



Municipal Employees' Retirement System of Michigan

Annual Actuarial Valuation Report
December 31, 2024 - Chippewa Co (1703)





Spring 2025

Chippewa Co

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 Chippewa Co (1703) 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. Chippewa Co 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 January 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 Chippewa Co 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).

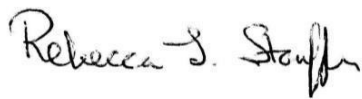
This information is purely actuarial in nature. It is not intended to serve as a substitute for legal, accounting, or investment advice.



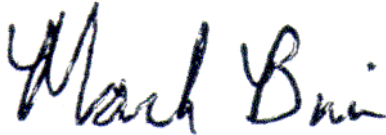
This report was prepared at the request of the MERS Retirement Board and may be provided only in its entirety by the municipality to other interested parties (MERS customarily provides the full report on request to associated third parties such as the auditor for the municipality). GRS is not responsible 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



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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*	69%	68%

* 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:	January 1, 2026	January 1, 2025	January 1, 2026	January 1, 2025
Division				
01 - County TPOAM - closed	-	-	\$ 38,996	\$ 37,995
02 - County Corrections - closed	-	-	15,326	17,288
11 - Hlth Dept - closed	-	-	24,426	22,821
13 - EDC General - closed	-	-	8,654	8,097
15 - Health Dept Non-Union - Close	-	-	36,053	34,811
16 - Gnrl, N-Un&Dsptch bf 5/1/10	-	-	38,604	40,128
17 - EDC General after 12/01/13	6.55%	6.43%	3,323	2,946
20 - County Sheriff Road - closed	-	-	14,399	13,450
HA - County Sheriff Rd after 5/1/1	0.00%	0.00%	0	0
HB - County Corrections after 5/1/	3.44%	3.82%	2,227	2,379
HC - County, N-Un & Disp af 5/1/10	5.08%	5.18%	8,119	8,786
HD - Hlth Dpt Teamstrs after 4/1/1	-	0.00%	0	0
HE - Hlth Dpt Non-Union aft 4/1/11	0.95%	2.44%	928	3,008
HF - County TPOAM after 4/1/12	6.22%	6.19%	5,268	4,661
Total Municipality - Estimated Monthly Contribution			\$ 196,323	\$ 196,370
Total Municipality - Estimated Annual Contribution			\$ 2,355,876	\$ 2,356,440

Employee contribution rates:

Valuation Date:	Employee Contribution Rate	
	12/31/2024	12/31/2023
Division		
01 - County TPOAM - closed	2.00%	2.00%
02 - County Corrections - closed	3.00%	3.00%
11 - Hlth Dept - closed	2.00%	2.00%
13 - EDC General - closed	2.00%	2.00%
15 - Health Dept Non-Union - Close	2.00%	2.00%
16 - Gnrl, N-Un&Dsptch bf 5/1/10	2.00%	2.00%
17 - EDC General after 12/01/13	3.00%	3.00%
20 - County Sheriff Road - closed	3.00%	3.00%
HA - County Sheriff Rd after 5/1/1	0.00%	0.00%
HB - County Corrections after 5/1/	0.00%	0.00%
HC - County, N-Un & Disp af 5/1/10	0.00%	0.00%
HD - Hlth Dpt Teamstrs after 4/1/1	0.00%	0.00%
HE - Hlth Dpt Non-Union aft 4/1/11	0.00%	0.00%
HF - County TPOAM after 4/1/12	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 \$242,602, instead of \$196,323.

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 65% (instead of 69%); and
- Your total employer contribution requirement for the fiscal year starting January 1, 2026 would be \$2,587,356 (instead of \$2,355,876).

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	\$ 76,808,773	\$ 68,298,095	\$ 61,237,536
Valuation Assets ¹	\$ 42,216,804	\$ 42,216,804	\$ 42,216,804
Unfunded Accrued Liability	\$ 34,591,969	\$ 26,081,291	\$ 19,020,732
Funded Ratio	55%	62%	69%
Monthly Normal Cost	\$ 82,980	\$ 62,609	\$ 47,422
Monthly Amortization Payment	\$ 227,725	\$ 183,043	\$ 141,896
Total Employer Contribution²	\$ 316,138	\$ 251,591	\$ 196,323

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

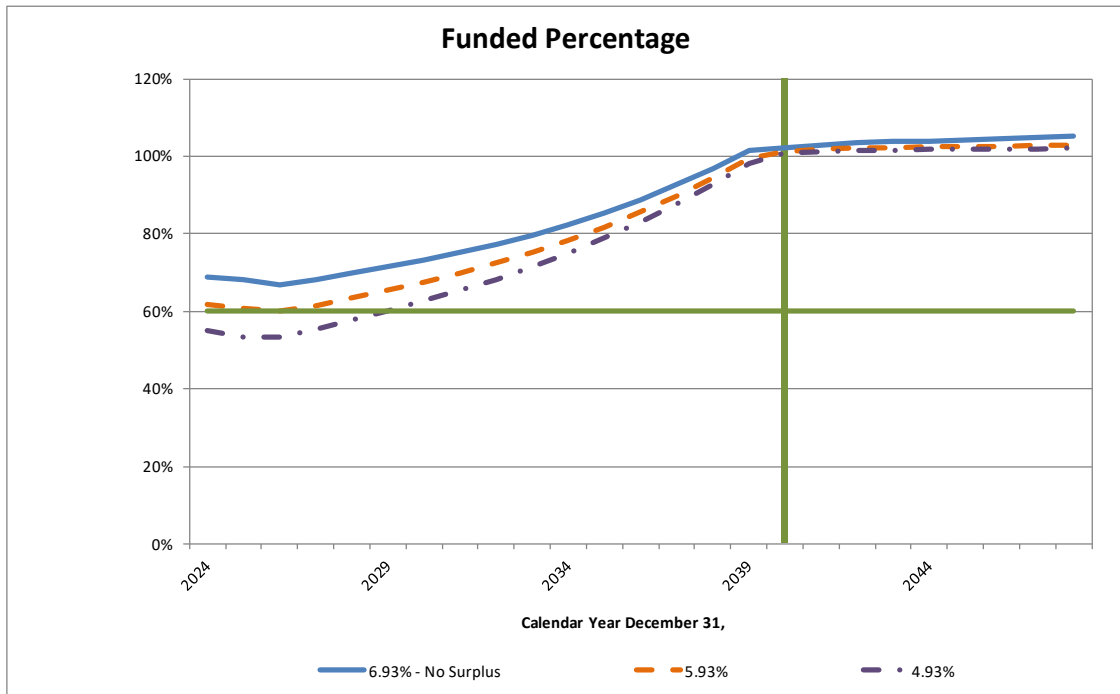
The next two pages show projections of the plan's funded ratio and computed employer contributions under the actuarial assumptions used in the valuation and alternate economic assumption scenarios. All three projections account for the past investment experience that will continue to affect the actuarial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

Valuation Year Ending 12/31	Fiscal Year Beginning 1/1	Actuarial Accrued Liability	Valuation Assets ²	Funded Percentage	Estimated Annual Employer Contribution
6.93%¹					
2024	2026	\$ 61,237,536	\$ 42,216,804	69%	\$ 2,355,876
2025	2027	\$ 62,200,000	\$ 42,400,000	68%	\$ 2,520,000
2026	2028	\$ 63,100,000	\$ 42,200,000	67%	\$ 2,720,000
2027	2029	\$ 63,800,000	\$ 43,500,000	68%	\$ 2,780,000
2028	2030	\$ 64,400,000	\$ 44,900,000	70%	\$ 2,850,000
2029	2031	\$ 64,900,000	\$ 46,300,000	71%	\$ 2,920,000
5.93%¹					
2024	2026	\$ 68,298,095	\$ 42,216,804	62%	\$ 3,019,092
2025	2027	\$ 69,300,000	\$ 42,000,000	61%	\$ 3,210,000
2026	2028	\$ 70,200,000	\$ 42,100,000	60%	\$ 3,410,000
2027	2029	\$ 70,900,000	\$ 43,700,000	62%	\$ 3,490,000
2028	2030	\$ 71,500,000	\$ 45,400,000	63%	\$ 3,570,000
2029	2031	\$ 71,900,000	\$ 47,100,000	65%	\$ 3,660,000
4.93%¹					
2024	2026	\$ 76,808,773	\$ 42,216,804	55%	\$ 3,793,656
2025	2027	\$ 77,800,000	\$ 41,600,000	53%	\$ 4,010,000
2026	2028	\$ 78,700,000	\$ 42,100,000	53%	\$ 4,210,000
2027	2029	\$ 79,400,000	\$ 44,100,000	55%	\$ 4,310,000
2028	2030	\$ 80,000,000	\$ 46,200,000	58%	\$ 4,400,000
2029	2031	\$ 80,300,000	\$ 48,300,000	60%	\$ 4,500,000

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:

The green indicator lines have been added at 60% funded and 16 years following the valuation date for PA 202 purposes.

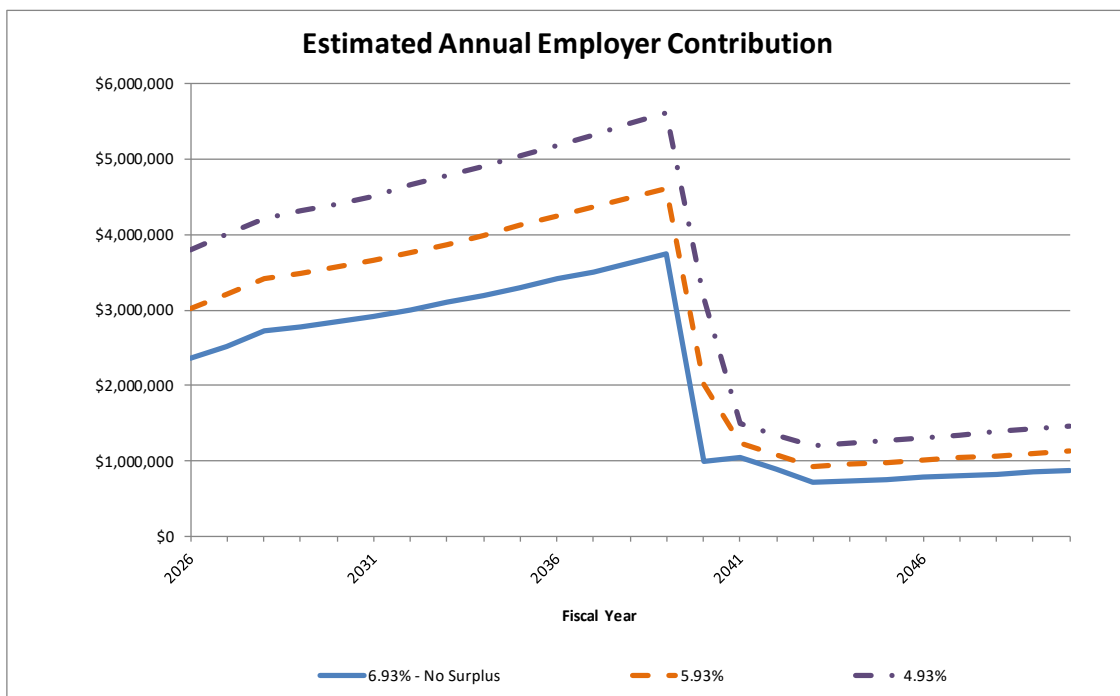


Table 1: Employer Contribution Details for the Fiscal Year Beginning January 1, 2026

Division	Total Normal Cost	Employee Contribution Rate	Employer Contributions ¹			Blended ER Rate ⁵	Employee Contribution Conversion Factor ²
			Employer Normal Cost ⁶	Payment of the Unfunded Accrued Liability ⁴	Computed Employer Contribution		
Percentage of Payroll							
01 - County TPOAM - closed	10.49%	2.00%	-	-	-	35.28%	
02 - County Corrections - closed	18.78%	3.00%	-	-	-	20.47%	
11 - Hlth Dept - closed	9.72%	2.00%	-	-	-		
13 - EDC General - closed	11.42%	2.00%	-	-	-	15.92%	
15 - Health Dept Non-Union - Close	13.50%	2.00%	-	-	-	32.67%	
16 - Gnrl, N-Un&Dsptch bf 5/1/10	10.74%	2.00%	-	-	-	19.84%	
17 - EDC General after 12/01/13	8.43%	3.00%	5.43%	1.12%	6.55%	15.92%	0.84%
20 - County Sheriff Road - closed	18.28%	3.00%	-	-	-	18.31%	
HA - County Sheriff Rd after 5/1/1	4.43%	0.00%	4.43%	-5.48%	0.00%	18.31%	
HB - County Corrections after 5/1/	4.20%	0.00%	4.20%	-0.76%	3.44%	20.47%	
HC - County, N-Un & Disp af 5/1/10	5.08%	0.00%	5.08%	0.00%	5.08%	19.84%	
HD - Hlth Dpt Teamstrs after 4/1/1	0.00%	0.00%	-	-	-		
HE - Hlth Dpt Non-Union aft 4/1/11	5.64%	0.00%	5.64%	-4.69%	0.95%	32.67%	
HF - County TPOAM after 4/1/12	5.76%	0.00%	5.76%	0.46%	6.22%	35.28%	
Estimated Monthly Contribution ³							
01 - County TPOAM - closed			\$ 3,464	\$ 35,532	\$ 38,996		
02 - County Corrections - closed			3,303	12,023	15,326		
11 - Hlth Dept - closed			380	24,046	24,426		
13 - EDC General - closed			2,311	6,343	8,654		
15 - Health Dept Non-Union - Close			1,819	34,234	36,053		
16 - Gnrl, N-Un&Dsptch bf 5/1/10			6,613	31,991	38,604		
17 - EDC General after 12/01/13			2,753	570	3,323		
20 - County Sheriff Road - closed			3,136	11,263	14,399		
HA - County Sheriff Rd after 5/1/1			2,435	(3,013)	0		
HB - County Corrections after 5/1/			2,722	(495)	2,227		
HC - County, N-Un & Disp af 5/1/10			8,119	0	8,119		
HD - Hlth Dpt Teamstrs after 4/1/1			0	(6,427)	0		
HE - Hlth Dpt Non-Union aft 4/1/11			5,491	(4,563)	928		
HF - County TPOAM after 4/1/12			4,876	392	5,268		
Total Municipality			\$ 47,422	\$ 141,896	\$ 196,323		
Estimated Annual Contribution ³			\$ 569,064	\$ 1,702,752	\$ 2,355,876		

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 - County TPOAM - closed: Closed to new hires, linked to Division HF

	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):	55/20	55/20
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
COLA for Current Retirees:	2.50% (Non-Compound)	2.50% (Non-Compound)
Employee Contributions:	2.00%	2.00%
Act 88:	Yes (Adopted 3/15/1974)	Yes (Adopted 3/15/1974)

02 - County Corrections - closed: Closed to new hires, linked to Division HB

	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
	55/20	55/20
Early Retirement (Reduced):	55/15	55/15
Final Average Compensation:	3 years	3 years
COLA for Future Retirees:	2.50% (Non-Compound)	2.50% (Non-Compound)
COLA for Current Retirees:	2.50% (Non-Compound)	2.50% (Non-Compound)
Employee Contributions:	3.00%	3.00%
Act 88:	Yes (Adopted 3/15/1974)	Yes (Adopted 3/15/1974)

11 - Hlth Dept - closed: Closed to new hires

	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):	55/20	55/20
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
COLA for Current Retirees:	2.50% (Non-Compound)	2.50% (Non-Compound)
Employee Contributions:	2.00%	2.00%
Act 88:	Yes (Adopted 3/15/1974)	Yes (Adopted 3/15/1974)

13 - EDC General - closed: Closed to new hires, linked to Division 17

	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):	55/20	55/20
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
COLA for Current Retirees:	2.50% (Non-Compound)	2.50% (Non-Compound)
Employee Contributions:	2.00%	2.00%
Act 88:	Yes (Adopted 3/15/1974)	Yes (Adopted 3/15/1974)

15 - Health Dept Non-Union - Close: Closed to new hires, linked to Division HE

	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):	55/20	55/20
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
Employee Contributions:	2.00%	2.00%
Act 88:	Yes (Adopted 3/15/1974)	Yes (Adopted 3/15/1974)

16 - Gnrl, N-Un&Dsptch bf 5/1/10: Closed to new hires, linked to Division HC

	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):	55/20	55/20
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
Employee Contributions:	2.00%	2.00%
Act 88:	Yes (Adopted 3/15/1974)	Yes (Adopted 3/15/1974)

17 - EDC General after 12/01/13: Open Division, linked to Division 13

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.50% Multiplier (80% max)	1.50% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	-	-
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
Employee Contributions:	3.00%	3.00%
Act 88:	Yes (Adopted 3/15/1974)	Yes (Adopted 3/15/1974)



20 - County Sheriff Road - closed: 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):	50/25	50/25
	55/20	55/20
Early Retirement (Reduced):	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:	3.00%	3.00%
Act 88:	Yes (Adopted 3/15/1974)	Yes (Adopted 3/15/1974)

HA - County Sheriff Rd after 5/1/1: Open Division, linked to Division 20

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.00% Multiplier (no max)	1.00% 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 3/15/1974)	Yes (Adopted 3/15/1974)

HB - County Corrections after 5/1/: Open Division, linked to Division 02

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.00% Multiplier (no max)	1.00% 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 3/15/1974)	Yes (Adopted 3/15/1974)

HC - County, N-Un & Disp af 5/1/10: Open Division, linked to Division 16

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.00% Multiplier (no max)	1.00% 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 3/15/1974)	Yes (Adopted 3/15/1974)

HD - Hlth Dpt Teamstrs after 4/1/1: Closed to new hires

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.00% Multiplier (no max)	1.00% 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 3/15/1974)	Yes (Adopted 3/15/1974)

HE - Hlth Dpt Non-Union aft 4/1/11: Open Division, linked to Division 15

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.00% Multiplier (no max)	1.00% 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 3/15/1974)	Yes (Adopted 3/15/1974)

HF - County TPOAM after 4/1/12: Open Division, linked to Division 01

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.00% Multiplier (no max)	1.00% 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 3/15/1974)	Yes (Adopted 3/15/1974)

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 - County TPOAM - closed							
Active Employees	11	\$ 570,125	10	\$ 505,723	55.0	26.9	26.9
Vested Former Employees	7	69,828	6	62,696	52.7	10.1	14.5
Retirees and Beneficiaries	70	969,087	71	971,189	74.9		
Pending Refunds	5		8				
02 - County Corrections - closed							
Active Employees	5	\$ 274,008	5	\$ 267,497	45.9	18.7	19.6
Vested Former Employees	1	17,160	1	17,160	54.4	12.5	12.5
Retirees and Beneficiaries	20	307,460	22	342,315	72.3		
Pending Refunds	1		2				
11 - Hlth Dept - closed							
Active Employees	1	\$ 74,649	3	\$ 296,478	53.1	28.8	28.8
Vested Former Employees	1	36,288	0	0	59.9	15.3	15.3
Retirees and Beneficiaries	30	375,995	29	351,307	74.8		
Pending Refunds	10		15				
13 - EDC General - closed							
Active Employees	5	\$ 339,827	5	\$ 325,481	54.9	20.8	20.8
Vested Former Employees	2	12,454	2	12,454	52.9	8.7	11.8
Retirees and Beneficiaries	5	102,993	5	102,993	73.1		
Pending Refunds	0		0				
15 - Health Dept Non-Union - Close							
Active Employees	4	\$ 227,847	8	\$ 404,470	56.2	20.7	24.0
Vested Former Employees	8	138,527	5	68,417	53.2	16.4	16.4
Retirees and Beneficiaries	33	748,766	33	748,766	66.7		
Pending Refunds	9		10				
16 - Gnrl, N-Un&Dsptch bf 5/1/10							
Active Employees	16	\$ 998,600	17	\$ 1,048,011	50.7	22.5	22.5
Vested Former Employees	6	109,861	7	112,089	51.0	15.4	15.4
Retirees and Beneficiaries	37	946,239	36	925,174	67.4		
Pending Refunds	2		2				
17 - EDC General after 12/01/13							
Active Employees	9	\$ 511,042	8	\$ 459,104	44.7	5.2	5.2
Vested Former Employees	0	0	0	0	0.0	0.0	0.0
Retirees and Beneficiaries	0	0	0	0	0.0		
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
20 - County Sheriff Road - closed							
Active Employees	4	\$ 258,601	4	\$ 247,885	48.9	20.9	20.9
Vested Former Employees	0	0	0	0	0.0	0.0	0.0
Retirees and Beneficiaries	7	189,031	7	185,019	63.0		
Pending Refunds	0		0				
HA - County Sheriff Rd after 5/1/1							
Active Employees	10	\$ 595,214	10	\$ 592,808	35.2	4.9	5.9
Vested Former Employees	0	0	0	0	0.0	0.0	0.0
Retirees and Beneficiaries	0	0	0	0	0.0		
Pending Refunds	0		0				
HB - County Corrections after 5/1/							
Active Employees	13	\$ 695,877	13	\$ 680,470	31.5	2.9	3.5
Vested Former Employees	3	4,949	3	4,949	43.0	3.4	8.9
Retirees and Beneficiaries	0	0	0	0	0.0		
Pending Refunds	0		0				
HC - County, N-Un & Disp af 5/1/10							
Active Employees	28	\$ 1,665,072	30	\$ 1,806,318	40.3	5.0	5.3
Vested Former Employees	6	33,682	5	21,158	41.0	8.7	9.4
Retirees and Beneficiaries	3	9,333	1	4,203	68.4		
Pending Refunds	0		0				
HD - Hlth Dpt Teamstrs after 4/1/1							
Active Employees	0	\$ 0	1	\$ 82,596	0.0	0.0	0.0
Vested Former Employees	4	13,291	4	13,291	44.6	5.2	11.8
Retirees and Beneficiaries	0	0	0	0	0.0		
Pending Refunds	0		0				
HE - Hlth Dpt Non-Union aft 4/1/11							
Active Employees	23	\$ 1,052,358	31	\$ 1,329,754	43.6	2.9	3.4
Vested Former Employees	6	15,089	5	9,524	43.2	5.5	9.9
Retirees and Beneficiaries	2	8,637	2	8,614	67.5		
Pending Refunds	0		0				
HF - County TPOAM after 4/1/12							
Active Employees	19	\$ 848,828	18	\$ 779,732	46.9	4.1	4.5
Vested Former Employees	2	4,205	2	4,205	50.9	4.9	16.5
Retirees and Beneficiaries	1	1,891	1	1,891	66.3		
Pending Refunds	0		0				
Total Municipality							
Active Employees	148	\$ 8,112,048	163	\$ 8,826,327	44.5	9.9	10.3
Vested Former Employees	46	455,334	40	325,943	48.6	10.1	13.0
Retirees and Beneficiaries	208	3,659,432	207	3,641,471	71.4		
Pending Refunds	27		37				
Total Participants	429		447				

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 - County TPOAM - closed	\$ 7,685,536	\$ 350,413	\$ 7,113,972	\$ 309,960
02 - County Corrections - closed	3,624,844	177,618	3,304,787	167,237
11 - Hlth Dept - closed	1,326,052	83,063	1,490,470	107,450
13 - EDC General - closed	1,670,112	119,818	1,567,595	108,507
15 - Health Dept Non-Union - Close	5,593,105	240,375	5,712,740	239,136
16 - Gnrl, N-Un&Dsptch bf 5/1/10	11,492,531	548,291	10,705,872	529,321
17 - EDC General after 12/01/13	198,419	87,308	151,180	69,363
20 - County Sheriff Road - closed	2,678,645	160,407	2,482,721	146,553
HA - County Sheriff Rd after 5/1/1	488,380	0	485,651	0
HB - County Corrections after 5/1/	205,673	0	168,267	0
HC - County, N-Un & Disp af 5/1/10	1,139,278	(577)	859,047	(577)
HD - Hlth Dpt Teamstrs after 4/1/1	622,575	0	579,565	0
HE - Hlth Dpt Non-Union aft 4/1/11	807,543	0	734,168	0
HF - County TPOAM after 4/1/12	327,127	0	258,098	0
Municipality Total³	\$ 37,859,819	\$ 1,766,716	\$ 35,614,131	\$ 1,676,952
Combined Assets³	\$39,626,535		\$37,291,083	

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.

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	\$ 1,178,937	\$ 0	\$ 135,488	\$ 1,734,732	\$ (2,137,284)	\$ (25,654)	\$ 0	\$ 31,376,994
2015	1,231,566	0	138,698	1,534,854	(2,287,729)	(27,118)	0	31,967,265
2016	1,211,265	0	166,483	1,618,889	(2,454,733)	(17,990)	1	32,491,180
2017	1,355,674	968,938	116,160	1,883,259	(2,696,044)	(6,297)	(2,089,310)	32,023,560
2018	1,458,593	200,001	109,936	1,164,371	(2,762,091)	(7,572)	0	32,186,798
2019	1,479,605	350,000	110,433	1,516,348	(2,874,255)	(269)	0	32,768,660
2020	1,641,954	0	107,172	2,554,413	(3,114,904)	0	0	33,957,295
2021	1,897,610	499,999	98,271	5,721,454	(3,219,059)	(35,226)	(1)	38,920,343
2022	2,335,655	500,000	87,150	1,365,064	(3,448,352)	(6,838)	1	39,753,023
2023	2,223,742	500,000	82,708	1,985,144	(3,537,912)	(3,107)	0	41,003,598
2024	1,971,689	1,239,165	79,560	1,547,147	(3,610,076)	(14,278)	(1)	42,216,804

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 - County TPOAM - closed	\$ 3,519,694	\$ 527,123	\$ 9,190,573	\$ 6,705	\$ 13,244,095	\$ 8,561,235	64.6%	\$ 4,682,860
02 - County Corrections - closed	1,816,408	162,455	3,663,051	3,403	5,645,317	4,051,017	71.8%	1,594,300
11 - Hlth Dept - closed	784,837	447,537	3,390,161	14,733	4,637,268	1,501,225	32.4%	3,136,043
13 - EDC General - closed	1,531,710	87,487	1,121,764	0	2,740,961	1,906,933	69.6%	834,028
15 - Health Dept Non-Union - Close	1,198,822	1,358,959	8,135,586	23,754	10,717,121	6,214,797	58.0%	4,502,324
16 - Gnrl, N-Un&Dsptch bf 5/1/10	5,609,172	832,921	10,583,746	24,515	17,050,354	12,827,895	75.2%	4,222,459
17 - EDC General after 12/01/13	374,228	0	0	0	374,228	304,404	81.3%	69,824
20 - County Sheriff Road - closed	1,913,999	0	2,591,426	0	4,505,425	3,024,632	67.1%	1,480,793
HA - County Sheriff Rd after 5/1/1	211,992	0	0	0	211,992	520,304	245.4%	(308,312)
HB - County Corrections after 5/1/	135,210	24,914	0	0	160,124	219,117	136.8%	(58,993)
HC - County, N-Un & Disp af 5/1/10	853,997	128,865	86,414	0	1,069,276	1,213,134	113.5%	(143,858)
HD - Hlth Dpt Teamstrs after 4/1/1	0	74,532	0	0	74,532	663,271	889.9%	(588,739)
HE - Hlth Dpt Non-Union aft 4/1/11	267,329	54,449	93,259	0	415,037	860,330	207.3%	(445,293)
HF - County TPOAM after 4/1/12	332,410	35,655	23,741	0	391,806	348,510	88.9%	43,296
Total	\$ 18,549,808	\$ 3,734,897	\$ 38,879,721	\$ 73,110	\$ 61,237,536	\$ 42,216,804	68.9%	\$ 19,020,732

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 17, 13	\$ 1,905,938	\$ 87,487	\$ 1,121,764	\$ 0	\$ 3,115,189	\$ 2,211,337	71.0%	\$ 903,852
Linked Divisions HA, 20	2,125,991	0	2,591,426	0	4,717,417	3,544,936	75.1%	1,172,481
Linked Divisions HB, 02	1,951,618	187,369	3,663,051	3,403	5,805,441	4,270,134	73.6%	1,535,307
Linked Divisions HC, 16	6,463,169	961,786	10,670,160	24,515	18,119,630	14,041,029	77.5%	4,078,601
Linked Divisions HE, 15	1,466,151	1,413,408	8,228,845	23,754	11,132,158	7,075,127	63.6%	4,057,031
Linked Divisions HF, 01	3,852,104	562,778	9,214,314	6,705	13,635,901	8,909,745	65.3%	4,726,156

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	\$ 34,793,371	\$ 27,576,324	79%	\$ 7,217,047
2011	36,543,151	28,641,084	78%	7,902,067
2012	38,144,006	29,452,202	77%	8,691,804
2013	39,646,045	30,490,775	77%	9,155,270
2014	41,555,130	31,376,994	76%	10,178,136
2015	45,128,410	31,967,265	71%	13,161,145
2016	46,797,040	32,491,180	69%	14,305,860
2017	46,270,543	32,023,560	69%	14,246,983
2018	47,466,307	32,186,798	68%	15,279,509
2019	50,559,247	32,768,660	65%	17,790,587
2020	55,245,199	33,957,295	61%	21,287,904
2021	57,978,045	38,920,343	67%	19,057,702
2022	58,777,374	39,753,023	68%	19,024,351
2023	60,312,321	41,003,598	68%	19,308,723
2024	61,237,536	42,216,804	69%	19,020,732

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 - County TPOAM - closed

Table 8-01: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 10,852,210	\$ 7,469,386	69%	\$ 3,382,824
2015	11,576,004	7,426,523	64%	4,149,481
2016	11,745,027	7,158,837	61%	4,586,190
2017	11,615,577	7,252,260	62%	4,363,317
2018	11,526,826	7,151,025	62%	4,375,801
2019	11,891,751	7,097,014	60%	4,794,737
2020	12,546,713	7,111,008	57%	5,435,705
2021	12,789,596	7,986,935	62%	4,802,661
2022	13,003,473	8,107,285	62%	4,896,188
2023	12,967,205	8,163,022	63%	4,804,183
2024	13,244,095	8,561,235	65%	4,682,860

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	29	\$ 1,223,459	\$ 25,840	2.00%
2015	28	1,208,592	\$ 31,443	2.00%
2016	22	958,239	\$ 32,825	2.00%
2017	21	928,644	\$ 31,752	2.00%
2018	21	930,403	\$ 32,705	2.00%
2019	18	782,124	\$ 36,200	2.00%
2020	15	712,244	\$ 40,886	2.00%
2021	14	657,238	\$ 36,272	2.00%
2022	11	537,672	\$ 37,972	2.00%
2023	10	505,723	\$ 37,995	2.00%
2024	11	570,125	\$ 38,996	2.00%

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 02 - County Corrections - closed

Table 8-02: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 3,508,156	\$ 2,604,345	74%	\$ 903,811
2015	3,943,616	2,677,008	68%	1,266,608
2016	4,094,814	2,809,545	69%	1,285,269
2017	4,195,604	2,888,447	69%	1,307,157
2018	4,468,350	2,911,985	65%	1,556,365
2019	4,751,161	2,969,365	62%	1,781,796
2020	5,166,229	3,071,853	59%	2,094,376
2021	5,585,578	3,544,791	63%	2,040,787
2022	5,578,847	3,655,724	66%	1,923,123
2023	5,715,181	3,817,682	67%	1,897,499
2024	5,645,317	4,051,017	72%	1,594,300

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 9-02: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	9	\$ 394,275	\$ 8,686	3.00%
2015	8	365,433	\$ 11,024	3.00%
2016	9	419,544	\$ 11,863	3.00%
2017	9	413,970	\$ 12,080	3.00%
2018	8	397,428	\$ 13,733	3.00%
2019	7	338,416	\$ 15,290	3.00%
2020	7	371,253	\$ 18,680	3.00%
2021	7	387,015	\$ 18,812	3.00%
2022	5	275,738	\$ 16,924	3.00%
2023	5	267,497	\$ 17,288	3.00%
2024	5	274,008	\$ 15,326	3.00%

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 - Hlth Dept - closed

Table 8-11: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 3,488,120	\$ 2,608,742	75%	\$ 879,378
2015	3,683,667	2,538,523	69%	1,145,144
2016	3,835,829	2,473,502	65%	1,362,327
2017	3,834,146	2,340,331	61%	1,493,815
2018	3,758,253	2,105,228	56%	1,653,025
2019	3,934,716	1,878,869	48%	2,055,847
2020	4,137,705	1,690,419	41%	2,447,286
2021	4,535,788	1,859,077	41%	2,676,711
2022	4,662,834	1,798,931	39%	2,863,903
2023	4,600,701	1,757,001	38%	2,843,700
2024	4,637,268	1,501,225	32%	3,136,043

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	5	\$ 332,288	\$ 6,992	2.00%
2015	5	322,132	\$ 8,719	2.00%
2016	4	269,100	\$ 9,766	2.00%
2017	3	209,627	\$ 10,361	2.00%
2018	3	208,157	\$ 11,520	2.00%
2019	2	139,715	\$ 14,312	2.00%
2020	2	163,686	\$ 17,468	2.00%
2021	3	269,478	\$ 20,114	2.00%
2022	3	304,514	\$ 22,476	2.00%
2023	3	296,478	\$ 22,821	2.00%
2024	1	74,649	\$ 24,426	2.00%

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 13 - EDC General - closed

Table 8-13: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 1,655,758	\$ 1,417,787	86%	\$ 237,971
2015	1,781,271	1,414,127	79%	367,144
2016	1,812,075	1,421,702	79%	390,373
2017	1,850,985	1,426,203	77%	424,782
2018	1,913,772	1,423,470	74%	490,302
2019	2,046,152	1,435,952	70%	610,200
2020	2,227,428	1,505,424	68%	722,004
2021	2,376,307	1,730,153	73%	646,154
2022	2,515,523	1,773,178	70%	742,345
2023	2,642,462	1,842,967	70%	799,495
2024	2,740,961	1,906,933	70%	834,028

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	6	\$ 240,278	\$ 2,910	2.00%
2015	6	246,190	\$ 3,800	2.00%
2016	5	225,623	\$ 3,770	2.00%
2017	5	233,561	\$ 4,066	2.00%
2018	5	242,401	\$ 4,553	2.00%
2019	5	252,712	\$ 5,549	2.00%
2020	5	275,625	\$ 6,572	2.00%
2021	5	280,086	\$ 6,190	2.00%
2022	5	308,050	\$ 7,349	2.00%
2023	5	325,481	\$ 8,097	2.00%
2024	5	339,827	\$ 8,654	2.00%

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 - Health Dept Non-Union - Close

Table 8-15: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 8,137,065	\$ 6,525,139	80%	\$ 1,611,926
2015	8,786,897	6,634,486	76%	2,152,411
2016	9,052,169	6,711,942	74%	2,340,227
2017	9,414,489	6,703,023	71%	2,711,466
2018	9,418,320	6,455,292	69%	2,963,028
2019	9,827,486	6,248,942	64%	3,578,544
2020	10,740,118	6,311,529	59%	4,428,589
2021	11,047,801	6,889,622	62%	4,158,179
2022	10,685,597	6,592,829	62%	4,092,768
2023	10,880,088	6,544,415	60%	4,335,673
2024	10,717,121	6,214,797	58%	4,502,324

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	31	\$ 1,323,487	\$ 17,923	2.00%
2015	29	1,270,275	\$ 21,045	2.00%
2016	25	1,033,110	\$ 20,186	2.00%
2017	22	936,060	\$ 22,483	2.00%
2018	18	779,637	\$ 23,933	2.00%
2019	18	787,241	\$ 28,959	2.00%
2020	17	863,205	\$ 36,111	2.00%
2021	13	637,602	\$ 32,733	2.00%
2022	9	425,279	\$ 31,856	2.00%
2023	8	404,470	\$ 34,811	2.00%
2024	4	227,847	\$ 36,053	2.00%

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.

Table 8-16: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 9,822,327	\$ 7,355,701	75%	\$ 2,466,626
2015	10,784,612	7,586,369	70%	3,198,243
2016	11,755,154	8,188,857	70%	3,566,297
2017	12,207,250	8,613,167	71%	3,594,083
2018	12,624,339	8,887,919	70%	3,736,420
2019	13,707,314	9,324,549	68%	4,382,765
2020	15,087,593	9,881,392	65%	5,206,201
2021	15,850,937	11,534,397	73%	4,316,540
2022	16,372,999	11,998,407	73%	4,374,592
2023	16,837,717	12,353,713	73%	4,484,004
2024	17,050,354	12,827,895	75%	4,222,459

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	34	\$ 1,748,115	\$ 25,326	2.00%
2015	33	1,722,193	\$ 30,402	2.00%
2016	38	1,924,155	\$ 34,095	2.00%
2017	32	1,685,017	\$ 32,648	2.00%
2018	31	1,684,923	\$ 33,991	2.00%
2019	28	1,567,054	\$ 38,934	2.00%
2020	28	1,713,005	\$ 46,232	2.00%
2021	22	1,268,312	\$ 37,268	2.00%
2022	19	1,145,979	\$ 38,768	2.00%
2023	17	1,048,011	\$ 40,128	2.00%
2024	16	998,600	\$ 38,604	2.00%

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 17 - EDC General after 12/01/13

Table 8-17: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 7,043	\$ 8,117	115%	\$ (1,074)
2015	19,641	20,203	103%	(562)
2016	34,236	32,795	96%	1,441
2017	36,912	47,623	129%	(10,711)
2018	52,777	58,688	111%	(5,911)
2019	78,557	78,805	100%	(248)
2020	122,191	106,195	87%	15,996
2021	169,387	148,926	88%	20,461
2022	230,730	189,223	82%	41,507
2023	297,749	242,499	81%	55,250
2024	374,228	304,404	81%	69,824

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	3	\$ 141,452	3.76%	3.00%
2015	3	143,776	3.95%	3.00%
2016	3	148,881	4.05%	3.00%
2017	4	189,583	4.06%	3.00%
2018	4	221,849	4.35%	3.00%
2019	4	228,676	4.60%	3.00%
2020	4	255,373	5.45%	3.00%
2021	6	332,018	6.20%	3.00%
2022	6	358,669	6.64%	3.00%
2023	8	459,104	6.43%	3.00%
2024	9	511,042	6.55%	3.00%

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 - County Sheriff Road - closed

Table 8-20: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 2,222,461	\$ 1,544,392	70%	\$ 678,069
2015	2,532,226	1,689,444	67%	842,782
2016	2,422,504	1,672,248	69%	750,256
2017	2,595,106	1,833,999	71%	761,107
2018	2,978,641	1,949,148	65%	1,029,493
2019	3,411,402	2,112,307	62%	1,299,095
2020	4,035,941	2,313,620	57%	1,722,321
2021	4,189,838	2,730,734	65%	1,459,104
2022	4,107,843	2,743,288	67%	1,364,555
2023	4,303,234	2,891,031	67%	1,412,203
2024	4,505,425	3,024,632	67%	1,480,793

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	9	\$ 482,768	\$ 8,665	3.00%
2015	9	490,218	\$ 10,034	3.00%
2016	8	429,701	\$ 8,799	3.00%
2017	8	436,625	\$ 8,984	3.00%
2018	8	426,069	\$ 10,609	3.00%
2019	7	410,321	\$ 12,598	3.00%
2020	6	400,600	\$ 16,284	3.00%
2021	5	299,764	\$ 13,697	3.00%
2022	4	240,801	\$ 12,495	3.00%
2023	4	247,885	\$ 13,450	3.00%
2024	4	258,601	\$ 14,399	3.00%

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 - County Sheriff Rd after 5/1/1

Table 8-HA: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 10,067	\$ 49,590	493%	\$ (39,523)
2015	17,719	71,807	405%	(54,088)
2016	34,539	98,269	285%	(63,730)
2017	47,461	141,552	298%	(94,091)
2018	64,997	185,373	285%	(120,376)
2019	66,990	234,342	350%	(167,352)
2020	106,532	271,902	255%	(165,370)
2021	133,108	371,207	279%	(238,099)
2022	166,902	436,984	262%	(270,082)
2023	216,901	534,000	246%	(317,099)
2024	211,992	520,304	245%	(308,312)

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	2	\$ 96,678	0.00%	0.00%
2015	2	105,007	0.00%	0.00%
2016	3	153,796	0.00%	0.00%
2017	4	210,119	0.00%	0.00%
2018	4	227,983	0.00%	0.00%
2019	5	274,573	0.00%	0.00%
2020	5	306,826	0.00%	0.00%
2021	7	390,949	0.00%	0.00%
2022	9	537,829	0.00%	0.00%
2023	10	592,808	0.00%	0.00%
2024	10	595,214	0.00%	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 HB - County Corrections after 5/1/

Table 8-HB: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 36,098	\$ 46,458	129%	\$ (10,360)
2015	55,763	62,826	113%	(7,063)
2016	22,566	10,350	46%	12,216
2017	35,371	26,700	76%	8,671
2018	61,983	47,547	77%	14,436
2019	72,474	72,335	100%	139
2020	81,964	104,579	128%	(22,615)
2021	112,872	145,446	129%	(32,574)
2022	98,126	145,317	148%	(47,191)
2023	128,176	185,018	144%	(56,842)
2024	160,124	219,117	137%	(58,993)

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-HB: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	7	\$ 300,457	3.62%	0.00%
2015	8	354,376	3.73%	0.00%
2016	5	218,423	4.42%	0.00%
2017	7	317,049	4.32%	0.00%
2018	11	519,640	4.41%	0.00%
2019	11	527,691	4.18%	0.00%
2020	12	606,485	3.96%	0.00%
2021	12	621,668	4.25%	0.00%
2022	13	726,192	3.88%	0.00%
2023	13	680,470	3.82%	0.00%
2024	13	695,877	3.44%	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 HC - County, N-Un & Disp af 5/1/10

Table 8-HC: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 100,739	\$ 91,770	91%	\$ 8,969
2015	163,192	138,793	85%	24,399
2016	171,476	123,758	72%	47,718
2017	248,603	178,722	72%	69,881
2018	330,006	241,189	73%	88,817
2019	437,120	321,192	73%	115,928
2020	528,040	424,693	80%	103,347
2021	638,583	568,416	89%	70,167
2022	743,163	779,717	105%	(36,554)
2023	922,212	943,935	102%	(21,723)
2024	1,069,276	1,213,134	113%	(143,858)

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-HC: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	15	\$ 659,247	4.87%	0.00%
2015	18	824,349	4.82%	0.00%
2016	14	716,183	4.97%	0.00%
2017	17	919,196	5.18%	0.00%
2018	21	1,093,122	5.28%	0.00%
2019	25	1,261,485	5.24%	0.00%
2020	22	1,194,203	5.31%	0.00%
2021	25	1,377,990	5.38%	0.00%
2022	26	1,528,172	5.16%	0.00%
2023	30	1,806,318	5.18%	0.00%
2024	28	1,665,072	5.08%	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 HD - Hlth Dpt Teamstrs after 4/1/1

Table 8-HD: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 23,660	\$ 93,290	394%	\$ (69,630)
2015	15,636	138,937	889%	(123,301)
2016	47,101	197,150	419%	(150,049)
2017	49,222	264,349	537%	(215,127)
2018	58,347	318,406	546%	(260,059)
2019	62,158	378,396	609%	(316,238)
2020	64,213	414,878	646%	(350,665)
2021	61,816	488,705	791%	(426,889)
2022	70,140	599,163	854%	(529,023)
2023	78,660	637,264	810%	(558,604)
2024	74,532	663,271	890%	(588,739)

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-HD: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	5	\$ 285,737	2.25%	0.00%
2015	4	198,850	0.00%	0.00%
2016	5	303,802	0.60%	0.00%
2017	6	340,713	0.00%	0.00%
2018	4	219,467	0.00%	0.00%
2019	3	178,403	0.00%	0.00%
2020	1	61,764	0.00%	0.00%
2021	1	54,809	0.00%	0.00%
2022	3	176,362	0.00%	0.00%
2023	1	82,596	0.00%	0.00%
2024	0	0	\$ 0	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 HE - Hlth Dpt Non-Union aft 4/1/11

Table 8-HE: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 17,580	\$ 47,503	270%	\$ (29,923)
2015	26,335	92,489	351%	(66,154)
2016	52,562	157,561	300%	(104,999)
2017	83,507	255,629	306%	(172,122)
2018	126,043	375,411	298%	(249,368)
2019	159,902	511,985	320%	(352,083)
2020	231,449	606,195	262%	(374,746)
2021	250,398	723,154	289%	(472,756)
2022	247,901	684,097	276%	(436,196)
2023	406,015	807,258	199%	(401,243)
2024	415,037	860,330	207%	(445,293)

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-HE: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	6	\$ 231,226	3.62%	0.00%
2015	9	287,137	3.87%	0.00%
2016	11	421,586	3.52%	0.00%
2017	14	581,172	2.93%	0.00%
2018	15	672,953	1.80%	0.00%
2019	13	654,348	0.34%	0.00%
2020	16	804,628	1.42%	0.00%
2021	18	799,907	0.36%	0.00%
2022	27	1,130,341	1.88%	0.00%
2023	31	1,329,754	2.44%	0.00%
2024	23	1,052,358	0.95%	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 HF - County TPOAM after 4/1/12

Table 8-HF: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 10,290	\$ 8,683	84%	\$ 1,607
2015	21,051	16,284	77%	4,767
2016	30,771	31,761	103%	(990)
2017	56,310	51,555	92%	4,755
2018	83,653	76,117	91%	7,536
2019	112,064	104,607	93%	7,457
2020	169,083	143,608	85%	25,475
2021	236,036	198,780	84%	37,256
2022	293,296	248,880	85%	44,416
2023	316,020	283,793	90%	32,227
2024	391,806	348,510	89%	43,296

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-HF: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	5	\$ 162,850	4.57%	0.00%
2015	5	171,020	4.50%	0.00%
2016	10	353,196	4.99%	0.00%
2017	10	382,212	4.95%	0.00%
2018	11	419,771	4.98%	0.00%
2019	13	491,938	5.04%	0.00%
2020	15	583,800	5.73%	0.00%
2021	15	596,731	5.90%	0.00%
2022	17	714,058	6.06%	0.00%
2023	18	779,732	6.19%	0.00%
2024	19	848,828	6.22%	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.

Table 10: Division-Based Layered Amortization Schedule

Division 01 - County TPOAM - closed

Table 10-01: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 4,149,481	23	\$ 4,056,451	14	\$ 377,796
(Gain)/Loss	12/31/2016	329,831	22	335,792	14	31,272
(Gain)/Loss	12/31/2017	(285,176)	21	(288,395)	14	(26,856)
(Gain)/Loss	12/31/2018	3,542	20	3,572	14	336
(Gain)/Loss	12/31/2019	64,544	19	64,593	14	6,012
Assumption	12/31/2019	334,548	19	318,797	14	29,688
Experience	12/31/2020	619,253	18	623,812	14	58,104
Experience	12/31/2021	(664,775)	17	(673,791)	14	(62,748)
Experience	12/31/2022	208,122	16	213,916	14	19,920
Experience	12/31/2023	(44,452)	15	(46,482)	14	(4,332)
Experience	12/31/2024	(29,720)	15	(31,780)	15	(2,808)
Total				\$ 4,576,485		\$ 426,384

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 02 - County Corrections - closed

Table 10-02: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 1,266,608	23	\$ 1,244,497	14	\$ 115,908
(Gain)/Loss	12/31/2016	(20,556)	22	(20,921)	14	(1,944)
(Gain)/Loss	12/31/2017	12,201	21	12,330	14	1,152
(Gain)/Loss	12/31/2018	239,612	20	241,215	14	22,464
(Gain)/Loss	12/31/2019	49,121	19	49,169	14	4,584
Assumption	12/31/2019	151,963	19	146,224	14	13,620
Experience	12/31/2020	300,556	18	302,768	14	28,200
Experience	12/31/2021	(70,769)	17	(71,720)	14	(6,684)
Experience	12/31/2022	(86,411)	16	(88,816)	14	(8,268)
Experience	12/31/2023	7,179	15	7,502	14	696
Experience	12/31/2024	(269,182)	15	(287,836)	15	(25,452)
Total				\$ 1,534,412		\$ 144,276

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 11 - Hlth Dept - closed

Table 10-11: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 1,145,144	23	\$ 1,122,019	14	\$ 104,496
(Gain)/Loss	12/31/2016	184,997	22	188,358	14	17,544
(Gain)/Loss	12/31/2017	106,992	21	108,206	14	10,080
(Gain)/Loss	12/31/2018	141,653	20	142,609	14	13,284
(Gain)/Loss	12/31/2019	279,030	19	279,282	14	26,016
Assumption	12/31/2019	107,009	19	100,055	14	9,324
Experience	12/31/2020	366,028	18	368,727	14	34,344
Experience	12/31/2021	208,156	17	210,983	14	19,656
Experience	12/31/2022	203,373	16	209,039	14	19,464
Experience	12/31/2023	767	15	802	14	72
Experience	12/31/2024	344,165	14	368,016	14	34,272
Total				\$ 3,098,096		\$ 288,552

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 - EDC General - closed

Table 10-13: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 367,144	23	\$ 363,554	14	\$ 33,864
(Gain)/Loss	12/31/2016	8,876	22	9,050	14	840
(Gain)/Loss	12/31/2017	30,432	21	30,770	14	2,868
(Gain)/Loss	12/31/2018	60,527	20	60,919	14	5,676
(Gain)/Loss	12/31/2019	49,243	19	49,284	14	4,596
Assumption	12/31/2019	64,201	19	62,301	14	5,808
Experience	12/31/2020	104,351	18	105,117	14	9,792
Experience	12/31/2021	(81,842)	17	(82,943)	14	(7,728)
Experience	12/31/2022	110,985	16	114,074	14	10,620
Experience	12/31/2023	57,710	15	60,338	14	5,616
Experience	12/31/2024	44,076	15	47,130	15	4,164
Total				\$ 819,594		\$ 76,116

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 - Health Dept Non-Union - Close

Table 10-15: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 2,152,411	23	\$ 2,110,899	14	\$ 196,596
(Gain)/Loss	12/31/2016	125,296	22	127,575	14	11,880
(Gain)/Loss	12/31/2017	342,406	21	346,278	14	32,256
(Gain)/Loss	12/31/2018	209,205	20	210,607	14	19,620
(Gain)/Loss	12/31/2019	287,927	19	288,183	14	26,844
Assumption	12/31/2019	299,978	19	288,405	14	26,856
Experience	12/31/2020	812,094	18	818,079	14	76,188
Experience	12/31/2021	(320,907)	17	(325,251)	14	(30,288)
Experience	12/31/2022	12,823	16	13,182	14	1,224
Experience	12/31/2023	296,199	15	309,707	14	28,848
Experience	12/31/2024	219,885	15	235,123	15	20,784
Total				\$ 4,422,787		\$ 410,808

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.

Table 10-16: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 3,198,243	23	\$ 3,137,744	14	\$ 292,236
(Gain)/Loss	12/31/2016	273,927	22	278,884	14	25,980
(Gain)/Loss	12/31/2017	(21,864)	21	(22,104)	14	(2,064)
(Gain)/Loss	12/31/2018	119,877	20	120,693	14	11,244
(Gain)/Loss	12/31/2019	237,046	19	237,258	14	22,092
Assumption	12/31/2019	384,516	19	370,451	14	34,500
Experience	12/31/2020	784,326	18	790,102	14	73,584
Experience	12/31/2021	(935,383)	17	(948,055)	14	(88,296)
Experience	12/31/2022	188,906	16	194,164	14	18,084
Experience	12/31/2023	151,664	15	158,581	14	14,772
Experience	12/31/2024	(192,979)	15	(206,352)	15	(18,240)
Total				\$ 4,111,366		\$ 383,892

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 - EDC General after 12/01/13

Table 10-17: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
(Gain)/Loss	12/31/2019	\$ 262	15	\$ 253	10	\$ 36
Experience	12/31/2020	15,715	15	14,936	11	1,680
Experience	12/31/2021	3,262	15	3,211	12	336
Experience	12/31/2022	21,227	15	21,622	13	2,136
Experience	12/31/2023	12,760	15	13,336	14	1,248
Experience	12/31/2024	14,841	15	15,870	15	1,404
Total				\$ 69,228		\$ 6,840

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 - County Sheriff Road - closed

Table 10-20: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ 842,782	23	\$ 824,444	14	\$ 76,788
(Gain)/Loss	12/31/2016	(114,787)	22	(116,849)	14	(10,884)
(Gain)/Loss	12/31/2017	12,277	21	12,400	14	1,152
(Gain)/Loss	12/31/2018	262,426	20	264,193	14	24,600
(Gain)/Loss	12/31/2019	132,211	19	132,346	14	12,324
Assumption	12/31/2019	114,080	19	109,895	14	10,236
Experience	12/31/2020	406,975	18	409,963	14	38,184
Experience	12/31/2021	(290,167)	17	(294,107)	14	(27,396)
Experience	12/31/2022	(52,464)	16	(53,933)	14	(5,028)
Experience	12/31/2023	70,185	15	73,387	14	6,840
Experience	12/31/2024	88,219	15	94,333	15	8,340
Total				\$ 1,456,072		\$ 135,156

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 - County Sheriff Rd after 5/1/1

Table 10-HA: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ (54,088)	10	\$ (30,837)	6	\$ (5,820)
(Gain)/Loss	12/31/2016	(10,134)	15	(7,615)	7	(1,260)
(Gain)/Loss	12/31/2017	(30,882)	15	(25,127)	8	(3,684)
(Gain)/Loss	12/31/2018	(26,646)	15	(23,077)	9	(3,060)
(Gain)/Loss	12/31/2019	(49,615)	15	(45,053)	10	(5,484)
Assumption	12/31/2019	488	15	986	10	120
Experience	12/31/2020	(2,096)	15	(1,994)	11	(228)
Experience	12/31/2021	(76,686)	15	(75,553)	12	(7,932)
Experience	12/31/2022	(37,436)	15	(38,116)	13	(3,756)
Experience	12/31/2023	(50,096)	15	(52,378)	14	(4,884)
Experience	12/31/2024	(1,791)	15	(1,915)	15	(168)
Total				\$ (300,679)		\$ (36,156)

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 HB - County Corrections after 5/1/

Table 10-HB: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
(Gain)/Loss	12/31/2019	\$ (1,239)	15	\$ (1,121)	10	\$ (132)
Experience	12/31/2020	(21,286)	15	(20,251)	11	(2,280)
Experience	12/31/2021	(8,347)	15	(8,225)	12	(864)
Experience	12/31/2022	(14,608)	15	(14,867)	13	(1,464)
Experience	12/31/2023	(9,435)	15	(9,870)	14	(924)
Experience	12/31/2024	(2,865)	15	(3,064)	15	(276)
Total				\$ (57,398)		\$ (5,940)

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-HC: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Experience	12/31/2022	\$ (41,786)	15	\$ (42,554)	13	\$ (4,200)
Experience	12/31/2023	19,174	15	20,050	14	1,872
Experience	12/31/2024	(122,812)	15	(131,323)	15	(11,616)
Total				\$ (153,827)		\$ (13,944)

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 HD - Hlth Dpt Teamstrs after 4/1/1

Table 10-HD: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ (123,301)	10	\$ (71,698)	6	\$ (13,536)
(Gain)/Loss	12/31/2016	(23,760)	15	(17,866)	7	(2,940)
(Gain)/Loss	12/31/2017	(67,958)	15	(55,271)	8	(8,112)
(Gain)/Loss	12/31/2018	(46,068)	15	(39,901)	9	(5,304)
(Gain)/Loss	12/31/2019	(75,387)	15	(68,445)	10	(8,328)
Assumption	12/31/2019	1,961	15	2,850	10	348
Experience	12/31/2020	(47,218)	15	(44,911)	11	(5,052)
Experience	12/31/2021	(93,014)	15	(91,642)	12	(9,624)
Experience	12/31/2022	(122,067)	15	(124,290)	13	(12,252)
Experience	12/31/2023	(45,750)	15	(47,831)	14	(4,452)
Experience	12/31/2024	(60,497)	10	(64,689)	10	(7,872)
Total				\$ (623,694)		\$ (77,124)

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 HE - Hlth Dpt Non-Union aft 4/1/11

Table 10-HE: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
Initial	12/31/2015	\$ (66,154)	10	\$ (36,281)	6	\$ (6,852)
(Gain)/Loss	12/31/2016	(40,288)	15	(30,290)	7	(4,992)
(Gain)/Loss	12/31/2017	(67,188)	15	(54,631)	8	(8,016)
(Gain)/Loss	12/31/2018	(75,735)	15	(65,593)	9	(8,712)
(Gain)/Loss	12/31/2019	(104,382)	15	(94,762)	10	(11,532)
Assumption	12/31/2019	2,327	15	3,278	10	396
Experience	12/31/2020	(22,591)	15	(21,473)	11	(2,412)
Experience	12/31/2021	(106,116)	15	(104,555)	12	(10,980)
Experience	12/31/2022	30,121	15	30,663	13	3,024
Experience	12/31/2023	15,327	15	16,023	14	1,488
Experience	12/31/2024	(65,231)	15	(69,752)	15	(6,168)
Total				\$ (427,373)		\$ (54,756)

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 HF - County TPOAM after 4/1/12

Table 10-HF: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance ¹	Original Amortization Period ²	Amounts for Fiscal Year Beginning 1/1/2026		
				Outstanding UAL Balance ³	Remaining Amortization Period ²	Annual Amortization Payment
(Gain)/Loss	12/31/2017	\$ 4,871	15	\$ 3,962	8	\$ 588
(Gain)/Loss	12/31/2018	2,288	15	1,992	9	264
(Gain)/Loss	12/31/2019	(1,188)	15	(1,072)	10	(132)
Assumption	12/31/2019	1,006	15	892	10	108
Experience	12/31/2020	18,191	15	17,290	11	1,944
Experience	12/31/2021	10,571	15	10,420	12	1,092
Experience	12/31/2022	7,160	15	7,289	13	720
Experience	12/31/2023	(11,662)	15	(12,192)	14	(1,140)
Experience	12/31/2024	13,341	15	14,266	15	1,260
Total				\$ 42,847		\$ 4,704

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:	208
Inactive employees entitled to but not yet receiving benefits (including refunds):	73
Active employees:	<u>148</u>
	429

Total Pension Liability as of 12/31/2023 measurement date:	\$ 58,732,416
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Total Pension Liability as of 12/31/2024 measurement date:	\$ 59,661,694
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Service Cost for the year ending on the 12/31/2024 measurement date:	\$ 609,067
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Change in the Total Pension Liability due to:

- Benefit changes ¹ :	\$ 0
- Differences between expected and actual experience ² :	\$ (131,366)
- Changes in assumptions ² :	\$ (32,809)

Average expected remaining service lives of all employees (active and inactive):	3
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¹ A change in liability due to benefit changes is immediately recognized when calculating pension expense for the year.

² Changes in liability due to differences between actual and expected experience, and changes in assumptions, are recognized in pension expense over the average remaining service lives of all employees.

Covered employee payroll (Needed for Required Supplementary Information):	\$ 8,112,048
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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 (6.18%)	Current Discount Rate (7.18%)	1% Increase (8.18%)
Change in Net Pension Liability as of 12/31/2024:	\$ 6,748,614	\$ 0	\$ (5,665,241)

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.



GASB Statement No. 68 Information

This page is for those municipalities who need to “roll forward” their total pension liability due to the timing of completion of the actuarial valuation in relation to their fiscal year-end.

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 www.mersofmich.com.

Actuarial Valuation Date:	12/31/2024
Measurement Date of the Total Pension Liability (TPL):	12/31/2025
At 12/31/2024, the following employees were covered by the benefit terms:	
Inactive employees or beneficiaries currently receiving benefits:	208
Inactive employees entitled to but not yet receiving benefits (including refunds):	73
Active employees:	<u>148</u>
	429
Total Pension Liability as of 12/31/2024 measurement date:	\$ 59,819,536
Total Pension Liability as of 12/31/2025 measurement date:	\$ 60,658,933
Service Cost for the year ending on the 12/31/2025 measurement date:	\$ 620,581
Change in the Total Pension Liability due to:	
- Benefit changes ¹ :	\$ 0
- Differences between expected and actual experience ² :	\$ (134,009)
- Changes in assumptions ² :	\$ (50,538)
Average expected remaining service lives of all employees (active and inactive):	3

¹ A change in liability due to benefit changes is immediately recognized when calculating pension expense for the year.

² Changes in liability due to differences between actual and expected experience, and changes in assumptions, are recognized in pension expense over the average remaining service lives of all employees.

Covered employee payroll (Needed for Required Supplementary Information):	\$ 8,112,048
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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 (6.18%)	Current Discount Rate (7.18%)	1% Increase (8.18%)
Change in Net Pension Liability as of 12/31/2025:	\$ 6,761,733	\$ 0	\$ (5,681,894)

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 - County TPOAM - closed

1/1/2021	Custom Wages
1/1/2021	Service Credit Qualification - 160 hours
1/1/2021	Workers Compensation - Service Granted
4/1/2017	Day of work defined as 160 Hours a Month for All employees.
1/1/2017	Service Credit Purchase Estimates - No
9/1/2009	Day of work defined as 140 Hours a Month for All employees.
9/1/2009	Exclude Temporary Employees requiring less than 12 months
1/1/2009	E 2% COLA Adopted (01/01/2009)
1/1/2008	E 2% COLA Adopted (01/01/2008)
1/1/2007	E 2% COLA Adopted (01/01/2007)
1/1/2006	E 2% COLA Adopted (01/01/2006)
1/1/2005	E 2% COLA Adopted (01/01/2005)
1/1/2004	E 2% COLA Adopted (01/01/2004)
1/1/2003	E 2% COLA Adopted (01/01/2003)
1/1/2002	E 2% COLA Adopted (01/01/2002)
1/1/2001	E 2% COLA Adopted (01/01/2001)
4/1/2000	2.25% Multiplier (Capped at 80% of FAC)
1/1/2000	E 2% COLA Adopted (01/01/2000)
1/1/1999	Flexible E 2% COLA Adopted (01/01/1999)
1/1/1998	E 2% COLA Adopted (01/01/1998)
1/1/1997	E 2% COLA Adopted (01/01/1997)
1/1/1995	E 2% COLA Adopted (01/01/1995)
1/1/1993	E 2% COLA Adopted (01/01/1993)
3/11/1991	Day of work defined as 6 Hours a Day for All employees.
1/1/1991	E1 2.5% COLA for past retirees (01/01/1991)
1/1/1991	Flexible E 2% COLA Adopted (01/01/1991)
7/1/1990	2.00% Multiplier
7/1/1990	Benefit F55 (With 20 Years of Service)
7/1/1990	Benefit FAC-3 (3 Year Final Average Compensation)
7/1/1990	Member Contribution Rate 2.00%
1/1/1990	E 2% COLA Adopted (01/01/1990)
1/1/1989	E 2% COLA Adopted (01/01/1989)
1/1/1976	Member Contribution Rate 0.00%
3/15/1974	Covered by Act 88
9/1/1972	1.20% Multiplier on FAC < \$4,200 and 1.70% Multiplier on FAC > \$4,200
8/1/1967	1.00% Multiplier on FAC < \$4,200 and 1.50% Multiplier on FAC > \$4,200
8/1/1967	10 Year Vesting
8/1/1967	Benefit FAC-5 (5 Year Final Average Compensation)
8/1/1967	Fiscal Month - January
8/1/1967	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

02 - County Corrections - closed

1/1/2021	Custom Wages
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 160 hours
1/1/2021	Workers Compensation - Service Granted
1/1/2017	Service Credit Purchase Estimates - No
9/1/2009	Day of work defined as 160 Hours a Month for All employees.
9/1/2009	Exclude Temporary Employees requiring less than 12 months
7/1/2008	Benefit F50 (With 25 Years of Service)
1/1/2008	E 2% COLA Adopted (01/01/2008)
1/1/2007	E 2% COLA Adopted (01/01/2007)
1/1/2006	E 2% COLA Adopted (01/01/2006)
1/1/2005	E 2% COLA Adopted (01/01/2005)
1/1/2004	E 2% COLA Adopted (01/01/2004)
7/1/2003	2.50% Multiplier (Capped at 80% of FAC)
7/1/2003	Member Contribution Rate 3.00%
1/1/2003	E 2% COLA Adopted (01/01/2003)
1/1/2002	E 2% COLA Adopted (01/01/2002)
1/1/2001	E 2% COLA Adopted (01/01/2001)
1/1/2000	E 2% COLA Adopted (01/01/2000)
1/1/2000	Member Contribution Rate 2.00%
1/1/1999	2.25% Multiplier (Capped at 80% of FAC)
1/1/1999	Member Contribution Rate 4.00%
1/1/1997	E 2% COLA Adopted (01/01/1997)
1/1/1995	E 2% COLA Adopted (01/01/1995)
1/1/1993	E 2% COLA Adopted (01/01/1993)
3/11/1991	Day of work defined as 6 Hours a Day for All employees.
1/1/1991	E1 2.5% COLA for past retirees (01/01/1991)
1/1/1991	E2 2.5% COLA for future retirees (01/01/1991)
1/1/1990	2.00% Multiplier
1/1/1990	Benefit F55 (With 20 Years of Service)
1/1/1990	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/1990	E 2% COLA Adopted (01/01/1990)
1/1/1990	Member Contribution Rate 2.00%
1/1/1989	E 2% COLA Adopted (01/01/1989)
1/1/1976	Member Contribution Rate 0.00%
3/15/1974	Covered by Act 88
9/1/1972	1.20% Multiplier on FAC < \$4,200 and 1.70% Multiplier on FAC > \$4,200
8/1/1967	1.00% Multiplier on FAC < \$4,200 and 1.50% Multiplier on FAC > \$4,200
8/1/1967	10 Year Vesting
8/1/1967	Benefit FAC-5 (5 Year Final Average Compensation)
8/1/1967	Fiscal Month - January
8/1/1967	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

11 - Hlth Dept - closed

1/1/2021	Custom Wages
1/1/2021	Service Credit Qualification - 160 hours
1/1/2021	Workers Compensation - Service Granted



11 - Hlth Dept - closed

12/1/2016	Service Credit Purchase Estimates - No
3/1/2011	2.25% Multiplier (Capped at 80% of FAC)
1/1/2009	E 2% COLA Adopted (01/01/2009)
1/1/2008	E 2% COLA Adopted (01/01/2008)
1/1/2007	E 2% COLA Adopted (01/01/2007)
2/1/2006	Flexible E 2.18% COLA Adopted (02/01/2006)
1/1/2005	E 2% COLA Adopted (01/01/2005)
1/1/2003	E 2% COLA Adopted (01/01/2003)
1/1/2002	E 2% COLA Adopted (01/01/2002)
1/1/2001	E 2% COLA Adopted (01/01/2001)
1/1/2000	Day of work defined as 160 Hours a Month for All employees.
1/1/2000	E 2% COLA Adopted (01/01/2000)
1/1/1999	Flexible E 2% COLA Adopted (01/01/1999)
6/8/1998	Day of work defined as 7 Hours a Day for All employees.
1/1/1998	2.00% Multiplier
1/1/1998	E 2% COLA Adopted (01/01/1998)
1/1/1998	Fiscal Month - January
1/1/1997	E 2% COLA Adopted (01/01/1997)
1/1/1995	E 2% COLA Adopted (01/01/1995)
1/1/1993	E 2% COLA Adopted (01/01/1993)
3/11/1991	Day of work defined as 6 Hours a Day for All employees.
1/1/1991	E1 2.5% COLA for past retirees (01/01/1991)
7/1/1990	Benefit F55 (With 20 Years of Service)
7/1/1990	Benefit FAC-3 (3 Year Final Average Compensation)
7/1/1990	Member Contribution Rate 2.00%
1/1/1990	E 2% COLA Adopted (01/01/1990)
1/1/1989	E 2% COLA Adopted (01/01/1989)
1/1/1976	Participant Contribution Rate 0%
3/15/1974	Covered by Act 88
9/1/1972	1.20% Multiplier on FAC < \$4,200 and 1.70% Multiplier on FAC > \$4,200
8/1/1967	1.00% Multiplier on FAC < \$4,200 and 1.50% Multiplier on FAC > \$4,200
8/1/1967	10 Year Vesting
8/1/1967	Benefit FAC-5 (5 Year Final Average Compensation)
8/1/1967	Participant Contribution Rate 3% Under \$4,200.00 - Then 5%
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

13 - EDC General - closed

1/1/2021	Custom Wages
1/1/2021	Service Credit Qualification - 160 hours
1/1/2021	Workers Compensation - Service Granted
6/1/2017	Day of work defined as 160 Hours a Month for All employees.
6/1/2017	Exclude Temporary Employees requiring less than 9 months
12/1/2016	Service Credit Purchase Estimates - Yes
5/1/2010	2.25% Multiplier (Capped at 80% of FAC)
1/1/2003	E 2% COLA Adopted (01/01/2003)
1/1/2002	E 2% COLA Adopted (01/01/2002)
1/1/2001	E 2% COLA Adopted (01/01/2001)
1/1/2000	E 2% COLA Adopted (01/01/2000)



13 - EDC General - closed

1/1/1999	Flexible E 2% COLA Adopted (01/01/1999)
1/1/1998	E 2% COLA Adopted (01/01/1998)
1/1/1997	E 2% COLA Adopted (01/01/1997)
1/1/1995	E 2% COLA Adopted (01/01/1995)
1/1/1993	E 2% COLA Adopted (01/01/1993)
1/1/1992	10 Year Vesting
1/1/1992	2.00% Multiplier
1/1/1992	Benefit F55 (With 20 Years of Service)
1/1/1992	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/1992	Fiscal Month - January
1/1/1992	Member Contribution Rate 2.00%
3/11/1991	Day of work defined as 6 Hours a Day for All employees.
1/1/1991	E1 2.5% COLA for past retirees (01/01/1991)
1/1/1990	E 2% COLA Adopted (01/01/1990)
1/1/1989	E 2% COLA Adopted (01/01/1989)
3/15/1974	Covered by Act 88
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

15 - Health Dept Non-Union - Close

1/1/2021	Custom Wages
1/1/2021	Service Credit Qualification - 140 hours
1/1/2021	Workers Compensation - Service Granted
11/1/2019	Day of work defined as 160 Hours a Month for All employees.
12/1/2016	Service Credit Purchase Estimates - No
2/1/2011	Day of work defined as 140 Hours a Month for Full Time employees.
1/1/2009	E 2% COLA Adopted (01/01/2009)
1/1/2008	E 2% COLA Adopted (01/01/2008)
1/1/2007	E 2% COLA Adopted (01/01/2007)
2/1/2003	10 Year Vesting
2/1/2003	2.25% Multiplier (Capped at 80% of FAC)
2/1/2003	Benefit F55 (With 20 Years of Service)
2/1/2003	Benefit FAC-3 (3 Year Final Average Compensation)
2/1/2003	Member Contribution Rate 2.00%
6/8/1998	Day of work defined as 7 Hours a Day for All employees.
1/1/1998	Fiscal Month - January
3/11/1991	Day of work defined as 6 Hours a Day for All employees.
3/15/1974	Covered by Act 88
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

16 - Gnrl, N-Un&Dsptch bf 5/1/10

1/1/2021	Custom Wages
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 160 hours
1/1/2021	Workers Compensation - Service Granted
4/1/2017	Day of work defined as 160 Hours a Month for All employees.
1/1/2017	Service Credit Purchase Estimates - No
3/1/2010	10 Year Vesting



16 - Gnrl, N-Un&Dsptch bf 5/1/10

3/1/2010	2.25% Multiplier (Capped at 80% of FAC)
3/1/2010	Benefit F55 (With 20 Years of Service)
3/1/2010	Benefit FAC-3 (3 Year Final Average Compensation)
3/1/2010	Day of work defined as 6 Hours a Day for Group employees.
3/1/2010	Member Contribution Rate 2.00%
3/15/1974	Covered by Act 88
8/1/1967	Fiscal Month - January
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

17 - EDC General after 12/01/13

1/1/2021	Custom Wages
1/1/2021	Service Credit Qualification - 160 hours
1/1/2021	Workers Compensation - Service Granted
6/1/2017	Day of work defined as 160 Hours a Month for All employees.
6/1/2017	Exclude Temporary Employees requiring less than 9 months
12/1/2016	Service Credit Purchase Estimates - Yes
12/1/2013	1.50% Multiplier (Capped at 80% of FAC)
12/1/2013	10 Year Vesting
12/1/2013	Benefit FAC-3 (3 Year Final Average Compensation)
12/1/2013	Day of work defined as 6 Days a Day for All employees.
12/1/2013	Member Contribution Rate 3.00%
1/1/1992	Fiscal Month - January
3/15/1974	Covered by Act 88
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

20 - County Sheriff Road - closed

1/1/2021	Custom Wages
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 160 hours
1/1/2021	Workers Compensation - Service Granted
1/1/2017	Service Credit Purchase Estimates - No
9/1/2009	Day of work defined as 160 Hours a Month for All employees.
1/1/2009	E2 2.5% COLA for future retirees (07/01/2008)
7/1/2008	10 Year Vesting
7/1/2008	2.50% Multiplier (Capped at 80% of FAC)
7/1/2008	Benefit F50 (With 25 Years of Service)
7/1/2008	Benefit F55 (With 20 Years of Service)
7/1/2008	Benefit FAC-3 (3 Year Final Average Compensation)
7/1/2008	Day of work defined as 6 Hours a Day for Group employees.
7/1/2008	Member Contribution Rate 3.00%
3/15/1974	Covered by Act 88
8/1/1967	Fiscal Month - January
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

HA - County Sheriff Rd after 5/1/1

1/1/2021	Custom Wages
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HA - County Sheriff Rd after 5/1/1

1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 160 hours
1/1/2021	Workers Compensation - Service Granted
5/1/2010	1.00% Multiplier
5/1/2010	6 Year Vesting
5/1/2010	Benefit FAC-3 (3 Year Final Average Compensation)
5/1/2010	Day of work defined as 160 Hours a Month for All employees.
5/1/2010	Member Contribution Rate 0.00%
3/15/1974	Covered by ACT 88
8/1/1967	Fiscal Month - January
	No Early Reduced Conditions
	Normal Retirement Age (DB) - 60

HB - County Corrections after 5/1/

1/1/2021	Custom Wages
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 160 hours
1/1/2021	Workers Compensation - Service Granted
5/1/2010	1.00% Multiplier
5/1/2010	6 Year Vesting
5/1/2010	Benefit FAC-3 (3 Year Final Average Compensation)
5/1/2010	Day of work defined as 160 Hours a Month for All employees.
5/1/2010	Member Contribution Rate 0.00%
3/15/1974	Covered by ACT 88
8/1/1967	Fiscal Month - January
	No Early Reduced Conditions
	Normal Retirement Age (DB) - 60

HC - County, N-Un & Disp af 5/1/10

1/1/2021	Custom Wages
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 160 hours
1/1/2021	Workers Compensation - Service Granted
5/1/2010	1.00% Multiplier
5/1/2010	6 Year Vesting
5/1/2010	Benefit FAC-3 (3 Year Final Average Compensation)
5/1/2010	Day of work defined as 160 Hours a Month for All employees.
5/1/2010	Member Contribution Rate 0.00%
3/15/1974	Covered by ACT 88
8/1/1967	Fiscal Month - January
	No Early Reduced Conditions
	Normal Retirement Age (DB) - 60

HD - Hlth Dpt Teamstrs after 4/1/1

1/1/2021	Custom Wages
1/1/2021	Service Credit Qualification - 160 hours
1/1/2021	Workers Compensation - Service Granted
4/1/2011	1.00% Multiplier
4/1/2011	6 Year Vesting



HD - Hlth Dpt Teamstrs after 4/1/1

4/1/2011	Benefit FAC-3 (3 Year Final Average Compensation)
4/1/2011	Day of work defined as 160 Hours a Month for Group employees.
4/1/2011	Participant Contribution Rate 0%
1/1/1998	Fiscal Month - January
3/15/1974	Covered by ACT 88
	No Early Reduced Conditions
	Normal Retirement Age (DB) - 60

HE - Hlth Dpt Non-Union aft 4/1/11

1/1/2021	Custom Wages
1/1/2021	Service Credit Qualification - 160 hours
1/1/2021	Workers Compensation - Service Granted
11/1/2019	Day of work defined as 160 Hours a Month for All employees.
4/1/2011	1.00% Multiplier
4/1/2011	6 Year Vesting
4/1/2011	Benefit FAC-3 (3 Year Final Average Compensation)
4/1/2011	Day of work defined as 140 Hours a Month for All employees.
4/1/2011	Participant Contribution Rate 0%
1/1/1998	Fiscal Month - January
3/15/1974	Covered by ACT 88
	No Early Reduced Conditions
	Normal Retirement Age (DB) - 60

HF - County TPOAM after 4/1/12

1/1/2021	Custom Wages
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 160 hours
1/1/2021	Workers Compensation - Service Granted
4/1/2017	Day of work defined as 160 Hours a Month for All employees.
4/1/2012	1.00% Multiplier
4/1/2012	6 Year Vesting
4/1/2012	Benefit FAC-3 (3 Year Final Average Compensation)
4/1/2012	Day of work defined as 140 Hours a Month for All employees.
4/1/2012	Participant Contribution Rate 0%
3/15/1974	Covered by ACT 88
8/1/1967	Fiscal Month - January
	No Early Reduced Conditions
	Normal Retirement Age (DB) - 60

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	3.7	5.9	0.9	10.6	-3.2%
2019	4.1	6.4	0.9	11.3	-3.2%
2020	4.2	6.6	0.8	11.2	-4.2%
2021	4.9	7.3	0.8	12.0	-2.2%
2022	4.1	7.0	0.8	9.9	-1.4%
2023	4.2	6.8	0.8	10.5	-2.1%
2024	4.9	7.5	0.7	10.9	-0.9%

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		
Line Reference	Description	Result
10	Membership as of December 31, 2024	
11	Indicate number of active members	148
12	Indicate number of inactive members (excluding pending refunds)	46
13	Indicate number of retirees and beneficiaries	208
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	\$40,960,839
25	Enter retirement pension system's actuarial accrued liabilities using uniform assumptions ⁵	\$61,237,536
27	Actuarially Determined Contribution (ADC) using uniform assumptions, Fiscal Year Ending December 31, 2025	\$2,564,112

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%.