

# Municipal Employees' Retirement System of Michigan

Annual Actuarial Valuation Report December 31, 2024 - Ontonagon, Vlg of (6603)





Spring 2025

Ontonagon, Vlg of

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

This report presents the results of the Annual Actuarial Valuation, prepared for Ontonagon, Vlg of (6603) 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. Ontonagon, Vlg of is responsible for the employer contributions needed to provide MERS benefits for its employees and former employees.

The purposes of this valuation are to:

- Measure funding progress as of December 31, 2024,
- Establish contribution requirements for the fiscal year beginning April 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

Ontonagon, VIg of Spring 2025 Page 2

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 79<sup>th</sup> 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 Ontonagon, VIg of as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board, and with applicable statutes.

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

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

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



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

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

Sincerely, Gabriel, Roeder, Smith & Company

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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*	64%	65%

<sup>\*</sup> 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.

	Percentag	e of Payroll	Mon	jected Payroll			
Valuation Date:	12/31/2024	12/31/2023	12	12/31/2024 12/31/20			
	April 1,	April 1,		April 1,	April 1,		
Fiscal Year Beginning:	2026	2025		2026	2025		
Division							
01 - General	-	-	\$	12,002	\$	11,723	
10 - Admin	=	=		46,530		44,263	
Total Municipality -							
Estimated Monthly Contribution			\$	58,532	\$	55,986	
Total Municipality -							
Estimated Annual Contribution			\$	702,384	\$	671,832	

#### Employee contribution rates:

	Employee Contribution Rate					
Valuation Date:	12/31/2024	12/31/2023				
Division						
01 - General	0.00%	0.00%				
10 - Admin	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 \$75,877, instead of \$58,532.



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 60% (instead of 64%); and
- Your total employer contribution requirement for the fiscal year starting April 1, 2026 would be \$744,744 (instead of \$702,384).



## 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	\$ 17,043,912	\$ 15,556,166	\$ 14,285,185
Valuation Assets <sup>1</sup>	\$ 9,185,867	\$ 9,185,867	\$ 9,185,867
Unfunded Accrued Liability	\$ 7,858,045	\$ 6,370,299	\$ 5,099,318
Funded Ratio	54%	59%	64%
Monthly Normal Cost	\$ 3,179	\$ 2,441	\$ 1,890
Monthly Amortization Payment	\$ 68,924	\$ 62,620	\$ 56,642
Total Employer Contribution <sup>2</sup>	\$ 72,103	\$ 65,061	\$ 58,532

<sup>&</sup>lt;sup>1</sup> The Valuation Assets include assets from Surplus divisions, if any.

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



## **Projection Scenarios**

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

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

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

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

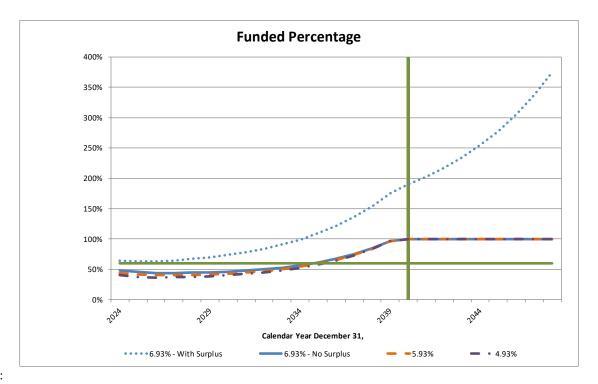


Valuation	Fiscal Year	Actuarial				Esti	mated Annual	
Year Ending	Beginning	Accrued		Valuation	Funded	Employer		
12/31	4/1		Liability	Assets <sup>2</sup>	Percentage	Contribution		
6.93% <sup>1</sup>								
2024	2026	\$	14,285,185	\$ 6,817,433	48%	\$	702,384	
2025	2027	\$	13,900,000	\$ 6,380,000	46%	\$	746,000	
2026	2028	\$	13,600,000	\$ 5,980,000	44%	\$	791,000	
2027	2029	\$	13,200,000	\$ 5,830,000	44%	\$	813,000	
2028	2030	\$	12,900,000	\$ 5,720,000	44%	\$	835,000	
2029	2031	\$	12,400,000	\$ 5,620,000	45%	\$	858,000	
5.93% <sup>1</sup>								
2024	2026	\$	15,556,166	\$ 6,817,433	44%	\$	780,732	
2025	2027	\$	15,200,000	\$ 6,320,000	42%	\$	825,000	
2026	2028	\$	14,800,000	\$ 5,910,000	40%	\$	870,000	
2027	2029	\$	14,300,000	\$ 5,780,000	40%	\$	893,000	
2028	2030	\$	13,900,000	\$ 5,700,000	41%	\$	917,000	
2029	2031	\$	13,400,000	\$ 5,630,000	42%	\$	942,000	
4.93% <sup>1</sup>								
2024	2026	\$	17,043,912	\$ 6,817,433	40%	\$	865,236	
2025	2027	\$	16,600,000	\$ 6,260,000	38%	\$	910,000	
2026	2028	\$	16,100,000	\$ 5,860,000	36%	\$	955,000	
2027	2029	\$	15,600,000	\$ 5,750,000	37%	\$	979,000	
2028	2030	\$	15,100,000	\$ 5,700,000	38%	\$	1,010,000	
2029	2031	\$	14,600,000	\$ 5,660,000	39%	\$	1,030,000	

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

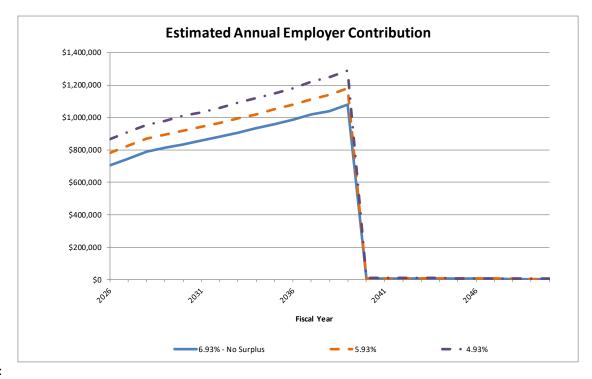


<sup>&</sup>lt;sup>2</sup> Valuation Assets do not include assets from Surplus divisions, if any.



#### Notes:

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



#### Notes:

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



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

			Employer Contributions <sup>1</sup>						
	Total Normal	Employee Contribution	Employer Normal Cost <sup>6</sup>		Payment of the Unfunded Accrued Liability <sup>4</sup>		Computed Employer	Blended ER Rate <sup>5</sup>	Employee Contribution Conversion
Division	Cost	Rate	Cost		Liability	1	Contribution	Kate	Factor <sup>2</sup>
Percentage of Payroll									
01 - General	8.65%	0.00%		-		-	-		
10 - Admin	0.00%	0.00%		-		-	-		
Estimated Monthly Contribution <sup>3</sup>									
01 - General			\$ 1,	390	\$ 10,112	\$	12,002		
10 - Admin				0	46,530		46,530		
Total Municipality			\$ 1,	390	\$ 56,642	\$	58,532		
Estimated Annual Contribution <sup>3</sup>			\$ 22,	580	\$ 679,704	\$	702,384		

<sup>&</sup>lt;sup>1</sup> The above employer contribution requirements are in addition to the employee contributions, if any.

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



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.

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.

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.

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).

<sup>&</sup>lt;sup>6</sup> 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.

## **Table 2: Benefit Provisions**

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	2024 Valuation	2023 Valuation						
Benefit Multiplier:	2.00% Multiplier (no max)	2.00% Multiplier (no max)						
Normal Retirement Age:	60	60						
Vesting:	10 years	10 years						
Early Retirement (Unreduced):	55/30	55/30						
Early Retirement (Reduced):	50/25	50/25						
	55/15	55/15						
Final Average Compensation:	3 years	3 years						
<b>Employee Contributions:</b>	0.00%	0.00%						
DC Plan for New Hires:	1/1/2022	1/1/2022						
Act 88:	No	No						

## 10 - Admin: 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:	6 years	6 years
Early Retirement (Unreduced):	55/15	55/15
Early Retirement (Reduced):	50/25	50/25
Final Average Compensation:	3 years	3 years
<b>Employee Contributions:</b>	0.00%	0.00%
DC Plan for New Hires:	1/1/2022	1/1/2022
Act 88:	No	No



## **Table 3: Participant Summary**

	2024 Valuation			202	3 Va	aluation	2024 Valuation			
Division	Number		Annual Payroll <sup>1</sup>	Number		Annual Payroll <sup>1</sup>	Average Age	Average Benefit Service <sup>2</sup>	Average Eligibility Service <sup>2</sup>	
01 - General										
Active Employees	5	\$	277,105	6	\$	315,333	52.0	16.4	16.4	
Vested Former Employees	1		5,369	1		5,369	51.5	10.5	10.5	
Retirees and Beneficiaries	11		222,076	11		222,076	76.9			
Pending Refunds	0			0						
10 - Admin										
Active Employees	0	\$	0	0	\$	0	0.0	0.0	0.0	
Vested Former Employees	16		120,930	18		134,550	55.9	10.3	10.3	
Retirees and Beneficiaries	109		1,066,234	110		1,092,167	73.8			
Pending Refunds	15			25						
Total Municipality										
Active Employees	5	\$	277,105	6	\$	315,333	52.0	16.4	16.4	
Vested Former Employees	17		126,299	19		139,919	55.6	10.3	10.3	
Retirees and Beneficiaries	120		1,288,310	121		1,314,243	74.1			
Pending Refunds	<u>15</u>			<u>25</u>						
Total Participants	157			171						

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



<sup>&</sup>lt;sup>2</sup> Descriptions can be found under Miscellaneous and Technical Assumptions in the Appendix.

## **Table 4: Reported Assets (Market Value)**

	2024 Valuation					2023 Valuation				
	Em	ployer and			E	mployer and				
Division		Retiree <sup>1</sup> Employee <sup>2</sup> Retiree <sup>1</sup>				Employee <sup>2</sup>				
01 - General	\$	1,692,987	\$	0	\$	1,665,709	\$	0		
10 - Admin		4,319,914		386,240		4,555,141		451,902		
SG - Surplus Grant Funds		2,223,116		0		2,072,039		0		
Municipality Total <sup>3</sup>	\$	8,236,016	\$	386,240	\$	8,292,889	\$	451,902		
Combined Assets <sup>3</sup>	\$8,622,256 \$8,744,790					)				

<sup>&</sup>lt;sup>1</sup> Reserve for Employer Contributions and Benefit Payments.

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

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



<sup>&</sup>lt;sup>2</sup> Reserve for Employee Contributions.

Totals may not add due to rounding.

## **Table 5: Flow of Valuation Assets**

Vasau				Investment		Familiana		Malwet's a	
Year				Income		Employee		Valuation	
Ended	Employer Co	ntributions	Employee	(Valuation	Benefit	Contribution	Net	Asset	
12/31	Required	Additional	Contributions	Assets)	Payments	Refunds	Transfers	Balance	
2014	\$ 333,901	\$ 0	\$ 0	\$ 524,601	\$ (1,187,581)	\$ (2,390)	\$ 0	\$ 9,730,768	
2015	259,730	0	0	400,446	(1,196,864)	0	0	9,194,080	
2016	287,317	0	0	375,220	(1,236,641)	(5,778)	0	8,614,198	
2017	362,365	0	0	464,640	(1,238,617)	(4,842)	0	8,197,744	
2018	554,091	0	0	278,743	(1,262,056)	0	0	7,768,522	
2019	263,190	0	0	290,576	(1,289,391)	0	0	7,032,897	
2020	433,600	0	0	456,356	(1,286,148)	(17,858)	0	6,618,847	
2021	733,415	0	0	1,060,081	(1,305,569)	(49,381)	0	7,057,393	
2022	676,593	974,255	0	365,033	(1,318,939)	(6,202)	0	7,748,133	
2023	622,113	1,952,964	0	625,378	(1,321,088)	(12,122)	0	9,615,378	
2024	607,170	0	0	316,585	(1,304,538)	(48,728)	0	9,185,867	

#### Notes:

Transfers in and out are usually related to the transfer of participants between municipalities, and to employee 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.



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

				Actu	aria	l Accrued Liab	bili	ity						Unf	funded
				Vested										(Ove	rfunded)
	4	Active Former		Retirees and Pending						Percent	Ac	crued			
Division	Em	ployees	Е	mployees	Beneficiaries			Refunds Total		Valu	ation Assets	Funded	Liabilities		
01 - General	\$	941,331	\$	35,697	\$	2,158,605	\$	0	\$	3,135,633	\$	1,803,652	57.5%	\$	1,331,981
10 - Admin		0		1,121,130		10,004,772		23,650		11,149,552		5,013,781	45.0%		6,135,771
SG - Surplus Grant Funds		0		0		0		0 0		0		2,368,434		(	(2,368,434)
Total	\$	941,331	\$	1,156,827	\$	12,163,377	\$	23,650	\$	14,285,185	\$	9,185,867	64.3%	\$	5,099,318

#### 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	Actuarial		Percent	Unfunded (Overfunded) Accrued		
		Valuation Assats				
December 31	Accrued Liability	Valuation Assets	Funded	Liabilities		
2010	\$ 14,287,467	\$ 11,730,330	82%	\$ 2,557,137		
2011	14,394,313	11,119,494	77%	3,274,819		
2012	14,264,403	10,485,859	74%	3,778,544		
2013	14,204,453	10,062,237	71%	4,142,216		
2014	14,100,686	9,730,768	69%	4,369,918		
2015	14,721,529	9,194,080	63%	5,527,449		
2016	14,492,050	8,614,198	59%	5,877,852		
2017	14,296,540	8,197,744	57%	6,098,796		
2018	14,139,409	7,768,522	55%	6,370,887		
2019	14,458,944	7,032,897	49%	7,426,047		
2020	14,908,695	6,618,847	44%	8,289,848		
2021	15,233,302	7,057,393	46%	8,175,909		
2022	14,798,132	7,748,133	52%	7,049,999		
2023	14,753,430	9,615,378	65%	5,138,052		
2024	14,285,185	9,185,867	64%	5,099,318		

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 - General**

**Table 8-01: Actuarial Accrued Liabilities - Comparative Schedule** 

				Unfunded (Overfunded)		
Valuation Date December 31	Actuarial Accrued Liability			Accrued Liabilities		
2014	\$ 2,733,461	\$ 1,870,683	Funded 68%	\$ 862,778		
2015	2,911,249	1,850,005	64%	1,061,244		
2016	2,859,984	1,799,995	63%	1,059,989		
2017	2,892,126	1,795,415	62%	1,096,711		
2018	2,857,670	1,730,104	61%	1,127,566		
2019	2,919,496	1,692,534	58%	1,226,962		
2020	2,951,956	1,701,761	58%	1,250,195		
2021	3,125,101	1,884,496	60%	1,240,605		
2022	3,101,648	1,851,930	60%	1,249,718		
2023	3,135,896	1,831,539	58%	1,304,357		
2024	3,135,633	1,803,652	58%	1,331,981		

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** 

	Active En	nployees	Computed	Employee
Valuation Date		Annual	Employer	Contribution
December 31	Number	Payroll	Contribution <sup>1</sup>	Rate <sup>2</sup>
2014	8	\$ 344,025	23.37%	0.00%
2015	8	313,208	30.27%	0.00%
2016	8	317,610	29.87%	0.00%
2017	8	344,493	29.43%	0.00%
2018	9	359,846	29.45%	0.00%
2019	8	351,903	33.50%	0.00%
2020	8	330,596	35.73%	0.00%
2021	7	338,845	35.83%	0.00%
2022	6	298,213	\$ 10,818	0.00%
2023	6	315,333	\$ 11,723	0.00%
2024	5	277,105	\$ 12,002	0.00%

<sup>&</sup>lt;sup>1</sup> For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

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.



<sup>&</sup>lt;sup>2</sup> 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.

**Table 8-10: Actuarial Accrued Liabilities - Comparative Schedule** 

				Unfunded (Overfunded)		
Valuation Date	Actuarial		Percent	Accrued		
December 31	Accrued Liability	Valuation Assets	Funded	Liabilities		
2014	\$ 176,949	\$ 175,408	99%	\$ 1,541		
2015	11,810,280	7,344,075	62%	4,466,205		
2016	11,632,066	6,814,203	59%	4,817,863		
2017	11,404,414	6,402,329	56%	5,002,085		
2018	11,281,739	6,038,418	54%	5,243,321		
2019	11,539,448	5,340,363	46%	6,199,085		
2020	11,956,739	4,917,086	41%	7,039,653		
2021	12,108,201	5,172,897	43%	6,935,304		
2022	11,696,484	5,896,203	50%	5,800,281		
2023	11,617,534	5,505,518	47%	6,112,016		
2024	11,149,552	5,013,781	45%	6,135,771		

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

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

**Table 9-10: Computed Employer Contributions - Comparative Schedule** 

	Active Em	nployees	Computed	Employee
Valuation Date		Annual	Employer	Contribution
December 31	Number	Payroll	Contribution <sup>1</sup>	Rate <sup>2</sup>
2014	1	\$ 54,523	17.07%	0.00%
2015	1	53,689	574.95%	0.00%
2016	1	53,760	595.76%	0.00%
2017	1	56,988	591.15%	0.00%
2018	1	57,176	636.11%	0.00%
2019	1	57,179	810.06%	0.00%
2020	1	56,149	962.01%	0.00%
2021	1	75,746	703.24%	0.00%
2022	0	0	\$ 39,433	0.00%
2023	0	0	\$ 44,263	0.00%
2024	0	0	\$ 46,530	0.00%

<sup>&</sup>lt;sup>1</sup> For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

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.



<sup>&</sup>lt;sup>2</sup> 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.

## **Division SG - Surplus Grant Funds**

Table 8-SG: Actuarial Accrued Liabilities - Comparative Schedule

				Unfunded (Overfunded)		
Valuation Date	Actuarial		Percent	Accrued		
December 31	Accrued Liability	Valuation Assets	Funded	Liabilities		
2014	\$ 0	\$ 0		\$ 0		
2015	0	0		0		
2016	0	0		0		
2017	0	0		0		
2018	0	0		0		
2019	0	0		0		
2020	0	0		0		
2021	0	0		0		
2022	0	0		0		
2023	0	2,278,321		(2,278,321)		
2024	0	2,368,434		(2,368,434)		

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



## **Table 10: Division-Based Layered Amortization Schedule**

#### **Division 01 - General**

**Table 10-01: Layered Amortization Schedule** 

				Amounts for Fiscal Year Beginning 4/1/2026				
			Original			Remaining	Aı	nnual
	Date	Original	Amortization	Out	Outstanding Amortization		Amo	rtization
Type of UAL	Established	Balance <sup>1</sup>	Period <sup>2</sup>	UAL	. Balance <sup>3</sup>	Period <sup>2</sup>	Payment	
Initial	12/31/2015	\$ 1,061,244	23	\$	1,051,806	14	\$	97,956
(Gain)/Loss	12/31/2016	(34,711)	22		(35,987)	14		(3,348)
(Gain)/Loss	12/31/2017	23,982	21		24,711	14		2,304
(Gain)/Loss	12/31/2018	21,333	20		21,877	14		2,040
(Gain)/Loss	12/31/2019	14,674	19		14,943	14		1,392
Assumption	12/31/2019	77,063	19		73,283	14		6,828
Experience	12/31/2020	17,353	18		17,795	14		1,656
Experience	12/31/2021	(11,070)	17		(11,416)	14		(1,068)
Experience	12/31/2022	24,085	16		25,175	14		2,340
Experience	12/31/2023	68,810	15		73,168	14		6,816
Experience	12/31/2024	43,684	14		47,500	14		4,428
Total				\$	1,302,855		\$	121,344

<sup>&</sup>lt;sup>1</sup> For each type of UAL (layer), this is the original balance as of the date the layer was established.

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.

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



<sup>&</sup>lt;sup>2</sup> According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

<sup>&</sup>lt;sup>3</sup> This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

Table 10-10: Layered Amortization Schedule

				Amounts for Fiscal Year Beginning 4/1/2026				
			Original			Remaining	Α	nnual
	Date	Original	Amortization	Outstanding		Amortization	Amortization	
Type of UAL	Established	Balance <sup>1</sup>	Period <sup>2</sup>	UAI	L Balance <sup>3</sup>	Period <sup>2</sup>	Pa	yment
Initial	12/31/2015	\$ 4,466,205	23	\$	4,675,666	14	\$	435,468
(Gain)/Loss	12/31/2016	5,089	22		5,263	14		492
(Gain)/Loss	12/31/2017	61,727	21		63,600	14		5,928
(Gain)/Loss	12/31/2018	198,245	20		203,330	14		18,936
(Gain)/Loss	12/31/2019	560,731	19		571,255	14		53,208
Assumption	12/31/2019	355,494	19		335,495	14		31,248
Experience	12/31/2020	775,558	18		795,238	14		74,064
Experience	12/31/2021	(174,127)	17		(179,487)	14		(16,716)
Experience	12/31/2022	(1,056,183)	16		(1,104,115)	14		(102,828)
Experience	12/31/2023	477,800	15		508,036	14		47,316
Experience	12/31/2024	111,015	14		120,714	14		11,244
Total				\$	5,994,995		\$	558,360

 $<sup>^{1}</sup>$  For each type of UAL (layer), this is the original balance as of the date the layer was established.

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.



<sup>&</sup>lt;sup>2</sup> According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

<sup>&</sup>lt;sup>3</sup> This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

## **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 <a href="http://www.mersofmich.com/">http://www.mersofmich.com/</a>.

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:	120
Inactive employees entitled to but not yet receiving benefits (including refunds):	32
Active employees:	<u>5</u>
	157
Total Pension Liability as of 12/31/2023 measurement date:	\$ 14,448,352
Total Pension Liability as of 12/31/2024 measurement date:	\$ 13,996,387
Service Cost for the year ending on the 12/31/2024 measurement date:	\$ 23,083
Change in the Total Pension Liability due to:	
- Benefit changes <sup>1</sup> :	\$ 0
- Differences between expected and actual experience <sup>2</sup> :	\$ (67,066)
- Changes in assumptions <sup>2</sup> :	\$ (44,354)
Average expected remaining service lives of all employees (active and inactive):	0

 $<sup>^{1}</sup>$ A change in liability due to benefit changes is immediately recognized when calculating pension expense for the year.

Covered employee payroll (Needed for Required Supplementary Information): \$ 277,105

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		Current Discount		1% Increase
		<u>(6.18%)</u>	Ra	ate (7.18%)	<u>(8.18%)</u>
Change in Net Pension Liability as of 12/31/2024:	\$	1,223,455	\$	0	\$ (1,055,482)

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.



<sup>&</sup>lt;sup>2</sup> 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.

## **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:	120
Inactive employees entitled to but not yet receiving benefits (including refunds):	32
Active employees:	<u>5</u>
	157
Total Pension Liability as of 12/31/2024 measurement date:	\$ 14,082,306
Total Pension Liability as of 12/31/2025 measurement date:	\$ 13,671,552
Service Cost for the year ending on the 12/31/2025 measurement date:	\$ 23,117
Change in the Total Pension Liability due to:	
- Benefit changes <sup>1</sup> :	\$ 0
- Differences between expected and actual experience <sup>2</sup> :	\$ (44,549)
- Changes in assumptions <sup>2</sup> :	\$ (48,199)
Average expected remaining service lives of all employees (active and inactive):	0

 $<sup>^{1}</sup>$ A change in liability due to benefit changes is immediately recognized when calculating pension expense for the year.

Covered employee payroll (Needed for Required Supplementary Information): \$ 277,105

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	L% Decrease	Curren	t Discount	1% Increase
		<u>(6.18%)</u>	Rate	(7.18%)	(8.18%)
Change in Net Pension Liability as of 12/31/2025:	\$	1,172,226	\$	0	\$ (1,013,375)

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.



<sup>&</sup>lt;sup>2</sup> 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.

## **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.

9/1/2023 Pension Grant Recipient 1/1/2022 DC Adoption Date 01-01-2022 1/1/2021 Temporary Lump Sum Buyout - Yes - 59.3% (09/01/2021 - 12/31/2022) 1/1/2021 Box 1 Wages 1/1/2021 FMLA - Service Granted 1/1/2021 Long Term Disability - Service Granted 1/1/2021 Long Term Disability - Service Granted 1/1/2021 Public Safety Employees - Yes 1/1/2021 Service Credit Qualification - 160 hours 1/1/2021 Short Term Disability - Service Granted 1/1/2021 Service Credit Purchase Estimates - Yes 1/1/2008 Flexible E \$10.00 Monthly COLA Adopted (01/01/2008) 1/1/2007 Flexible E \$10.00 Monthly COLA Adopted (01/01/2007) 1/1/2006 Flexible E \$10.00 Monthly COLA Adopted (01/01/2006) 1/1/2005 Flexible E \$10.00 Monthly COLA Adopted (01/01/2006) 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 (01/01/2002) 1/1/2001 E 2% COLA Adopted (01/01/2001) 7/1/1990 Benefit F55 (With 30 Years of Service) 7/1/1990 Benefit FAC-3 (3 Year Final Average Compensation) 1/1/1976 Sexulude Temporary Employees 7/1/1976 1.20% Multiplier on FAC < \$4,200 and 1.70% Multiplier on FAC > \$4,200 1/1/1976 Fiscal Month - April 7/1/1976 Fiscal Month - April 7/1/1976 Fiscal Month - April 7/1/1976 Pension Grant Recipient 9/1/2023 Pension Grant Recipient 9/1/2023 Pension Grant Recipient 1/1/2022 DC Adoption Date 01-01-2022	01 Conoral	
1/1/2022 DC Adoption Date 01-01-2022 1/1/2021 Non-Accelerated Amortization 9/1/2021 Temporary Lump Sum Buyout - Yes - 59.3% (09/01/2021 - 12/31/2022) 1/1/2021 Box 1 Wages 1/1/2021 FMLA - Service Granted 1/1/2021 Long Term Disability - Service Granted 1/1/2021 Public Safety Employees - Yes 1/1/2021 Service Credit Qualification - 160 hours 1/1/2021 Short Term Disability - Service Granted 1/1/2021 Short Term Disability - Service Granted 1/1/2021 Workers Compensation - Service Granted 1/1/2021 Workers Compensation - Service Granted 1/1/2021 Service Credit Purchase Estimates - Yes 1/1/2003 Flexible E \$10.00 Monthly COLA Adopted (01/01/2008) 1/1/2007 Flexible E \$10.00 Monthly COLA Adopted (01/01/2007) 1/1/2006 Flexible E \$10.00 Monthly COLA Adopted (01/01/2006) 1/1/2005 Flexible E \$10.00 Monthly 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 (01/01/2003) 1/1/2001 E 2% COLA Adopted (01/01/2002) 1/1/2001 E 2% COLA Adopted (01/01/2001) 7/1/1990 Benefit FSS (With 30 Years of Service) 7/1/1990 Benefit FAC-3 (3 Year Final Average Compensation) 1/1/1977 Member Contribution Rate 0.00% 7/26/1976 Exclude Temporary Employees 7/1/1976 Fiscal Month - April 7/1/1976 Piscal Month - April 7/1/1976 Piscal Month - April 7/1/1976 Pension Grant Recipient 9/1/2023 Pension Grant Recipient 9/1/2023 Pension Grant Recipient 1/1/2022 DC Adoption Date 01-01-2022	01 - General	Dancian Crant Daniniant
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1/1/2008 Flexible E \$10.00 Monthly COLA Adopted (01/01/2008) 1/1/2007 Flexible E \$10.00 Monthly COLA Adopted (01/01/2007) 1/1/2006 Flexible E \$10.00 Monthly COLA Adopted (01/01/2006) 1/1/2005 Flexible E \$14.83 Monthly 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) 7/1/1990 2.00% Multiplier 7/1/1990 Benefit F55 (With 30 Years of Service) 7/1/1990 Benefit FAC-3 (3 Year Final Average Compensation) 1/1/1977 Member Contribution Rate 0.00% 7/26/1976 Exclude Temporary Employees 7/1/1976 1.20% Multiplier on FAC < \$4,200 and 1.70% Multiplier on FAC > \$4,200 7/1/1976 Benefit FAC-5 (5 Year Final Average Compensation) 7/1/1976 Fiscal Month - April 7/1/1976 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	1/1/2021	Workers Compensation - Service Granted
1/1/2007 Flexible E \$10.00 Monthly COLA Adopted (01/01/2007) 1/1/2006 Flexible E \$10.00 Monthly COLA Adopted (01/01/2006) 1/1/2005 Flexible E \$14.83 Monthly 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) 7/1/1990 Z.00% Multiplier 7/1/1990 Benefit F55 (With 30 Years of Service) 7/1/1990 Benefit FAC-3 (3 Year Final Average Compensation) 1/1/1977 Member Contribution Rate 0.00% 7/26/1976 Exclude Temporary Employees 7/1/1976 1.20% Multiplier on FAC < \$4,200 and 1.70% Multiplier on FAC > \$4,200 7/1/1976 10 Year Vesting 7/1/1976 Benefit FAC-5 (5 Year Final Average Compensation) 7/1/1976 Fiscal Month - April 7/1/1976 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	12/1/2016	Service Credit Purchase Estimates - Yes
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1/1/2003	1/1/2005	Flexible E \$14.83 Monthly COLA Adopted (01/01/2005)
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7/26/1976 Exclude Temporary Employees  7/1/1976 1.20% Multiplier on FAC < \$4,200 and 1.70% Multiplier on FAC > \$4,200  7/1/1976 10 Year Vesting  7/1/1976 Benefit FAC-5 (5 Year Final Average Compensation)  7/1/1976 Fiscal Month - April  7/1/1976 Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00%  Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years  Normal Retirement Age (DB) - 60  10 - Admin  9/1/2023 Pension Grant Recipient  1/1/2022 DC Adoption Date 01-01-2022	7/1/1990	Benefit FAC-3 (3 Year Final Average Compensation)
7/1/1976	1/1/1977	Member Contribution Rate 0.00%
7/1/1976 10 Year Vesting 7/1/1976 Benefit FAC-5 (5 Year Final Average Compensation) 7/1/1976 Fiscal Month - April 7/1/1976 Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00% Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years Normal Retirement Age (DB) - 60  10 - Admin 9/1/2023 Pension Grant Recipient 1/1/2022 DC Adoption Date 01-01-2022	7/26/1976	Exclude Temporary Employees
7/1/1976 Benefit FAC-5 (5 Year Final Average Compensation) 7/1/1976 Fiscal Month - April 7/1/1976 Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00% Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years Normal Retirement Age (DB) - 60  10 - Admin 9/1/2023 Pension Grant Recipient 1/1/2022 DC Adoption Date 01-01-2022	7/1/1976	1.20% Multiplier on FAC < \$4,200 and 1.70% Multiplier on FAC > \$4,200
7/1/1976 Fiscal Month - April 7/1/1976 Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00% Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years Normal Retirement Age (DB) - 60  10 - Admin 9/1/2023 Pension Grant Recipient 1/1/2022 DC Adoption Date 01-01-2022	7/1/1976	10 Year Vesting
7/1/1976 Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00% Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years Normal Retirement Age (DB) - 60  10 - Admin 9/1/2023 Pension Grant Recipient 1/1/2022 DC Adoption Date 01-01-2022	7/1/1976	Benefit FAC-5 (5 Year Final Average Compensation)
Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years Normal Retirement Age (DB) - 60  10 - Admin 9/1/2023 Pension Grant Recipient 1/1/2022 DC Adoption Date 01-01-2022	7/1/1976	Fiscal Month - April
Normal Retirement Age (DB) - 60  10 - Admin 9/1/2023 Pension Grant Recipient 1/1/2022 DC Adoption Date 01-01-2022	7/1/1976	Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00%
10 - Admin 9/1/2023 Pension Grant Recipient 1/1/2022 DC Adoption Date 01-01-2022		Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
9/1/2023 Pension Grant Recipient 1/1/2022 DC Adoption Date 01-01-2022		Normal Retirement Age (DB) - 60
1/1/2022 DC Adoption Date 01-01-2022	10 - Admin	
1/1/2022 DC Adoption Date 01-01-2022	9/1/2023	Pension Grant Recipient
·	1/1/2022	DC Adoption Date 01-01-2022
1/1/2022 1001/100010101011	1/1/2022	Non-Accelerated Amortization
9/1/2021 Temporary Lump Sum Buyout - Yes - 42.6% (09/01/2021 - 12/31/2022)	9/1/2021	Temporary Lump Sum Buyout - Yes - 42.6% (09/01/2021 - 12/31/2022)
1/1/2021 Box 1 Wages	1/1/2021	
1/1/2021 FMLA - Service Granted	• •	
1/1/2021 Long Term Disability - Service Granted	1/1/2021	
1/1/2021 Service Credit Qualification - 160 hours		



# 10 - Admin 1/1/2021 Short Term Disability - Service Granted 1/1/2021 Workers Compensation - Service Granted 12/1/2016 Service Credit Purchase Estimates - Yes

5/1/2008 2.25% Multiplier (Capped at 80% of FAC)
5/1/2008 Member Contribution Rate 0.00%
4/1/2008 Member Contribution Rate 5.00%

1/1/2008 Flexible E \$10.00 Monthly COLA Adopted (01/01/2008)

10/1/2007 2.50% Multiplier (Capped at 80% of FAC)

10/1/2007 Member Contribution Rate 3.00%

1/1/2007 Flexible E \$10.00 Monthly COLA Adopted (01/01/2007) 1/1/2006 Flexible E \$10.00 Monthly COLA Adopted (01/01/2006)

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)

1/1/1999 2.00% Multiplier 1/1/1999 6 Year Vesting

1/1/1999 Benefit F55 (With 15 Years of Service)

1/1/1999 Benefit FAC-3 (3 Year Final Average Compensation)

1/1/1999 Member Contribution Rate 0.00% 7/26/1976 Exclude Temporary Employees

7/1/1976 Fiscal Month - April

Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years

Normal Retirement Age (DB) - 60

#### **SG - Surplus Grant Funds**

7/1/1976 Fiscal Month - April



# 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:

_	Ratio of:				
_	Market Value	Actuarial	Actives to	Market Value of	Net Cash Flow to
	of Assets to	<b>Accrued Liability</b>	Retirees and	Assets to Benefit	Market Value of
December 31,	Total Payroll	to Payroll	Beneficiaries	Payments	Assets (BOY)
2018	17.0	33.9	0.1	5.6	-8.7%
2019	17.0	35.3	0.1	5.4	-14.5%
2020	17.6	38.5	0.1	5.2	-12.5%
2021	17.0	36.7	0.1	5.2	-9.1%
2022	22.4	49.6	0.1	5.1	4.6%
2023	27.7	46.8	0.0	6.6	18.6%
2024	31.1	51.6	0.0	6.4	-8.5%

## **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 supermature 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 <a href="https://www.mersofmich.com">www.mersofmich.com</a> and on the State <a href="https://www.mersofmich.com">website</a>.

Form 5572 Line Reference	Description	Result
Eme neverence	Sessiphon	nesare
10	Membership as of December 31, 2024	
11	Indicate number of active members	5
12	Indicate number of inactive members (excluding pending refunds)	17
13	Indicate number of retirees and beneficiaries	120
14	Investment Performance for Calendar Year Ending December 31, 2024 <sup>1</sup>	
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 <sup>2</sup>	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 <sup>3</sup>	14
22	Is each division within the system closed to new employees? <sup>4</sup>	Yes
23	Uniform Assumptions	
24	Enter retirement pension system's actuarial value of assets using uniform assumptions	\$8,912,584
25	Enter retirement pension system's actuarial accrued liabilities using uniform assumptions <sup>5</sup>	\$14,285,185
27	Actuarially Determined Contribution (ADC) using uniform assumptions, Fiscal Year Ending March 31, 2025	\$825,864

<sup>&</sup>lt;sup>1</sup> 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.

- <sup>2</sup> Net of administrative and investment expenses.
- <sup>3</sup> 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.
- <sup>4</sup> If all divisions within the employer are closed, "yes." If at least one division is open (including shadow divisions), "no."
- <sup>5</sup> 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%.

