



MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF MICHIGAN
ANNUAL ACTUARIAL VALUATION REPORT DECEMBER 31, 2016
FREMONT, CITY OF (6203)



Spring, 2017

Fremont, City of

In care of:

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

This report presents the results of the Annual Actuarial Valuation, prepared as of December 31, 2016. The report includes the determination of liabilities and contribution rates resulting from the participation of Fremont, City of (6203) in the Municipal Employees' Retirement System of Michigan ("MERS"). MERS is a nonprofit organization, independent from the State, that has provided retirement plans for municipal employees for 70 years. Fremont, City of is responsible for the employer contributions needed to provide MERS benefits for its employees and former employees under the Michigan Constitution and the MERS Plan Document.

The purpose of the December 31, 2016 annual actuarial valuation is to:

- Measure funding progress
- Establish contribution requirements for the fiscal year beginning July 1, 2018
- Provide actuarial information in connection with applicable Governmental Accounting Standards Board (GASB) statements

This valuation report should not be relied upon for any other purpose. Reliance on information contained in this report by anyone for anything other than the intended purpose could be misleading.

The valuation uses financial data, plan provision data, and participant data as of December 31, 2016 furnished by MERS. In accordance with Actuarial Standards of Practice No. 23, the data was checked for internal and year to year consistency as well as general reasonableness, but was not otherwise audited. CBIZ Retirement Plan Services does not assume responsibility for the accuracy or completeness of the data used in this valuation.

The actuarial assumptions and methods are adopted by the MERS Retirement Board, and are reviewed every five years in an Experience Study. The most recent study was completed in 2015. Please refer to the division-specific assumptions described in table(s) in this report, and to the Appendix on the MERS website at:

www.mersofmich.com/Portals/0/Assets/Resources/AAV-Appendix/MERS-2016AnnualActuarialValuation-Appendix.pdf.



The actuarial assumptions used for this valuation produce results that we believe are reasonable.

To the best of our knowledge, this report is complete and accurate, was prepared in conformity with generally recognized actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board, and is in compliance with Act No. 220 of the Public Acts of 1996, as amended, and the MERS Plan Document as revised. All of the undersigned are members of the American Academy of Actuaries (MAAA), and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. 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 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). CBIZ Retirement Plan Services is not responsible for the consequences of any unauthorized use.

You should notify MERS if you disagree with anything contained in the report or are aware of any information that would affect the results of the report that have not been communicated to us. 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,

Cathy Nagy, MAAA, FSA
Jim Koss, MAAA, ASA
Curtis Powell, MAAA, EA

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Executive Summary

Actuarial Assumptions and Methods Adopted with the December 31, 2015 Valuations

The actuarial assumptions and methods are adopted by the MERS Retirement Board, and are reviewed every five years in an Experience Study. The Experience Study is a comprehensive, detailed analysis that reviews MERS' funding policy and compares actual experience with the current actuarial assumptions; the study recommends adjustments as necessary. The most recent study was completed in 2015 and changes to the assumptions and methods based on the 2015 Experience Study were first reflected in the December 31, 2015 valuations. The impact of these changes is being phased-in over a 5 year period. The phase-in allows the employer to spread the impact of the new assumptions over 5 fiscal years. This report continues to provide contributions both with and without the phase-in adjustments.

The assumptions and methods are described in the [Appendix](#) on the MERS website.

As part of the recent Experience Study, the following changes are first reflected in the December 31, 2016 annual valuation:

- The asset smoothing was changed from 10 to 5 years. The gain (loss) recognized each year will be 20% of the current year's gain (loss) plus 20% of the gain (loss) from each of the 4 preceding years. The cumulative difference between the market value and valuation assets as of December 31, 2015 will be recognized over 4 years.
- Annual changes in Unfunded Accrued Liability (UAL) will be amortized over fixed periods, creating "layers" of UAL. This will require removing and creating "layers" of UAL on an annual basis.
 - o Once the amortization period drops below 15 years (10 years for closed divisions), any future liability and asset gains or losses will be spread over a 15-year fixed period for open divisions and a 10-year fixed period for closed divisions — creating "layers" of UAL on an annual basis.
 - o This transparent method allows tracking of what changed your UAL, and sets a fixed period in time in which that UAL change will be fully funded.

MERS created a dedicated resource page on their website for additional information on these topics (<http://www.mersofmich.com/Employer/Work-Scenarios/Unfunded-Liability>).

Funded Ratio and Required Employer Contributions

The MERS Defined Benefit Plan is an agent multiple-employer plan, meaning that assets are pooled for investment purposes but separate accounts are maintained for each individual employer. Each municipality is responsible for their own plan liabilities; MERS does not borrow from one municipality's account to pay for another.

The funded ratio of a plan is the percentage of the dollar value of the accrued benefits that is covered by the actuarial value of assets.

Your Funded Ratio:

	12/31/2016	12/31/2015
Funded Ratio	60%	53%

Michigan Law requires that pension plans be pre-funded, meaning money is set aside now to pay for future benefits. Pension plans are usually funded by employer and employee contributions, and investment income.

How quickly a plan attains the 100% funding goal depends on many factors such as:

- The current funded ratio
- The future experience of the plan
- The amortization period

It is more important to look at the trend in the funded ratio over a period of time than at a particular point in time.

Your Required Employer Contributions:

Your computed employer contributions are shown in the following table. Employee contributions, if any, are in addition to the computed employer contributions. Changes to the assumptions and methods based on the 2015 Experience Study were first reflected in the December 31, 2015 valuations. The impact of these changes is being phased-in over a 5 year period. The phase-in allows the employer to spread the impact of the new assumptions over 5 fiscal years. This valuation reflects the second year of the phase-in.

Your minimum required contribution is the amount in the “Phase-in” columns. By default, MERS will invoice you the phased-in contribution amount, but strongly encourages you to contribute more than the minimum required contribution. If for 2017 your municipality is making employer contributions based on rates without the phase-in applied, contact MERS to ensure this rate is used again for 2018 and not the defaulted phase-in rates.

	Percentage of Payroll				Monthly \$ Based on Projected Payroll			
	Phase-in	No Phase-in	Phase-in	No Phase-in	Phase-in	No Phase-in	Phase-in	No Phase-in
Valuation Date:	12/31/2016	12/31/2016	12/31/2015	12/31/2015	12/31/2016	12/31/2016	12/31/2015	12/31/2015
Fiscal Year Beginning:	July 1, 2018	July 1, 2018	July 1, 2017	July 1, 2017	July 1, 2018	July 1, 2018	July 1, 2017	July 1, 2017
Division								
01 - General	-	-	-	-	\$ 29,088	\$ 31,548	\$ 31,932	\$ 35,212
02 - Police/Fire	-	-	-	30.77%	9,544	10,213	10,173	11,161
03 - Gnrl 12/12 & Pol/Fi 7/	7.65%	7.65%	6.95%	6.95%	1,705	1,705	1,232	1,232
20 - Pol/Fi aft 7/16 elect	6.69%	6.69%			240	240		
Municipality Total					\$ 40,577	\$ 43,706	\$ 43,337	\$ 47,605

Employee contribution rates reflected in the valuations are shown below:

Valuation Date:	Employee Contribution Rate	
	12/31/2016	12/31/2015
Division		
01 - General	0.00%	0.00%
02 - Police/Fire	3.50%	0.00%
03 - Gnrl 12/12 & Pol/Fi 7/	0.00%	0.00%
20 - Pol/Fi aft 7/16 elect	7.00%	0.00%

The employer may contribute more than the minimum required contributions, as these additional contributions will earn investment income and may result in lower future contribution requirements. **MERS strongly encourages employers to contribute more than the minimum contribution shown above.**

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 entire employer would be \$ 67,356, instead of \$ 43,706.
- To accelerate to a 100% funding ratio in 20 years, estimated monthly employer contributions for the entire employer would be \$ 45,692, instead of \$ 43,706.

If you are interested in making additional contributions, please contact MERS and they can assist you with evaluating your options.

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](#))
- Experience of the plan (investment experience and demographic experience); this is the difference between actual experience of the plan and the actuarial assumptions. For example:
 - o Lower actual investment returns would result in higher required employer contributions, and vice-versa.
 - o Smaller than assumed pay increases would lower required employer contributions.
 - o Reductions in the number of active employees would lower required contribution dollars, but would usually increase the contribution rate expressed as a percentage of (the now lower) payroll.
 - o Retirements at earlier ages than assumed would usually increase required employer contributions.
 - o More non-vested terminations of employment than assumed would decrease required contributions.
 - o More disabilities or survivor (death) benefits than assumed would increase required contributions.
 - o Longer lifetimes after retirement than assumed would increase required employer contributions.

Actuarial valuations do not affect the ultimate cost of the plan; the benefit payments (current and future) determine the cost of the plan. Actuarial valuations only affect the timing of the contributions into the plan. Because assumptions are for the long term, plan experience will not match the actuarial assumptions in any given year (except by coincidence). Each annual actuarial valuation will adjust the required employer contributions up or down based on the prior year's actual experience.

Comments on Asset Smoothing

The actuarial value of assets, used to determine both your funded ratio and your required employer contribution, is based on a smoothed value of assets (10-year smoothing prior to 2016; 5-year smoothing beginning in 2016). A smoothing method reduces the volatility of the valuation results, which affects your required employer contribution and funded ratio. The smoothed actuarial rate of return for 2016 was 5.14%.

As of December 31, 2016 the actuarial value of assets is 108% of market value. This means that meeting the actuarial assumption in the next few years will require average annual market returns that exceed the 7.75% investment return assumption.

If the December 31, 2016 valuation results were based on market value on that date instead of smoothed funding value: i) the funded percent of your entire municipality would be 55% (instead of 60%); and ii) your total employer contribution requirement for the fiscal year starting July 1, 2018 would be \$ 566,532 (instead of \$ 524,472).

The asset smoothing method is a powerful tool for reducing the volatility of your required employer contributions. **However, if the current 8% difference between the smoothed value and the market value of assets is not made up, the result would be gradual increases in your employer contribution requirement over the next few years (to around the levels described above).**

Risk Characteristics of Defined Benefit Plans

It is important to understand that Defined Benefit retirement plans, the plan sponsor, and the plan participants are exposed to certain risks. While risks cannot be eliminated entirely, they can be managed through various strategies. Below are a few examples of risk (this is not an all-inclusive list):

- Economic - investment return, wage inflation, etc.
- Demographic - longevity, disability, retirement, etc.
- Plan Sponsor and Employees - contribution volatility, attract/retain employees, etc.

The MERS Retirement Board adopts certain assumptions and methods to manage the economic and demographic risks, and the contribution volatility risks. For example, the investment risk is the largest economic risk and is managed by having a balanced portfolio and a clearly defined investment strategy. Demographic risks are managed by preparing special studies called experience studies on a regular basis to determine if the assumptions used are reasonable compared to the experience. Risk may be managed through a plan design that provides benefits that are sustainable in the long run. An Experience Study is completed every five years to review the assumptions and methods. The next Experience Study will be completed in 2020.

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.

The analysis in this section is intended to review the potential volatility of the actuarial valuation results. 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.

Many assumptions are important in determining the required employer contributions. In the table below, we show the impact of varying one actuarial assumption: the future annual rate of investment return. Lower investment returns would result in higher required employer contributions, and vice-versa.

The relative impact of each investment return scenario 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, 2016 valuation, and are for the municipality in total, not by division. These results do not reflect a 5-year phase in of the impact of the new actuarial assumptions.

	Assumed Future Annual Smoothed Rate of Investment Return			
	Lower Future Annual Returns		Valuation Assumption	Higher Returns
	5.75%	6.75%	7.75%	8.75%
12/31/2016 Valuation Results				
Accrued Liability	\$ 16,245,063	\$ 14,405,253	\$ 12,864,166	\$ 11,564,426
Valuation Assets	\$ 7,671,654	\$ 7,671,654	\$ 7,671,654	\$ 7,671,654
Unfunded Accrued Liability	\$ 8,573,409	\$ 6,733,599	\$ 5,192,512	\$ 3,892,772
Funded Ratio	47%	53%	60%	66%
Monthly Normal Cost	\$ 25,226	\$ 18,839	\$ 14,067	\$ 10,487
Monthly Amortization Payment	\$ 42,502	\$ 36,244	\$ 29,639	\$ 23,440
Total Employer Contribution¹	\$ 67,728	\$ 55,083	\$ 43,706	\$ 33,927

¹ If assets exceed accrued liabilities for a division, the division's amortization payment is negative and is used 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

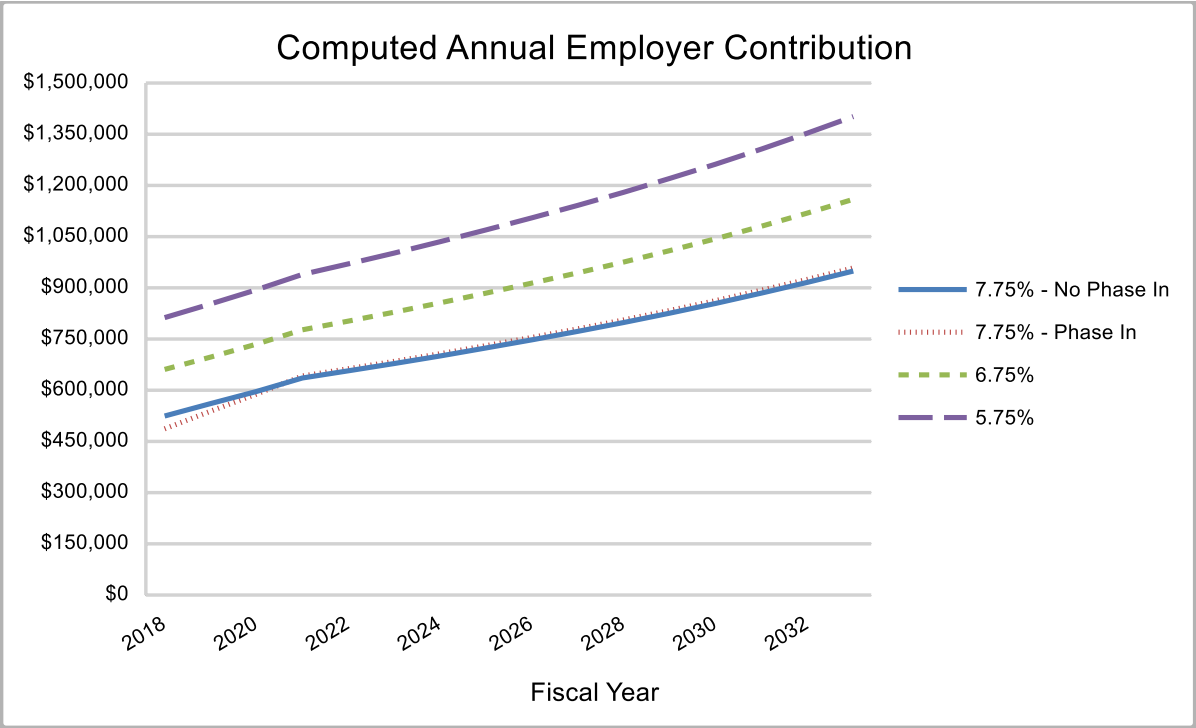
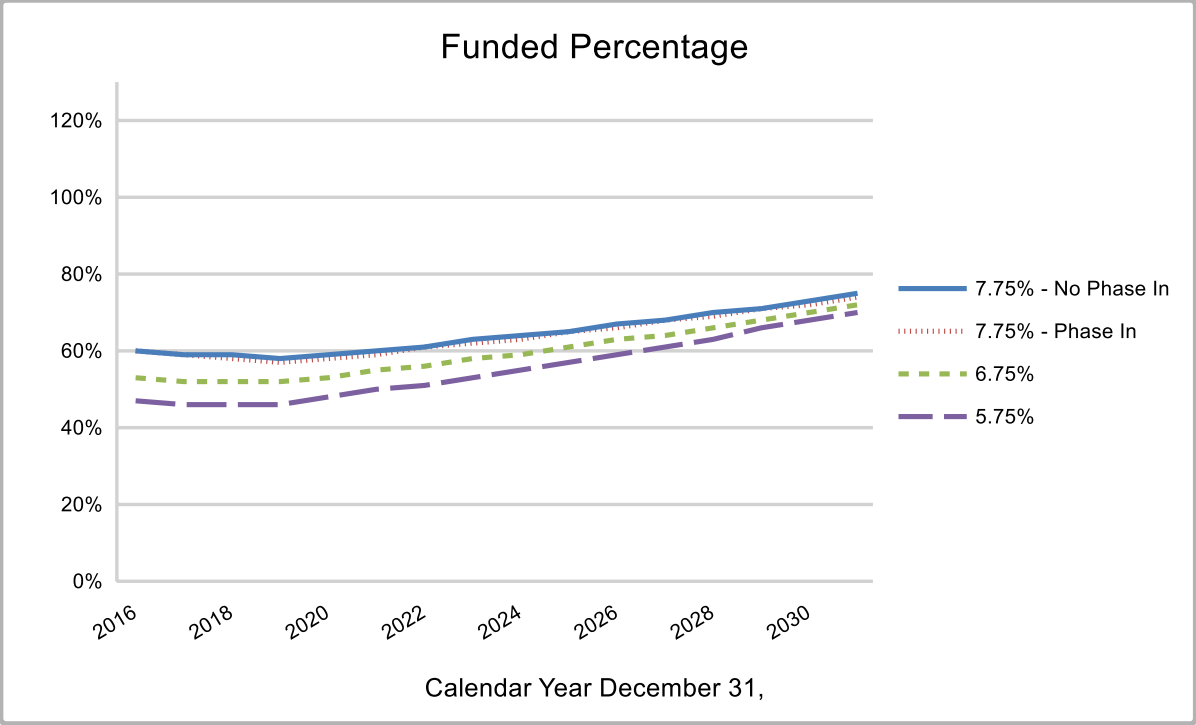
The next two pages show projections of the plan's funded ratio and computed employer contributions under the actuarial assumptions used in the valuation and alternate assumed long-term investment return scenarios. All four projections take into account the past investment losses that will continue to affect the smoothed rate of return in the short term. Under the 7.75% scenarios, two sets of projections are shown:

- Based on the phase-in over 5 fiscal years (beginning in 2017) of the increased contribution requirements associated with the new actuarial assumptions. This projects your minimum required contribution.
- Based on no phase-in of the increased contribution requirements.

The 7.75% scenarios provide an estimate of computed employer contributions based on current actuarial assumptions, and a projected 7.75% 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 6.75% and 5.75% projections provide an indication of the potential required employer contribution if MERS were to realize investment returns of 6.75% and 5.75% over the long-term.

The projections are shown both in tabular and graphical form in total for the employer. The tables show projections for six years. The graphs show projections for fifteen years.

Valuation Year Ending 12/31	Fiscal Year Beginning 7/1	Actuarial Accrued Liability	Valuation Assets	Funded Percentage	Computed Annual Employer Contribution
7.75% Assumed Interest Discount Rate and Future Annual Market Rate of Return					
WITH 5-YEAR PHASE-IN					
2016	2018	\$ 12,864,166	\$ 7,671,654	60%	\$ 486,924
2017	2019	13,300,000	7,860,000	59%	539,000
2018	2020	13,700,000	8,020,000	58%	589,000
2019	2021	14,200,000	8,150,000	57%	642,000
2020	2022	14,600,000	8,540,000	58%	663,000
2021	2023	15,100,000	8,980,000	59%	685,000
NO 5-YEAR PHASE-IN					
2016	2018	\$ 12,864,166	\$ 7,671,654	60%	\$ 524,472
2017	2019	13,300,000	7,860,000	59%	561,000
2018	2020	13,700,000	8,040,000	59%	596,000
2019	2021	14,200,000	8,200,000	58%	636,000
2020	2022	14,600,000	8,610,000	59%	657,000
2021	2023	15,100,000	9,060,000	60%	678,000
6.75% Assumed Interest Discount Rate and Future Annual Market Rate of Return					
NO 5-YEAR PHASE-IN					
2016	2018	\$ 14,405,253	\$ 7,671,654	53%	\$ 660,996
2017	2019	14,900,000	7,790,000	52%	697,000
2018	2020	15,400,000	7,960,000	52%	735,000
2019	2021	15,800,000	8,180,000	52%	777,000
2020	2022	16,300,000	8,650,000	53%	802,000
2021	2023	16,800,000	9,160,000	55%	829,000
5.75% Assumed Interest Discount Rate and Future Annual Market Rate of Return					
NO 5-YEAR PHASE-IN					
2016	2018	\$ 16,245,063	\$ 7,671,654	47%	\$ 812,736
2017	2019	16,800,000	7,720,000	46%	853,000
2018	2020	17,300,000	7,890,000	46%	894,000
2019	2021	17,800,000	8,190,000	46%	939,000
2020	2022	18,300,000	8,740,000	48%	970,000
2021	2023	18,900,000	9,340,000	50%	1,000,000



Employer Contribution Details For the Fiscal Year Beginning July 1, 2018

Table 1

Division	Employer Contributions ¹			Computed Employer Contribution With Phase-In	Blended ER Rate No Phase-In ⁵	Blended ER Rate With Phase-In ⁵	Employee Contribution Rate	Employee Contribution Conversion Factor ²
	Normal Cost	Payment of the Unfunded Accrued Liability ⁴	Computed Employer Contribution No Phase-In					
Percentage of Payroll								
01 - General	-	-	-	-	33.68%	31.19%	0.00%	
02 - Police/Fire	-	-	-	-	25.55%	23.91%	3.50%	
03 - Gnrl 12/12 & Pol/F	8.39%	-0.74%	7.65%	7.65%	33.68%	31.19%	0.00%	0.83%
20 - Pol/Fi aft 7/16 el	6.66%	0.03%	6.69%	6.69%	25.55%	23.91%	7.00%	0.77%
Estimated Monthly Contribution³								
01 - General	\$ 8,331	\$ 23,217	\$ 31,548	\$ 29,088				
02 - Police/Fire	3,627	6,586	10,213	9,544				
03 - Gnrl 12/12 & Pol/F	1,870	(165)	1,705	1,705				
20 - Pol/Fi aft 7/16 el	239	1	240	240				
Total Municipality	\$ 14,067	\$ 29,639	\$ 43,706	\$ 40,577				
Estimated Annual Contribution³	\$ 168,804	\$ 355,668	\$ 524,472	\$ 486,924				

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 (ie 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 If projected assets exceed projected liabilities as of the beginning of the July 1, 2018 fiscal year, the negative unfunded accrued liability is treated as overfunding credit and is used to reduce the contribution. This amortization is used to reduce the employer contribution rate. 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 to not add across.

⁵ For linked divisions, the employer will be invoiced the Computed Employer Contribution with Phase-in 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 800-767-2308.

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

Benefit Provisions

Table 2

01 - General: Closed to new hires, linked to Division 03

	2016 Valuation	2015 Valuation
Benefit Multiplier:	2.25% Multiplier (80% max)	2.25% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	-	-
Early Retirement (Reduced):	50/25 55/15	50/25 55/15
Final Average Compensation:	5 years	5 years
COLA for Future Retirees:	2.50% (Non-Compound)	2.50% (Non-Compound)
COLA for Current Retirees:	2.50% (Non-Compound)	2.50% (Non-Compound)
Employee Contributions:	0%	0%
Act 88:	Yes (Adopted 8/2/1993)	Yes (Adopted 8/2/1993)

02 - Police/Fire: Closed to new hires, linked to Division 20

	2016 Valuation	2015 Valuation
Benefit Multiplier:	2.25% Multiplier (80% max)	2.25% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	55/15	55/15
Early Retirement (Reduced):	50/25	50/25
Final Average Compensation:	3 years	3 years
COLA for Future Retirees:	2.50% (Non-Compound)	2.50% (Non-Compound)
COLA for Current Retirees:	2.50% (Non-Compound)	2.50% (Non-Compound)
Employee Contributions:	3.50%	0%
Act 88:	Yes (Adopted 8/2/1993)	Yes (Adopted 8/2/1993)

03 - Gnrl 12/12 & Pol/Fi 7/16 elctg: Open Division, linked to Division 01

	2016 Valuation	2015 Valuation
Benefit Multiplier:	2.25% Multiplier (80% max)	2.25% Multiplier (80% max)
Normal Retirement Age:	60	60
Vesting:	10 years	10 years
Early Retirement (Unreduced):	-	-
Early Retirement (Reduced):	50/25 55/15	50/25 55/15
Final Average Compensation:	5 years	5 years
Employee Contributions:	0%	0%
Act 88:	Yes (Adopted 8/2/1993)	Yes (Adopted 8/2/1993)

Table 2 (continued)

20 - Pol/Fi aft 7/16 elect this div: Open Division, linked to Division 02		
	2016 Valuation	2015 Valuation
Benefit Multiplier:	2.25% Multiplier (80% max)	-
Normal Retirement Age:	60	-
Vesting:	10 years	-
Early Retirement (Unreduced):	55/15	-
Early Retirement (Reduced):	50/25	-
Final Average Compensation:	3 years	-
COLA for Future Retirees:	2.50% (Non-Compound)	-
Employee Contributions:	7%	-
Act 88:	Yes (Adopted 8/2/1993)	-

Participant Summary

Table 3

Division	2016 Valuation		2015 Valuation		2016 Valuation		
	Number	Annual Payroll ¹	Number	Annual Payroll ¹	Average Age	Average Benefit Service ²	Average Eligibility Service ²
01 - General							
Active Employees	15	\$ 917,988	16	\$ 933,811	48.1	16.1	17.6
Vested Former Employees	2	44,466	2	44,466	58.2	12.9	16.1
Retirees and Beneficiaries	22	544,933	21	507,691	75.2		
02 - Police/Fire							
Active Employees	6	\$ 424,836	6	\$ 396,956	41.2	15.2	16.4
Vested Former Employees	4	30,659	4	30,659	47.8	7.7	12.1
Retirees and Beneficiaries	6	155,472	6	152,223	65.0		
03 - Gnrl 12/12 & Pol/Fi							
Active Employees	4	\$ 162,333	3	\$ 111,484	31.3	1.6	1.6
Vested Former Employees	0	0	0	0	0.0	0.0	0.0
Retirees and Beneficiaries	0	0	0	0	0.0		
20 - Pol/Fi aft 7/16 elec							
Active Employees	1	\$ 22,813		\$	28.0	0.1	0.1
Vested Former Employees	0	0			0.0	0.0	0.0
Retirees and Beneficiaries	0	0			0.0		
Total Municipality							
Active Employees	26	\$ 1,527,970	25	\$ 1,442,251	43.2	13.1	14.2
Vested Former Employees	6	75,125	6	75,125	51.3	9.4	13.4
Retirees and Beneficiaries	28	700,405	27	659,914	73.0		
Total Participants	60		58				

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

² Description can be found under Miscellaneous and Technical Assumptions in the [Appendix](#).

Reported Assets (Market Value)

Table 4

Division	2016 Valuation		2015 Valuation	
	Employer and Retiree ¹	Employee ²	Employer and Retiree ¹	Employee ²
01 - General	\$ 4,844,210	\$ 0	\$ 3,725,909	\$ 0
02 - Police/Fire	2,232,175	9,277	2,059,933	2,556
03 - Gnrl 12/12 & Pol/Fi 7/16 elctg	36,880	0	17,537	0
20 - Pol/Fi aft 7/16 elect this div	0	0		
Municipality Total	\$ 7,113,265	\$ 9,277	\$ 5,803,379	\$ 2,556
Combined Reserves	\$ 7,122,542		\$ 5,805,935	

¹ Reserve for Employer Contributions and Benefit Payments

² Reserve for Employee Contributions

The December 31, 2016 valuation assets are equal to 1.077095 times the reported market value of assets (compared to 1.135382 as of December 31, 2015). The derivation of valuation assets is described, and detailed calculations of valuation assets are shown, in the [Appendix](#).

Flow of Valuation Assets

Table 5

Year Ended 12/31	Employer Contributions		Employee Contributions	Investment Income	Benefit Payments	Employee Contribution Refunds	Net Transfers	Valuation Asset Balance
	Required	Additional						
2006	\$ 238,499		\$ 0	\$ 411,883	\$ (291,239)	\$ 0	\$ 0	\$ 5,457,138
2007	247,944		0	442,575	(338,937)	0	0	5,808,720
2008	270,537		0	266,490	(357,493)	0	5,193	5,993,447
2009	266,011		0	246,724	(442,818)	0	0	6,063,364
2010	286,249		0	302,340	(481,420)	0	(3,631)	6,166,902
2011	317,917	\$ 0	0	301,093	(516,963)	0	0	6,268,949
2012	314,769	0	0	269,155	(541,610)	0	0	6,311,263
2013	323,617	0	0	357,243	(583,657)	0	0	6,408,466
2014	366,822	0	0	356,796	(625,375)	0	0	6,506,709
2015	413,578	0	0	315,462	(643,795)	0	0	6,591,954
2016	447,567	902,792	6,698	402,580	(679,937)	0	0	7,671,654

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.

Additional employer contributions, if any, are shown separately starting in 2011. Prior to 2011, additional contributions are combined with the required employer contributions.

In the actuarial valuation additional employer contributions are combined with required contributions and used to reduce computed future required employer contributions.

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

Actuarial Accrued Liabilities and Valuation Assets As of December 31, 2016

Table 6

Division	Actuarial Accrued Liability	Valuation Assets ¹	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
01 - General				
Active Employees	\$ 3,317,183	\$ 0	0.0%	\$ 3,317,183
Vested Former Employees	517,724	0	0.0%	517,724
Retirees And Beneficiaries	5,452,509	5,217,674	95.7%	234,835
Pending Refunds	0	0	0.0%	0
Total	\$ 9,287,416	\$ 5,217,674	56.2%	\$ 4,069,742
02 - Police/Fire				
Active Employees	\$ 1,497,700	\$ 359,910	24.0%	\$ 1,137,790
Vested Former Employees	255,737	255,737	100.0%	0
Retirees And Beneficiaries	1,798,610	1,798,610	100.0%	0
Pending Refunds	0	0	0.0%	0
Total	\$ 3,552,047	\$ 2,414,257	68.0%	\$ 1,137,790
03 - Gnrl 12/12 & Pol/Fi 7/16 elctg				
Active Employees	\$ 24,626	\$ 39,723	161.3%	\$ (15,097)
Vested Former Employees	0	0	0.0%	0
Retirees And Beneficiaries	0	0	0.0%	0
Pending Refunds	0	0	0.0%	0
Total	\$ 24,626	\$ 39,723	161.3%	\$ (15,097)
20 - Pol/Fi aft 7/16 elect this div				
Active Employees	\$ 77	\$ 133	172.7%	\$ (56)
Vested Former Employees	0	0	0.0%	0
Retirees And Beneficiaries	0	(133)	0.0%	133
Pending Refunds	0	0	0.0%	0
Total	\$ 77	\$ 0	0.0%	\$ 77
Total Municipality				
Active Employees	\$ 4,839,586	\$ 399,766	8.3%	\$ 4,439,820
Vested Former Employees	773,461	255,737	33.1%	517,724
Retirees and Beneficiaries	7,251,119	7,016,151	96.8%	234,968
Pending Refunds	0	0	0.0%	0
Total Participants	\$ 12,864,166	\$ 7,671,654	59.6%	\$ 5,192,512
The following results show the combined accrued liabilities and assets for each set of linked divisions. These results are already included in the table above.				
Linked Divisions 03, 01				
Active Employees	\$ 3,341,809	\$ 39,723	1.2%	\$ 3,302,086
Vested Former Employees	517,724	0	0.0%	517,724
Retirees and Beneficiaries	5,452,509	5,217,674	95.7%	234,835
Pending Refunds	0	0	0.0%	0
Total	\$ 9,312,042	\$ 5,257,397	56.5%	\$ 4,054,645

Table 6 (continued)

Division	Actuarial Accrued Liability	Valuation Assets¹	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
Linked Divisions 20, 02				
Active Employees	\$ 1,497,777	\$ 360,043	24.0%	\$ 1,137,734
Vested Former Employees	255,737	255,737	100.0%	0
Retirees and Beneficiaries	1,798,610	1,798,477	100.0%	133
Pending Refunds	0	0	0.0%	0
Total	\$ 3,552,124	\$ 2,414,257	68.0%	\$ 1,137,867

¹ Includes both employer and employee assets.

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

See Section 46 of the Plan Document for MERS Fiscal Responsibility policy, on the MERS website at:
<https://employerportal.mersofmich.com/SharePointFormsService/Default.aspx?Publication=MERSPlanDocument.pdf>.

Actuarial Accrued Liabilities - Comparative Schedule

Table 7

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2002	\$ 5,665,687	\$ 4,242,702	75%	\$ 1,422,985
2003	6,101,872	4,546,889	75%	1,554,983
2004	6,592,422	4,815,306	73%	1,777,116
2005	7,016,297	5,097,995	73%	1,918,302
2006	7,480,303	5,457,138	73%	2,023,165
2007	7,815,353	5,808,720	74%	2,006,633
2008	8,484,772	5,993,447	71%	2,491,325
2009	8,789,315	6,063,364	69%	2,725,951
2010	9,094,433	6,166,902	68%	2,927,531
2011	9,528,751	6,268,949	66%	3,259,802
2012	10,040,007	6,311,263	63%	3,728,744
2013	10,675,393	6,408,466	60%	4,266,927
2014	11,280,021	6,506,709	58%	4,773,312
2015	12,365,548	6,591,954	53%	5,773,594
2016	12,864,166	7,671,654	60%	5,192,512

Notes: Actuarial assumptions were revised for the 2004, 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Division 01 - General

Table 8-01: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2006	\$ 5,673,121	\$ 3,898,387	69%	\$ 1,774,734
2007	6,329,289	4,445,669	70%	1,883,620
2008	6,447,926	4,284,476	66%	2,163,450
2009	6,654,281	4,258,043	64%	2,396,238
2010	6,906,267	4,240,555	61%	2,665,712
2011	7,234,591	4,238,669	59%	2,995,922
2012	7,447,211	4,200,321	56%	3,246,890
2013	7,801,604	4,221,620	54%	3,579,984
2014	8,216,323	4,231,345	52%	3,984,978
2015	8,891,463	4,230,330	48%	4,661,133
2016	9,287,416	5,217,674	56%	4,069,742

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

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		
2006	20	\$ 906,801	20.60%	0.00%
2007	21	1,018,891	20.02%	0.00%
2008	19	891,491	23.60%	0.00%
2009	19	926,449	24.27%	0.00%
2010	19	960,478	25.22%	0.00%
2011	19	985,916	27.11%	0.00%
2012	18	942,680	31.22%	0.00%
2013	18	995,453	\$ 27,030	0.00%
2014	16	917,772	\$ 29,258	0.00%
2015	16	933,811	\$ 35,212	0.00%
2016	15	917,988	\$ 31,548	0.00%

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

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

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

See the Benefit Provision History on page 33 for past benefit provision changes.

Division 02 - Police/Fire

Table 8-02: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2006	\$ 1,807,182	\$ 1,558,751	86%	\$ 248,431
2007	1,486,064	1,363,051	92%	123,013
2008	2,036,846	1,708,971	84%	327,875
2009	2,135,034	1,805,321	85%	329,713
2010	2,188,166	1,926,347	88%	261,819
2011	2,294,160	2,030,280	89%	263,880
2012	2,592,796	2,110,942	81%	481,854
2013	2,870,573	2,183,811	76%	686,762
2014	3,055,940	2,267,881	74%	788,059
2015	3,463,822	2,341,713	68%	1,122,109
2016	3,552,047	2,414,257	68%	1,137,790

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

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		
2006	8	\$ 424,369	14.36%	0.00%
2007	7	362,637	12.99%	0.00%
2008	8	459,163	15.70%	0.00%
2009	8	480,499	16.44%	0.00%
2010	8	490,868	15.50%	0.00%
2011	8	475,433	15.85%	0.00%
2012	7	375,096	20.41%	0.00%
2013	7	437,848	22.13%	0.00%
2014	7	448,886	23.05%	0.00%
2015	6	396,956	30.77%	0.00%
2016	6	424,836	\$ 10,213	3.50%

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

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

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

See the Benefit Provision History on page 33 for past benefit provision changes.

Division 03 - Gnrl 12/12 & Pol/Fi 7/16 elctg

Table 8-03: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2013	\$ 3,216	\$ 3,035	94%	\$ 181
2014	7,758	7,483	97%	275
2015	10,263	19,911	194%	(9,648)
2016	24,626	39,723	161%	(15,097)

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 9-03: Computed Employer Contributions - Comparative Schedule

Valuation Date December 31	Active Employees		Computed Employer Contribution ¹	Employee Contribution Rate ²
	Number	Annual Payroll		
2013	1	\$ 28,890	11.46%	0.00%
2014	2	64,582	9.86%	0.00%
2015	3	111,484	6.95%	0.00%
2016	4	162,333	7.65%	0.00%

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

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

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

See the Benefit Provision History on page 33 for past benefit provision changes.

Division 20 - Pol/Fi aft 7/16 elect this div

Table 8-20: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2016	\$ 77	\$ 0	0%	\$ 77

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

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		
2016	1	\$ 22,813	6.69%	7.00%

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

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

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

See the Benefit Provision History on page 33 for past benefit provision changes.

Division 01 - General

Table 10-01: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance	Original Amortization Period**	Amounts for Fiscal Year Beginning 7/1/2018		
				Outstanding UAL Balance*	Amortization Period**	Amortization Payment
Initial	12/31/2015	\$ 4,661,133	23	\$ 4,880,313	22	\$ 332,820
Gain/Loss	12/31/2016	(710,791)	22	(795,001)	22	(54,216)
Total				\$ 4,085,312		\$ 278,604

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

** Please see the [Appendix](#) on the MERS website for a description of the amortization policy.

The unfunded accrued liability as of December 31, 2016 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2016 valuation to take into account the expected future contributions that are based on past valuations. The projected unfunded accrued liability is amortized over the appropriate period.

Division 02 - Police/Fire

Table 10-02: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance	Original Amortization Period**	Amounts for Fiscal Year Beginning 7/1/2018		
				Outstanding UAL Balance*	Amortization Period**	Amortization Payment
Initial	12/31/2015	\$ 1,122,109	23	\$ 1,199,544	22	\$ 81,804
Gain/Loss	12/31/2016	(27,516)	22	(30,776)	22	(2,100)
Plan Amendments	12/31/2016	(8,783)	22	(9,824)	22	(672)
Total				\$ 1,158,944		\$ 79,032

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

** Please see the [Appendix](#) on the MERS website for a description of the amortization policy.

The unfunded accrued liability as of December 31, 2016 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2016 valuation to take into account the expected future contributions that are based on past valuations. The projected unfunded accrued liability is amortized over the appropriate period.

Division 03 - Gnrl 12/12 & Pol/Fi 7/16 elctg

Table 10-03: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance	Original Amortization Period**	Amounts for Fiscal Year Beginning 7/1/2018		
				Outstanding UAL Balance*	Amortization Period**	Amortization Payment
Initial	12/31/2015	\$ (9,648)	10	\$ (15,791)	10	\$ (1,932)
Gain/Loss	12/31/2016	(422)	15	(472)	15	(48)
Total				\$ (16,263)		\$ (1,980)

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

** Please see the [Appendix](#) on the MERS website for a description of the amortization policy.

The unfunded accrued liability as of December 31, 2016 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2016 valuation to take into account the expected future contributions that are based on past valuations. The projected unfunded accrued liability is amortized over the appropriate period.

Division 20 - Pol/Fi aft 7/16 elect this div

Table 10-20: Layered Amortization Schedule

Type of UAL	Date Established	Original Balance	Original Amortization Period**	Amounts for Fiscal Year Beginning 7/1/2018		
				Outstanding UAL Balance*	Amortization Period**	Amortization Payment
Gain/Loss	12/31/2016	75	15	84	15	12
Total				\$ 84		\$ 12

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

** Please see the [Appendix](#) on the MERS website for a description of the amortization policy.

The unfunded accrued liability as of December 31, 2016 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2016 valuation to take into account the expected future contributions that are based on past valuations. The projected unfunded accrued liability is amortized over the appropriate period.

GASB 68 Information

The following information has been prepared to provide some of the information necessary to complete GASB Statement No. 68 disclosures. Statement 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:	12/31/2016
Measurement Date of Total Pension Liability (TPL):	12/31/2016

At 12/31/2016, the following employees were covered by the benefit terms:

Inactive employees or beneficiaries currently receiving benefits:	28
Inactive employees entitled to but not yet receiving benefits:	6
Active employees:	<u>26</u>
	60

Total Pension Liability as of 12/31/2015 measurement date:	\$	12,031,342
Total Pension Liability as of 12/31/2016 measurement date:	\$	12,518,581
Service Cost for the year ending on the 12/31/2016 measurement date:	\$	158,884

Change in the Total Pension Liability due to:

- Benefit changes ¹ :	\$	(9,030)
- Differences between expected and actual experience ² :	\$	78,624
- Changes in assumptions ² :	\$	0

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.

Average expected remaining service lives of all employees (active and inactive):	5
Covered employee payroll: (Needed for Required Supplementary Information)	\$ 1,527,970

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

	1% Decrease (7.00%)	Current Discount Rate (8.00%)	1% Increase (9.00%)
Change in Net Pension Liability as of 12/31/2016:	\$ 1,475,862	-	\$ (1,246,981)

Note: The current discount rate shown for GASB 68 purposes is higher than the MERS assumed rate of return. This is because for GASB 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 - General

1/1/2017	Blanket Resolution (Rescinded)
12/1/2016	Service Credit Purchase Estimates - No
1/1/2013	Day of work defined as 160 Hours a Month for All employees.
7/1/1995	Benefit B-3 (80% max)
8/2/1993	Covered by Act 88
1/1/1992	E1 2.5% COLA for past retirees (01/01/1992)
1/1/1992	E2 2.5% COLA for future retirees (01/01/1992)
11/8/1990	Blanket Resolution (All Service)
11/1/1990	Benefit B-2
1/1/1990	Flexible E 2% COLA Adopted (01/01/1990)
1/1/1989	Flexible E 2% COLA Adopted (01/01/1989)
9/1/1983	Benefit FAC-5 (5 Year Final Average Compensation)
9/1/1983	10 Year Vesting
9/1/1983	Benefit C-1 (Old)
9/1/1983	Member Contribution Rate 0.00%
9/1/1983	Fiscal Month - July

02 - Police/Fire

1/1/2017	Blanket Resolution (Rescinded)
12/1/2016	Service Credit Purchase Estimates - No
7/1/2016	Participant Contribution Rate 3.5%
1/1/2013	Day of work defined as 160 Hours a Month for All employees.
7/1/2009	Benefit FAC-3 (3 Year Final Average Compensation)
7/1/1995	Benefit B-3 (80% max)
8/2/1993	Covered by Act 88
1/1/1992	E1 2.5% COLA for past retirees (01/01/1992)
1/1/1992	E2 2.5% COLA for future retirees (01/01/1992)
11/8/1990	Blanket Resolution (All Service)
11/1/1990	Benefit B-2
1/1/1990	Flexible E 2% COLA Adopted (01/01/1990)
1/1/1989	Flexible E 2% COLA Adopted (01/01/1989)
7/1/1984	Benefit F55 (With 15 Years of Service)
9/1/1983	Benefit FAC-5 (5 Year Final Average Compensation)
9/1/1983	10 Year Vesting
9/1/1983	Benefit C-1 (Old)
9/1/1983	Member Contribution Rate 0.00%
9/1/1983	Fiscal Month - July

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12/1/2016	Service Credit Purchase Estimates - No
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1/1/2013	Day of work defined as 160 Hours a Month for All employees.
1/1/2013	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/2013	10 Year Vesting
1/1/2013	Benefit B-3 (80% max)
1/1/2013	Member Contribution Rate 0.00%
8/2/1993	Covered by Act 88
9/1/1983	Fiscal Month - July

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7/1/2016	Day of work defined as 160 Hours a Month for All employees.
7/1/2016	Benefit FAC-3 (3 Year Final Average Compensation)
7/1/2016	Non Standard Compensation Definition
7/1/2016	10 Year Vesting
7/1/2016	Benefit B-3 (80% max)
7/1/2016	Benefit F55 (With 15 Years of Service)
7/1/2016	Participant Contribution Rate 7%
7/1/2016	E2 2.5% COLA for future retirees (7/1/2016)
8/2/1993	Covered by Act 88
9/1/1983	Fiscal Month - July

Plan Provisions, Actuarial Assumptions, and Actuarial Funding Method

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

Increase in Final Average Compensation

Division	FAC Increase Assumption
All Divisions	2.00%

Withdrawal Rate Scaling Factor

Division	Withdrawal Rate Scaling Factor
All Divisions	100%

Miscellaneous and Technical Assumptions

Loads – None.