



Municipal Employees' Retirement System of Michigan

Annual Actuarial Valuation Report
December 31, 2024 - Meridian Chtr Twp (3315)





Spring 2025

Meridian Chtr Twp

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 Meridian Chtr Twp (3315) 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. Meridian Chtr Twp 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” (LDRM). The LDRM 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 Meridian Chtr Twp 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.



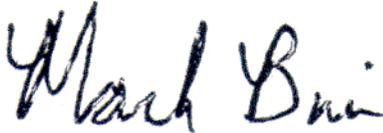
This report was prepared at the request of the MERS Retirement Board and may be provided only in its entirety by the municipality to other interested parties (MERS customarily provides the full report on request to associated third parties such as the auditor for the municipality). GRS is not responsible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

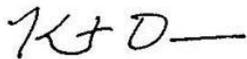
Sincerely,
Gabriel, Roeder, Smith & Company



Rebecca L. Stouffer, ASA, FCA, MAAA



Mark Buis, FSA, FCA, EA, MAAA



Kurt Dossan, 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*	75%	74%

* 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.**

	Percentage of Payroll		Monthly \$ Based on Projected Payroll		
	Valuation Date:	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 - DPW	-	-	\$ 18,747	\$ 17,461	
02 - Police Patrol	-	-	49,782	44,593	
05 - Firefighters	-	-	180,225	167,783	
10 - Admin Professional	-	-	12,300	12,220	
11 - Teamsters	-	-	3,284	2,723	
12 - Admin Prof on/aft 1/1/17	3.85%	3.35%	1,852	1,344	
13 - DPW on/aft 01/1/17	4.79%	4.68%	2,992	2,741	
20 - Plc Comm & Chief aft 9/23	-	-	88,068	74,894	
21 - Command/Patrol on/aft 1/1/20	2.94%	2.64%	3,419	1,704	
50 - Fire on/aft 1/1/17	3.72%	3.71%	5,106	3,722	
Total Municipality - Estimated Monthly Contribution			\$ 365,775	\$ 329,185	
Total Municipality - Estimated Annual Contribution			\$ 4,389,300	\$ 3,950,220	

Employee contribution rates:

Valuation Date:	Employee Contribution Rate	
	12/31/2024	12/31/2023
Division		
01 - DPW	5.00%	5.00%
02 - Police Patrol	8.29%	8.29%
05 - Firefighters	7.76%	7.76%
10 - Admin Professional	5.00%	5.00%
11 - Teamsters	5.00%	5.00%
12 - Admin Prof on/aft 1/1/17	5.00%	5.00%
13 - DPW on/aft 01/1/17	5.00%	5.00%
20 - Plc Comm & Chief aft 9/23	11.24%	11.24%
21 - Command/Patrol on/aft 1/1/20	8.29%	8.29%
50 - Fire on/aft 1/1/17	7.76%	7.76%

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 \$463,130, instead of \$365,775.

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 70% (instead of 75%); and
- Your total employer contribution requirement for the fiscal year starting January 1, 2026 would be \$4,721,232 (instead of \$4,389,300).

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	\$ 126,814,602	\$ 110,986,788	\$ 98,061,937
Valuation Assets ¹	\$ 73,547,981	\$ 73,547,981	\$ 73,547,981
Unfunded Accrued Liability	\$ 53,266,621	\$ 37,438,807	\$ 24,513,956
Funded Ratio	58%	66%	75%
Monthly Normal Cost	\$ 127,986	\$ 85,038	\$ 53,787
Monthly Amortization Payment	\$ 465,467	\$ 385,425	\$ 311,988
Total Employer Contribution²	\$ 593,453	\$ 470,463	\$ 365,775

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

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

Projection Scenarios

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

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

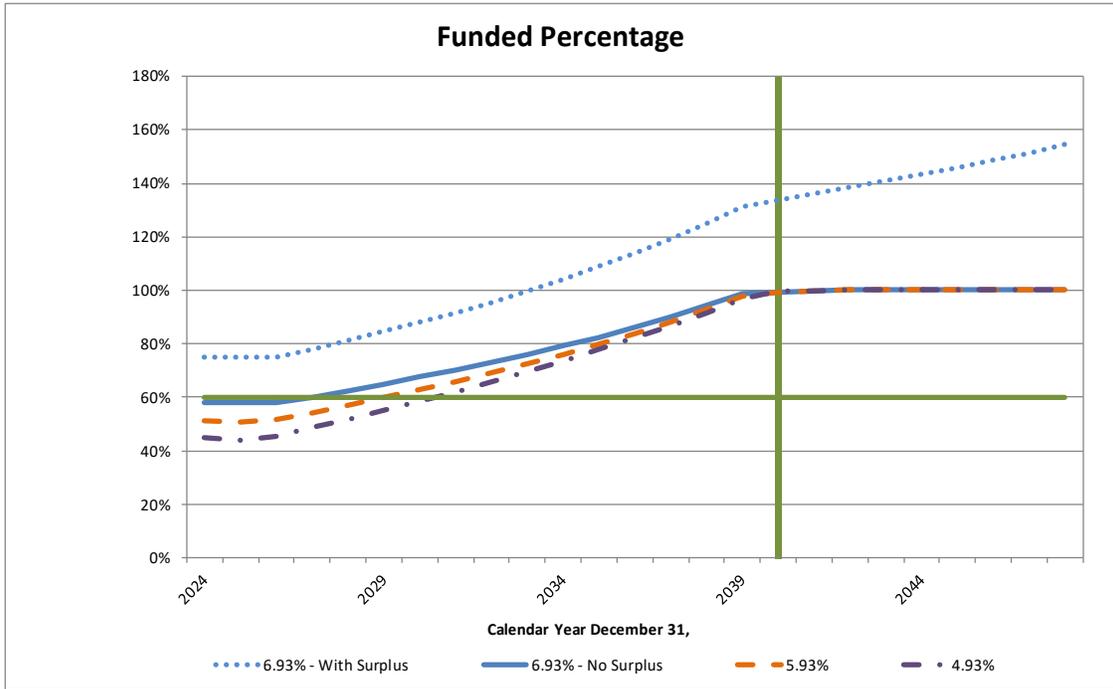
Your municipality includes one or more Surplus divisions. Extra contributions in a Surplus division may be used to reduce future employer contributions or to accelerate the date by which the municipality becomes 100% funded. The timing and use of these Surplus assets within the plan is discretionary.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

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

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	\$ 98,061,937	\$ 57,087,073	58%	\$ 4,389,300
2025	2027	\$ 100,500,000	\$ 58,300,000	58%	\$ 4,670,000
2026	2028	\$ 103,200,000	\$ 59,800,000	58%	\$ 4,980,000
2027	2029	\$ 105,800,000	\$ 63,600,000	60%	\$ 5,100,000
2028	2030	\$ 108,300,000	\$ 67,700,000	63%	\$ 5,230,000
2029	2031	\$ 110,700,000	\$ 72,000,000	65%	\$ 5,360,000
5.93%¹					
2024	2026	\$ 110,986,788	\$ 57,087,073	51%	\$ 5,645,556
2025	2027	\$ 113,600,000	\$ 57,800,000	51%	\$ 5,980,000
2026	2028	\$ 116,500,000	\$ 60,000,000	52%	\$ 6,300,000
2027	2029	\$ 119,300,000	\$ 64,600,000	54%	\$ 6,450,000
2028	2030	\$ 122,000,000	\$ 69,500,000	57%	\$ 6,600,000
2029	2031	\$ 124,600,000	\$ 74,600,000	60%	\$ 6,770,000
4.93%¹					
2024	2026	\$ 126,814,602	\$ 57,087,073	45%	\$ 7,121,436
2025	2027	\$ 129,700,000	\$ 57,200,000	44%	\$ 7,510,000
2026	2028	\$ 132,700,000	\$ 60,400,000	46%	\$ 7,850,000
2027	2029	\$ 135,700,000	\$ 66,000,000	49%	\$ 8,030,000
2028	2030	\$ 138,700,000	\$ 71,900,000	52%	\$ 8,220,000
2029	2031	\$ 141,400,000	\$ 78,000,000	55%	\$ 8,420,000

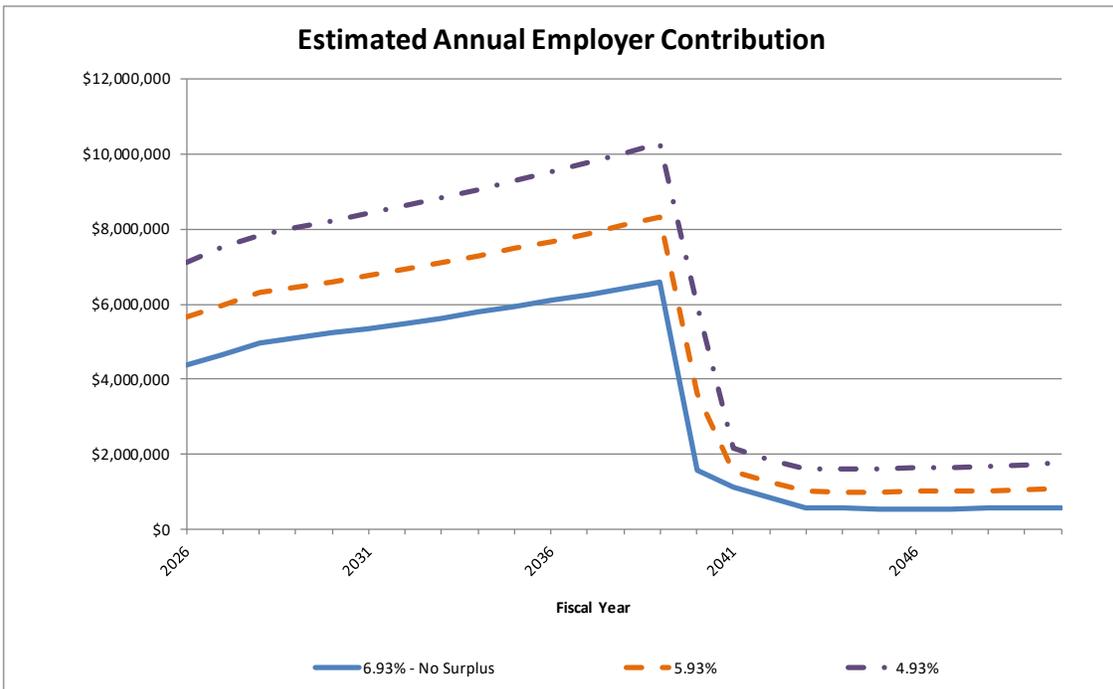
¹ Represents both the interest rate for discounting liabilities and the future investment return assumption on the Market Value of assets.

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



Notes:

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



Notes:

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

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 - DPW	11.95%	5.00%	-	-	-	18.24%	
02 - Police Patrol	22.57%	8.29%	-	-	-	48.87%	
05 - Firefighters	18.90%	7.76%	-	-	-	66.13%	
10 - Admin Professional	10.91%	5.00%	-	-	-	19.06%	
11 - Teamsters	0.00%	5.00%	-	-	-		
12 - Admin Prof on/aft 1/1/17	8.93%	5.00%	3.93%	-0.08%	3.85%	19.06%	0.84%
13 - DPW on/aft 01/1/17	8.94%	5.00%	3.94%	0.85%	4.79%	18.24%	0.89%
20 - Plc Comm & Chief aft 9/23	21.01%	11.24%	-	-	-	48.87%	
21 - Command/Patrol on/aft 1/1/20	10.74%	8.29%	2.45%	0.49%	2.94%	48.87%	0.82%
50 - Fire on/aft 1/1/17	11.14%	7.76%	3.38%	0.34%	3.72%	66.13%	0.84%
Estimated Monthly Contribution³							
01 - DPW			\$ 3,943	\$ 14,804	\$ 18,747		
02 - Police Patrol			11,597	38,185	49,782		
05 - Firefighters			15,921	164,304	180,225		
10 - Admin Professional			1,545	10,755	12,300		
11 - Teamsters			0	3,284	3,284		
12 - Admin Prof on/aft 1/1/17			1,890	(38)	1,852		
13 - DPW on/aft 01/1/17			2,460	532	2,992		
20 - Plc Comm & Chief aft 9/23			8,940	79,128	88,068		
21 - Command/Patrol on/aft 1/1/20			2,850	569	3,419		
50 - Fire on/aft 1/1/17			4,641	465	5,106		
Total Municipality			\$ 53,787	\$ 311,988	\$ 365,775		
Estimated Annual Contribution³			\$ 645,444	\$ 3,743,856	\$ 4,389,300		

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 - DPW: Closed to new hires, linked to Division 13

	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):	55/20	55/20
Early Retirement (Reduced):	50/25 55/15	50/25 55/15
Final Average Compensation:	5 years	5 years
Employee Contributions:	5.00%	5.00%
Act 88:	Yes (Adopted 7/10/2001)	Yes (Adopted 7/10/2001)

02 - Police Patrol: Closed to new hires, linked to Division 21

	2024 Valuation	2023 Valuation
Benefit Multiplier:	2.75% Multiplier (80% max)	2.75% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	50/25	50/25
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:	8.29%	8.29%
D-2:	D2 (25%)	D2 (25%)
Act 88:	Yes (Adopted 7/10/2001)	Yes (Adopted 7/10/2001)

05 - Firefighters: Closed to new hires, linked to Division 50

	2024 Valuation	2023 Valuation
Benefit Multiplier:	Bridged Benefit: 2.75% Multiplier (80% max)-Termination FAC; 2.50% Multiplier (80% max)	Bridged Benefit: 2.75% Multiplier (80% max)-Termination FAC; 2.50% Multiplier (80% max)
Bridged Benefit Date:	12/31/2016	12/31/2016
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	50/25	50/25
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:	7.76%	7.76%
D-2:	D2 (25%)	D2 (25%)
Act 88:	Yes (Adopted 7/10/2001)	Yes (Adopted 7/10/2001)

10 - Admin Professional: Closed to new hires, linked to Division 12

	2024 Valuation	2023 Valuation
Benefit Multiplier:	Bridged Benefit: 2.50% Multiplier (80% max)-Termination FAC; 2.25% Multiplier (80% max)	Bridged Benefit: 2.50% Multiplier (80% max)-Termination FAC; 2.25% Multiplier (80% max)
Bridged Benefit Date:	12/31/2016	12/31/2016
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	55/25	55/25
Early Retirement (Reduced):	50/25 55/15	50/25 55/15
Final Average Compensation:	5 years	5 years
Employee Contributions:	5.00%	5.00%
Act 88:	Yes (Adopted 7/10/2001)	Yes (Adopted 7/10/2001)

11 - Teamsters: Open Division

	2024 Valuation	2023 Valuation
Benefit Multiplier:	2.00% Multiplier (no max)	2.00% Multiplier (no max)
Normal Retirement Age:	60	60
Vesting:	6 years	6 years
Early Retirement (Unreduced):	55/20	55/20
Early Retirement (Reduced):	50/25 55/15	50/25 55/15
Final Average Compensation:	5 years	5 years
Employee Contributions:	5.00%	5.00%
Act 88:	Yes (Adopted 7/10/2001)	Yes (Adopted 7/10/2001)

12 - Admin Prof on/aft 1/1/17: Open Division, linked to Division 10

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.50% Multiplier (no max)	1.50% Multiplier (no max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	55/25	55/25
Early Retirement (Reduced):	50/25 55/15	50/25 55/15
Final Average Compensation:	5 years	5 years
Employee Contributions:	5.00%	5.00%
Act 88:	Yes (Adopted 7/10/2001)	Yes (Adopted 7/10/2001)

13 - DPW on/aft 01/1/17: Open Division, linked to Division 01

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.50% Multiplier (80% max)	1.50% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	6 years	6 years
Early Retirement (Unreduced):	55/20	55/20
Early Retirement (Reduced):	50/25 55/15	50/25 55/15
Final Average Compensation:	5 years	5 years
Employee Contributions:	5.00%	5.00%
Act 88:	Yes (Adopted 7/10/2001)	Yes (Adopted 7/10/2001)

20 - Plc Comm & Chief aft 9/23: Closed to new hires, linked to Division 21

	2024 Valuation	2023 Valuation
Benefit Multiplier:	2.75% Multiplier (80% max)	2.75% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	50/25	50/25
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:	11.24%	11.24%
D-2:	D2 (25%)	D2 (25%)
Act 88:	Yes (Adopted 7/10/2001)	Yes (Adopted 7/10/2001)

21 - Command/Patrol on/aft 1/1/20: Open Division, linked to Division 02, 20

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.75% Multiplier (no max)	1.75% Multiplier (no max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	55/25	55/25
Early Retirement (Reduced):	50/25 55/15	50/25 55/15
Final Average Compensation:	3 years	3 years
Employee Contributions:	8.29%	8.29%
D-2:	D2 (25%)	D2 (25%)
Act 88:	Yes (Adopted 7/10/2001)	Yes (Adopted 7/10/2001)



50 - Fire on/aft 1/1/17: Open Division, linked to Division 05

	2024 Valuation	2023 Valuation
Benefit Multiplier:	1.75% Multiplier (no max)	1.75% Multiplier (no max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	55/25	55/25
Early Retirement (Reduced):	50/25	50/25
	55/15	55/15
Final Average Compensation:	3 years	3 years
Employee Contributions:	7.76%	7.76%
D-2:	D2 (25%)	D2 (25%)
Act 88:	Yes (Adopted 7/10/2001)	Yes (Adopted 7/10/2001)

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 - DPW							
Active Employees	12	\$ 758,036	12	\$ 756,731	48.8	15.0	15.0
Vested Former Employees	6	70,897	6	70,897	47.3	9.4	10.2
Retirees and Beneficiaries	22	398,186	22	405,107	71.6		
Pending Refunds	4		5				
02 - Police Patrol							
Active Employees	10	\$ 952,892	12	\$ 1,023,186	36.2	9.6	11.5
Vested Former Employees	13	244,706	13	244,983	50.8	10.6	15.5
Retirees and Beneficiaries	19	907,179	18	836,813	62.0		
Pending Refunds	13		15				
05 - Firefighters							
Active Employees	19	\$ 1,884,354	19	\$ 1,749,200	46.2	18.1	18.2
Vested Former Employees	4	122,088	4	122,088	49.6	16.1	16.1
Retirees and Beneficiaries	41	2,169,891	41	2,128,671	65.0		
Pending Refunds	1		1				
10 - Admin Professional							
Active Employees	6	\$ 338,407	6	\$ 318,004	53.2	17.6	17.6
Vested Former Employees	8	75,692	8	75,692	53.6	10.3	15.0
Retirees and Beneficiaries	21	373,293	22	397,347	69.4		
Pending Refunds	6		8				
11 - Teamsters							
Active Employees	0	\$ 0	0	\$ 0	0.0	0.0	0.0
Vested Former Employees	0	0	0	0	0.0	0.0	0.0
Retirees and Beneficiaries	6	163,830	6	163,830	75.8		
Pending Refunds	0		0				
12 - Admin Prof on/aft 1/1/17							
Active Employees	9	\$ 501,318	9	\$ 416,538	42.7	3.0	4.4
Vested Former Employees	1	1,014	0	0	65.3	1.1	10.8
Retirees and Beneficiaries	1	1,682	1	1,682	71.2		
Pending Refunds	12		11				
13 - DPW on/aft 01/1/17							
Active Employees	10	\$ 589,925	10	\$ 570,808	43.0	5.0	5.0
Vested Former Employees	0	0	0	0	0.0	0.0	0.0
Retirees and Beneficiaries	0	0	0	0	0.0		
Pending Refunds	4		4				

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 - Plc Comm & Chief aft 9/23							
Active Employees	10	\$ 1,122,212	10	\$ 980,664	42.6	17.1	17.3
Vested Former Employees	1	49,282	2	65,294	46.4	20.6	22.2
Retirees and Beneficiaries	18	1,077,655	17	992,887	63.1		
Pending Refunds	0		0				
21 - Command/Patrol on/aft 1/1/20							
Active Employees	19	\$ 1,194,430	10	\$ 562,157	28.3	2.1	3.4
Vested Former Employees	1	353	1	353	32.5	1.0	3.8
Retirees and Beneficiaries	0	0	0	0	0.0		
Pending Refunds	12		11				
50 - Fire on/aft 1/1/17							
Active Employees	19	\$ 1,285,459	17	\$ 987,768	31.2	2.9	5.4
Vested Former Employees	1	1,940	1	1,940	45.3	2.2	4.1
Retirees and Beneficiaries	0	0	0	0	0.0		
Pending Refunds	5		4				
Total Municipality							
Active Employees	114	\$ 8,627,033	105	\$ 7,365,056	39.6	9.4	10.3
Vested Former Employees	35	565,972	35	581,247	50.3	10.5	13.9
Retirees and Beneficiaries	128	5,091,716	127	4,926,337	66.7		
Pending Refunds	57		59				
Total Participants	334		326				

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 - DPW	\$ 4,277,809	\$ 475,598	\$ 4,192,345	\$ 420,207
02 - Police Patrol	11,075,112	1,437,410	10,581,937	1,515,889
05 - Firefighters	16,559,946	2,631,064	15,741,645	2,246,202
10 - Admin Professional	3,433,281	309,976	3,454,098	284,657
11 - Teamsters	946,802	0	1,013,898	0
12 - Admin Prof on/aft 1/1/17	102,243	97,898	77,274	68,429
13 - DPW on/aft 01/1/17	126,671	142,731	89,179	108,713
20 - Plc Comm & Chief aft 9/23	9,740,203	1,467,674	8,935,510	1,486,425
21 - Command/Patrol on/aft 1/1/20	59,872	246,749	27,442	101,643
50 - Fire on/aft 1/1/17	157,764	295,621	93,191	192,672
S1 - Surplus Assoc Fire	7,135,349	0	5,940,553	0
S2 - Surplus Assoc Police	7,135,349	0	5,940,553	0
S3 - Surplus Unassociated	1,180,228	0	687,974	0
Municipality Total³	\$ 61,930,629	\$ 7,104,719	\$ 56,775,600	\$ 6,424,836
Combined Assets³	\$69,035,347		\$63,200,436	

¹ Reserve for Employer Contributions and Benefit Payments.

² Reserve for Employee Contributions.

³ Totals may not add due to rounding.

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

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

Table 5: Flow of Valuation Assets

Year Ended 12/31	Employer Contributions		Employee Contributions	Investment Income (Valuation Assets)	Benefit Payments	Employee Contribution Refunds	Net Transfers	Valuation Asset Balance
	Required	Additional						
2014	\$ 1,863,475	\$ 0	\$ 445,419	\$ 1,878,815	\$ (2,457,430)	\$ (3,012)	\$ 106,873	\$ 33,589,515
2015	2,065,675	0	434,297	1,678,089	(2,837,027)	0	0	34,930,549
2016	1,835,443	999,999	442,227	2,065,803	(3,002,485)	(62,383)	12,712	37,221,865
2017	2,318,478	1,141,890	473,016	2,351,814	(3,092,898)	0	46,837	40,461,002
2018	2,302,708	1,500,041	500,743	1,572,989	(3,319,579)	(7,832)	0	43,010,072
2019	2,264,527	1,590,180	503,378	2,210,081	(3,573,024)	(2,615)	0	46,002,599
2020	2,472,037	1,704,767	507,807	4,027,028	(3,852,948)	(11,786)	0	50,849,504
2021	3,009,366	1,750,000	495,714	8,830,566	(4,077,886)	(58,196)	39,292	60,838,360
2022	3,265,892	1,934,108	525,343	2,347,415	(4,314,322)	(68,279)	0	64,528,517
2023	3,153,464	2,185,997	578,857	3,592,083	(4,706,434)	(30,569)	190,441	69,492,356
2024	3,479,328	1,943,708	664,747	2,836,676	(4,976,501)	(37,527)	145,194	73,547,981

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 - DPW	\$ 2,463,048	\$ 354,279	\$ 4,185,401	\$ 6,346	\$ 7,009,074	\$ 5,064,123	72.3%	\$ 1,944,951
02 - Police Patrol	2,967,560	2,000,472	13,216,374	153,257	18,337,663	13,330,428	72.7%	5,007,235
05 - Firefighters	12,068,648	951,334	29,023,211	8,807	42,052,000	20,445,468	48.6%	21,606,532
10 - Admin Professional	1,025,167	571,163	3,794,455	15,623	5,406,408	3,987,942	73.8%	1,418,466
11 - Teamsters	0	0	1,436,037	0	1,436,037	1,008,691	70.2%	427,346
12 - Admin Prof on/aft 1/1/17	153,452	11,588	19,477	26,702	211,219	213,223	100.9%	(2,004)
13 - DPW on/aft 01/1/17	345,155	0	0	8,201	353,356	287,012	81.2%	66,344
20 - Plc Comm & Chief aft 9/23	7,034,286	272,597	15,009,328	0	22,316,211	11,940,502	53.5%	10,375,709
21 - Command/Patrol on/aft 1/1/20	367,278	3,973	0	27,696	398,947	326,663	81.9%	72,284
50 - Fire on/aft 1/1/17	509,564	8,947	0	22,511	541,022	483,021	89.3%	58,001
S1 - Surplus Assoc Fire	0	0	0	0	0	7,601,766		(7,601,766)
S2 - Surplus Assoc Police	0	0	0	0	0	7,601,766		(7,601,766)
S3 - Surplus Unassociated	0	0	0	0	0	1,257,376		(1,257,376)
Total	\$ 26,934,158	\$ 4,174,353	\$ 66,684,283	\$ 269,143	\$ 98,061,937	\$ 73,547,981	75.0%	\$ 24,513,956

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 12, 10	\$ 1,178,619	\$ 582,751	\$ 3,813,932	\$ 42,325	\$ 5,617,627	\$ 4,201,165	74.8%	\$ 1,416,462
Linked Divisions 13, 01	2,808,203	354,279	4,185,401	14,547	7,362,430	5,351,135	72.7%	2,011,295
Linked Divisions 21, 02, 20	10,369,124	2,277,042	28,225,702	180,953	41,052,821	25,597,593	62.4%	15,455,228
Linked Divisions 50, 05	12,578,212	960,281	29,023,211	31,318	42,593,022	20,928,489	49.1%	21,664,533

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	\$ 45,576,292	\$ 27,192,819	60%	\$ 18,383,473
2011	48,645,859	28,635,470	59%	20,010,389
2012	50,274,592	29,899,316	60%	20,375,276
2013	53,345,909	31,755,375	60%	21,590,534
2014	56,783,968	33,589,515	59%	23,194,453
2015	61,743,003	34,930,549	57%	26,812,454
2016	64,160,503	37,221,865	58%	26,938,638
2017	65,850,156	40,461,002	61%	25,389,154
2018	68,549,666	43,010,072	63%	25,539,594
2019	74,014,966	46,002,599	62%	28,012,367
2020	79,103,874	50,849,504	64%	28,254,370
2021	84,252,364	60,838,360	72%	23,414,004
2022	87,580,156	64,528,517	74%	23,051,639
2023	93,588,566	69,492,356	74%	24,096,210
2024	98,061,937	73,547,981	75%	24,513,956

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 - DPW

Table 8-01: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 4,594,329	\$ 4,144,956	90%	\$ 449,373
2015	5,065,997	4,235,234	84%	830,763
2016	5,135,243	4,351,046	85%	784,197
2017	5,244,386	4,462,325	85%	782,061
2018	5,384,787	4,459,467	83%	925,320
2019	5,810,793	4,457,476	77%	1,353,317
2020	6,073,139	4,545,318	75%	1,527,821
2021	6,372,288	5,093,267	80%	1,279,021
2022	6,552,299	5,053,354	77%	1,498,945
2023	6,874,087	5,071,755	74%	1,802,332
2024	7,009,074	5,064,123	72%	1,944,951

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	20	\$ 929,958	12.08%	2.30%
2015	20	901,017	15.07%	2.30%
2016	19	833,791	15.08%	2.30%
2017	18	851,342	\$ 9,180	5.00%
2018	18	840,383	\$ 10,172	5.00%
2019	15	717,406	\$ 13,093	5.00%
2020	14	741,003	\$ 14,140	5.00%
2021	13	689,495	\$ 12,418	5.00%
2022	12	693,513	\$ 14,491	5.00%
2023	12	756,731	\$ 17,461	5.00%
2024	12	758,036	\$ 18,747	5.00%

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

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

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

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

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



Division 02 - Police Patrol

Table 8-02: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 11,449,292	\$ 8,871,931	78%	\$ 2,577,361
2015	12,319,976	9,279,287	75%	3,040,689
2016	12,838,642	10,013,827	78%	2,824,815
2017	13,859,271	10,769,157	78%	3,090,114
2018	14,165,177	10,641,630	75%	3,523,547
2019	14,919,602	10,840,396	73%	4,079,206
2020	15,993,574	11,608,591	73%	4,384,983
2021	16,451,486	12,945,624	79%	3,505,862
2022	17,006,962	13,110,504	77%	3,896,458
2023	17,703,765	13,302,225	75%	4,401,540
2024	18,337,663	13,330,428	73%	5,007,235

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	25	\$ 1,587,254	20.72%	8.29%
2015	27	1,649,619	22.66%	8.29%
2016	27	1,699,331	21.59%	8.29%
2017	28	1,777,631	22.53%	8.29%
2018	29	1,734,688	25.07%	8.29%
2019	29	1,692,903	28.95%	8.29%
2020	23	1,487,021	\$ 44,380	8.29%
2021	19	1,279,034	\$ 38,150	8.29%
2022	16	1,248,417	\$ 42,197	8.29%
2023	12	1,023,186	\$ 44,593	8.29%
2024	10	952,892	\$ 49,782	8.29%

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 05 - Firefighters

Table 8-05: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 24,841,557	\$ 11,507,153	46%	\$ 13,334,404
2015	26,584,583	11,924,919	45%	14,659,664
2016	27,867,803	12,930,519	46%	14,937,284
2017	28,177,223	13,516,293	48%	14,660,930
2018	28,979,635	13,874,155	48%	15,105,480
2019	31,435,292	14,460,949	46%	16,974,343
2020	33,615,834	15,569,380	46%	18,046,454
2021	35,787,828	18,249,867	51%	17,537,961
2022	37,271,251	18,883,927	51%	18,387,324
2023	40,443,685	19,778,627	49%	20,665,058
2024	42,052,000	20,445,468	49%	21,606,532

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 9-05: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	32	\$ 2,061,494	49.38%	7.76%
2015	32	2,037,634	55.69%	7.76%
2016	32	2,086,805	56.20%	7.76%
2017	32	2,033,490	\$ 101,798	7.76%
2018	31	2,019,738	\$ 107,672	7.76%
2019	30	2,128,554	\$ 125,690	7.76%
2020	26	1,972,595	\$ 136,133	7.76%
2021	25	1,868,267	\$ 133,710	7.76%
2022	21	1,657,497	\$ 143,951	7.76%
2023	19	1,749,200	\$ 167,783	7.76%
2024	19	1,884,354	\$ 180,225	7.76%

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

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

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

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

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



Division 10 - Admin Professional

Table 8-10: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 3,943,903	\$ 2,895,820	73%	\$ 1,048,083
2015	4,328,690	3,022,706	70%	1,305,984
2016	4,429,119	3,185,399	72%	1,243,720
2017	4,353,843	3,534,108	81%	819,735
2018	4,447,557	3,564,955	80%	882,602
2019	4,655,786	3,604,626	77%	1,051,160
2020	4,955,243	3,755,909	76%	1,199,334
2021	5,211,031	4,228,564	81%	982,467
2022	5,295,910	4,169,962	79%	1,125,948
2023	5,562,571	4,110,966	74%	1,451,605
2024	5,406,408	3,987,942	74%	1,418,466

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

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

Table 9-10: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	17	\$ 699,196	17.51%	3.90%
2015	19	756,724	19.68%	3.90%
2016	19	783,370	18.67%	3.90%
2017	17	673,625	\$ 7,925	5.00%
2018	15	617,920	\$ 8,416	5.00%
2019	13	556,959	\$ 9,370	5.00%
2020	10	477,667	\$ 9,893	5.00%
2021	8	360,191	\$ 8,071	5.00%
2022	8	392,258	\$ 9,728	5.00%
2023	6	318,004	\$ 12,220	5.00%
2024	6	338,407	\$ 12,300	5.00%

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

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

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

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

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



Division 11 - Teamsters

Table 8-11: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 1,605,233	\$ 442,491	28%	\$ 1,162,742
2015	1,737,395	355,421	21%	1,381,974
2016	1,724,994	270,628	16%	1,454,366
2017	1,549,888	1,381,962	89%	167,926
2018	1,488,750	1,396,438	94%	92,312
2019	1,553,728	1,327,599	85%	226,129
2020	1,550,922	1,270,219	82%	280,703
2021	1,554,399	1,332,540	86%	221,859
2022	1,516,540	1,219,604	80%	296,936
2023	1,484,951	1,114,836	75%	370,115
2024	1,436,037	1,008,691	70%	427,346

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	2	\$ 136,484	58.89%	2.00%
2015	1	66,496	352.21%	2.00%
2016	1	74,010	121.95%	2.00%
2017	1	78,313	13.62%	5.00%
2018	1	81,544	14.04%	5.00%
2019	0	0	\$ 1,516	5.00%
2020	0	0	\$ 1,882	5.00%
2021	0	0	\$ 1,446	5.00%
2022	0	0	\$ 2,116	5.00%
2023	0	0	\$ 2,723	5.00%
2024	0	0	\$ 3,284	5.00%

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

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

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

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

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

Division 12 - Admin Prof on/aft 1/1/17

Table 8-12: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 0	\$ 0	0%	\$ 0
2015	0	0	0%	0
2016	0	0	0%	0
2017	222	3,915	1764%	(3,693)
2018	12,734	18,490	145%	(5,756)
2019	31,654	38,054	120%	(6,400)
2020	51,880	58,563	113%	(6,683)
2021	65,990	82,666	125%	(16,676)
2022	101,766	117,431	115%	(15,665)
2023	142,330	160,209	113%	(17,879)
2024	211,219	213,223	101%	(2,004)

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

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

Table 9-12: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	0	\$ 0	\$ 0	0.00%
2015	0	0	\$ 0	0.00%
2016	0	0	\$ 0	0.00%
2017	2	77,819	5.59%	5.00%
2018	4	147,733	4.15%	5.00%
2019	4	141,313	2.43%	5.00%
2020	5	223,836	3.88%	5.00%
2021	7	275,297	2.99%	5.00%
2022	8	334,157	3.29%	5.00%
2023	9	416,538	3.35%	5.00%
2024	9	501,318	3.85%	5.00%

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

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

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

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

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

Division 13 - DPW on/aft 01/1/17

Table 8-13: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 0	\$ 0	0%	\$ 0
2015	0	0	0%	0
2016	0	0	0%	0
2017	5,967	5,217	87%	750
2018	20,539	17,555	85%	2,984
2019	40,155	34,950	87%	5,205
2020	74,930	65,589	88%	9,341
2021	114,912	108,096	94%	6,816
2022	180,876	155,889	86%	24,987
2023	265,608	217,593	82%	48,015
2024	353,356	287,012	81%	66,344

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	0	\$ 0	\$ 0	0.00%
2015	0	0	\$ 0	0.00%
2016	0	0	\$ 0	0.00%
2017	3	83,530	2.87%	5.00%
2018	4	152,299	2.97%	5.00%
2019	7	247,142	3.19%	5.00%
2020	8	362,277	3.50%	5.00%
2021	8	362,436	4.05%	5.00%
2022	9	447,245	4.52%	5.00%
2023	10	570,808	4.68%	5.00%
2024	10	589,925	4.79%	5.00%

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

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

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

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

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

Division 20 - Plc Comm & Chief aft 9/23

Table 8-20: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 10,349,654	\$ 5,727,164	55%	\$ 4,622,490
2015	11,706,362	6,112,982	52%	5,593,380
2016	12,164,702	6,470,446	53%	5,694,256
2017	12,659,356	6,788,025	54%	5,871,331
2018	14,043,572	7,460,719	53%	6,582,853
2019	15,548,130	7,938,996	51%	7,609,134
2020	16,737,169	8,423,476	50%	8,313,693
2021	18,575,128	10,310,586	56%	8,264,542
2022	19,390,271	10,770,722	56%	8,619,549
2023	20,626,670	11,459,491	56%	9,167,179
2024	22,316,211	11,940,502	54%	10,375,709

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	\$ 685,804	49.49%	11.24%
2015	9	710,674	58.51%	11.24%
2016	9	720,662	59.49%	11.24%
2017	9	748,325	60.62%	11.24%
2018	10	822,149	63.21%	11.24%
2019	10	811,353	77.29%	11.24%
2020	10	867,021	\$ 61,220	11.24%
2021	10	854,662	\$ 62,229	11.24%
2022	10	907,833	\$ 67,535	11.24%
2023	10	980,664	\$ 74,894	11.24%
2024	10	1,122,212	\$ 88,068	11.24%

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 21 - Command/Patrol on/aft 1/1/20

Table 8-21: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 0	\$ 0	0%	\$ 0
2015	0	0	0%	0
2016	0	0	0%	0
2017	0	0	0%	0
2018	0	0	0%	0
2019	0	0	0%	0
2020	2,727	2,537	93%	190
2021	25,230	27,309	108%	(2,079)
2022	67,325	66,155	98%	1,170
2023	146,543	141,937	97%	4,606
2024	398,947	326,663	82%	72,284

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 9-21: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	0	\$ 0	\$ 0	0.00%
2015	0	0	\$ 0	0.00%
2016	0	0	\$ 0	0.00%
2017	0	0	\$ 0	0.00%
2018	0	0	\$ 0	0.00%
2019	0	0	\$ 0	0.00%
2020	3	102,595	1.35%	8.29%
2021	6	262,449	1.89%	8.29%
2022	12	470,805	2.32%	8.29%
2023	10	562,157	2.64%	8.29%
2024	19	1,194,430	2.94%	8.29%

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 50 - Fire on/aft 1/1/17

Table 8-50: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 0	\$ 0	0%	\$ 0
2015	0	0	0%	0
2016	0	0	0%	0
2017	0	0	0%	0
2018	6,915	7,943	115%	(1,028)
2019	19,826	19,985	101%	(159)
2020	48,456	44,146	91%	4,310
2021	94,072	88,651	94%	5,421
2022	196,956	175,713	89%	21,243
2023	338,356	314,322	93%	24,034
2024	541,022	483,021	89%	58,001

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 9-50: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2014	0	\$ 0	\$ 0	0.00%
2015	0	0	\$ 0	0.00%
2016	0	0	\$ 0	0.00%
2017	0	0	\$ 0	0.00%
2018	2	57,481	1.63%	7.76%
2019	4	149,751	2.18%	7.76%
2020	6	291,070	3.24%	7.76%
2021	9	418,360	3.90%	7.76%
2022	14	716,198	3.79%	7.76%
2023	17	987,768	3.71%	7.76%
2024	19	1,285,459	3.72%	7.76%

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

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

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

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

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



Division S1 - Surplus Assoc Fire

Table 8-S1: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 0	\$ 0		\$ 0
2015	0	0		0
2016	0	0		0
2017	0	0		0
2018	0	784,360		(784,360)
2019	0	1,639,784		(1,639,784)
2020	0	2,752,888		(2,752,888)
2021	0	4,185,595		(4,185,595)
2022	0	5,402,628		(5,402,628)
2023	0	6,531,965		(6,531,965)
2024	0	7,601,766		(7,601,766)

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

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

Division S2 - Surplus Assoc Police

Table 8-S2: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 0	\$ 0		\$ 0
2015	0	0		0
2016	0	0		0
2017	0	0		0
2018	0	784,360		(784,360)
2019	0	1,639,784		(1,639,784)
2020	0	2,752,888		(2,752,888)
2021	0	4,185,595		(4,185,595)
2022	0	5,402,628		(5,402,628)
2023	0	6,531,965		(6,531,965)
2024	0	7,601,766		(7,601,766)

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

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

Division S3 - Surplus Unassociated

Table 8-S3: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2014	\$ 0	\$ 0		\$ 0
2015	0	0		0
2016	0	0		0
2017	0	0		0
2018	0	0		0
2019	0	0		0
2020	0	0		0
2021	0	0		0
2022	0	0		0
2023	0	756,465		(756,465)
2024	0	1,257,376		(1,257,376)

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

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

Table 10: Division-Based Layered Amortization Schedule

Division 01 - DPW

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	\$ 830,763	23	\$ 826,058	14	\$ 76,932
(Gain)/Loss	12/31/2016	(82,526)	22	(84,025)	14	(7,824)
(Gain)/Loss	12/31/2017	5,781	21	5,828	14	540
Amendment	12/31/2017	(9,047)	21	(9,161)	14	(852)
(Gain)/Loss	12/31/2018	138,266	20	139,200	14	12,960
(Gain)/Loss	12/31/2019	222,251	19	222,458	14	20,724
Assumption	12/31/2019	192,311	19	188,261	14	17,532
Experience	12/31/2020	145,727	18	146,807	14	13,668
Experience	12/31/2021	(255,436)	17	(258,890)	14	(24,108)
Experience	12/31/2022	256,898	16	264,052	14	24,588
Experience	12/31/2023	301,723	15	315,489	14	29,388
Experience	12/31/2024	149,119	15	159,453	15	14,100
Total				\$ 1,915,530		\$ 177,648

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 - Police Patrol

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	\$ 3,040,689	23	\$ 2,959,095	14	\$ 275,592
(Gain)/Loss	12/31/2016	(280,062)	22	(285,143)	14	(26,556)
(Gain)/Loss	12/31/2017	260,150	21	263,102	14	24,504
(Gain)/Loss	12/31/2018	394,380	20	397,026	14	36,972
(Gain)/Loss	12/31/2019	(70,906)	19	(70,966)	14	(6,612)
Assumption	12/31/2019	581,584	19	569,525	14	53,040
Experience	12/31/2020	274,390	18	276,417	14	25,740
Experience	12/31/2021	(886,657)	17	(898,677)	14	(83,700)
Experience	12/31/2022	507,346	16	521,478	14	48,564
Experience	12/31/2023	514,268	15	537,726	14	50,076
Experience	12/31/2024	641,014	15	685,436	15	60,600
Total				\$ 4,955,019		\$ 458,220

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

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

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

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

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

Division 05 - Firefighters

Table 10-05: 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	\$ 14,659,664	23	\$ 14,241,073	14	\$ 1,326,336
(Gain)/Loss	12/31/2016	(5,596)	22	(5,696)	14	(528)
(Gain)/Loss	12/31/2017	(236,519)	21	(239,191)	14	(22,272)
Amendment	12/31/2017	(168,365)	21	(170,262)	14	(15,852)
(Gain)/Loss	12/31/2018	375,305	20	377,841	14	35,196
(Gain)/Loss	12/31/2019	654,589	19	655,179	14	61,020
Assumption	12/31/2019	1,120,922	19	1,064,805	14	99,168
Experience	12/31/2020	968,055	18	975,198	14	90,828
Experience	12/31/2021	(526,655)	17	(533,795)	14	(49,716)
Experience	12/31/2022	1,111,138	16	1,142,082	14	106,368
Experience	12/31/2023	2,428,709	15	2,539,504	14	236,520
Experience	12/31/2024	1,106,071	15	1,182,722	15	104,580
Total				\$ 21,229,460		\$ 1,971,648

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

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

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

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

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

Division 10 - Admin Professional

Table 10-10: 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	\$ 1,305,984	23	\$ 1,273,430	14	\$ 118,596
(Gain)/Loss	12/31/2016	(92,486)	22	(94,149)	14	(8,772)
(Gain)/Loss	12/31/2017	(403,688)	21	(408,262)	14	(38,028)
Amendment	12/31/2017	(24,631)	21	(24,908)	14	(2,316)
(Gain)/Loss	12/31/2018	87,723	20	88,316	14	8,220
(Gain)/Loss	12/31/2019	16,887	19	16,894	14	1,572
Assumption	12/31/2019	141,332	19	138,196	14	12,876
Experience	12/31/2020	138,093	18	139,117	14	12,960
Experience	12/31/2021	(223,987)	17	(227,017)	14	(21,144)
Experience	12/31/2022	174,188	16	179,034	14	16,680
Experience	12/31/2023	325,979	15	340,853	14	31,740
Experience	12/31/2024	(35,174)	15	(37,612)	15	(3,324)
Total				\$ 1,383,892		\$ 129,060

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 - Teamsters

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	\$ 1,381,974	23	\$ 1,237,969	14	\$ 115,296
(Gain)/Loss	12/31/2016	982	22	997	14	96
(Gain)/Loss	12/31/2017	(1,143,013)	21	(1,155,969)	14	(107,664)
Amendment	12/31/2017	(907)	21	(897)	14	(84)
(Gain)/Loss	12/31/2018	4,855	20	4,867	14	456
(Gain)/Loss	12/31/2019	89,079	19	89,153	14	8,304
Assumption	12/31/2019	44,293	19	43,658	14	4,068
Experience	12/31/2020	44,969	18	45,300	14	4,224
Experience	12/31/2021	(61,510)	17	(62,340)	14	(5,808)
Experience	12/31/2022	82,910	16	85,224	14	7,932
Experience	12/31/2023	70,159	15	73,357	14	6,828
Experience	12/31/2024	57,844	14	61,853	14	5,760
Total				\$ 423,172		\$ 39,408

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

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

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

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

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

Division 12 - Admin Prof on/aft 1/1/17

Table 10-12: 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	\$ (3,693)	15	\$ (2,986)	8	\$ (444)
(Gain)/Loss	12/31/2018	(1,776)	15	(1,536)	9	(204)
(Gain)/Loss	12/31/2019	(1,355)	15	(1,227)	10	(144)
Assumption	12/31/2019	778	15	717	10	84
Experience	12/31/2020	(372)	15	(358)	11	(36)
Experience	12/31/2021	(10,116)	15	(9,958)	12	(1,044)
Experience	12/31/2022	1,482	15	1,506	13	144
Experience	12/31/2023	(2,821)	15	(2,953)	14	(276)
Experience	12/31/2024	15,501	15	16,575	15	1,464
Total				\$ (220)		\$ (456)

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 10-13: 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
(Gain)/Loss	12/31/2017	\$ 750	15	\$ 604	8	\$ 84
(Gain)/Loss	12/31/2018	2,176	15	1,898	9	252
(Gain)/Loss	12/31/2019	1,609	15	1,452	10	180
Assumption	12/31/2019	461	15	387	10	48
Experience	12/31/2020	4,040	15	3,842	11	432
Experience	12/31/2021	(2,718)	15	(2,670)	12	(276)
Experience	12/31/2022	18,650	15	18,992	13	1,872
Experience	12/31/2023	21,948	15	22,948	14	2,136
Experience	12/31/2024	17,545	15	18,761	15	1,656
Total				\$ 66,214		\$ 6,384

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 20 - Plc Comm & Chief aft 9/23

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	\$ 5,593,380	23	\$ 5,448,273	14	\$ 507,420
(Gain)/Loss	12/31/2016	(22,439)	22	(22,853)	14	(2,124)
(Gain)/Loss	12/31/2017	129,426	21	130,904	14	12,192
(Gain)/Loss	12/31/2018	663,143	20	667,633	14	62,184
(Gain)/Loss	12/31/2019	374,994	19	375,326	14	34,956
Assumption	12/31/2019	574,489	19	549,650	14	51,192
Experience	12/31/2020	646,378	18	651,145	14	60,648
Experience	12/31/2021	(73,580)	17	(74,578)	14	(6,948)
Experience	12/31/2022	463,987	16	476,909	14	44,412
Experience	12/31/2023	623,170	15	651,596	14	60,684
Experience	12/31/2024	1,321,306	15	1,412,873	15	124,920
Total				\$ 10,266,878		\$ 949,536

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 21 - Command/Patrol on/aft 1/1/20

Table 10-21: 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	\$ 1,170	15	\$ 1,189	13	\$ 120
Experience	12/31/2023	3,354	15	3,512	14	324
Experience	12/31/2024	67,470	15	72,146	15	6,384
Total				\$ 76,847		\$ 6,828

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 50 - Fire on/aft 1/1/17

Table 10-50: 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	12/31/2020	\$ 4,310	15	\$ 4,114	11	\$ 468
Experience	12/31/2021	779	15	770	12	84
Experience	12/31/2022	15,877	15	16,163	13	1,596
Experience	12/31/2023	1,799	15	1,884	14	180
Experience	12/31/2024	34,386	15	36,769	15	3,252
Total				\$ 59,700		\$ 5,580

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:		128
Inactive employees entitled to but not yet receiving benefits (including refunds):		92
Active employees:		<u>114</u>
		334
Total Pension Liability as of 12/31/2023 measurement date:	\$	90,794,269
Total Pension Liability as of 12/31/2024 measurement date:	\$	95,156,639
Service Cost for the year ending on the 12/31/2024 measurement date:	\$	1,270,066
Change in the Total Pension Liability due to:		
- Benefit changes ¹ :	\$	0
- Differences between expected and actual experience ² :	\$	1,710,588
- Changes in assumptions ² :	\$	11,124
Average expected remaining service lives of all employees (active and inactive):		4

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):	\$	8,627,033
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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:	\$ 12,282,988	\$ 0	\$ (10,121,623)

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:		128
Inactive employees entitled to but not yet receiving benefits (including refunds):		92
Active employees:		<u>114</u>
		334
Total Pension Liability as of 12/31/2024 measurement date:	\$	92,990,278
Total Pension Liability as of 12/31/2025 measurement date:	\$	97,550,823
Service Cost for the year ending on the 12/31/2025 measurement date:	\$	1,296,345
Change in the Total Pension Liability due to:		
- Benefit changes ¹ :	\$	0
- Differences between expected and actual experience ² :	\$	2,309,983
- Changes in assumptions ² :	\$	(19,390)
Average expected remaining service lives of all employees (active and inactive):		4

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

²Changes 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):	\$	8,627,033
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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 <u>(6.18%)</u>	Current Discount Rate <u>(7.18%)</u>	1% Increase <u>(8.18%)</u>
Change in Net Pension Liability as of 12/31/2025:	\$ 12,471,202	\$ 0	\$ (10,285,227)

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 - DPW

1/1/2021	Custom Wages
1/1/2021	Other Leave - Service Granted
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Workers Compensation - Service Granted
1/1/2017	Day of Work defined as 10 8 hour days
1/1/2017	Participant Contribution Rate 5%
1/1/2017	Non Standard Compensation Definition
12/1/2016	Service Credit Purchase Estimates - Yes
7/1/2005	2.25% Multiplier (Capped at 80% of FAC)
7/1/2005	Member Contribution Rate 2.30%
7/10/2001	Covered by Act 88
7/1/1997	2.00% Multiplier
7/1/1997	Benefit F55 (With 20 Years of Service)
7/1/1995	1.50% Multiplier
7/1/1995	6 Year Vesting
7/1/1995	Benefit FAC-5 (5 Year Final Average Compensation)
7/1/1995	Fiscal Month - January
7/1/1995	Member Contribution Rate 0.00%
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

02 - Police Patrol

1/1/2021	Custom Wages
1/1/2021	Other Leave - Service Granted
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Workers Compensation - Service Granted
1/1/2019	Day of work defined as 80 Hours a Month for All employees.
12/1/2016	Service Credit Purchase Estimates - Yes
1/1/2007	Member Contribution Rate 8.29%
12/1/2005	2.75% Multiplier (Capped at 80% of FAC)
12/1/2005	Benefit D2 Plan
12/1/2005	Benefit FAC-3 (3 Year Final Average Compensation)
12/1/2005	Member Contribution Rate 8.79%
1/1/2002	Member Contribution Rate 4.50%
7/10/2001	Covered by Act 88
1/1/2000	2.50% Multiplier (Capped at 80% of FAC)
1/1/2000	E2 2.5% COLA for future retirees (01/01/2000)
1/1/2000	Member Contribution Rate 6.50%
1/1/1999	Member Contribution Rate 2.50%
7/1/1996	10 Year Vesting



02 - Police Patrol

7/1/1996	2.25% Multiplier (Capped at 80% of FAC)
7/1/1996	Benefit F50 (With 25 Years of Service)
7/1/1996	Benefit FAC-5 (5 Year Final Average Compensation)
7/1/1996	Member Contribution Rate 3.50%
7/1/1995	Fiscal Month - January
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

05 - Firefighters

1/1/2021	Custom Wages
1/1/2021	Other Leave - Service Granted
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 100 hours
1/1/2021	Workers Compensation - Service Granted
1/1/2017	2.50% Multiplier (Capped at 80% of FAC)
1/1/2017	Day of work defined as 100.8 hours in a month
1/1/2017	Non Standard Compensation Definition
12/31/2016	Current FAC
12/1/2016	Service Credit Purchase Estimates - Yes
1/1/2005	Member Contribution Rate 7.76%
1/1/2004	2.75% Multiplier (Capped at 80% of FAC)
1/1/2004	Member Contribution Rate 8.07%
7/10/2001	Covered by Act 88
7/1/1999	10 Year Vesting
7/1/1999	2.50% Multiplier (Capped at 80% of FAC)
7/1/1999	Benefit D2 Plan
7/1/1999	Benefit F50 (With 25 Years of Service)
7/1/1999	Benefit FAC-3 (3 Year Final Average Compensation)
7/1/1999	E2 2.5% COLA for future retirees (07/01/1999)
7/1/1999	Member Contribution Rate 4.19%
7/1/1995	Fiscal Month - January
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

10 - Admin Professional

1/1/2021	Custom Wages
1/1/2021	Other Leave - Service Granted
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Workers Compensation - Service Granted
4/1/2017	Participant Contribution Rate 5%
1/1/2017	2.25% Multiplier (Capped at 80% of FAC)
1/1/2017	Day of Work defined as 10 8 hour days
1/1/2017	Non Standard Compensation Definition
12/31/2016	Current FAC
12/1/2016	Service Credit Purchase Estimates - Yes
1/1/2007	2.50% Multiplier (Capped at 80% of FAC)
1/1/2007	Member Contribution Rate 3.90%
1/1/2004	2.25% Multiplier (Capped at 80% of FAC)
1/1/2004	Member Contribution Rate 1.50%



10 - Admin Professional

7/10/2001	Covered by Act 88
7/1/2000	2.00% Multiplier
7/1/2000	Member Contribution Rate 0.60%
1/1/1998	1.50% Multiplier
1/1/1998	10 Year Vesting
1/1/1998	Benefit F55 (With 25 Years of Service)
1/1/1998	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1998	Member Contribution Rate 0.00%
7/1/1995	Fiscal Month - January
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

11 - Teamsters

1/1/2021	Custom Wages
1/1/2021	Other Leave - Service Granted
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Workers Compensation - Service Granted
1/1/2018	Participant Contribution Rate 5%
12/1/2016	Service Credit Purchase Estimates - Yes
1/1/2004	6 Year Vesting
1/1/2002	Member Contribution Rate 2.00%
7/10/2001	Covered by Act 88
7/1/2000	10 Year Vesting
7/1/2000	2.00% Multiplier
7/1/2000	Benefit F55 (With 20 Years of Service)
7/1/2000	Benefit FAC-5 (5 Year Final Average Compensation)
7/1/2000	Member Contribution Rate 0.00%
7/1/1995	Fiscal Month - January
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

12 - Admin Prof on/aft 1/1/17

1/1/2021	Custom Wages
1/1/2021	Other Leave - Service Granted
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Workers Compensation - Service Granted
1/1/2017	1.50% Multiplier
1/1/2017	10 Year Vesting
1/1/2017	Benefit F55 (With 25 Years of Service)
1/1/2017	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/2017	Day of Work defined as 10 8 hour days
1/1/2017	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
1/1/2017	Normal Retirement Age (DB) - 60
1/1/2017	Participant Contribution Rate 5%
1/1/2017	Service Credit Purchase Estimates - Yes
1/1/2017	Non Standard Compensation Definition
7/10/2001	Covered by Act 88
7/1/1995	Fiscal Month - January



13 - DPW on/aft 01/1/17

1/1/2021	Custom Wages
1/1/2021	Other Leave - Service Granted
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Workers Compensation - Service Granted
1/1/2017	1.50% Multiplier (Capped at 80% of FAC)
1/1/2017	6 Year Vesting
1/1/2017	Benefit F55 (With 20 Years of Service)
1/1/2017	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/2017	Day of Work defined as 10 8 hour days
1/1/2017	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
1/1/2017	Normal Retirement Age (DB) - 60
1/1/2017	Participant Contribution Rate 5%
1/1/2017	Service Credit Purchase Estimates - Yes
1/1/2017	Non Standard Compensation Definition
7/10/2001	Covered by Act 88
7/1/1995	Fiscal Month - January

20 - Plc Comm & Chief aft 9/23

1/1/2021	Custom Wages
1/1/2021	Other Leave - Service Granted
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Workers Compensation - Service Granted
1/1/2020	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
1/1/2019	Day of work defined as 80 Hours a Month for All employees.
7/1/2018	Non Standard Compensation Definition
12/1/2016	Service Credit Purchase Estimates - Yes
8/1/2005	2.75% Multiplier (Capped at 80% of FAC)
8/1/2005	Member Contribution Rate 11.24%
1/1/2005	Member Contribution Rate 5.50%
1/1/2003	Member Contribution Rate 8.00%
1/1/2002	E2 2.5% COLA for future retirees (07/01/2001)
1/1/2002	Member Contribution Rate 7.00%
7/10/2001	Covered by Act 88
7/1/2001	2.50% Multiplier (Capped at 80% of FAC)
7/1/2001	Benefit D2 Plan
7/1/2001	Benefit F50 (With 25 Years of Service)
7/1/2001	Member Contribution Rate 6.00%
1/1/2001	Member Contribution Rate 4.50%
1/1/1998	10 Year Vesting
1/1/1998	2.25% Multiplier (Capped at 80% of FAC)
1/1/1998	Benefit F55 (With 15 Years of Service)
1/1/1998	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/1998	Eligible at Age 52 (With 25 Years of Service)
1/1/1998	Member Contribution Rate 5.50%
7/1/1995	Fiscal Month - January
	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
	Normal Retirement Age (DB) - 60

21 - Command/Patrol on/aft 1/1/20

1/1/2021	Custom Wages
1/1/2021	Other Leave - Service Granted
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 80 hours
1/1/2021	Workers Compensation - Service Granted
1/1/2020	1.75% Multiplier
1/1/2020	10 Year Vesting
1/1/2020	Benefit D2 Plan
1/1/2020	Benefit F55 (With 25 Years of Service)
1/1/2020	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/2020	Day of work defined as 80 Hours a Month for All employees.
1/1/2020	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
1/1/2020	Normal Retirement Age (DB) - 60
1/1/2020	Participant Contribution Rate 8.29%
1/1/2020	Service Credit Purchase Estimates - Yes
1/1/2020	Non Standard Compensation Definition
7/10/2001	Covered by Act 88
7/1/1995	Fiscal Month - January

50 - Fire on/aft 1/1/17

1/1/2021	Custom Wages
1/1/2021	Other Leave - Service Granted
1/1/2021	Public Safety Employees - Yes
1/1/2021	Service Credit Qualification - 100 hours
1/1/2021	Workers Compensation - Service Granted
1/1/2017	1.75% Multiplier
1/1/2017	10 Year Vesting
1/1/2017	Benefit D2 Plan
1/1/2017	Benefit F55 (With 25 Years of Service)
1/1/2017	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/2017	Day of work defined as 100.8 hours in a month
1/1/2017	Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years
1/1/2017	Normal Retirement Age (DB) - 60
1/1/2017	Participant Contribution Rate 7.76%
1/1/2017	Service Credit Purchase Estimates - Yes
1/1/2017	Non Standard Compensation Definition
7/10/2001	Covered by Act 88
7/1/1995	Fiscal Month - January

S1 - Surplus Assoc Fire

7/1/1995	Fiscal Month - January
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S2 - Surplus Assoc Police

7/1/1995	Fiscal Month - January
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S3 - Surplus Unassociated

7/1/1995	Fiscal Month - January
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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	1.50%

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	6.1	10.6	1.2	11.8	2.4%
2019	7.0	11.5	1.1	12.7	2.0%
2020	8.0	12.1	1.0	13.5	1.8%
2021	9.6	13.2	1.0	14.7	2.2%
2022	8.1	12.8	0.9	12.7	2.2%
2023	8.6	12.7	0.8	13.3	2.5%
2024	8.0	11.4	0.9	13.8	1.9%

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	114
12	Indicate number of inactive members (excluding pending refunds)	35
13	Indicate number of retirees and beneficiaries	128
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	\$71,359,906
25	Enter retirement pension system's actuarial accrued liabilities using uniform assumptions ⁵	\$98,061,937
27	Actuarially Determined Contribution (ADC) using uniform assumptions, Fiscal Year Ending December 31, 2025	\$4,634,124

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%.