

MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF MICHIGAN

ANNUAL ACTUARIAL VALUATION REPORT DECEMBER 31, 2015 FLUSHING, CHTR TWP OF (2515)



Spring, 2016

Flushing, Chtr Twp 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, 2015. The report includes the determination of liabilities and contribution rates resulting from the participation of Flushing, Chtr Twp of (2515) 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 more than 65 years. Flushing, Chtr Twp 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, 2015 annual actuarial valuation is to:

- Measure funding progress
- Establish contribution requirements for the fiscal year beginning April 1, 2017
- 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, 2015 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, and this December 31, 2015 valuation report reflects changes in assumptions and methods. 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-2015AnnualActuarialValuation-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 Alan Sonnanstine, MAAA, ASA

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Executive Summary

New Actuarial Assumptions and Methods

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 this December 31, 2015 valuation report reflects several changes in actuarial assumptions.

The main assumption and method changes were:

- The mortality table was adjusted to reflect longer lifetimes.
- The assumed annual rate of investment return, net of all expenses, was lowered from 8% to 7.75%.
- The asset smoothing was changed from 10 to 5 years.
- The amortization period was moved to a fixed period amortization for the December 31, 2014 annual valuations.
 - o The period will continue to gradually decrease for both open and closed divisions until the current unfunded accrued liability (UAL) is completely paid off.
 - o Moving to this type of "fixed period amortization" means that all unfunded liabilities will be fully funded by a specific date in the future.
 - 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.

Various other actuarial assumptions were revised, but the revisions had a smaller impact than the two assumption changes above (first two bullets). For a summary of all of the actuarial assumptions and methods, please refer to the division-specific assumptions described on the last page of this report, and to the <u>Appendix</u>.

The new amortization period layers and the new 5-year asset smoothing do not impact this 2015 annual valuation, other than the 6 year projections. These method changes will first impact the December 31, 2016 annual valuations.

The impacts of the assumption changes on the funded ratio and the required employer contributions are displayed on the next few pages. While these changes in assumptions will mean larger liabilities and contributions than anticipated by the prior assumptions for most employers, they will ensure each employer makes reasonable progress towards funding the unfunded liabilities of the employer. When

discussing changes in assumptions it is important to remember that, although the assumptions used impact the annual contributions, the true cost of the plan will be based on what will actually happen in the future – independent of the assumptions used. MERS recognizes that many municipalities are already taking steps to reduce their UAL. The MERS Board approved a "phase in" of the total impact of the assumption changes over the next 5 years (impacting fiscal years beginning 2017 – 2021) as an option for you. Of course, if the employer pays less in the first 4 years, they will likely have to pay somewhat more in later years.

MERS created a dedicated resource page on their website, www.mersofmich.com, regarding this topic, with links to frequently asked questions, upcoming events and additional details.

Impacts from the Assumption Changes

The new actuarial assumptions changed your December 31, 2015 percent funded from 59% to 56%, a change of -3%.

One or more of your divisions is covered by an employer cap provision. Please see the employer contribution table on page 8 and the employee contribution rate table on page 9 to see the impact of the assumption changes on the required employer and employee contributions.

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:

For comparison purposes, we have included your December 31, 2015 funded ratio if it had been calculated under the previous assumptions. Note: Your actual funded level as of December 31, 2015 is the amount listed under the new assumptions.

	New Assumptions	Previous As	ssumptions		
	12/31/2015	12/31/2015 12/31/2014			
Funded Ratio	56%	59%	58%		

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. Note: Your minimum required contribution is the amount listed under the new assumptions, with phase-in. For comparison purposes, we have included your computed employer contribution if it had been calculated under the previous assumptions.

	Percentage of Payroll					Monthly \$ Based on Valuation Payroll										
		New Assumptions		Previous Assumptions		New Assumptions			Previous Assumptions							
	Phase-in	Full Impact	Assuit	iptions	PI	hase-in	Full Impact		Full		Full			Assum	ptioi	15
Valuation Date:	12/31/2015	12/31/2015	12/31/2015	12/31/2014	12/	/31/2015	12/31/2015		12/	31/2015	12/	31/2014				
Fiscal Year Beginning:	April 1, 2017	April 1, 2017	April 1, 2017	April 1, 2016		April 1, 2017	April 1, 2017					pril 1, 2017		pril 1, 2016		
Division																
01 - Teamsters-Union	60.50%	65.81%	59.05%	58.30%	\$	8,928	\$	9,712	\$	8,730	\$	7,752				
02 - Plc Offcrs	12.13%	13.64%	11.73%	6.56%		3,305		3,717		3,203		1,591				
20 - Command	85.23%	94.49%	82.78%	2.78% 115.18% 5,741			6,365		5,587		6,798					
Municipality Total					\$	17,974	\$	19,794	\$	17,520	\$	16,141				

Under the new assumptions, both the full impact and the phased in employer contribution requirements are shown in the table above. The phase in allows the employer to spread the increase of the new actuarial assumptions over 5 fiscal years. By default, MERS will invoice you the phased in contribution amount. However, MERS strongly encourages employers to contribute more than the minimum required contribution, including paying the full amount of the impact of the changes, if possible.

Employee contribution rates reflected in the valuations are shown in the next table. Note that employer contribution caps are in effect for Division(s): 02. For these divisions the employee contribution rate may be adjusted in order to implement the employer cap provision. The impact of the change in actuarial assumptions on the employee contribution rate is shown in the next table. The MERS Board approved a "phase in" of this impact over the next 5 years (impacting fiscal years beginning 2017 – 2021) as an option for you. Of course, if the employees pay less in the first 4 years, they will likely have to pay somewhat more in later years.

	Employee Contribution Rate								
	New Assi	umptions	Previous As	ssumptions					
	Phase-in	Full Impact							
Valuation Date:	12/31/2015 12/31/2015		12/31/2015	12/31/2014					
Fiscal Year Beginning:	April 1, 2017	April 1, 2017	April 1, 2017	April 1, 2016					
Division									
01 - Teamsters-Union	3.00%	3.00%	3.00%	3.00%					
02 - Plc Offcrs	8.00%	8.00%	8.00%	8.00%					
20 - Command	2.00%	2.00%	2.00%	2.00%					

The calculations above phase-in the contribution increases (due to changes in assumptions) between the employer and member, in what the actuaries and MERS believe to be an equitable manner based on information received for this valuation report. However, there may be other approaches to phasing in the increase which would produce different results. Please contact your MERS representative if you believe an alternate application of the phase-in calculation should be applied.

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 \$ 33,177, instead of \$ 19,794.
- To accelerate to a 100% funding ratio in 20 years, estimated monthly employer contributions for the entire employer would be \$ 21,298, instead of \$ 19,794.

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

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 2015 was 5.21%.

As of December 31, 2015 the actuarial value of assets is 113% 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, 2015 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 49% (instead of 56%); and ii) your total employer contribution requirement for the fiscal year starting April 1, 2017 would be \$ 268,560 (instead of \$ 237,528).

The asset smoothing method is a powerful tool for reducing the volatility of your required employer contributions. However, if the current 13% 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 retirement plans, by their nature, are exposed to certain risks. While risks cannot be eliminated entirely, they can be mitigated 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 mitigate the economic and demographic risks, and the contribution volatility risks. For example, the investment risk is the largest economic risk and is mitigated by having a balanced portfolio and a clearly defined investment strategy. Demographic risks vary based on the age of the workforce and are mitigated 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 mitigated 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.

For example:

• Lower investment returns would result in higher required employer contributions, and vice-versa.

- Smaller than projected pay increases would lower required employer contributions.
- 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.
- Retirements at earlier ages than projected would usually increase required employer contributions.
- More non-vested terminations of employment than projected would decrease required contributions.
- More disabilities or survivor (death) benefits than projected would increase required contributions.
- Longer lifetimes after retirement than projected would increase 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, 2015 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										
	ı	_ower Future /	Annua	al Returns		Valuation ssumption	Higher Returns					
12/31/2015 Valuation Results		5.75%		6.75%		7.75%		8.75%				
Accrued Liability	\$	7,886,888	\$	7,071,151	\$	6,380,643	\$	5,792,413				
Valuation Assets	\$	3,574,216	\$	3,574,216	\$	3,574,216	\$	3,574,216				
Unfunded Accrued Liability	\$	4,312,672	\$	3,496,935	\$	2,806,427	\$	2,218,197				
Funded Ratio		45%		51%		56%		62%				
Monthly Normal Cost	\$	7,662	\$	5,550	\$	3,953	\$	2,733				
Monthly Amortization Payment	\$	20,373	\$	18,140	\$	15,841	\$	13,469				
Total Employer Contribution ^{1,2}	\$	28,035	\$	23,690	\$	19,794	\$	16,202				

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.

² The above total employer contributions for the 5.75%, 6.75% and 8.75% scenarios do not reflect changes in the employee contribution rates due to the impact of a cap, if any, on employer contributions. Those scenarios are based on the same employee contribution rates as the 7.75% scenario.

Six Year Projection Scenarios

The table on the following page illustrates the plan's projected liabilities and computed employer contributions for the next six fiscal years, under the new actuarial assumptions and under three future economic/assumption scenarios. All four projections take into account the past financial losses that will continue to affect the smoothed rate of return for the next four years. 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.

Valuation Year Ending 12/31	Fiscal Year Beginning 4/1	Actuarial Accrued Liability		Valı	uation Assets	Funded Percentage	Computed Annual Employer Contribution ¹	
7.75% Assumed Interest Discount Rate and Fut			ure A	nnual Market Ra	ate of Return			
WITH 5-Y	EAR PHASE-	IN						
2015	2017	\$	6,380,643	\$	3,574,216	56%	\$	215,688
2016	2018		6,529,795		3,557,044	55%		240,396
2017	2019		6,674,180		3,525,415	53%		265,692
2018	2020		6,813,070		3,492,281	51%		291,624
2019	2021		6,942,689		3,461,821	50%		318,312
2020	2022		7,065,897		3,539,457	50%		331,548
NO 5-YEA	 AR PHASE-IN							
2015	2017	\$	6,380,643	\$	3,574,216	56%	\$	237,528
2016	2018		6,529,795		3,557,044	55%		255,252
2017	2019		6,674,180		3,543,711	53%		273,708
2018	2020		6,813,070		3,529,406	52%		293,208
2019	2021		6,942,689		3,510,778	51%		313,980
2020	2022		7,065,897		3,595,306	51%		327,060
6 75% Assur	mad Interest I) Jiecou	int Pate and Fut	luro A	nnual Market Ra	ete of Peturn		
	AR PHASE-IN	J13000	int Nate and I d	 	illiuai waiketik			
2015	2017	\$	7,071,151	\$	3,574,216	51%	\$	284,280
2016	2018	Ψ	7,223,664	Ψ	3,523,050	49%	Ψ	302,880
2017	2019		7,370,977		3,513,287	48%		321,864
2018	2020		7,512,339		3,514,364	47%		342,132
2019	2021		7,644,061		3,509,861	46%		363,828
2020	2022		7,769,136		3,612,758	47%		378,600
				_			,	
		JISCOL	int Rate and Fut	ture A	nnual Market Ra	ate of Return		
1 .	AR PHASE-IN	ا ب	7 000 000	·	0.574.040	450/	<u>_</u>	220 444
2015	2017	\$	7,886,888	\$	3,574,216	45%	\$	336,444
2016	2018		8,041,974		3,489,049	43%		356,232
2017	2019		8,191,554		3,487,608	43%		376,044
2018	2020		8,334,860		3,510,281	42%		397,296
2019	2021 2022		8,468,321		3,525,940	42%		420,372
2020	2022		8,595,105		3,637,130	42%		438,252

¹ The above required annual employer contribution does not reflect future changes in the employee contribution rates due to the impact of a cap, if any, on employer contributions.

Employer Contribution Details (Without a 5-year Phase-In) For the Fiscal Year Beginning April 1, 2017

Table 1

	Amort.	Emplo	oyer Contribu	tions ¹			
Division	Period for Unfund. Liab. ^{4,5}	Normal Cost	Unfunded Accrued Liability	Total Computed Employer Contribut.	Blended Employer Contribut. ⁶	Employee Contribution Rate	Employee Contribut. Conversion Factor ²
Percentage of Payroll							
01 - Teamsters-Union	23	11.64%	54.17%	65.81%		3.00%	0.91%
02 - Plc Offcrs	23	5.29%	8.35%	13.64%		8.00%	0.78%
20 - Command	23	11.77%	82.72%	94.49%		2.00%	0.55%
Estimated Monthly						<u> </u>	
Contribution ³							
01 - Teamsters-Union	23	\$ 1,718	\$ 7,994	\$ 9,712			
02 - Plc Offcrs	23	1,442	2,275	3,717			
20 - Command	23	793	5,572	6,365			
Total Municipality	Ì	\$ 3,953	\$ 15,841	\$ 19,794		İ	
Estimated Annual							
Contribution ³		\$ 47,436	\$ 190,092	\$ 237,528			

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

Note that the Employer Contribution Details shown in Table 1 do **not** reflect phase-in over 5 fiscal years (beginning in 2017) of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 1 above. The contribution requirements including the 5-year phase-in are shown on page 8.

Note that employer contribution caps are in effect for Division(s): 02. For these divisions the employee contribution rates in Table 1 do **not** reflect phase-in over 5 fiscal years (beginning in 2017) of the

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, 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 April 1, 2017 fiscal year, the negative unfunded accrued liability is amortized (spread) over 10 years. 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 If the division is closed to new hires, with new hires not covered by MERS Defined Benefit Plan or Hybrid Plan provisions, the amortization period will decrease as follows: Under Amortization Option A, the period will decrease by 2 years each valuation year, until it reaches 6 or 5 years. Then it decreases by 1 year each valuation year until the UAL is paid off. Under Amortization Option B, the period will decrease by 2 years each valuation year, until it reaches 16 or 15 years. Thereafter, the period will reduce by 1 year each valuation year, until the UAL is paid off. This will result in amortization payments that increase faster than the usual 3.75% each year. If the division is closed to new hires, with new hires (and transfers) covered by MERS Defined Benefit Plan or Hybrid Plan provisions, the standard open division amortization period will apply.

⁶ For linked divisions, the employer will be invoiced the Total Required 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 800-767-2308.

increased employee contribution requirements associated with the new actuarial assumptions. The full employee contribution rate without phase-in is shown in Table 1 above. The employee contribution requirements including the 5-year phase-in are shown on page 9.

Please see the Comments on Asset Smoothing.

Benefit Provisions

Table 2

01 - Teamsters-Union: Open Division									
	2015 Valuation	2014 Valuation							
Benefit Multiplier:	Bridged Benefit: 3.00% Multiplier (80%	Bridged Benefit: 3.00% Multiplier (80%							
	max) Frozen FAC; to 2.50% Multiplier	max) Frozen FAC; to 2.50% Multiplier							
	(80% max)	(80% max)							
Bridged Benefit Date:	12/31/2011	12/31/2011							
Normal Retirement Age:	60	60							
Vesting:	8 years	8 years							
Early Retirement (Unreduced):	55/15	55/15							
Early Retirement (Reduced):	50/25	50/25							
Final Average Compensation:	3 years	3 years							
Employee Contributions:	3%	3%							
Act 88:	Yes (Adopted 11/9/2006)	Yes (Adopted 11/9/2006)							

02 - Plc Offcrs: Open Division

	2015 Valuation	2014 Valuation
Benefit Multiplier:	Bridged Benefit: 3.00% Multiplier (80%	Bridged Benefit: 3.00% Multiplier (80%
-	max) Frozen FAC; to 2.50% Multiplier	max) Frozen FAC; to 2.50% Multiplier
	(80% max)	(80% max)
Bridged Benefit Date:	05/31/2012	05/31/2012
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
Employee Contributions:	8%	8%
Act 88:	Yes (Adopted 11/9/2006)	Yes (Adopted 11/9/2006)

20 - Command: Open Division

20 - Collillialia. Open Divisi	OII	
	2015 Valuation	2014 Valuation
Benefit Multiplier:	Bridged Benefit: 3.00% Multiplier (80%	Bridged Benefit: 3.00% Multiplier (80%
	max) Frozen FAC; to 2.50% Multiplier	max) Frozen FAC; to 2.50% Multiplier
	(80% max)	(80% max)
Bridged Benefit Date:	04/30/2013	04/30/2013
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:	2%	2%
Act 88:	Yes (Adopted 11/9/2006)	Yes (Adopted 11/9/2006)

Note that employer contribution caps are in effect for Division(s): 02. For these divisions the 2015 Valuation employee contribution rates in Table 2 do **not** reflect phase-in over 5 fiscal years (beginning in 2017) of the increased employee contribution requirements associated with the new actuarial assumptions. The full employee contribution rate without phase-in is shown in Table 2 above. The employee contribution requirements including the 5-year phase-in are shown on page 9.

Participant Summary

Table 3

	2015	Va	aluation	2014	ŀV	/aluation		2015 Valuati	ion
Division	Number		Annual Payroll ¹	Number		Annual Payroll ¹	Average Age	Average Benefit Service ²	Average Eligibility Service ²
01 - Teamsters-Union					Г				
Active Employees	4	\$	162,992	4	\$	159,559	48.9	12.6	18.1
Vested Former Employees	1		402	1		402	31.6	1.3	5.0
Retirees and Beneficiaries	11		215,614	11	İ	215,614	72.8		
02 - Plc Offcrs					Γ				
Active Employees	5	\$	300,971	5	\$	290,909	47.4	16.5	16.5
Vested Former Employees	3		15,729	3		15,729	46.5	4.3	15.2
Retirees and Beneficiaries	1		46,547	1	İ	46,547	54.1		
20 - Command					Г				
Active Employees	1	\$	74,399	1	\$	70,824	57.4	25.6	25.6
Vested Former Employees	0		0	0	İ	0	0.0	0.0	0.0
Retirees and Beneficiaries	2		136,345	2	İ	134,968	61.1		
Total Municipality					Г				
Active Employees	10	\$	538,362	10	\$	521,292	49.0	15.9	18.1
Vested Former Employees	4		16,131	4		16,131	42.8	3.6	12.7
Retirees and Beneficiaries	<u>14</u>		398,506	<u>14</u>		397,129	69.8		
Total Participants	28			28	L				

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 <u>Appendix</u>.

Reported Assets (Market Value)

Table 4

	2015 Va	luation	2014 Valuation				
	Employer and		Employer and				
Division	Retiree ¹	Employee ²	Retiree ¹	Employee ²			
01 - Teamsters-Union	\$ 716,819	\$ 67,033	\$ 806,674	\$ 76,592			
02 - Plc Offcrs	994,756	213,770	1,044,753	188,467			
20 - Command	1,105,886	49,766	1,149,847	47,966			
Municipality Total	\$ 2,817,461	\$ 330,569	\$ 3,001,274	\$ 313,025			
Combined Reserves	\$ 3,14	8,030	\$ 3,31	4,299			

¹ Reserve for Employer Contributions and Benefit Payments

The December 31, 2015 valuation assets are equal to 1.135382 times the reported market value of assets (compared to 1.059937 as of December 31, 2014). The derivation of valuation assets is described, and detailed calculations of valuation assets are shown, in the <u>Appendix</u>.

² Reserve for Employee Contributions

Flow of Valuation Assets

Table 5

Year						Employee		Valuation
Ended	Employer C	ontributions	Employee	Investment	Benefit	Contribution	Net	Asset
12/31	Required	Additional	Contributions	Income	Payments	Refunds	Transfers	Balance
2005	\$ 163,879		\$ 11,112	\$ 108,798	\$ (19,937)	\$ 0	\$ 0	\$ 1,765,298
2006	231,570		11,696	147,095	(19,773)	(813)	0	2,135,073
2007	345,709		10,932	173,770	(64,687)	(4,759)	0	2,596,038
2008	342,728		12,603	166,926	(75,406)	0	12,068	3,054,957
2009	150,044		29,253	151,549	(218,140)	0	0	3,167,663
2010	126,100		30,544	171,030	(295,873)	0	77,683	3,277,147
2011	132,330	\$ 230,000	22,376	189,992	(343,208)	0	0	3,508,637
2012	192,628	0	20,957	138,746	(389,268)	0	0	3,471,700
2013	88,014	50,000	17,389	183,505	(391,141)	0	0	3,419,467
2014	143,520	111,396	38,841	193,859	(394,135)	0	0	3,512,948
2015	190,342	80,000	30,456	172,476	(397,129)	(14,877)	0	3,574,216

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, 2015

Table 6

		Actuarial				Unfunded Overfunded) Accrued
Division	Acc	rued Liability	Valu	uation Assets ¹	Percent Funded	Liabilities
01 - Teamsters-Union						
Active Employees	\$	434,386	\$	67,033	15.4%	\$ 367,353
Vested Former Employees		500		0	0.0%	500
Retirees And Beneficiaries		1,866,022		822,938	44.1%	1,043,084
Pending Refunds		<u>0</u>		<u>0</u>	0.0%	<u>0</u>
Total	\$	2,300,908	\$	889,971	38.7%	\$ 1,410,937
02 - Plc Offcrs	Ì					
Active Employees	\$	1,132,541	\$	751,746	66.4%	\$ 380,795
Vested Former Employees	İ	67,338		67,338	100.0%	0
Retirees And Beneficiaries	ĺ	553,055		553,055	100.0%	0
Pending Refunds		<u>0</u>		<u>0</u>	0.0%	<u>0</u>
Total	\$	1,752,934	\$	1,372,139	78.3%	\$ 380,795
20 - Command						
Active Employees	\$	724,639	\$	49,766	6.9%	\$ 674,873
Vested Former Employees		0		0	0.0%	0
Retirees And Beneficiaries	İ	1,602,162		1,262,340	78.8%	339,822
Pending Refunds	ĺ	<u>0</u>		<u>0</u>	0.0%	<u>0</u>
Total	\$	2,326,801	\$	1,312,106	56.4%	\$ 1,014,695
Total Municipality						
Active Employees	\$	2,291,566	\$	868,545	37.9%	\$ 1,423,021
Vested Former Employees		67,838		67,338	99.3%	500
Retirees and Beneficiaries		4,021,239		2,638,333	65.6%	1,382,906
Pending Refunds		<u>0</u>		<u>0</u>	0.0%	<u>0</u>
Total Participants	\$	6,380,643	\$	3,574,216	56.0%	\$ 2,806,427

¹ Includes both employer and employee assets.

Please see the Comments on Asset Smoothing.

See the MERS Fiscal Responsibility Policy on the MERS website at:

http://www.mersofmich.com/Portals/0/Assets/PageResources/MERS/PlanDocument/Pension/MERSPlanDocument_Section46.pdf_.

Actuarial Accrued Liabilities - Comparative Schedule

Table 7

Valuation Date	Actuarial		Percent	Unfunded (Overfunded) Accrued
December 31	Accrued Liability	Valuation Assets	Funded	Liabilities
2001	\$ 697,290	\$ 524,467	75%	\$ 172,823
2002	819,377	596,775	73%	222,602
2003	1,035,184	719,144	69%	316,040
2004	2,463,464	1,501,446	61%	962,018
2005	3,086,437	1,765,298	57%	1,321,139
2006	4,195,751	2,135,073	51%	2,060,678
2007	4,378,201	2,596,038	59%	1,782,163
2008	4,997,997	3,054,957	61%	1,943,040
2009	5,166,921	3,167,663	61%	1,999,258
2010	5,588,191	3,277,147	59%	2,311,044
2011	5,908,136	3,508,637	59%	2,399,499
2012	6,113,489	3,471,700	57%	2,641,789
2013	6,027,706	3,419,467	57%	2,608,239
2014	6,069,132	3,512,948	58%	2,556,184
2015	6,380,643	3,574,216	56%	2,806,427

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

Division 01 - Teamsters-Union

Table 8-01: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2005	· ' '	1 * / -	56%	'
2006	1,799,352	923,512	51%	875,840
2007	2,017,857	1,156,319	57%	861,538
2008	2,193,588	1,361,323	62%	832,265
2009	2,244,320	1,254,937	56%	989,383
2010	2,238,290	1,106,952	49%	1,131,338
2011	2,263,503	1,113,253	49%	1,150,250
2012	2,277,874	1,014,159	45%	1,263,715
2013	2,185,832	955,306	44%	1,230,526
2014	2,191,410	936,206	43%	1,255,204
2015	2,300,908	889,971	39%	1,410,937

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

Table 9-01: Computed Employer Contributions - Comparative Schedule

	Active	Employees	Computed	Employee
Valuation Date		Annual	Employer	Contribution
December 31	Number	Payroll	Contribution ¹	Rate ²
2005	14	\$ 472,062	18.78%	0.00%
2006	14	491,493	25.53%	0.00%
2007	15	492,827	24.41%	0.00%
2008	9	317,102	29.04%	0.00%
2009	4	149,381	50.78%	0.00%
2010	4	149,564	54.76%	0.00%
2011	4	155,159	56.69%	0.00%
2012	4	160,257	63.67%	0.00%
2013	4	164,216	55.48%	3.00%
2014	4	159,559	58.30%	3.00%
2015	4	162,992	65.81%	3.00%

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

Note: The contributions shown in Table 9 for the 12/31/2015 valuation do **not** reflect phase-in over 5 fiscal years (beginning in 2017) 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 8.

See the Benefit Provision History on page 29 for past benefit provision changes.

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.

Division 02 - Plc Offcrs

Table 8-02: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Actuarial Accrued Liability	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
2005	\$ 526,978	\$ 402,144	76%	\$ 124,834
2006	779,388	496,926	64%	282,462
2007	911,443	599,221	66%	312,222
2008	1,029,667	705,732	69%	323,935
2009	1,049,960	843,390	80%	206,570
2010	1,176,289	1,025,954	87%	150,335
2011	1,311,033	1,171,399	89%	139,634
2012	1,439,429	1,222,480	85%	216,949
2013	1,410,344	1,251,231	89%	159,113
2014	1,374,271	1,307,136	95%	67,135
2015	1,752,934	1,372,139	78%	380,795

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

Table 9-02: Computed Employer Contributions - Comparative Schedule

	Active	Employees	Computed	Employee
Valuation Date		Annual	Employer	Contribution
December 31	Number	Payroll	Contribution ¹	Rate ²
2005	7	\$ 342,788	10.80%	2.00%
2006	7	354,912	16.26%	2.00%
2007	7	371,452	16.03%	2.00%
2008	7	374,144	17.39%	2.00%
2009	6	355,858	9.97%	8.00%
2010	5	302,810	9.68%	8.00%
2011	3	189,678	11.97%	8.00%
2012	3	199,547	14.49%	8.00%
2013	5	292,043	8.22%	8.00%
2014	5	290,909	6.56%	8.00%
2015	5	300,971	13.64%	8.00%

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

Note: The contributions shown in Table 9 for the 12/31/2015 valuation do **not** reflect phase-in over 5 fiscal years (beginning in 2017) 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 8.

See the Benefit Provision History on page 29 for past benefit provision changes.

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.

Division 20 - Command

Table 8-20: Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date	Actuarial	Voluntian Annata	Domont Foundad	Unfunded (Overfunded) Accrued
December 31	Accrued Liability	Valuation Assets	Percent Funded	Liabilities
2005	\$ 1,189,936	\$ 596,842	50%	\$ 593,094
2006	1,617,011	714,635	44%	902,376
2007	1,448,901	840,498	58%	608,403
2008	1,774,742	987,902	56%	786,840
2009	1,872,641	1,069,336	57%	803,305
2010	2,173,612	1,144,241	53%	1,029,371
2011	2,333,600	1,223,985	53%	1,109,615
2012	2,396,186	1,235,061	52%	1,161,125
2013	2,431,530	1,212,930	50%	1,218,600
2014	2,503,451	1,269,606	51%	1,233,845
2015	2,326,801	1,312,106	56%	1,014,695

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

Table 9-20: Computed Employer Contributions - Comparative Schedule

	Active	Employees	Computed	Employee
Valuation Date		Annual	Employer	Contribution
December 31	Number	Payroll	Contribution ¹	Rate ²
2005	3	\$ 212,781	25.54%	2.00%
2006	3	229,914	34.33%	2.00%
2007	3	217,375	27.98%	2.00%
2008	3	252,979	30.57%	2.00%
2009	2	142,570	44.18%	2.00%
2010	1	72,449	91.32%	2.00%
2011	1	86,778	82.46%	2.00%
2012	1	89,153	90.97%	2.00%
2013	1	69,263	117.81%	2.00%
2014	1	70,824	115.18%	2.00%
2015	1	74,399	94.49%	2.00%

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

Note: The contributions shown in Table 9 for the 12/31/2015 valuation do **not** reflect phase-in over 5 fiscal years (beginning in 2017) 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 8.

See the Benefit Provision History on page 29 for past benefit provision changes.

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.

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:	12/31/2015
Measurement Date of Total Pension Liability (TPL):	12/31/2015
At 12/31/2015, the following employees were covered by the benefit terms:	
Inactive employees or beneficiaries currently receiving benefits:	14
Inactive employees entitled to but not yet receiving benefits:	4
Active employees:	<u>10</u>
	28
Total Pension Liability as of 12/31/2014 measurement date:	\$ 5,924,864
Total Pension Liability as of 12/31/2015 measurement date:	\$ 6,224,767
Service Cost for the year ending on the 12/31/2015 measurement date:	\$ 70,741
Change in the Total Pension Liability due to:	
- Benefit changes ¹ :	\$ 0
- Differences between expected and actual experience ² :	\$ (108,734)
- Changes in assumptions ² :	\$ 275,178

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

Average expected remaining service lives of all employees (active and inactive):

Covered employee payroll: (Needed for Required Supplementary Information) \$ 538,362

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

Change in Net Pension Liability as of 12/31/2015:

1% Decrease Current Discount 1% Increase (7.00%) Rate (8.00%) (9.00%) \$ (565,628)

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.

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.

GASB 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. 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:	12/31/2015
Measurement Date of Total Pension Liability (TPL):	12/31/2016
At 12/31/2015, the following employees were covered by the benefit terms:	
Inactive employees or beneficiaries currently receiving benefits:	14
Inactive employees entitled to but not yet receiving benefits:	4
Active employees:	<u>10</u> 28
	28
Total Pension Liability as of 12/31/2015 measurement date:	\$ 6,059,009
Total Pension Liability as of 12/31/2016 measurement date:	\$ 6,372,678
Service Cost for the year ending on the 12/31/2016 measurement date:	\$ 72,962
Change in the Total Pension Liability due to:	
- Benefit changes¹:	\$ 0
- Differences between expected and actual experience ² :	\$ (118,446)
- Changes in assumptions ² :	\$ 282,744

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

Average expected remaining service lives of all employees (active and inactive):

Covered employee payroll: (Needed for Required Supplementary Information) \$ 538,362

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

1% Decrease Current Discount 1% Increase (7.00%) Rate (8.00%) (9.00%) \$ 666 635 - \$ (569 652)

Change in Net Pension Liability as of 12/31/2016: \$ 666,635 - \$ (569,652)

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.

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.

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 - Teamsters-Union

1/1/2012	Day of work defined as 150 Hours a Month for All employees.
1/1/2012	Benefit B-4 (80% max)
1/1/2012	Member Contribution Rate 3.00%
12/31/2011	Frozen FAC
11/9/2006	Covered by Act 88
4/1/2006	3.0% Multiplier (80% max)
4/1/2004	Day of work defined as 7 Hours a Day for All employees.
4/1/2004	Benefit FAC-3 (3 Year Final Average Compensation)
4/1/2004	8 Year Vesting
4/1/2004	Benefit B-4 (80% max)
4/1/2004	Benefit F55 (With 15 Years of Service)
4/1/2004	Member Contribution Rate 0.00%
4/1/1996	Fiscal Month - April

02 - Plc Offcrs

6/1/2012	Day of work defined as 150 Hours a Month for All employees.
6/1/2012	Benefit B-4 (80% max)
5/31/2012	Frozen FAC
4/1/2009	Member Contribution Rate 8.00%
11/9/2006	Covered by Act 88
4/1/2006	3.0% Multiplier (80% max)
4/1/1996	Member Contribution Rate 2.00%
4/1/1996	Fiscal Month - April
4/1/1996	Benefit FAC-3 (3 Year Final Average Compensation)
4/1/1996	10 Year Vesting
4/1/1996	Benefit B-4 (80% max)
4/1/1996	Benefit F50 (With 25 Years of Service)

20 - Command

5/1/2013	Day of work defined as 150 Hours a Month for All employees.	
5/1/2013	Benefit B-4 (80% max)	
4/30/2013	Frozen FAC	
1/1/2007	E2 2.5% COLA for future retirees (04/01/2006)	
11/9/2006	Covered by Act 88	
4/1/2006	3.0% Multiplier (80% max)	
1/1/2005	Benefit FAC-3 (3 Year Final Average Compensation)	
1/1/2005	10 Year Vesting	
1/1/2005	3.2% Multiplier (80% max)	
1/1/2005	Benefit F50 (With 25 Years of Service)	
1/1/2005	Member Contribution Rate 2.00%	

20 - Command

4/1/1996

Fiscal Month - April

Plan Provisions, Actuarial Assumptions, and Actuarial Funding Method

Details on MERS plan provisions, actuarial assumptions, and actuarial methodology can be found in the <u>Appendix</u>. 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	1.00%

Withdrawal Rate Scaling Factor

Division	Withdrawal Rate Scaling Factor
All Divisions	100%

Miscellaneous and Technical Assumptions

Loads - None.