valuation Assets

Year Ended 12/31	Employer Contributions		Employee Contributions	Investment Income (Valuation Assets)	Benefit Payments	Employee Contribution Refunds	Net Transfers	Valuation Asset Balance
	Required	Additional						
2014	\$ 3,776,984	\$ 0	\$ 419,888	\$ 4,832,408	\$ (8,762,592)	\$ (13,880)	\$ 198,983	\$ 88,405,918
2015	4,004,442	99,850	443,676	4,113,925	(9,048,762)	(56,391)	52,309	88,014,967
2016	4,353,308	16,169	487,265	4,189,261	(9,572,000)	(8,787)	39,636	87,519,819
2017	5,035,846	346,606	546,536	5,040,598	(9,983,596)	(65,125)	2	88,440,686
2018	5,404,480	194,470	635,312	3,151,829	(10,495,785)	(16,549)	66,168	87,380,611
2019	5,367,992	162,593	717,521	3,940,352	(10,819,917)	(20,289)	281,556	87,010,419
2020	5,772,166	109,124	828,776	6,615,138	(11,101,024)	(68,551)	0	89,166,048
2021	6,058,748	573,900	953,917	14,897,718	(11,425,573)	(43,741)	99,841	100,280,858
2022	6,459,640	518,625	1,108,035	3,264,137	(11,733,733)	(39,626)	17,711	99,875,647
2023	6,853,720	5,931,932	1,296,677	5,600,636	(12,235,323)	(68,044)	0	107,255,245
2024	7,530,003	735,613	1,441,588	3,904,828	(12,468,612)	(84,022)	0	108,314,643

Notes:

Transfers in and out are usually related to the transfer of participants between municipalities, and to employer and employee payments for service credit purchases (if any) that the governing body has approved.

The investment income column reflects the recognized investment income based on Valuation Assets. It does not reflect the market value investment return in any given year.

The Valuation Asset balance includes assets from Surplus divisions, if any.

Years where historical information is not available will be displayed with zero values.

**Table 6: Actuarial Accrued Liabilities and Valuation Assets
as of December 31, 2024**

Division	Actuarial Accrued Liability					Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
	Active Employees	Vested Former Employees	Retirees and Beneficiaries	Pending Refunds	Total			
01 - Gnr1 NonUn.	\$ 15,327,000	\$ 2,881,025	\$ 30,120,771	\$ 137,752	\$ 48,466,548	\$ 24,153,477	49.8%	\$ 24,313,071
10 - General AFSCME	6,551,070	1,336,557	26,929,808	24,873	34,842,308	22,004,908	63.2%	12,837,400
11 - Gnl Transit	567,755	0	7,692,448	785	8,260,988	4,817,504	58.3%	3,443,484
12 - Gnr1 BCSA	8,822,104	0	23,316,708	0	32,138,812	11,791,765	36.7%	20,347,047
13 - Gnl Housing	3,122,310	344,611	4,216,200	1,005	7,684,126	6,156,156	80.1%	1,527,970
14 - SEIU Local	4,133,856	420,562	24,652,479	32,368	29,239,265	16,482,951	56.4%	12,756,314
15 - City Mngr.	35,657	0	6,495,829	0	6,531,486	1,275,575	19.5%	5,255,911
16 - Cntrl Disp.	0	170,946	1,651,168	4,279	1,826,393	1,422,264	77.9%	404,129
17 - Corr.Offrcs	353,653	142,095	435,355	4,041	935,144	1,010,552	108.1%	(75,408)
18 - General AFSCME after 12/1/10	3,291,982	90,418	615,367	206,841	4,204,608	4,057,159	96.5%	147,449
19 - Gen. SEIU hired after 7/1/201	2,543,490	54,923	243,625	174,926	3,016,964	2,799,769	92.8%	217,195
20 - Gen. BCSA hired after 1/1/201	591,171	0	242,223	33,221	866,615	1,059,764	122.3%	(193,149)
HA - GNL Trans hired after 3/1/10	475,204	194,127	162,899	0	832,230	1,110,543	133.4%	(278,313)
S1 - Surplus Unassociated	0	0	0	0	0	2,586,824		(2,586,824)
S2 - Surplus AFSCME	0	0	0	0	0	460,386		(460,386)
S3 - Surplus Transit	0	0	0	0	0	94,488		(94,488)
S4 - Surplus BCSA	0	0	0	0	0	316,038		(316,038)
S5 - Surplus SEIU	0	0	0	0	0	509,812		(509,812)
SG - Surplus Grant Funds	0	0	0	0	0	6,204,708		(6,204,708)
Total	\$ 45,815,252	\$ 5,635,264	\$ 126,774,880	\$ 620,091	\$ 178,845,487	\$ 108,314,643	60.6%	\$ 70,530,844

The following results show the combined accrued liabilities and assets for each set of linked divisions. These results are already shown in the table on the prior page(s).

Table 6 (continued)

Division	Actuarial Accrued Liability					Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
	Active Employees	Vested Former Employees	Retirees and Beneficiaries	Pending Refunds	Total			
Linked Divisions 18, 10	\$ 9,843,052	\$ 1,426,975	\$ 27,545,175	\$ 231,714	\$ 39,046,916	\$ 26,062,067	66.7%	\$ 12,984,849
Linked Divisions 19, 14	6,677,346	475,485	24,896,104	207,294	32,256,229	19,282,720	59.8%	12,973,509
Linked Divisions 20, 12	9,413,275	0	23,558,931	33,221	33,005,427	12,851,529	38.9%	20,153,898
Linked Divisions HA, 11	1,042,959	194,127	7,855,347	785	9,093,218	5,928,047	65.2%	3,165,171

Please see the **Comments on Asset Smoothing in the Executive Summary of this report**.

The December 31, 2024 valuation assets (actuarial value of assets) are equal to 1.065367 times the reported market value of assets. Refer to the Appendix for a description of the valuation asset derivation and a detailed calculation of valuation assets.

Table 7: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2010	\$ 121,967,784	\$ 88,247,674	72%	\$ 33,720,110
2011	125,554,938	86,028,191	69%	39,526,747
2012	125,080,017	85,424,555	68%	39,655,462
2013	128,362,120	87,954,127	69%	40,407,993
2014	132,642,371	88,405,918	67%	44,236,453
2015	142,257,026	88,014,967	62%	54,242,059
2016	144,605,126	87,519,819	61%	57,085,307
2017	147,753,489	88,440,686	60%	59,312,803
2018	151,060,394	87,380,611	58%	63,679,783
2019	157,393,873	87,010,419	55%	70,383,454
2020	165,362,658	89,166,048	54%	76,196,610
2021	172,588,041	100,280,858	58%	72,307,183
2022	174,308,950	99,875,647	57%	74,433,303
2023	178,881,383	107,255,245	60%	71,626,138
2024	178,845,487	108,314,643	61%	70,530,844

Notes: Actuarial assumptions were revised for the 2010, 2011, 2012, 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The Valuation Assets include assets from Surplus divisions, if any.

Years where historical information is not available will be displayed with zero values.

Throughout this report are references to valuation results generated prior to the 2018 valuation date. Results prior to 2018 were received directly from the prior actuary or extracted from the previous valuation system by MERS's technology service provider.

Tables 8 and 9: Division-Based Comparative Schedules

Division 01 - Gnrl NonUn.

Table 8-01: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 30,180,098	\$ 17,320,168	57%	\$ 12,859,930
2015	33,548,161	17,578,580	52%	15,969,581
2016	34,669,914	17,918,013	52%	16,751,901
2017	35,807,575	18,179,432	51%	17,628,143
2018	36,981,207	18,370,270	50%	18,610,937
2019	39,518,912	18,833,776	48%	20,685,136
2020	42,400,742	19,707,097	46%	22,693,645
2021	44,793,895	22,203,664	50%	22,590,231
2022	46,567,181	22,617,463	49%	23,949,718
2023	48,512,441	23,263,118	48%	25,249,323
2024	48,466,548	24,153,477	50%	24,313,071

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The percent funded does not reflect valuation assets from Surplus divisions, if any.

Table 9-01: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	52	\$ 3,749,622	30.62%	2.00%
2015	56	3,938,414	35.64%	3.00%
2016	60	4,381,947	34.68%	3.00%
2017	62	4,569,675	34.66%	4.00%
2018	63	4,857,655	34.32%	5.00%
2019	63	5,015,439	37.55%	6.00%
2020	62	4,956,886	40.52%	7.00%
2021	60	4,750,444	41.87%	8.00%
2022	61	5,053,041	42.73%	9.00%
2023	67	5,849,641	40.66%	10.00%
2024	69	6,345,042	37.55%	10.00%

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 reflect the full employer contribution requirement.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 10 - General AFSCME

Table 8-10: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 33,785,664	\$ 26,306,791	78%	\$ 7,478,873
2015	36,066,837	26,079,521	72%	9,987,316
2016	36,467,677	25,501,801	70%	10,965,876
2017	36,188,384	25,030,035	69%	11,158,349
2018	35,723,096	23,785,991	67%	11,937,105
2019	35,785,702	22,935,247	64%	12,850,455
2020	35,902,227	22,799,729	64%	13,102,498
2021	36,604,427	24,874,205	68%	11,730,222
2022	35,774,225	23,784,653	66%	11,989,572
2023	34,916,520	22,852,796	65%	12,063,724
2024	34,842,308	22,004,908	63%	12,837,400

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The percent funded does not reflect valuation assets from Surplus divisions, if any.

Table 9-10: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	74	\$ 3,506,111	\$ 65,035	2.50%
2015	64	3,048,947	\$ 81,776	2.50%
2016	59	2,871,821	\$ 86,243	2.75%
2017	52	2,534,173	\$ 85,715	2.75%
2018	43	2,310,685	\$ 91,171	2.75%
2019	39	2,083,790	\$ 98,418	3.00%
2020	36	1,966,400	\$ 97,891	4.00%
2021	31	1,738,811	\$ 86,632	5.00%
2022	26	1,553,810	\$ 90,662	6.00%
2023	21	1,299,421	\$ 93,366	7.00%
2024	20	1,305,213	\$ 102,854	7.00%

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 reflect the full employer contribution requirement.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 11 - Gnl Transit

Table 8-11: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 7,425,844	\$ 5,507,426	74%	\$ 1,918,418
2015	7,900,780	5,491,536	70%	2,409,244
2016	8,074,463	5,438,120	67%	2,636,343
2017	8,027,992	5,332,626	66%	2,695,366
2018	7,901,136	5,136,832	65%	2,764,304
2019	8,160,092	5,018,372	61%	3,141,720
2020	8,766,937	5,038,162	57%	3,728,775
2021	8,833,793	5,505,757	62%	3,328,036
2022	8,869,295	5,305,153	60%	3,564,142
2023	8,738,266	5,099,360	58%	3,638,906
2024	8,260,988	4,817,504	58%	3,443,484

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The percent funded does not reflect valuation assets from Surplus divisions, if any.

Table 9-11: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	21	\$ 922,129	\$ 16,948	2.50%
2015	19	818,690	\$ 20,243	2.50%
2016	14	654,579	\$ 20,305	2.50%
2017	11	568,014	\$ 20,135	2.50%
2018	8	388,202	\$ 19,739	2.50%
2019	8	453,462	\$ 23,264	4.00%
2020	7	507,353	\$ 27,922	4.50%
2021	5	380,053	\$ 24,033	5.00%
2022	4	305,542	\$ 26,575	5.00%
2023	1	88,292	\$ 26,846	5.00%
2024	1	88,442	\$ 26,242	5.00%

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 reflect the full employer contribution requirement.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 12 - Gnrl BCSA

Table 8-12: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 20,213,419	\$ 9,992,873	49%	\$ 10,220,546
2015	21,020,916	9,873,654	47%	11,147,262
2016	22,131,768	10,062,324	46%	12,069,444
2017	23,122,708	10,337,099	45%	12,785,609
2018	25,217,053	10,570,414	42%	14,646,639
2019	26,727,967	10,525,502	39%	16,202,465
2020	28,472,906	10,725,450	38%	17,747,456
2021	29,811,163	12,128,266	41%	17,682,897
2022	30,266,202	12,060,005	40%	18,206,197
2023	31,847,654	11,972,023	38%	19,875,631
2024	32,138,812	11,791,765	37%	20,347,047

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The percent funded does not reflect valuation assets from Surplus divisions, if any.

Table 9-12: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	22	\$ 1,442,714	\$ 63,841	4.16%
2015	21	1,369,555	\$ 72,746	4.16%
2016	22	1,464,338	\$ 78,955	5.16%
2017	22	1,636,242	\$ 86,042	5.16%
2018	22	1,739,995	\$ 101,346	5.16%
2019	20	1,532,858	\$ 114,566	5.16%
2020	19	1,591,095	\$ 125,668	6.16%
2021	19	1,519,835	\$ 124,856	6.66%
2022	16	1,341,405	\$ 132,175	7.16%
2023	15	1,334,194	\$ 150,577	7.16%
2024	15	1,411,484	\$ 159,675	7.16%

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 reflect the full employer contribution requirement.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 13 - Gnl Housing

Table 8-13: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 4,645,898	\$ 4,456,553	96%	\$ 189,345
2015	5,178,067	4,502,532	87%	675,535
2016	5,325,263	4,570,819	86%	754,444
2017	5,511,549	4,715,587	86%	795,962
2018	5,738,201	4,768,193	83%	970,008
2019	6,107,591	4,875,762	80%	1,231,829
2020	6,668,767	5,156,379	77%	1,512,388
2021	6,998,956	5,923,560	85%	1,075,396
2022	7,218,797	6,033,136	84%	1,185,661
2023	7,733,186	6,158,241	80%	1,574,945
2024	7,684,126	6,156,156	80%	1,527,970

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The percent funded does not reflect valuation assets from Surplus divisions, if any.

Table 9-13: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	11	\$ 650,340	\$ 8,211	1.50%
2015	11	671,847	\$ 12,544	1.50%
2016	10	613,062	\$ 11,874	1.50%
2017	9	581,402	\$ 11,927	1.50%
2018	9	570,602	\$ 13,308	1.50%
2019	9	576,289	\$ 15,683	1.50%
2020	8	556,800	\$ 17,542	1.50%
2021	8	540,560	\$ 13,159	1.50%
2022	8	558,544	\$ 15,095	1.50%
2023	6	503,866	\$ 19,925	1.50%
2024	5	416,184	\$ 18,993	1.50%

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 reflect the full employer contribution requirement.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 14 - SEIU Local

Table 8-14: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 27,956,726	\$ 20,831,443	75%	\$ 7,125,283
2015	29,572,682	20,382,825	69%	9,189,857
2016	28,733,313	19,754,399	69%	8,978,914
2017	29,123,358	19,534,681	67%	9,588,677
2018	28,801,347	18,563,790	64%	10,237,557
2019	29,291,747	17,863,318	61%	11,428,429
2020	30,252,511	17,653,864	58%	12,598,647
2021	31,137,344	19,104,504	61%	12,032,840
2022	30,254,894	18,009,870	60%	12,245,024
2023	30,347,381	17,306,741	57%	13,040,640
2024	29,239,265	16,482,951	56%	12,756,314

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The percent funded does not reflect valuation assets from Surplus divisions, if any.

Table 9-14: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	67	\$ 3,128,958	\$ 61,491	2.50%
2015	60	2,876,019	\$ 75,943	2.50%
2016	47	2,255,302	\$ 68,730	3.00%
2017	41	2,046,849	\$ 72,286	3.00%
2018	34	1,735,412	\$ 75,459	3.50%
2019	29	1,502,243	\$ 83,578	4.50%
2020	24	1,146,545	\$ 90,504	5.00%
2021	20	1,102,139	\$ 85,430	6.00%
2022	17	911,036	\$ 89,159	6.50%
2023	15	870,773	\$ 98,597	7.00%
2024	13	749,226	\$ 99,154	7.00%

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 reflect the full employer contribution requirement.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 15 - City Mngr.

Table 8-15: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 5,766,202	\$ 1,011,334	18%	\$ 4,754,868
2015	5,778,113	800,626	14%	4,977,487
2016	5,768,822	633,488	11%	5,135,334
2017	5,761,769	842,843	15%	4,918,926
2018	5,765,992	1,076,925	19%	4,689,067
2019	5,947,910	1,024,720	17%	4,923,190
2020	6,116,523	1,095,597	18%	5,020,926
2021	6,269,809	1,246,922	20%	5,022,887
2022	6,334,580	1,220,847	19%	5,113,733
2023	6,371,689	1,249,197	20%	5,122,492
2024	6,531,486	1,275,575	20%	5,255,911

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The percent funded does not reflect valuation assets from Surplus divisions, if any.

Table 9-15: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	2	\$ 231,433	138.91%	0.00%
2015	2	250,936	375.83%	0.00%
2016	2	261,147	152.10%	0.00%
2017	2	267,898	143.67%	0.00%
2018	2	273,550	201.41%	0.00%
2019	2	289,000	132.48%	1.00%
2020	2	299,063	137.31%	2.00%
2021	2	301,029	139.79%	3.00%
2022	2	341,200	158.56%	4.00%
2023	2	359,978	128.63%	5.00%
2024	1	154,238	403.56%	5.00%

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 reflect the full employer contribution requirement.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 16 - Cntrl Disp.

Table 8-16: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 1,500,422	\$ 1,531,662	102%	\$ (31,240)
2015	1,626,639	1,500,876	92%	125,763
2016	1,535,118	1,468,956	96%	66,162
2017	1,695,002	1,451,098	86%	243,904
2018	1,716,553	1,396,324	81%	320,229
2019	1,806,249	1,350,985	75%	455,264
2020	1,888,286	1,352,971	72%	535,315
2021	1,947,809	1,491,110	77%	456,699
2022	1,939,766	1,458,845	75%	480,921
2023	1,942,564	1,447,470	75%	495,094
2024	1,826,393	1,422,264	78%	404,129

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The percent funded does not reflect valuation assets from Surplus divisions, if any.

Table 9-16: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	0	\$ 0	\$ 0	0.00%
2015	0	0	\$ 995	0.00%
2016	0	0	\$ 482	7.20%
2017	0	0	\$ 2,292	7.20%
2018	0	0	\$ 3,327	7.20%
2019	0	0	\$ 5,213	7.20%
2020	0	0	\$ 6,305	7.20%
2021	0	0	\$ 5,664	7.20%
2022	0	0	\$ 6,550	7.20%
2023	0	0	\$ 7,346	7.20%
2024	0	0	\$ 7,010	7.20%

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 reflect the full employer contribution requirement.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 17 - Corr.Offrcs

Table 8-17: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 462,403	\$ 752,232	163%	\$ (289,829)
2015	484,089	761,040	157%	(276,951)
2016	502,874	773,471	154%	(270,597)
2017	564,276	816,984	145%	(252,708)
2018	605,858	820,853	135%	(214,995)
2019	647,412	826,937	128%	(179,525)
2020	698,195	861,071	123%	(162,876)
2021	766,987	976,297	127%	(209,310)
2022	821,069	979,133	119%	(158,064)
2023	890,622	999,928	112%	(109,306)
2024	935,144	1,010,552	108%	(75,408)

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The percent funded does not reflect valuation assets from Surplus divisions, if any.

Table 9-17: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	1	\$ 58,695	0.00%	3.12%
2015	1	55,018	0.00%	3.12%
2016	1	70,915	0.00%	3.12%
2017	2	118,639	0.00%	3.12%
2018	2	132,460	0.00%	3.12%
2019	2	125,445	0.00%	3.62%
2020	2	136,552	0.00%	4.12%
2021	2	139,744	0.00%	4.62%
2022	2	151,928	0.00%	5.12%
2023	2	163,684	0.00%	5.62%
2024	2	174,359	0.00%	5.62%

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 reflect the full employer contribution requirement.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 18 - General AFSCME after 12/1/10

Table 8-18: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 378,614	\$ 363,551	96%	\$ 15,063
2015	547,342	532,171	97%	15,171
2016	651,476	670,887	103%	(19,411)
2017	964,264	946,054	98%	18,210
2018	1,334,569	1,233,806	92%	100,763
2019	1,598,956	1,569,133	98%	29,823
2020	2,013,916	1,949,503	97%	64,413
2021	2,521,970	2,570,368	102%	(48,398)
2022	2,974,415	2,994,746	101%	(20,331)
2023	3,573,735	3,530,560	99%	43,175
2024	4,204,608	4,057,159	96%	147,449

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The percent funded does not reflect valuation assets from Surplus divisions, if any.

Table 9-18: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	36	\$ 1,611,962	4.92%	2.50%
2015	49	2,110,015	5.29%	2.50%
2016	56	2,351,415	5.36%	2.50%
2017	64	2,873,816	5.26%	2.50%
2018	74	3,452,289	5.29%	2.50%
2019	75	3,542,516	4.64%	3.00%
2020	79	3,828,506	4.33%	3.00%
2021	83	4,103,282	3.88%	4.00%
2022	94	4,752,225	3.76%	4.00%
2023	102	5,247,975	3.21%	5.00%
2024	103	5,480,206	3.25%	5.00%

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 reflect the full employer contribution requirement.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 19 - Gen. SEIU hired after 7/1/201

Table 8-19: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 196,839	\$ 204,319	104%	\$ (7,480)
2015	337,562	319,482	95%	18,080
2016	480,731	460,534	96%	20,197
2017	646,414	599,392	93%	47,022
2018	849,830	766,136	90%	83,694
2019	1,206,115	1,079,501	90%	126,614
2020	1,424,649	1,385,508	97%	39,141
2021	1,900,839	1,836,059	97%	64,780
2022	2,072,881	2,066,435	100%	6,446
2023	2,537,015	2,425,119	96%	111,896
2024	3,016,964	2,799,769	93%	217,195

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The percent funded does not reflect valuation assets from Surplus divisions, if any.

Table 9-19: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	35	\$ 1,269,348	4.78%	2.50%
2015	35	1,339,053	5.01%	2.50%
2016	43	1,680,900	4.64%	3.00%
2017	50	1,987,507	4.73%	3.00%
2018	57	2,415,318	4.30%	3.50%
2019	62	2,808,111	3.99%	4.00%
2020	60	2,594,579	3.24%	4.50%
2021	63	2,984,469	3.38%	5.00%
2022	68	3,269,156	3.41%	5.00%
2023	77	3,783,817	3.78%	5.00%
2024	73	3,737,729	3.81%	5.00%

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 reflect the full employer contribution requirement.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 20 - Gen. BCSA hired after 1/1/201

Table 8-20: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 38,187	\$ 38,604	101%	\$ (417)
2015	62,944	57,950	92%	4,994
2016	87,530	78,575	90%	8,955
2017	114,802	101,388	88%	13,414
2018	126,497	133,592	106%	(7,095)
2019	170,186	168,873	99%	1,313
2020	183,454	205,289	112%	(21,835)
2021	319,510	334,660	105%	(15,150)
2022	496,525	460,747	93%	35,778
2023	719,268	917,719	128%	(198,451)
2024	866,615	1,059,764	122%	(193,149)

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The percent funded does not reflect valuation assets from Surplus divisions, if any.

Table 9-20: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	3	\$ 166,152	5.18%	2.50%
2015	3	204,667	5.44%	2.50%
2016	3	212,173	5.45%	2.50%
2017	3	217,191	5.50%	2.50%
2018	5	321,977	6.51%	2.50%
2019	5	342,622	6.78%	2.50%
2020	4	317,233	6.53%	3.50%
2021	7	518,173	6.42%	4.00%
2022	9	684,355	5.48%	4.50%
2023	11	866,847	3.21%	5.00%
2024	9	727,635	2.52%	5.00%

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 reflect the full employer contribution requirement.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division HA - GNL Trans hired after 3/1/10

Table 8-HA: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 92,055	\$ 88,962	97%	\$ 3,093
2015	132,894	134,174	101%	(1,280)
2016	176,177	188,432	107%	(12,255)
2017	225,396	259,030	115%	(33,634)
2018	299,055	341,397	114%	(42,342)
2019	425,034	433,040	102%	(8,006)
2020	573,545	564,640	98%	8,905
2021	681,539	749,575	110%	(68,036)
2022	719,120	865,642	120%	(146,522)
2023	751,042	993,980	132%	(242,938)
2024	832,230	1,110,543	133%	(278,313)

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

The percent funded does not reflect valuation assets from Surplus divisions, if any.

Table 9-HA: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	12	\$ 463,172	6.38%	0.00%
2015	14	566,021	6.93%	0.00%
2016	15	635,176	6.37%	0.00%
2017	22	915,691	6.56%	0.00%
2018	26	1,077,600	6.29%	0.00%
2019	28	1,243,368	6.39%	0.00%
2020	28	1,413,668	6.24%	0.00%
2021	23	1,348,227	6.77%	0.00%
2022	21	1,175,090	5.96%	0.00%
2023	28	1,352,510	5.57%	0.00%
2024	24	1,187,064	4.80%	0.00%

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 reflect the full employer contribution requirement.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division S1 - Surplus Unassociated

Table 8-S1: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 0	\$ 0		\$ 0
2015	0	0		0
2016	0	0		0
2017	0	294,437		(294,437)
2018	0	416,088		(416,088)
2019	0	481,122		(481,122)
2020	0	593,106		(593,106)
2021	0	1,043,457		(1,043,457)
2022	0	1,265,585		(1,265,585)
2023	0	1,890,845		(1,890,845)
2024	0	2,586,824		(2,586,824)

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

Years where historical information is not available will be displayed with zero values.

Division S2 - Surplus AFSCME

Table 8-S2: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 0	\$ 0		\$ 0
2015	0	0		0
2016	0	0		0
2017	0	0		0
2018	0	0		0
2019	0	0		0
2020	0	9,166		(9,166)
2021	0	90,530		(90,530)
2022	0	252,708		(252,708)
2023	0	390,207		(390,207)
2024	0	460,386		(460,386)

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

Years where historical information is not available will be displayed with zero values.

Division S3 - Surplus Transit

Table 8-S3: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 0	\$ 0		\$ 0
2015	0	0		0
2016	0	0		0
2017	0	0		0
2018	0	0		0
2019	0	0		0
2020	0	678		(678)
2021	0	12,466		(12,466)
2022	0	45,124		(45,124)
2023	0	79,552		(79,552)
2024	0	94,488		(94,488)

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

Years where historical information is not available will be displayed with zero values.

Division S4 - Surplus BCSA

Table 8-S4: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 0	\$ 0		\$ 0
2015	0	0		0
2016	0	0		0
2017	0	0		0
2018	0	0		0
2019	0	0		0
2020	0	4,098		(4,098)
2021	0	55,404		(55,404)
2022	0	168,259		(168,259)
2023	0	270,652		(270,652)
2024	0	316,038		(316,038)

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

Years where historical information is not available will be displayed with zero values.

Division S5 - Surplus SEIU

Table 8-S5: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 0	\$ 0		\$ 0
2015	0	0		0
2016	0	0		0
2017	0	0		0
2018	0	0		0
2019	0	24,131		(24,131)
2020	0	63,740		(63,740)
2021	0	134,054		(134,054)
2022	0	287,296		(287,296)
2023	0	439,103		(439,103)
2024	0	509,812		(509,812)

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

Years where historical information is not available will be displayed with zero values.

Division SG - Surplus Grant Funds

Table 8-SG: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 0	\$ 0		\$ 0
2015	0	0		0
2016	0	0		0
2017	0	0		0
2018	0	0		0
2019	0	0		0
2020	0	0		0
2021	0	0		0
2022	0	0		0
2023	0	5,968,634		(5,968,634)
2024	0	6,204,708		(6,204,708)

Notes: Actuarial assumptions were revised for the 2015, 2019, 2020, 2021, 2023, and 2024 actuarial valuations.

Years where historical information is not available will be displayed with zero values.

Table 10: Division-Based Layered Amortization Schedule

Division 01 - Gnrl NonUn.

Table 10-01: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 7/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 15,969,581	23	\$ 15,765,924	14	\$ 1,468,344
(Gain)/Loss	12/31/2016	375,584	22	396,911	14	36,972
(Gain)/Loss	12/31/2017	639,742	21	671,591	14	62,544
Amendment	12/31/2017	(16,827)	21	(17,678)	14	(1,644)
(Gain)/Loss	12/31/2018	789,675	20	825,257	14	76,860
Amendment	12/31/2018	(11,551)	20	(12,069)	14	(1,128)
(Gain)/Loss	12/31/2019	827,263	19	857,909	14	79,896
Assumption	12/31/2019	1,084,340	19	1,016,134	14	94,632
Amendment	12/31/2019	(16,736)	19	(17,341)	14	(1,620)
Experience	12/31/2020	1,849,357	18	1,930,233	14	179,772
Experience	12/31/2021	(334,789)	17	(351,008)	14	(32,688)
Experience	12/31/2022	1,553,889	16	1,652,119	14	153,864
Experience	12/31/2023	1,478,119	15	1,598,197	14	148,848
Experience	12/31/2024	(719,180)	15	(795,219)	15	(70,308)
Total				\$ 23,520,960		\$ 2,194,344

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2024 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2024 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division 10 - General AFSCME

Table 10-10: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 7/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 9,987,316	23	\$ 9,973,302	14	\$ 928,860
(Gain)/Loss	12/31/2016	653,157	22	690,271	14	64,284
Amendment	12/31/2016	(3,650)	22	(3,861)	14	(360)
(Gain)/Loss	12/31/2017	(42,807)	21	(44,933)	14	(4,188)
(Gain)/Loss	12/31/2018	664,814	20	694,775	14	64,704
(Gain)/Loss	12/31/2019	(237,954)	19	(246,766)	14	(22,980)
Assumption	12/31/2019	1,039,343	19	1,012,762	14	94,320
Amendment	12/31/2019	(2,702)	19	(2,802)	14	(264)
Experience	12/31/2020	173,894	18	181,480	14	16,908
Experience	12/31/2021	(1,424,447)	17	(1,493,437)	14	(139,092)
Experience	12/31/2022	494,391	16	525,635	14	48,960
Experience	12/31/2023	241,621	15	261,245	14	24,336
Experience	12/31/2024	928,079	15	1,026,205	15	90,732
Total				\$ 12,573,876		\$ 1,166,220

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2024 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2024 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division 11 - Gnl Transit

Table 10-11: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 7/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 2,409,244	23	\$ 2,383,218	14	\$ 221,964
(Gain)/Loss	12/31/2016	162,926	22	172,184	14	16,032
(Gain)/Loss	12/31/2017	10,426	21	10,949	14	1,020
(Gain)/Loss	12/31/2018	39,748	20	41,550	14	3,876
(Gain)/Loss	12/31/2019	117,082	19	121,422	14	11,304
Assumption	12/31/2019	242,978	19	235,964	14	21,972
Amendment	12/31/2019	(799)	19	(825)	14	(72)
Experience	12/31/2020	560,599	18	585,114	14	54,492
Experience	12/31/2021	(460,710)	17	(483,027)	14	(44,988)
Experience	12/31/2022	285,906	16	303,969	14	28,308
Experience	12/31/2023	114,594	15	123,899	14	11,544
Experience	12/31/2024	(158,439)	15	(175,191)	15	(15,492)
Total				\$ 3,319,226		\$ 309,960

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2024 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2024 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division 12 - Gnrl BCSA

Table 10-12: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 7/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 11,147,262	23	\$ 10,945,410	14	\$ 1,019,388
(Gain)/Loss	12/31/2016	695,820	22	735,342	14	68,484
Amendment	12/31/2016	1,542	22	1,616	14	156
(Gain)/Loss	12/31/2017	509,676	21	535,035	14	49,836
(Gain)/Loss	12/31/2018	1,693,160	20	1,769,454	14	164,796
(Gain)/Loss	12/31/2019	507,365	19	526,151	14	49,008
Assumption	12/31/2019	828,147	19	773,752	14	72,060
Experience	12/31/2020	1,389,641	18	1,450,414	14	135,084
Experience	12/31/2021	(235,283)	17	(246,669)	14	(22,968)
Experience	12/31/2022	675,742	16	718,459	14	66,912
Experience	12/31/2023	1,846,394	15	1,996,398	14	185,928
Experience	12/31/2024	607,947	15	672,226	15	59,436
Total				\$ 19,877,588		\$ 1,848,120

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2024 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2024 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division 13 - Gnl Housing

Table 10-13: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 7/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 675,535	20	\$ 612,484	9	\$ 81,348
(Gain)/Loss	12/31/2016	6,402	18	5,685	9	756
(Gain)/Loss	12/31/2017	17,679	16	15,722	9	2,088
(Gain)/Loss	12/31/2018	172,396	15	154,999	9	20,592
(Gain)/Loss	12/31/2019	57,519	14	52,222	9	6,936
Assumption	12/31/2019	196,079	14	172,981	9	22,980
Experience	12/31/2020	270,124	13	251,572	9	33,408
Experience	12/31/2021	(448,697)	12	(429,194)	9	(57,000)
Experience	12/31/2022	174,960	11	174,154	9	23,136
Experience	12/31/2023	437,364	10	456,269	9	60,600
Experience	12/31/2024	(37,951)	10	(41,964)	10	(5,100)
Total				\$ 1,424,930		\$ 189,744

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2024 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2024 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Table 10-14: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 7/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 9,189,857	23	\$ 9,167,326	14	\$ 853,788
(Gain)/Loss	12/31/2016	(537,210)	22	(567,728)	14	(52,872)
Amendment	12/31/2016	5,043	22	5,322	14	492
(Gain)/Loss	12/31/2017	508,934	21	534,255	14	49,752
(Gain)/Loss	12/31/2018	556,118	20	581,170	14	54,132
Amendment	12/31/2018	(3,597)	20	(3,755)	14	(348)
(Gain)/Loss	12/31/2019	227,812	19	236,253	14	22,008
Assumption	12/31/2019	844,849	19	817,744	14	76,164
Amendment	12/31/2019	3,128	19	3,242	14	300
Experience	12/31/2020	1,075,340	18	1,122,370	14	104,532
Experience	12/31/2021	(699,052)	17	(732,896)	14	(68,256)
Experience	12/31/2022	354,031	16	376,414	14	35,052
Experience	12/31/2023	946,448	15	1,023,338	14	95,304
Experience	12/31/2024	(168,132)	15	(185,909)	15	(16,440)
Total				\$ 12,377,146		\$ 1,153,608

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2024 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2024 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division 15 - City Mngr.

Table 10-15: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 7/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Experience	12/31/2024	\$ 4,593,708	15	5,079,404	15	\$ 642,144
Total				\$ 5,079,404		\$ 642,144

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2024 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2024 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division 16 - Cntrl Disp.

Table 10-16: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 7/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 125,763	16	\$ 60,009	3	\$ 21,456
(Gain)/Loss	12/31/2016	(69,400)	14	(33,453)	3	(11,964)
(Gain)/Loss	12/31/2017	178,820	12	87,925	3	31,440
(Gain)/Loss	12/31/2018	66,509	10	40,016	4	10,932
(Gain)/Loss	12/31/2019	64,145	10	45,394	5	10,104
Assumption	12/31/2019	63,503	10	43,478	5	9,672
Experience	12/31/2020	81,418	10	65,813	6	12,432
Experience	12/31/2021	(67,386)	10	(60,193)	7	(9,924)
Experience	12/31/2022	63,636	10	61,946	8	9,096
Experience	12/31/2023	54,493	10	56,847	9	7,548
Experience	12/31/2024	(49,571)	10	(54,812)	10	(6,672)
Total				\$ 312,970		\$ 84,120

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2024 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2024 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division 17 - Corr.Offrcs

Table 10-17: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 7/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ (276,951)	10	\$ (189,671)	6	\$ (35,820)
(Gain)/Loss	12/31/2016	23,820	15	18,573	7	3,060
(Gain)/Loss	12/31/2017	33,527	15	28,301	8	4,152
(Gain)/Loss	12/31/2018	36,193	15	32,532	9	4,320
(Gain)/Loss	12/31/2019	(31,422)	15	(29,563)	10	(3,600)
Assumption	12/31/2019	23,941	15	23,541	10	2,868
Amendment	12/31/2019	(755)	10	(530)	5	(120)
Experience	12/31/2020	4,851	15	4,782	11	540
Experience	12/31/2021	(58,102)	15	(59,220)	12	(6,216)
Experience	12/31/2022	38,588	15	40,650	13	4,008
Experience	12/31/2023	36,018	15	38,949	14	3,624
Experience	12/31/2024	19,854	15	21,953	15	1,944
Total				\$ (69,703)		\$ (21,240)

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2024 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2024 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division 18 - General AFSCME after 12/1/10

Table 10-18: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 7/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Experience	12/31/2023	\$ 43,175	15	\$ 46,680	14	\$ 4,344
Experience	12/31/2024	101,282	15	111,991	15	9,900
Total				\$ 158,671		\$ 14,244

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2024 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2024 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division 19 - Gen. SEIU hired after 7/1/201

Table 10-19: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 7/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 18,080	23	\$ 24,600	14	\$ 2,292
(Gain)/Loss	12/31/2016	(875)	22	(902)	14	(84)
Amendment	12/31/2016	(5,553)	22	(5,872)	14	(552)
(Gain)/Loss	12/31/2017	28,079	21	29,480	14	2,748
(Gain)/Loss	12/31/2018	44,223	20	46,206	14	4,308
Amendment	12/31/2018	(9,705)	20	(10,140)	14	(948)
(Gain)/Loss	12/31/2019	36,020	19	37,354	14	3,480
Assumption	12/31/2019	15,752	19	15,626	14	1,452
Amendment	12/31/2019	(12,655)	19	(13,119)	14	(1,224)
Experience	12/31/2020	(91,619)	18	(95,616)	14	(8,904)
Experience	12/31/2021	31,236	17	32,736	14	3,048
Experience	12/31/2022	(56,300)	16	(59,858)	14	(5,580)
Experience	12/31/2023	108,858	15	117,701	14	10,968
Experience	12/31/2024	100,289	15	110,893	15	9,804
Total				\$ 229,089		\$ 20,808

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2024 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2024 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division 20 - Gen. BCSA hired after 1/1/201

Table 10-20: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 7/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Experience	12/31/2023	\$ (201,739)	15	\$ (218,124)	14	\$ (20,316)
Experience	12/31/2024	20,839	15	23,042	15	2,040
Total				\$ (195,082)		\$ (18,276)

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2024 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2024 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division HA - GNL Trans hired after 3/1/10

Table 10-HA: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 7/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Experience	12/31/2021	\$ (68,781)	15	\$ (70,105)	12	\$ (7,356)
Experience	12/31/2022	(79,820)	15	(84,071)	13	(8,292)
Experience	12/31/2023	(85,393)	15	(92,327)	14	(8,604)
Experience	12/31/2024	(26,071)	15	(28,827)	15	(2,544)
Total				\$ (275,330)		\$ (26,796)

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2024 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2024 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

GASB Statement No. 68 Information

The following information has been prepared to provide some of the information necessary to complete GASB Statement No. 68 disclosures. GASB Statement No. 68 is effective for fiscal years beginning after June 15, 2014. Additional resources, including an Implementation Guide, are available at <http://www.mersofmich.com/>.

Actuarial Valuation Date:	12/31/2024
Measurement Date of the Total Pension Liability (TPL):	12/31/2024
At 12/31/2024, the following employees were covered by the benefit terms:	
Inactive employees or beneficiaries currently receiving benefits:	455
Inactive employees entitled to but not yet receiving benefits (including refunds):	192
Active employees:	<u>335</u>
	982
Total Pension Liability as of 12/31/2023 measurement date:	\$ 174,512,030
Total Pension Liability as of 12/31/2024 measurement date:	\$ 174,512,686
Service Cost for the year ending on the 12/31/2024 measurement date:	\$ 2,399,517
Change in the Total Pension Liability due to:	
- Benefit changes ¹ :	\$ 0
- Differences between expected and actual experience ² :	\$ (1,140,641)
- Changes in assumptions ² :	\$ (871,050)
Average expected remaining service lives of all employees (active and inactive):	3
Covered employee payroll (Needed for Required Supplementary Information):	
	\$ 21,776,822

Note: Covered employee payroll may differ from the GASB Statement No. 68 definition.

Sensitivity of the Net Pension Liability to changes in the discount rate:

	1% Decrease <u>(6.18%)</u>	Current Discount <u>Rate (7.18%)</u>	1% Increase <u>(8.18%)</u>
Change in Net Pension Liability as of 12/31/2024:	\$ 18,491,831	\$ 0	\$ (15,647,585)

Note: The current discount rate shown for GASB Statement No. 68 purposes is higher than the MERS assumed rate of return.

This is because for GASB Statement No. 68 purposes, the discount rate must be gross of administrative expenses, whereas for funding purposes it is net of administrative expenses.

Benefit Provision History

The following benefit provision history is provided by MERS. Any corrections to this history or discrepancies between this information and information displayed elsewhere in the valuation report should be reported to MERS. All provisions are listed by date of adoption.

01 - Gnrl NonUn.

9/1/2023	Pension Grant Recipient
7/1/2023	Participant Contribution Rate 10%
7/1/2022	Participant Contribution Rate 9%
7/1/2021	Participant Contribution Rate 8%
1/1/2021	Custom Wages
1/1/2021	Long Term Disability - Service Granted
1/1/2021	Other Leave - Service Granted
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Short Term Disability - Service Granted
1/1/2021	Workers Compensation - Service Granted
7/1/2020	Participant Contribution Rate 7%
7/1/2019	Participant Contribution Rate 6%
7/1/2018	Participant Contribution Rate 5%
7/1/2017	Participant Contribution Rate 4%
12/1/2016	Service Credit Purchase Estimates - Yes
7/1/2015	Participant Contribution Rate 3%
4/1/2010	Non Standard Compensation Definition
7/1/2000	Temporary Benefit F55 (With 20 Years of Service) (07/01/2000 - 09/03/2000)
1/1/1996	2.50% Multiplier (Capped at 80% of FAC)
1/1/1996	Member Contribution Rate 2.00%
7/1/1994	Member Contribution Rate 1.50%
6/1/1993	2.25% Multiplier (Capped at 80% of FAC)
6/1/1993	Benefit FAC-3 (3 Year Final Average Compensation)
6/1/1993	Temporary Benefit RS 50 (50% Post-Ret. Spouse Benefits) (06/01/1993 - 08/03/1993)
1/1/1989	Flexible E 2% COLA Adopted (01/01/1989)
3/1/1987	Benefit F55 (With 25 Years of Service)
3/1/1987	Member Contribution Rate 0.00%
2/1/1986	2.00% Multiplier until SS Age, then 1.70% Multiplier
5/6/1975	Exclude Temporary Employees
8/1/1973	1.20% Multiplier on FAC < \$4,200 and 1.70% Multiplier on FAC > \$4,200
7/10/1973	Covered by Act 88
7/1/1962	1.00% Multiplier on FAC < \$4,200 and 1.50% Multiplier on FAC > \$4,200
7/1/1962	10 Year Vesting
7/1/1962	Benefit FAC-5 (5 Year Final Average Compensation)
7/1/1962	Fiscal Month - July
7/1/1962	Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00%
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

10 - General AFSCME

9/1/2023	Pension Grant Recipient
7/1/2023	Participant Contribution Rate 7%

10 - General AFSCME

7/1/2022	Participant Contribution Rate 6%
7/1/2021	Participant Contribution Rate 5%
1/1/2021	Custom Wages
1/1/2021	Long Term Disability - Service Granted
1/1/2021	Other Leave - Service Granted
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Short Term Disability - Service Granted
1/1/2021	Workers Compensation - Service Granted
7/1/2020	Participant Contribution Rate 4%
12/1/2019	Participant Contribution Rate 3%
12/1/2016	Service Credit Purchase Estimates - Yes
9/1/2016	Participant Contribution Rate 2.75%
1/1/2011	Non Standard Compensation Definition
10/1/1995	Member Contribution Rate 2.50%
6/1/1995	2.50% Multiplier (Capped at 80% of FAC)
6/1/1995	Member Contribution Rate 2.00%
1/1/1994	2.25% Multiplier (Capped at 80% of FAC)
1/1/1994	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/1994	Member Contribution Rate 1.50%
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
2/1/1986	10 Year Vesting
2/1/1986	2.00% Multiplier until SS Age, then 1.70% Multiplier
2/1/1986	Benefit F55 (With 25 Years of Service)
2/1/1986	Benefit FAC-5 (5 Year Final Average Compensation)
2/1/1986	Member Contribution Rate 0.00%
7/10/1973	Covered by Act 88
7/1/1962	Fiscal Month - July
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

11 - Gnl Transit

9/1/2023	Pension Grant Recipient
7/1/2021	Participant Contribution Rate 5%
1/1/2021	Custom Wages
1/1/2021	Long Term Disability - Service Granted
1/1/2021	Other Leave - Service Granted
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Short Term Disability - Service Granted
1/1/2021	Workers Compensation - Service Granted
7/1/2020	Participant Contribution Rate 4.5%
7/1/2019	Participant Contribution Rate 4%
12/1/2016	Service Credit Purchase Estimates - Yes
11/1/2009	Non Standard Compensation Definition
12/1/2001	Temporary 8 Year Vesting (12/01/2001 - 02/03/2002)
11/1/2000	Member Contribution Rate 2.50%
10/1/1998	Member Contribution Rate 1.75%
9/1/1998	2.50% Multiplier (Capped at 80% of FAC)
1/1/1997	2.25% Multiplier (Capped at 80% of FAC)
1/1/1997	Benefit FAC-3 (3 Year Final Average Compensation)

11 - Gnl Transit

1/1/1997	Member Contribution Rate 1.50%
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
11/1/1986	2.00% Multiplier until SS Age, then 1.70% Multiplier
4/1/1986	10 Year Vesting
4/1/1986	Benefit F55 (With 25 Years of Service)
4/1/1986	Benefit FAC-5 (5 Year Final Average Compensation)
4/1/1986	Member Contribution Rate 0.00%
7/10/1973	Covered by Act 88
7/1/1962	Fiscal Month - July
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

12 - Gnrl BCSA

9/1/2023	Pension Grant Recipient
7/22/2022	Participant Contribution Rate 7.16%
7/1/2021	Participant Contribution Rate 6.66%
1/1/2021	Custom Wages
1/1/2021	Long Term Disability - Service Granted
1/1/2021	Other Leave - Service Granted
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Short Term Disability - Service Granted
1/1/2021	Workers Compensation - Service Granted
7/1/2020	Participant Contribution Rate 6.16%
10/1/2019	Participant Contribution Rate 5.66%
12/1/2016	Service Credit Purchase Estimates - Yes
9/1/2016	Participant Contribution Rate 5.16%
6/1/2010	Non Standard Compensation Definition
5/1/2003	Benefit RS 50 (50% Post-Ret. Spouse Benefits)
5/1/2003	Member Contribution Rate 4.16%
7/1/1996	Member Contribution Rate 2.50%
1/1/1996	2.50% Multiplier (Capped at 80% of FAC)
1/1/1996	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/1996	Member Contribution Rate 2.00%
1/1/1994	2.25% Multiplier (Capped at 80% of FAC)
1/1/1994	Member Contribution Rate 1.50%
1/1/1989	Flexible E 2% COLA Adopted (01/01/1989)
6/1/1987	Benefit F55 (With 25 Years of Service)
6/1/1986	10 Year Vesting
6/1/1986	2.00% Multiplier until SS Age, then 1.70% Multiplier
6/1/1986	Benefit FAC-5 (5 Year Final Average Compensation)
5/11/1986	Member Contribution Rate 0.00%
7/10/1973	Covered by Act 88
7/1/1962	Fiscal Month - July
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

13 - Gnl Housing

9/1/2023	Pension Grant Recipient
1/1/2021	Custom Wages

13 - Gnl Housing

1/1/2021	Long Term Disability - Service Granted
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Short Term Disability - Service Granted
1/1/2021	Workers Compensation - Service Granted
12/1/2020	Non-Accelerated Amortization
12/1/2016	Service Credit Purchase Estimates - Yes
12/1/2013	Accelerated to 15-year Amortization
12/1/2013	DC Adoption Date 12-01-2013
8/1/2005	Temporary 24 Years & Out (08/01/2005 - 10/03/2005)
5/1/2000	E2 2.5% COLA for future retirees (05/01/2000)
10/1/1998	2.50% Multiplier (Capped at 80% of FAC)
7/1/1994	2.25% Multiplier (Capped at 80% of FAC)
7/1/1994	Benefit FAC-3 (3 Year Final Average Compensation)
7/1/1994	Member Contribution Rate 1.50%
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
1/1/1987	Flexible E 2% COLA Adopted (01/01/1987)
12/1/1986	Benefit F55 (With 25 Years of Service)
5/1/1986	10 Year Vesting
5/1/1986	2.00% Multiplier until SS Age, then 1.70% Multiplier
5/1/1986	Benefit FAC-5 (5 Year Final Average Compensation)
5/1/1986	Member Contribution Rate 0.00%
7/10/1973	Covered by Act 88
7/1/1962	Fiscal Month - July
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

14 - SEIU Local

9/1/2023	Pension Grant Recipient
7/1/2023	Participant Contribution Rate 7%
7/1/2022	Participant Contribution Rate 6.5%
7/1/2021	Participant Contribution Rate 6%
1/1/2021	Custom Wages
1/1/2021	Long Term Disability - Service Granted
1/1/2021	Other Leave - Service Granted
1/1/2021	Part Time Employees - Included
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Short Term Disability - Service Granted
1/1/2021	Workers Compensation - Service Granted
7/1/2020	Participant Contribution Rate 5%
7/1/2019	Participant Contribution Rate 4.5%
7/1/2018	Participant Contribution Rate 3.5%
12/1/2016	Service Credit Purchase Estimates - Yes
7/1/2016	Participant Contribution Rate 3%
1/1/2012	Non Standard Compensation Definition
1/1/1997	Member Contribution Rate 2.50%
1/1/1996	2.50% Multiplier (Capped at 80% of FAC)
1/1/1996	Member Contribution Rate 2.00%
1/1/1994	2.25% Multiplier (Capped at 80% of FAC)
1/1/1994	Benefit FAC-3 (3 Year Final Average Compensation)

14 - SEIU Local

1/1/1994	Member Contribution Rate 1.50%
1/1/1989	Flexible E 2% COLA Adopted (01/01/1989)
9/1/1987	Benefit F55 (With 25 Years of Service)
11/1/1986	2.00% Multiplier until SS Age, then 1.70% Multiplier
10/17/1986	10 Year Vesting
10/17/1986	Benefit FAC-5 (5 Year Final Average Compensation)
10/17/1986	Member Contribution Rate 0.00%
7/10/1973	Covered by Act 88
7/1/1962	Fiscal Month - July
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

15 - City Mngr.

9/1/2023	Pension Grant Recipient
7/1/2023	Participant Contribution Rate 5%
7/1/2022	Participant Contribution Rate 4%
7/1/2021	Participant Contribution Rate 3%
1/1/2021	Custom Wages
1/1/2021	Long Term Disability - Service Granted
1/1/2021	Other Leave - Service Granted
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Short Term Disability - Service Granted
1/1/2021	Workers Compensation - Service Granted
7/1/2020	Participant Contribution Rate 2%
7/1/2019	Participant Contribution Rate 1%
12/1/2016	Service Credit Purchase Estimates - Yes
7/1/1996	2.50% Multiplier (Capped at 80% of FAC)
7/1/1996	Benefit F50 (With 25 Years of Service)
7/1/1996	Benefit RS 50 (50% Post-Ret. Spouse Benefits)
5/1/1993	10 Year Vesting
5/1/1993	2.25% Multiplier (Capped at 80% of FAC)
5/1/1993	Benefit F55 (With 15 Years of Service)
5/1/1993	Benefit FAC-3 (3 Year Final Average Compensation)
5/1/1993	Member Contribution Rate 0.00%
7/10/1973	Covered by Act 88
7/1/1962	Fiscal Month - July
	Normal Retirement Age (DB) - 60

16 - Cntrl Disp.

9/1/2023	Pension Grant Recipient
12/1/2020	Non-Accelerated Amortization
12/31/2018	Accelerated to 5-year Amortization
12/1/2016	Service Credit Purchase Estimates - Yes
1/1/2004	E2 2.5% COLA for future retirees (01/01/2004)
1/1/2004	Member Contribution Rate 7.20%
1/1/2003	Member Contribution Rate 2.50%
1/1/2002	Member Contribution Rate 1.75%
1/1/2001	2.50% Multiplier (Capped at 80% of FAC)
1/1/2001	Benefit FAC-3 (3 Year Final Average Compensation)

16 - Cntrl Disp.

1/1/2001	Member Contribution Rate 1.00%
1/1/1994	10 Year Vesting
1/1/1994	2.00% Multiplier until SS Age, then 1.70% Multiplier
1/1/1994	Benefit F55 (With 25 Years of Service)
1/1/1994	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1994	Member Contribution Rate 0.00%
7/10/1973	Covered by Act 88
7/1/1962	Fiscal Month - July
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

17 - Corr.Offrcs

9/1/2023	Pension Grant Recipient
7/1/2023	Participant Contribution Rate 5.62%
7/1/2022	Participant Contribution Rate 5.12%
7/1/2021	Participant Contribution Rate 4.62%
1/1/2021	Custom Wages
1/1/2021	Long Term Disability - Service Granted
1/1/2021	Other Leave - Service Granted
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Short Term Disability - Service Granted
1/1/2021	Workers Compensation - Service Granted
7/1/2020	Participant Contribution Rate 4.12%
10/1/2019	Participant Contribution Rate 3.62%
12/1/2016	Service Credit Purchase Estimates - Yes
3/1/2001	2.25% Multiplier (Capped at 80% of FAC)
3/1/2001	Member Contribution Rate 3.12%
1/1/1994	10 Year Vesting
1/1/1994	2.00% Multiplier until SS Age, then 1.70% Multiplier
1/1/1994	Benefit F55 (With 25 Years of Service)
1/1/1994	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1994	Member Contribution Rate 0.00%
7/10/1973	Covered by Act 88
7/1/1962	Fiscal Month - July
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

18 - General AFSCME after 12/1/10

9/1/2023	Pension Grant Recipient
7/1/2023	Participant Contribution Rate 5%
7/1/2021	Participant Contribution Rate 4%
1/1/2021	Custom Wages
1/1/2021	Long Term Disability - Service Granted
1/1/2021	Other Leave - Service Granted
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Short Term Disability - Service Granted
1/1/2021	Workers Compensation - Service Granted
12/1/2019	Participant Contribution Rate 3%
12/1/2016	Service Credit Purchase Estimates - Yes

18 - General AFSCME after 12/1/10

1/1/2011	Non Standard Compensation Definition
12/1/2010	1.50% Multiplier
12/1/2010	10 Year Vesting
12/1/2010	Benefit FAC-3 (3 Year Final Average Compensation)
12/1/2010	Day of work defined as 80 Hours a Month for All employees.
12/1/2010	Member Contribution Rate 2.50%
7/10/1973	Covered by Act 88
7/1/1962	Fiscal Month - July
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

19 - Gen. SEIU hired after 7/1/201

9/1/2023	Pension Grant Recipient
7/1/2021	Participant Contribution Rate 5%
1/1/2021	Custom Wages
1/1/2021	Long Term Disability - Service Granted
1/1/2021	Other Leave - Service Granted
1/1/2021	Part Time Employees - Included
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Short Term Disability - Service Granted
1/1/2021	Workers Compensation - Service Granted
7/1/2020	Participant Contribution Rate 4.5%
7/1/2019	Participant Contribution Rate 4%
7/1/2018	Participant Contribution Rate 3.5%
12/1/2016	Service Credit Purchase Estimates - Yes
7/1/2016	Participant Contribution Rate 3%
1/1/2012	Non Standard Compensation Definition
7/1/2011	1.50% Multiplier
7/1/2011	10 Year Vesting
7/1/2011	Benefit FAC-5 (5 Year Final Average Compensation)
7/1/2011	Day of work defined as 80 Hours a Month for All employees.
7/1/2011	Member Contribution Rate 2.50%
7/10/1973	Covered by Act 88
7/1/1962	Fiscal Month - July
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

20 - Gen. BCSA hired after 1/1/201

9/1/2023	Pension Grant Recipient
7/1/2023	Participant Contribution Rate 5%
7/1/2022	Participant Contribution Rate 4.5%
7/1/2021	Participant Contribution Rate 4%
1/1/2021	Custom Wages
1/1/2021	Long Term Disability - Service Granted
1/1/2021	Other Leave - Service Granted
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Short Term Disability - Service Granted
1/1/2021	Workers Compensation - Service Granted
7/1/2020	Participant Contribution Rate 3.5%

20 - Gen. BCSA hired after 1/1/201

10/1/2019	Participant Contribution Rate 3%
12/1/2016	Service Credit Purchase Estimates - Yes
1/1/2012	Member Contribution Rate 2.50%
1/1/2012	Non Standard Compensation Definition
7/1/2011	1.50% Multiplier
7/1/2011	10 Year Vesting
7/1/2011	Benefit FAC-3 (3 Year Final Average Compensation)
7/10/1973	Covered by Act 88
7/1/1962	Fiscal Month - July
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

HA - GNL Trans hired after 3/1/10

9/1/2023	Pension Grant Recipient
1/1/2021	Custom Wages
1/1/2021	Long Term Disability - Service Granted
1/1/2021	Other Leave - Service Granted
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Short Term Disability - Service Granted
1/1/2021	Workers Compensation - Service Granted
1/1/2012	Non Standard Compensation Definition
3/1/2010	1.25% Multiplier
3/1/2010	6 Year Vesting
3/1/2010	Benefit FAC-3 (3 Year Final Average Compensation)
3/1/2010	Participant Contribution Rate 0%
7/10/1983	Covered by ACT 88
7/1/1962	Fiscal Month - July
	No Early Reduced Conditions
	Normal Retirement Age (DB) - 60

S1 - Surplus Unassociated

7/1/1962 Fiscal Month - July

S2 - Surplus AFSCME

7/1/1962 Fiscal Month - July

S3 - Surplus Transit

7/1/1962 Fiscal Month - July

S4 - Surplus BCSA

7/1/1962 Fiscal Month - July

S5 - Surplus SEIU

7/1/1962 Fiscal Month - July

SG - Surplus Grant Funds

9/1/2023	Pension Grant Recipient
7/1/1962	Fiscal Month - July

Plan Provisions, Actuarial Assumptions, and Actuarial Funding Method

Details on MERS plan provisions, actuarial assumptions, and actuarial methodology can be found in the Appendix. Some actuarial assumptions are specific to this municipality and its divisions. These are listed below.

Increase in Final Average Compensation

Division	Increase Assumption
All Divisions	2.00%

Miscellaneous and Technical Assumptions

Loads – None.

Amortization Policy for Closed Not Linked Divisions: The default funding policy for closed not linked divisions, including open divisions with zero active members, is to follow a non-accelerated amortization, where each closed period decreases by one year each year until the period is exhausted.

Risk Commentary

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

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

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

- **Investment Risk** – actual investment returns may differ from the expected returns;
- **Asset/Liability Mismatch** – changes in asset values may not match changes in liabilities, thereby altering the gap between the accrued liability and assets and consequently altering the funded status and contribution requirements;
- **Salary and Payroll Risk** – actual salaries and total payroll may differ from expected, resulting in actual future accrued liability and contributions differing from expected;
- **Longevity Risk** – members may live longer or shorter than expected and receive pensions for a period of time other than assumed; and
- **Other Demographic Risks** – members may terminate, retire or become disabled at times or with benefits other than assumed resulting in actual future accrued liability and contributions differing from expected.

The effects of certain trends in experience can generally be anticipated. For example, if the investment return since the most recent actuarial valuation is less (or more) than the assumed rate, the cost of the plan can be expected to increase (or decrease). Likewise, if longevity is improving (or worsening), increases (or decreases) in cost can be anticipated.

Plan Maturity Measures

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

December 31,	Ratio of:				
	Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Payroll	Actives to Retirees and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets (BOY)
2018	4.1	7.8	0.8	7.6	-4.8%
2019	4.4	8.1	0.8	7.9	-5.4%
2020	4.7	8.6	0.8	8.2	-5.2%
2021	5.2	8.9	0.7	8.8	-4.1%
2022	4.3	8.7	0.7	7.3	-3.7%
2023	4.5	8.2	0.8	7.9	2.1%
2024	4.7	8.2	0.7	8.1	-2.9%

Ratio of Market Value of Assets to Total 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 2.0 times the payroll, a return on assets 5% different 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 plan sponsor contributions as a percentage of payroll.

Ratio of Actuarial Accrued Liability to Payroll

The relationship between actuarial accrued liability and payroll is a useful indicator of the potential volatility of contributions for a fully funded plan. 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 actives 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.

Ratio of Market Value of Assets to Benefit Payments

The MERS' Actuarial Policy requires a total minimum contribution equal to the excess (if any) of three times the expected annual benefit payments over the projected market value of assets as of the participating municipality or court's Fiscal Year for which the contribution applies. The ratio of market value of assets to benefit payments as of the valuation date provides an indication of whether the division is at risk for triggering the minimum contribution rule in the near term. If the division triggers this minimum contribution rule, the required employer contributions could increase dramatically relative to previous valuations.

Ratio of Net Cash Flow to Market Value of Assets

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

State Reporting

The following information has been prepared to provide some of the information necessary to complete the Public Act 202 pension reporting requirements for the State of Michigan's Local Government Retirement System Annual Report (Form No. 5572). Additional resources are available at www.mersofmich.com and on the State [website](#).

Form 5572		Result
Line Reference	Description	
10	Membership as of December 31, 2024	
11	Indicate number of active members	335
12	Indicate number of inactive members (excluding pending refunds)	55
13	Indicate number of retirees and beneficiaries	455
14	Investment Performance for Calendar Year Ending December 31, 2024¹	
15	Enter actual rate of return - prior 1-year period	7.72%
16	Enter actual rate of return - prior 5-year period	6.91%
17	Enter actual rate of return - prior 10-year period	6.62%
18	Actuarial Assumptions	
19	Actuarial assumed rate of investment return ²	6.93%
20	Amortization method utilized for funding the system's unfunded actuarial accrued liability, if any	Level Percent
21	Amortization period utilized for funding the system's unfunded actuarial accrued liability, if any ³	15
22	Is each division within the system closed to new employees? ⁴	No
23	Uniform Assumptions	
24	Enter retirement pension system's actuarial value of assets using uniform assumptions	\$105,092,251
25	Enter retirement pension system's actuarial accrued liabilities using uniform assumptions ⁵	\$178,845,487
27	Actuarially Determined Contribution (ADC) using uniform assumptions, Fiscal Year Ending June 30, 2025	\$8,603,664

¹ The Municipal Employees' Retirement System's investment performance has been provided to GRS from MERS Investment Staff and is included here for reporting purposes. The investment performance figures reported are net of investment expenses on a rolling calendar year basis for the previous 1-, 5-, and 10-year periods as required under PA 530.

² Net of administrative and investment expenses.

³ Populated with the longest amortization period remaining in the amortization schedule, across all divisions in the plan. This is when each division and the plan in total is expected to reach 100% funded if all assumptions are met.

⁴ If all divisions within the employer are closed, "yes." If at least one division is open (including shadow divisions), "no."

⁵ Line 25 actuarial accrued liability is determined under PA 202 uniform assumptions which may differ from the valuation assumptions. In accordance with the March 4, 2025 memo on the selection of Uniform Assumptions, "[f]or retirement systems that utilize an investment rate of return that is less than 7.00% for funding purposes, the local government should use the lower investment rate of return for the uniform assumption as well." In particular, the assumed rate of return for PA 202 purposes is 6.93%.