



**MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF MICHIGAN**

**SUMMARY REPORT OF THE 76<sup>th</sup> ANNUAL ACTUARIAL VALUATIONS  
AS OF DECEMBER 31, 2021**

**FOR THE 744 DEFINED BENEFIT PLAN AND HYBRID PLAN MUNICIPALITIES**





September 15, 2022

The Retirement Board  
Municipal Employees' Retirement System of Michigan  
Lansing, Michigan

Ladies and Gentlemen:

This report presents a summary of the results of the 76<sup>th</sup> Annual Actuarial Valuations, prepared as of December 31, 2021, for the Municipal Employees' Retirement System (MERS) 744 Defined Benefit Plan and Hybrid Plan municipalities. The report was prepared at the request of the Retirement Board and is intended for use by the Retirement System and those designated or approved by the Retirement Board.

MERS is an independent, professional retirement services organization that has partnered with Michigan municipalities for over 70 years. Each municipality in MERS is responsible for the employer contributions needed to provide benefits for its employees and former employees under the Michigan Constitution, the MERS Plan Document, and MERS' enabling legislation (Public Act 427 of 1984, as amended). The pension plan is a tax-qualified plan under section 401(a) of the Internal Revenue Code (most recent letter of Favorable Determination issued October 18, 2016).

The purposes of each municipality's December 31, 2021 annual actuarial valuation are to measure funding progress, to determine the employer contribution rates for the fiscal year beginning in 2023, provide information regarding the identification and assessment of risk, to determine the actuarial information for applicable Governmental Accounting Standards Board (GASB) Statements, and provide information to assist the local unit of government with State reporting requirements. The valuation assumed the continuing ability of the plan sponsors to make the contributions necessary to fund their respective plans. A determination regarding whether or not the plan sponsors are actually able to do so is outside the scope of this assignment and our area of expertise and was not performed.

The purpose of this summary report is to provide an overview of the results of the valuations of the individual municipalities. Note that the combined results for all municipalities are not indicative of the financial status of each municipality, since each entity stands on its own financially, with separately computed liabilities and contribution requirements. MERS is not funded on a combined basis. The information in this report should not be used to compare the results between various employers or to compare the results of an employer to the combined results. There are many factors that would make this type of a comparison of minimal value. This report also contains certain information that is required to be included in the MERS Comprehensive Annual Financial Report.

This report should not be relied on for any purpose other than the purpose described in this cover letter. This report may be provided by the Retirement System to other interested parties only in its entirety and only with the permission of the Retirement System. Gabriel, Roeder, Smith & Company is not responsible for the consequences of unauthorized use of this report.

Information regarding the identification and assessment of risk is also included in this report. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law.

Rebecca L. Stouffer and Mark Buis are Members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. The valuations were based upon information 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 audited. Gabriel, Roeder, Smith & Company does not assume responsibility for the accuracy or completeness of the provided data.

Our actuarial valuation was based on the following:

- The benefit provisions of MERS, as described on pages 4 - 15 of Appendix E which is on the MERS website at: [Appendix](#);
- Demographic data on the participants covered, as described in Section II.;
- Financial information regarding plan assets, as described in Section III.; and
- The actuarial assumptions and funding methods adopted by the Retirement Board. See pages 17 - 38 of Appendix E on the MERS website at: [Appendix](#).

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. All calculations have been made in conformity with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board and in compliance with Act No. 427 of the Public Acts of 1984, as amended, and the MERS Plan Document as revised. The actuarial assumptions used for this valuation produce results that we believe are reasonable.

**This report reflects the impact of COVID-19 experience through December 31, 2021. It does not reflect the ongoing impact of COVID-19, which is likely to influence demographic and economic experience, at least in the short-term. We will continue to monitor these developments and their impact on the MERS Defined Benefit and Hybrid plans. Actual future experience will be reflected in each subsequent annual valuation, as experience emerges.**

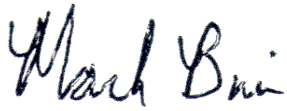


The signing actuaries are independent of the plan and plan sponsors. GRS maintains independent consulting agreements with certain local units of government for services unrelated to the actuarial consulting services provided to MERS in this report.

Respectfully Submitted,  
Gabriel, Roeder, Smith & Company



Rebecca L. Stouffer, ASA, FCA, MAAA



Mark Buis, FSA, FCA, EA, MAAA



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# I. Results of the Actuarial Valuation

## Overview

Our actuarial valuation of the liabilities and contribution rates for each of the 744 Defined Benefit Plan and Hybrid Plan participating municipalities in the Municipal Employees' Retirement System as of December 31, 2021 is based on four major elements:

1. The present benefit provisions of MERS, as governed by Act 220 of the Public Acts of 1996 and the MERS Plan Document, as revised, and various collective bargaining agreements (see Appendix E which is on the MERS website at: [Appendix](#)).
2. The characteristics of active and inactive MERS participants as of December 31, 2021 (see Section II).
3. The assets attributable to MERS participants of each participating municipality. The total assets (at actuarial value) for all 744 municipalities included in the December 31, 2021 valuation was \$12.5 billion. The market value of assets was \$12.5 billion.
4. The actuarial assumptions and funding method (see Appendix E which is on the MERS website at: [Appendix](#)). The results in this report reflect the assumptions and funding policy adopted by the Retirement Board in February 2019, February 2020, and February 2022.

The employer contribution rate has been determined for each open municipality based on the entry age normal funding method. Under the entry age normal funding method, the total employer contribution is comprised of the normal cost plus the amortization payment required to fund the unfunded actuarial accrued liability over a period of years.

The total normal cost is, for each active participant, the level percentage of payroll contribution (from entry age to retirement) required to accumulate sufficient assets at the participant's retirement to pay for his or her projected benefit. The employer normal cost is the total normal cost reduced by the employee contribution rate. Closed municipalities (no longer actively participating in MERS) are covered by separate funding requirements.

The actuarial accrued liability represents the difference between the present value of all future benefits and the present value of future normal costs. The unfunded actuarial accrued liability (i.e., the actuarial accrued liability less assets accumulated as of the valuation date) is projected to the beginning of the fiscal year commencing in 2023, and is then amortized as noted in the [Appendix](#).

Each of these components of the employer contribution (i.e., normal cost and amortization payment) is shown separately for each municipality in Appendix C. For open divisions, we show estimated dollar contributions (based on projected payroll, but the actual required contribution for open divisions will be based on actual reported monthly pays during the fiscal year and will be different). For closed divisions, we show the dollar contributions that MERS will invoice, unless the division is linked to an open division and the employer has requested a blended contribution rate.

Within each municipality, an individual employer contribution is determined for each valuation group (division). The employer contribution requirement for each municipality is shown in Appendix C. The funded status of each municipality is shown in Appendix B. The Annual Actuarial Valuation report for each individual municipality contains information regarding the identification and assessment of risk. Appendix D summarizes the risk measures for all municipalities.

## Municipality Funded Status

One measure of a municipality's funding progress is the percentage of the dollar value of the actuarial accrued liability that is covered by the actuarial value of assets. The most recent MERS actuarial valuation is as of December 31, 2021. At that date 101 municipalities (13.6% of all Defined Benefit Plan and Hybrid Plan municipalities in MERS) were funded at 100% or higher, up from 53 last year. There were 647 municipalities in MERS that were funded at 60% or higher (87% of all municipalities), up from 575 last year.

## Changes in Municipality Funding Percentages in 2021

Each municipality's plan is a standalone entity. Benefits are determined at the local level, each municipality is responsible for funding its own benefit provisions, and funded percentages vary between municipalities, as shown in Table 1 and Chart 7. Factors that affect the change in a municipality's funded percentage during 2021 include:

- **Funding Policy** - The MERS funding policy is designed to result in a gradual change in the funded percentage towards 100% funding.
- **Investment Experience** - The actual market rate of return during 2021 was greater than the assumed rate of return, and the actuarial rate of return during 2021 was higher than assumed resulting in modestly increased funded percentages (absent other factors). The impact of this greater than assumed rate of return is scheduled for recognition in the 2021 and following four valuations, absent offsetting negative experience in future years.
- **Assumption Changes** - At the February 17, 2022 Board meeting, the MERS Retirement Board adopted a dedicated gains policy that automatically adjusts the assumed rate of investment return by using excess asset gains to mitigate large increases in required contributions to the Plan. Full details of this dedicated gains policy are available in the Actuarial Policy found on the MERS [website](#). Some goals of the dedicated gains policy are to:
  - Provide a systematic approach to lower the assumed rate of investment return between experience studies, and
  - Use excess gains to mitigate both the increase in the normal cost payment the first year after implementation and any increase in UAL resulting from the reduction in the assumed rate of return (i.e., minimize the first-year impact (i.e., increase) in employer contributions).



The dedicated gains policy has been implemented with the December 31, 2021 annual actuarial valuation. After initial application of the smoothing method, remaining market gains were used to lower the assumed rate of investment return from 7.35% to 7.00%. The December 31, 2021 valuation liabilities were developed using this new, lower assumption. Additionally, as a result of recognizing excess market gains, the valuation assets used to fund these liabilities are 7.2% higher than if there were no dedicated gain policy. The combined impact of these changes will minimize the first-year impact on employer contributions and may result in an increase or a decrease in employer contributions.

- **Benefit Provision Changes** - When a municipality's benefit provisions increase, the funded percentage usually decreases, and vice versa.
- **Experience in Other Risk Areas (retirements, disabilities, withdrawals, pay increases, etc.)** - Any material difference between what actually happened to participants in 2021 versus what the actuarial assumptions projected would happen will increase or decrease the funded percentage.
- **Contributions in Excess of Minimum Requirements** - Contributing more than the annual minimum required contribution would increase the municipality's funded percentage compared to what it would have been without the extra contribution.

The above list is not all inclusive. In addition, each municipality's funded status could be affected by a combination of these factors.

## Comments on the Investment Markets

The actuarial value of assets, used to determine both municipalities' funded status and the required employer contributions, is based on a 5-year smoothed value of assets in conjunction with application of a Dedicated Gains policy. The Dedicated Gains policy serves to systematically lower the assumed rate of return and applies to any market gains remaining after the preliminary application of the Asset Method. Only a portion of each year's investment market losses or gains were recognized in the 2021 actuarial valuation reports. This reduces the volatility of the valuation results, which affects the required employer contributions and actuarial funded percentage.

As of December 31, 2021, the actuarial value of assets is just below 100% of market value due to asset smoothing and dedicated gains. This means that rate of return on the actuarial value of assets should exceed the actuarial assumption in the next few years provided that the annual market returns meet or exceed the 7.00% investment return assumption. When all assumptions are met, contribution rates are expected to stay approximately level as a percent of payroll (dollar amounts are expected to increase with wage inflation of 3.0% each year).

There are key differences between the data and figures used to calculate market performance in actuarial reports such as this, and a municipality's State of Fiduciary Net Position. The **Actuarial Rate of Return** is calculated on the actuarial value of assets and will differ from the computed **Market Rate of Return** due to the smoothing of historical returns. For plans across the country, the actuary generally computes a simplified estimate of the rate of return called the Market Rate of Return assuming all contributions and benefits are paid in the middle of the year. The actuary's calculation under this method should not be used to assess investment performance since it is impacted by the timing of cash flows. Both the actuarial rate of return and the market rate of return are aggregated across all MERS plans system-wide and are a notional value which is not intended to be interpreted as an individual plan's rate of return.

MERS publishes an **Annualized Rate of Return** on their website [here](#). These figures are calculated by MERS external banking custodian and are annually audited. Differences between the **Annualized Rate of Return** and the **Market Rate of Return** can generally be attributed to the treatment of expenses, the **Market Rate of Return** is net 20 basis points of administrative expenses and 20 basis points of investment expenses, and the type of calculation. The **Market Rate of Return** is a cash-weighted return calculation and the **Annualized Rate of Return** calculation is generally calculated as a time-weighted return independent of the cash flows based on additional interim data (e.g., quarterly, monthly, or more frequent).

<b>Year Ending December 31,</b>	<b>Actuarial Rate of Return <i>Smoothed</i> (Net of Expenses)</b>	<b>Market Rate of Return (Net of Expenses)</b>	<b>Market Rate of Return (Gross)</b>
<b>2019</b>	4.77%	13.41%	14.06%
<b>2020</b>	8.17%	12.70%	13.79%
<b>2021</b>	17.04%	13.97%	14.32%

The actuary's calculations for MERS as a whole may be found in the [Appendix](#) to the Annual Actuarial Valuation. Note that calculations of rates of return for individual plans may differ from that of MERS as a whole since the plan's cash flows may differ proportionately from that of MERS as a whole.



**Table 1: Summary of the Valuation Results**

	December 31,		
	2021	2020	2019
Number of Participating Municipalities	731	728	729
Number of Closed Municipalities <sup>1</sup>	13	14	16
Total Defined Benefit and Hybrid Municipalities	744	742	745
Number of Valuation Divisions			
Open to new hires	984	1,037	1,098
Closed to new hires	2,103	2,011	1,924
Closed municipalities	16	18	20
Total	3,103	3,066	3,042
Total Active Participant Payroll (millions)	\$ 1,834	\$ 1,852	\$ 1,850
Assets at Market Value (millions)	\$ 12,493	\$ 10,991	\$ 9,917
Assets at Actuarial Value (millions)	12,474	10,688	10,047
Actuarial Rate of Return <sup>2</sup>	17.04%	8.17%	4.77%
Actuarial Accrued Liability (millions)	\$ 17,144	\$ 16,199	\$ 15,276
Median AAL Funded Percentage (based on actuarial value of assets)	78%	71%	71%
Number of Municipalities:			
Under 60% Funded	97	167	169
60%-80% Funded	304	332	328
80%-100% Funded	242	190	194
100%+ Funded	101	53	54
Median Plan Maturity Risk Measures:			
Ratio of Market Value of Assets over Payroll	5.9	5.3	4.8
Ratio of Actuarial Accrued Liability over Payroll	8.1	7.7	7.2
Ratio of Actives over Retirees and Beneficiaries	0.7	0.8	0.9
Ratio of Market Value of Assets over Benefit Payments	13.7	12.8	12.2
Ratio of Net Cash Flow over Market Value of Assets	-1.4%	-1.7%	-1.9%

<sup>1</sup> Closed municipalities have ceased participation in MERS, but MERS retains assets and liabilities for future benefit payments to their retirees and vested former participants.

<sup>2</sup> Refer to discussion on prior page for additional detail.

## II. Participant Characteristics as of December 31, 2021

### Active Participants

The total number of defined benefit plan active participants decreased from 32,314 on December 31, 2020 to 31,019 on December 31, 2021.

The basic demographic characteristics of the active participants are shown below with comparative statistics for the past two years.

Item	December 31,		
	2021	2020	2019
Number of defined benefit plan active participants	31,019	32,314	33,710
Average age	45.7	45.7	45.7
Average benefit service	10.8	11.0	10.9
Average eligibility service <sup>1</sup>	11.7	11.9	11.8
Average compensation	\$ 59,111	\$ 57,299	\$ 54,889
Aggregate compensation (millions)	\$ 1,833.6	\$ 1,851.6	\$ 1,850.3

<sup>1</sup> Description can be found under Miscellaneous and Technical Assumptions in the Appendix.

### Vested Former Participants

A vested former participant is a person who terminated employment after meeting their division's vesting schedule, with rights to a deferred benefit commencing at normal retirement age, or earlier if early (unreduced) retirement benefits have been adopted.

There were 8,916 former employees with deferred vested rights as of December 31, 2021. This compares to 8,663 such participants as of the prior valuation.

Item	December 31,		
	2021	2020	2019
Number of vested former participants <sup>1</sup>	8,916	8,663	8,638
Average age	49.8	50.0	49.9
Average annual deferred benefit	\$ 11,416	\$ 11,231	\$ 11,057

<sup>1</sup> Excludes terminated employees who are not vested. Any employee contributions still on deposit for such persons are reflected as a pending refund accrued liability.

### Retirees and Beneficiaries

There were 44,723 retirees and beneficiaries receiving payments as of December 31, 2021. The table below presents age and benefit information as of the current valuation and for the past two years.

Item	December 31,		
	2021	2020	2019
Number of pensioners	44,723	43,597	42,486
Average age	70.2	70.0	69.8
Average annual benefit	\$ 23,181	\$ 22,775	\$ 22,339



**Table 2: Defined Benefit and Hybrid Municipalities and Participants - Historical Comparison**

Valuation Date Dec. 31,	No. of DB and Hybrid Municipalities	Active Participants				Vested Former Participants	
		Number	Annual Payroll	Average Pay	% Increase Avg. Pay	Number	Annual Benefits
1985	342	29,659	\$ 544,238,433	\$ 18,350		641	
1990	381	32,256	725,691,155	22,498		1,261	
1995	490	35,611	972,975,649	27,322		2,322	
2000	560	36,573	1,225,992,204	33,522		5,303	
2005	644	36,467	1,462,411,810	40,102		6,126	\$ 43,894,457
2010	715	35,816	1,683,983,258	47,018	2.3 %	6,961	60,836,793
2011	721	35,111	1,669,676,476	47,554	1.1	7,160	63,257,208
2012	726	34,187	1,640,390,877	47,983	0.9	7,262	66,638,525
2013	728	34,809	1,687,391,045	48,476	1.0	7,620	72,185,583
2014	728	35,302	1,743,799,124	49,397	1.9	7,690	77,919,750
2015	732	35,274	1,786,825,334	50,656	2.5	8,340	83,291,898
2016	735	34,843	1,779,919,980	51,084	0.8	8,252	85,220,062
2017	743	34,787	1,812,477,401	52,102	2.0	8,361	87,839,939
2018	745	33,891	1,812,758,776	53,488	2.7	8,605	93,258,513
2019	745	33,710	1,850,299,634	54,889	2.6	8,638	95,514,536
2020	742	32,314	1,851,572,891	57,299	4.4	8,663	97,289,982
2021	744	31,019	1,833,562,238	59,111	3.2	8,916	101,783,532

Table 2 provides a historical comparison of the number of active and vested former participants included in the actuarial valuations, along with the number of Defined Benefit Plan and Hybrid Plan municipalities.

Throughout this report are references to valuation results generated prior to the 2018 valuation date. Select results prior to 2018 were received directly from the prior actuary.

**Table 3: Benefits Being Paid to Retirees and Beneficiaries - Historical Comparison**

Valuation Date December 31,	Number of Retirees and Beneficiaries	Percent Increase in Retirees and Beneficiaries	Annual Retirement Allowances	Percent Increase in Retirement Allowances
1985	8,343		\$ 27,747,190	
1990	10,317		51,738,242	
1995	13,032		102,010,673	
2000	16,275		173,549,622	
2005	20,155		288,061,637	
2010	26,930	8.0 %	481,476,493	13.7 %
2011	28,202	4.7	520,998,787	8.2
2012	29,739	5.4	565,478,715	8.5
2013	32,460	9.1	628,103,333	11.1
2014	35,754	10.1	723,077,656	15.1
2015	37,467	4.8	778,114,296	7.6
2016	38,774	3.5	822,640,812	5.7
2017	40,148	3.5	866,696,664	5.4
2018	41,350	3.0	908,941,059	4.9
2019	42,486	2.7	949,112,105	4.4
2020	43,597	2.6	992,934,193	4.6
2021	44,723	2.6	1,036,715,292	4.4

Table 3 shows a historical comparison of the number of retirees and beneficiaries and the annual benefits paid to retirees and beneficiaries, together with various ratios.

## Chart 1: MERS Growth

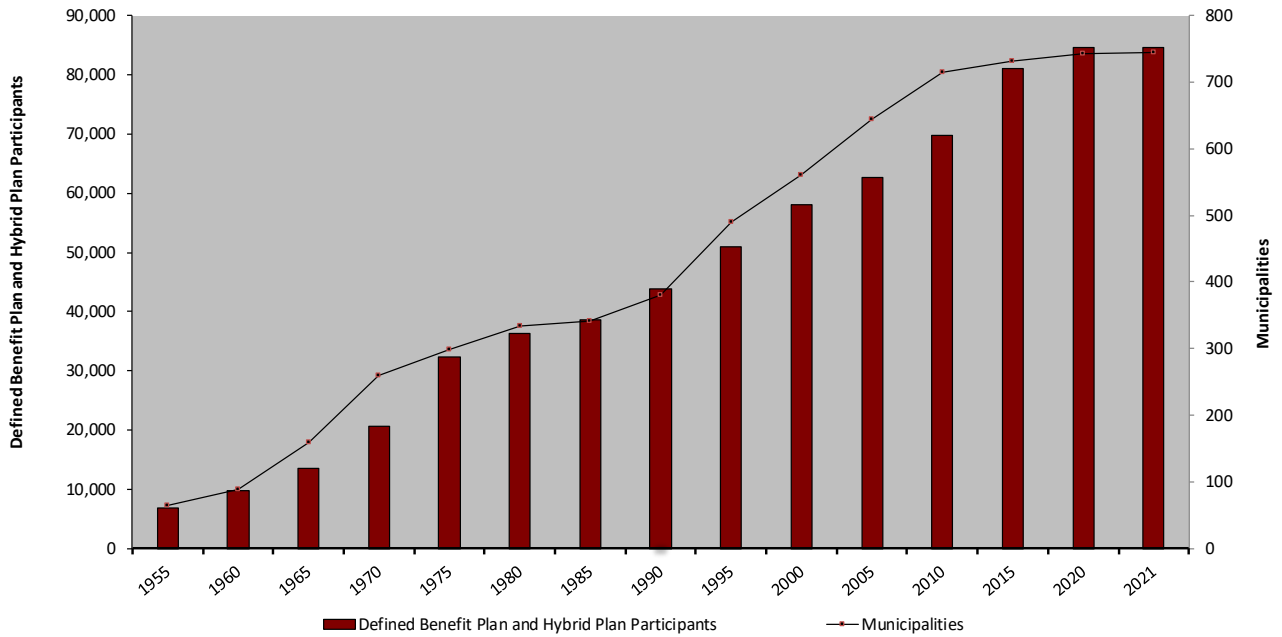


Chart 1 presents a comparison of the growth in MERS Defined Benefit Plan and Hybrid Plan municipalities to the growth in plan participants (active participants, vested former participants, and retirees and beneficiaries).

## Chart 2: MERS Composition

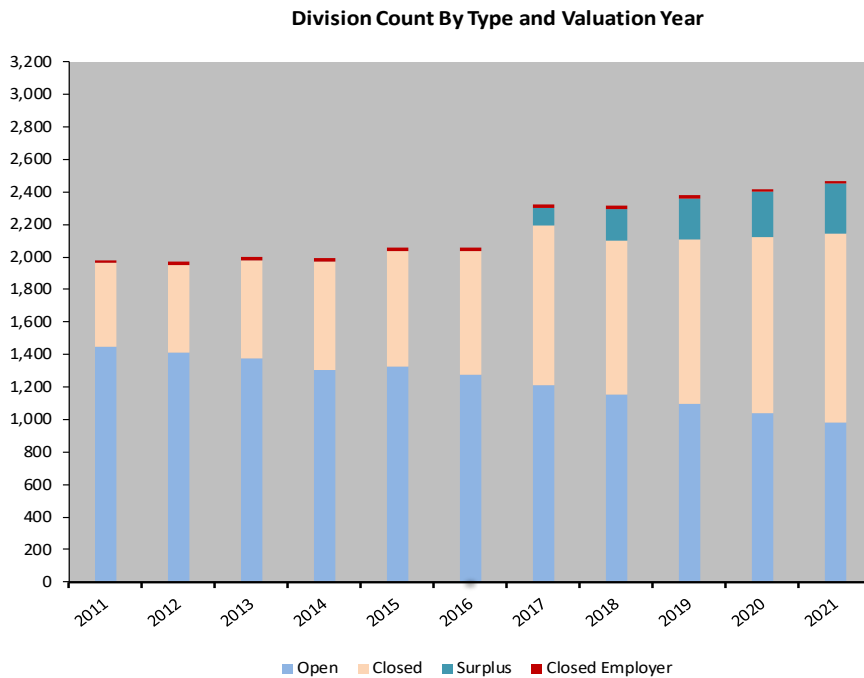


Chart 2 presents a comparison of the make-up of divisions within MERS. Closed linked divisions are excluded from the distribution above. Exclusion of closed linked divisions prevent a skew in distribution.

### Chart 3: MERS Composition (Continued)

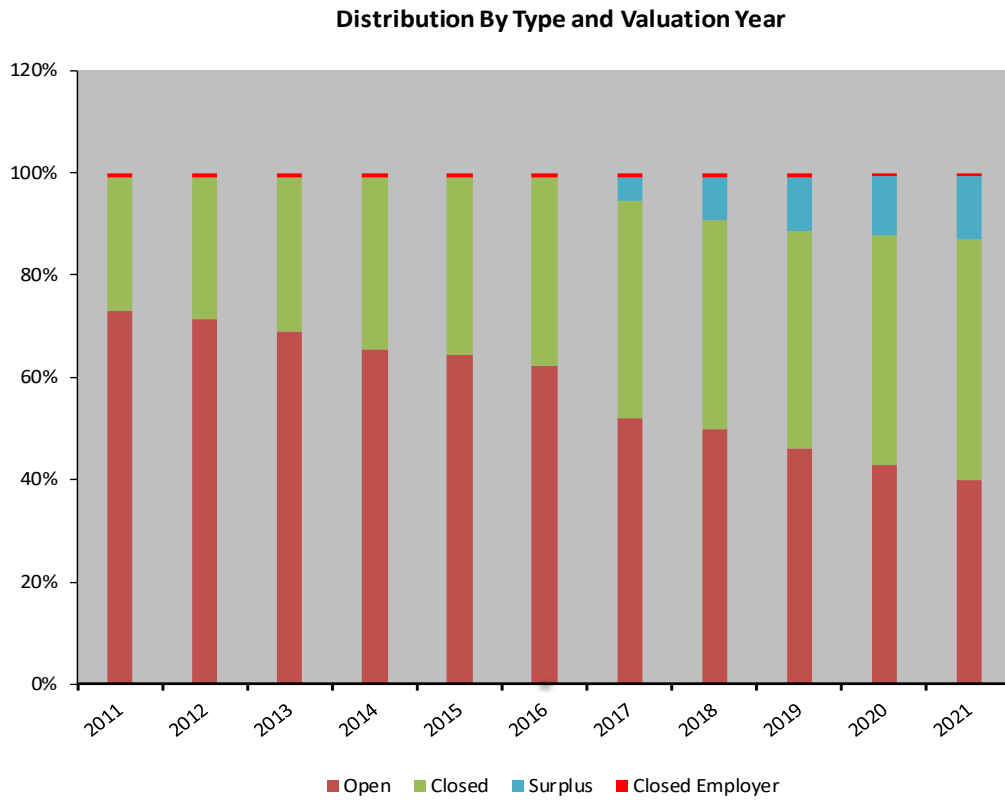


Chart 3 illustrates the composition of MERS by type. As of December 31, 2021 open divisions represent 40% of the divisions shown in Chart 2.

### Chart 4: Active and Retired Participants

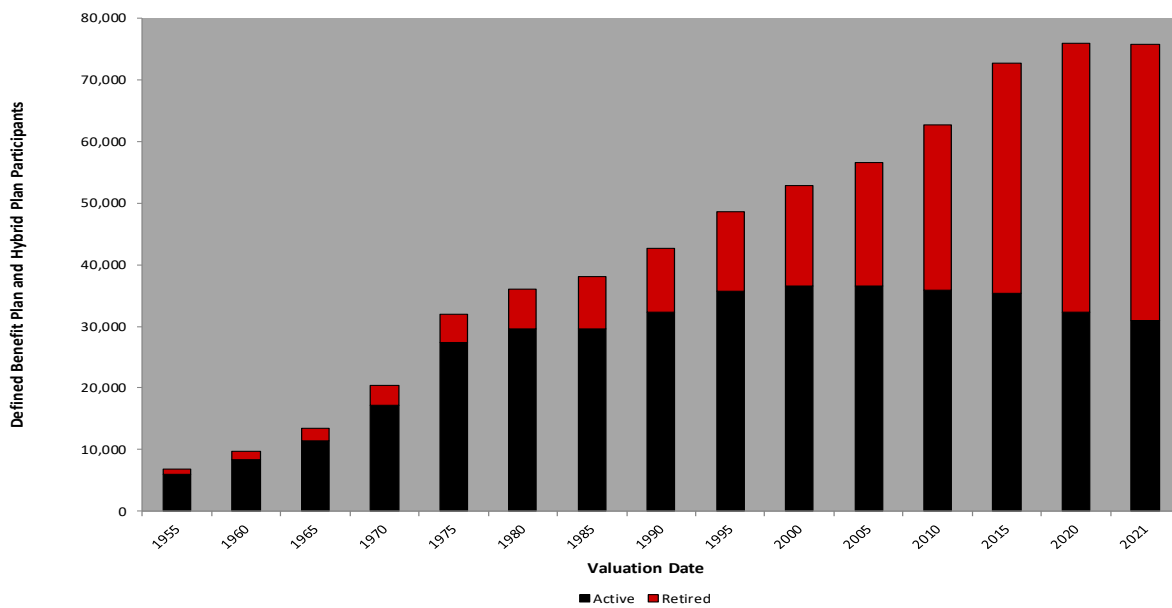
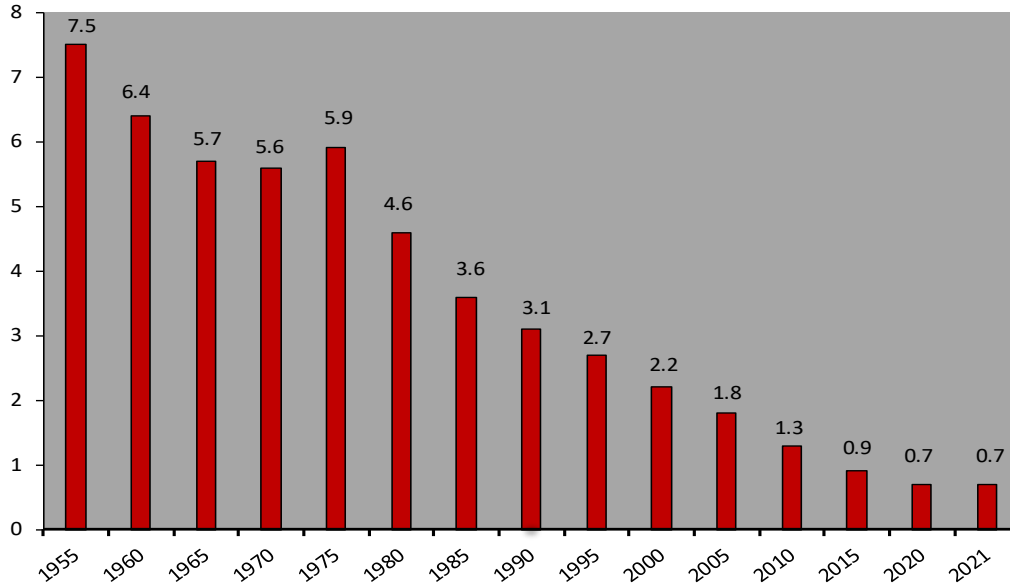


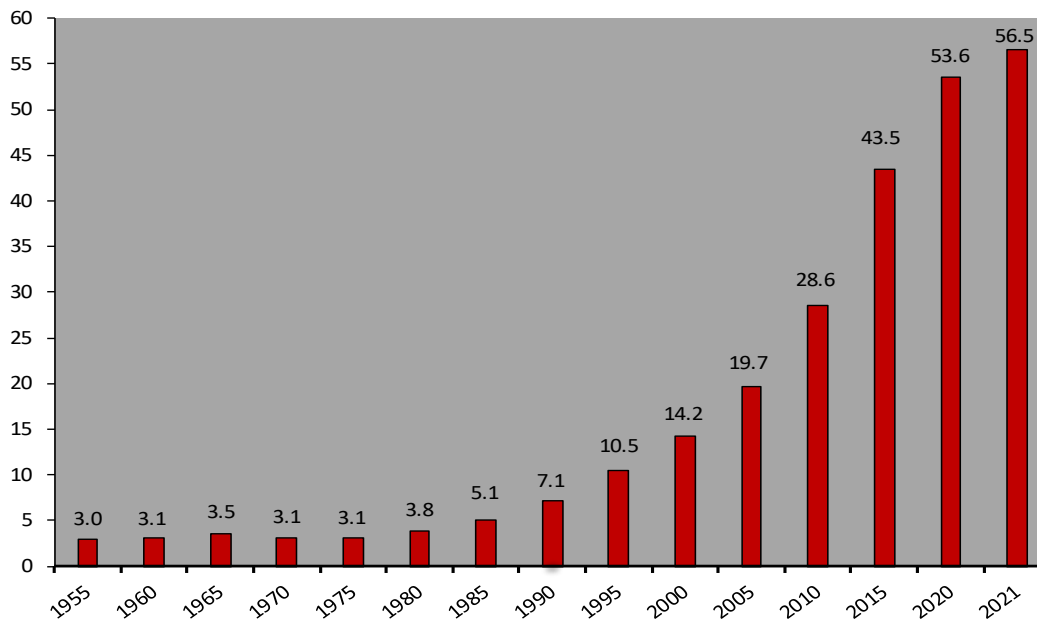
Chart 4 illustrates graphically the historical growth in the number of active participants and retirees and beneficiaries.



**Chart 5: Active Participants Per Pension Recipient**



**Chart 6: Retiree Benefits as a Percent of Active Pay**



Charts 5 and 6 illustrate how MERS has matured over the years. Over time the number of active participants per retiree has declined from over 7 to under 1. This ratio is expected to temporarily dip further below 1, due to employee divisions that are closed to new hires, but then eventually stabilize around 1 over the course of a generation or more. The benefit payout as a percentage of active payroll has increased to over 56%.

## Active Detail as of December 31, 2021

**Table 4: Number and Average Pay of Participants in Active Service by Age and Years of Benefit Service**

Age	Total	Years of Benefit Service						
		0-4	5-9	10-14	15-19	20-24	25-29	30 & Over
Total	31,019	10,960	6,800	3,556	3,452	3,640	1,577	1,034
	\$ 59,111	\$ 49,886	\$ 59,834	\$ 63,466	\$ 66,442	\$ 67,950	\$ 69,411	\$ 65,865
Under 20	64	64						
	\$ 32,635	\$ 32,635						
20-24	1,065	1,050	15					
	\$ 44,429	\$ 44,371	\$ 48,516					
25-29	2,516	2,059	455	2				
	\$ 52,443	\$ 51,158	\$ 58,258	\$ 52,856				
30-34	3,019	1,667	1,133	212	7			
	\$ 56,558	\$ 52,228	\$ 62,359	\$ 59,871	\$ 48,391			
35-39	3,511	1,374	1,147	677	296	16	1	
	\$ 60,040	\$ 51,030	\$ 62,084	\$ 70,705	\$ 69,192	\$ 66,593	\$ 60,275	
40-44	3,962	1,178	906	615	838	412	13	
	\$ 62,694	\$ 50,626	\$ 62,096	\$ 67,293	\$ 71,941	\$ 72,823	\$ 63,250	
45-49	4,403	1,041	796	540	692	1,040	288	6
	\$ 64,318	\$ 51,879	\$ 60,732	\$ 64,698	\$ 69,975	\$ 72,830	\$ 74,258	\$ 59,113
50-54	4,973	1,057	872	575	645	996	611	217
	\$ 62,459	\$ 50,396	\$ 58,601	\$ 60,914	\$ 64,783	\$ 69,545	\$ 73,400	\$ 70,576
55-59	4,099	873	733	467	521	698	405	402
	\$ 58,557	\$ 46,825	\$ 56,308	\$ 59,476	\$ 61,975	\$ 63,480	\$ 65,159	\$ 67,440
60-64	2,445	419	504	328	322	378	199	295
	\$ 57,245	\$ 48,850	\$ 56,753	\$ 57,398	\$ 58,978	\$ 57,874	\$ 61,792	\$ 64,078
65 & Over	962	178	239	140	131	100	60	114
	\$ 50,391	\$ 41,004	\$ 51,019	\$ 50,498	\$ 51,624	\$ 50,719	\$ 60,978	\$ 56,321

Table 4 shows the distribution of active participants by age and service and includes information on average compensation.

# Retiree and Beneficiary Detail as of December 31, 2021

**Table 5: Tabulated by Attained Ages**

<b>Age</b>	<b>Number</b>
Under 50	500
50 - 54	1,187
55 - 59	3,221
60 - 64	7,917
65 - 69	10,481
70 - 74	9,102
75 - 79	5,630
80 - 84	3,373
85 - 89	2,001
90 - 94	933
95 - 99	253
100 & Over	28
Certain Only <sup>1</sup>	97
<b>Total</b>	<b>44,723</b>

<sup>1</sup> These are beneficiaries of deceased retirees who had elected term certain and life options. The beneficiaries receive benefits until the end of the term certain period.

**Table 6: Tabulated by Average Annual Pension by Year of Retirement<sup>2,3</sup>**

<b>Year of Retirement</b>	<b>Number</b>	<b>Average Annual Pension</b>
Before 1970	8	\$ 4,444
1970 - 1979	132	8,812
1980 - 1989	1,144	12,223
1990 - 1999	5,107	19,182
2000 - 2009	12,507	24,540
2010 - 2019	20,640	23,831
2020-2022	5,185	24,065
<b>Total</b>	<b>44,723</b>	<b>23,181</b>

<sup>2</sup> As new divisions with existing retirees and beneficiaries join MERS, the year of retirement is set equal to the year the division joins MERS. This skews the number of retirees and beneficiaries as well as the average annual pension in years when this occurs.

<sup>3</sup> Reflects January 1 retirements for those that left employment on or before the valuation date.

## Retiree and Beneficiary Detail as of December 31, 2021

**Table 7: Allowances Being Paid: Tabulated by Type of Benefit**

Type of Benefit	Number of Retirees	Number as a Percent of Total	Total Monthly Benefits
Normal Retirement for age and service	36,821	82.3 %	\$ 76,149,369
Non-Duty Disability	1,107	2.5	1,632,458
Duty Disability	565	1.3	1,119,515
Beneficiaries <sup>1</sup>	5,298	11.8	6,327,266
Non-Duty Death	881	2.0	1,101,422
Duty Death	51	0.1	62,911
<b>Totals</b>	<b>44,723</b>	<b>100.0 %</b>	<b>\$ 86,392,941</b>

<sup>1</sup> Includes EDRO alternate payees.

**Table 8: Allowances Being Paid: Tabulated by Optional Form of Benefit**

Type of Benefit	Number of Retirees and Beneficiaries	Number as a Percent of Total	Total Monthly Benefits
Beneficiary draws 100% of retiree's benefit	14,562	32.6 %	\$ 29,519,270
Beneficiary draws 67% of retiree's benefit	3	0.0	12,816
Beneficiary draws 75% of retiree's benefit	3,181	7.1	8,148,288
Beneficiary draws 60% of retiree's benefit	394	0.9	1,469,246
Beneficiary draws 50% of retiree's benefit	6,221	13.9	14,094,134
Equated Option (changing at Social Security age)	296	0.7	304,460
5 year certain and life	339	0.8	598,923
10 year certain and life	796	1.8	1,611,761
15 year certain and life	296	0.7	513,385
20 year certain and life	604	1.4	975,540
Straight life allowance	18,031	40.3	29,145,118
<b>Totals</b>	<b>44,723</b>	<b>100.0 %</b>	<b>\$ 86,392,941</b>

## Provision Detail as of December 31, 2021

**Table 9: Valuation Divisions Tabulated by Valuation Year and Benefit Formula**

Benefit Formula	Number of Divisions with Benefit on December 31,		
	2021	2020	2019
<b>Flat Multiplier (Max varies)</b>			
Less than 1.50%	39	39	40
1.50% to less than 1.75%	231	231	234
1.75% to less than 2.00%	7	7	6
2.00% to less than 2.25%	408	406	413
2.25% to less than 2.50%	539	537	541
2.50% to less than 2.75%	858	867	875
2.75% and above	67	67	67
<b>Tiered Multiplier (Max varies)</b>			
By Service	36	36	35
By Age	46	46	46
By FAC	20	21	21
<b>Other</b>			
Frozen Benefits (Incl. Optional Freeze)	36	24	18
Old Plan Benefits	35	38	44
Other	0	0	0
Surplus Division	304	280	252
<b>Bridged Benefit (Frozen FAC; Grouped on Pre-Bridge Multiplier)</b>			
Less than 1.50%	0	0	0
1.50% to less than 1.75%	8	8	6
1.75% to less than 2.00%	0	0	0
2.00% to less than 2.25%	17	17	17
2.25% to less than 2.50%	27	27	25
2.50% to less than 2.75%	127	119	109
2.75% and above	22	22	22
Tiered Multiplier	18	18	18
Frozen Benefits	19	19	19
<b>Bridged Benefit (Termination FAC; Grouped on Pre-Bridge Multiplier)</b>			
Less than 1.50%	0	1	1
1.50% to less than 1.75%	2	2	2
1.75% to less than 2.00%	1	1	1
2.00% to less than 2.25%	1	1	1
2.25% to less than 2.50%	9	9	7
2.50% to less than 2.75%	12	12	11
2.75% and above	10	10	9
Tiered Multiplier	3	3	3
<b>Hybrid Plan</b>			
1.00% Multiplier	56	55	56
1.25% Multiplier	59	57	57
1.50% Multiplier	77	77	77
1.75% Multiplier	4	4	4
2.00% Multiplier	2	2	2
Frozen Benefits	3	3	3

Benefit Formula	Number of Divisions with Benefit on December 31,		
	2021	2020	2019
<b>Subtotals</b>			
Flat Multiplier (Max varies)	2,149	2,154	2,176
Tiered Multiplier (Max varies)	102	103	102
Other	375	342	314
Bridged Benefit (Frozen FAC; Grouped on Pre-Bridge Multiplier)	238	230	216
Bridged Benefit (Termination FAC; Grouped on Pre-Bridge Multiplier)	38	39	35
Hybrid Plan	201	198	199
<b>Total Divisions</b>	<b>3,103</b>	<b>3,066</b>	<b>3,042</b>

Table 9 shows the distribution of benefit provisions in effect for the 2021 and past two valuations. MERS is a multiple-employer plan, where each municipality decides its benefit structure.

# Provision Detail as of December 31, 2021

**Table 10: Additional Benefit Programs**

Benefit Program (Required)	No. of Divisions	Benefit Program (Optional)	No. of Divisions	Benefit Program (Optional)	No. of Divisions
<b>Normal Retirement</b>		<b>Unreduced Retirement (Age and Service)</b>		<b>COLA for Existing Retirees</b>	
50	5	49/20	1	0.50% (Non-Compound)	1
52	3	50/20	3	1.40% (Non-Compound) payable for 10 years	4
55	48	50/25	482	2.00% (Non-Compound)	1
58	7	50/28	1	2.50% (Non-Compound)	288
59	2	50/30	6	2.00% (Compound)	25
60	2,691	52/25	1	2.00% (Compound) payable Years 6-15	1
62	6	53/25	6	2.00% (Compound; CPI Limit)	1
65	2	55/10	10	CPI (Compound; 3% Limit) to Age 65	2
Old Plan Benefits	35	55/15	348	CPI (Compound; 4% Limit)	1
Surplus	304	55/20	262	\$300 Annual Flat Dollar	1
		55/25	757	Varies	3
		55/30	72	COLA for Future Retirees	
<b>Early (Reduced) Retirement</b>		57/25	2	<b>0.50% (Non-Compound)</b>	1
0/25 or 55/10	1	60/10	7	1.00% (Non-Compound)	9
50/25 or 55/10	7			1.40% (Non-Compound) payable for 10 years	4
50/25 or 55/15	1,608	<b>Unreduced Retirement (Service)</b>		1.50% (Non-Compound)	1
52/25 or 57/15	6	6 & out	1	2.00% (Non-Compound)	5
55/25 or 60/15	1	20 & out	22	2.50% (Non-Compound)	680
50/25	256	21 & out	1	2.50% (Non-Compound) commencing at age 54	2
55/10	6	22 & out	4	1.00% (Compound)	1
55/15	519	23 & out	5	2.00% (Compound)	24
None	360	25 & out	159	Bridged COLA	
Old Plan Benefits	35	30 & out	13	2.50% (Non-Compound) before, 0.00% after	31
Surplus	304				
				<b>D2 Provisions</b>	
<b>Vesting</b>		<b>Unreduced Retirement (Points)</b>		<b>D2 (25%)</b>	81
3 years	1	Rule of 65	2	D2 (50%)	4
5 years	35	Rule of 80	3	D2 (55%)	1
6 years	648	Rule of 85	6	D2 (67%)	17
7 years	3			D2 (70%)	11
8 years	220	<b>Survivor Provisions</b>		D2 (50% Dth; 67% Dsb)	1
10 years	1,841	RS 50%	159	D2 (67% Dth; 50% Dsb)	17
15 years	16	RS 60%	23	D2 No Svc Proj	18
Old Plan Benefits	35	RS 100%	1		
Surplus	304	RS 75%	2	<b>Disability and Death Provisions</b>	
		Sub. 75%	15	<b>DD 50% FAC Min</b>	2
<b>FAC Period</b>		<b>Other Provisions</b>		DD 80% FAC Min	1
2 years	13	PRO	1	Dty Dsb 65% FAC Min	1
3 years	1,296	SLIF	107	Non Dty Dsb 25% FAC Min	6
4 years	3	AWD TBill	31	Non Dty Dsb 55% FAC Min	1
5 years	1,430	AWD (Valuation Interest Rate)	5	NDD15% FAC Min	17
2 out of 10	1	DROP+ (4%)	2	NDD25% FAC Min	6
3 out of 10	4	DROP: Traditional	3	NDD55% FAC Min	1
5 out of 10	6	Max \$ FAC	4	NDD/Dsb Elg: 1 year	6
3 out of 5	11	Late Retirement	6	Non Dty Dsb Elg: 5 years	2
Old Plan Benefits	35	Deferred GrowNRD	11	Non Dty Dsb Elg: 10 years	10
Surplus	304	Deferred Other	1	Dty Dsb: Alt Svc Proj	5
				Non Dty Dsb: Svc Proj	2

Table 10 shows the distribution of Additional Benefit Programs in effect (by division) for the 2021 valuation. MERS is a multiple-employer plan, where each municipality decides its benefit structure.



### III. Actuarial Value of Assets

For actuarial valuation purposes, the actuarial value of assets is determined on the basis of a valuation method that assumes the fund earns the expected rate of return (7.35% for the year ending December 31, 2021, 7.00% beginning calendar year 2022). This procedure was instituted for the December 31, 2005 valuation and further modified with the 2015 experience study, and February 17, 2022 adoption of a Dedicated Gains policy. The procedure is applied as follows:

- (i) Preliminary value is determined by taking the sum of the actuarial value at the beginning of the year and the excess of income over expenses during the year, assuming that the fund earns the assumed rate during the year.
- (ii) This value is written-up or written-down by recognizing 20% of the current year's difference between actual and expected return and 20% of that difference for the 4 prior years. Actual return for the year includes interest, dividends, realized and unrealized gains or losses, net of administrative and investment expenses.
- (iii) The Dedicated Gains policy applies to market gains remaining after recognition of the current year's asset gain (loss). If the preliminary value is between 80% and 120% of the market value of assets, as of the same date, remaining market gains are used to buy down the assumed rate of return.

For the December 31, 2021 valuation, this procedure produced an actuarial asset value that is equal to 99.85% of market value. The table below shows a brief historical comparison of this ratio.

<u>Valuation Year</u>	<u>Actuarial Asset Value as a % of Market Value</u>
2021	99.85%
2020	97.24%
2019	101.32%
2018	109.53%
2017	101.13%

On page 38 of Appendix E (on the MERS website at: [Appendix](#)) we have illustrated the development of the actuarial value of assets for the December 31, 2017 through December 31, 2021 actuarial valuations.

## IV. Employer Contributions and Funded Status as of December 31, 2021

**Table 11: Computed Employer Contribution Rates  
(Includes Open Divisions with Assets and/or Liabilities)**

Benefit Formula	Contributory Groups			Non-Contributory Groups		Total Groups	
	No. of Divisions	Member Contrib. Avg. %	Employer Contrib. Avg. %	No. of Divisions	Employer Contrib. Avg. %	No. of Divisions	Employer Contrib. Avg. %
<b>Flat Multiplier (Max varies)</b>							
Less than 1.50%	15	4.96%	0.72%	11	7.41%	26	1.17%
1.50% to less than 1.75%	130	4.65%	5.25%	35	9.32%	165	5.69%
1.75% to less than 2.00%	4	7.02%	3.42%	1	7.47%	5	4.24%
2.00% to less than 2.25%	135	5.15%	9.58%	49	16.10%	184	11.32%
2.25% to less than 2.50%	108	5.05%	16.75%	34	16.30%	142	16.59%
2.50% to less than 2.75%	136	7.77%	23.09%	42	40.02%	178	25.76%
2.75% and above	13	7.61%	33.42%	1	33.89%	14	33.44%
<b>Tiered Multiplier (Max varies)</b>							
By Service	14	8.90%	24.71%	0	0.00%	14	24.71%
By Age	11	5.09%	13.12%	4	21.28%	15	13.86%
By FAC	3	3.04%	5.36%	3	5.85%	6	5.45%
<b>Bridged Benefit (Frozen FAC; Grouped on Pre-Bridge Multiplier)</b>							
Less than 1.50%	0	0.00%	0.00%	0	0.00%	0	0.00%
1.50% to less than 1.75%	6	4.85%	6.41%	1	0.00%	7	6.26%
1.75% to less than 2.00%	0	0.00%	0.00%	0	0.00%	0	0.00%
2.00% to less than 2.25%	4	3.80%	11.68%	1	19.87%	5	11.79%
2.25% to less than 2.50%	4	6.44%	19.09%	0	0.00%	4	19.09%
2.50% to less than 2.75%	22	6.92%	18.33%	3	19.64%	25	18.41%
2.75% and above	9	10.99%	55.33%	0	0.00%	9	55.33%
Tiered Multiplier	0	0.00%	0.00%	0	0.00%	0	0.00%
<b>Bridged Benefit (Termination FAC; Grouped on Pre-Bridge Multiplier)</b>							
Less than 1.50%	0	0.00%	0.00%	0	0.00%	0	0.00%
1.50% to less than 1.75%	1	4.00%	0.00%	0	0.00%	1	0.00%
1.75% to less than 2.00%	0	0.00%	0.00%	0	0.00%	0	0.00%
2.00% to less than 2.25%	1	6.00%	13.33%	0	0.00%	1	13.33%
2.25% to less than 2.50%	4	15.88%	23.36%	0	0.00%	4	23.36%
2.50% to less than 2.75%	2	5.06%	12.14%	0	0.00%	2	12.14%
2.75% and above	1	17.00%	38.22%	0	0.00%	1	38.22%
Tiered Multiplier	0	0.00%	0.00%	1	0.00%	1	0.00%
<b>Hybrid Plan</b>							
1.00% Multiplier	0	0.00%	0.00%	52	5.22%	52	5.22%
1.25% Multiplier	0	0.00%	0.00%	42	6.02%	42	6.02%
1.50% Multiplier	2	0.19%	9.89%	64	7.99%	66	8.17%
1.75% Multiplier	0	0.00%	0.00%	4	7.17%	4	7.17%
2.00% Multiplier	0	0.00%	0.00%	0	0.00%	0	0.00%
<b>Total</b>	<b>625</b>	<b>5.92%</b>	<b>14.05%</b>	<b>348</b>	<b>12.23%</b>	<b>973</b>	<b>13.45%</b>

Table 11 provides a distribution of average employer and employee contribution rates by type of benefit program. This information is shown on a divisional basis. MERS is a multiple-employer plan, where each municipality decides its benefit structure.



## Chart 7: Distribution of Funded Percentage of Actuarial Accrued Liability

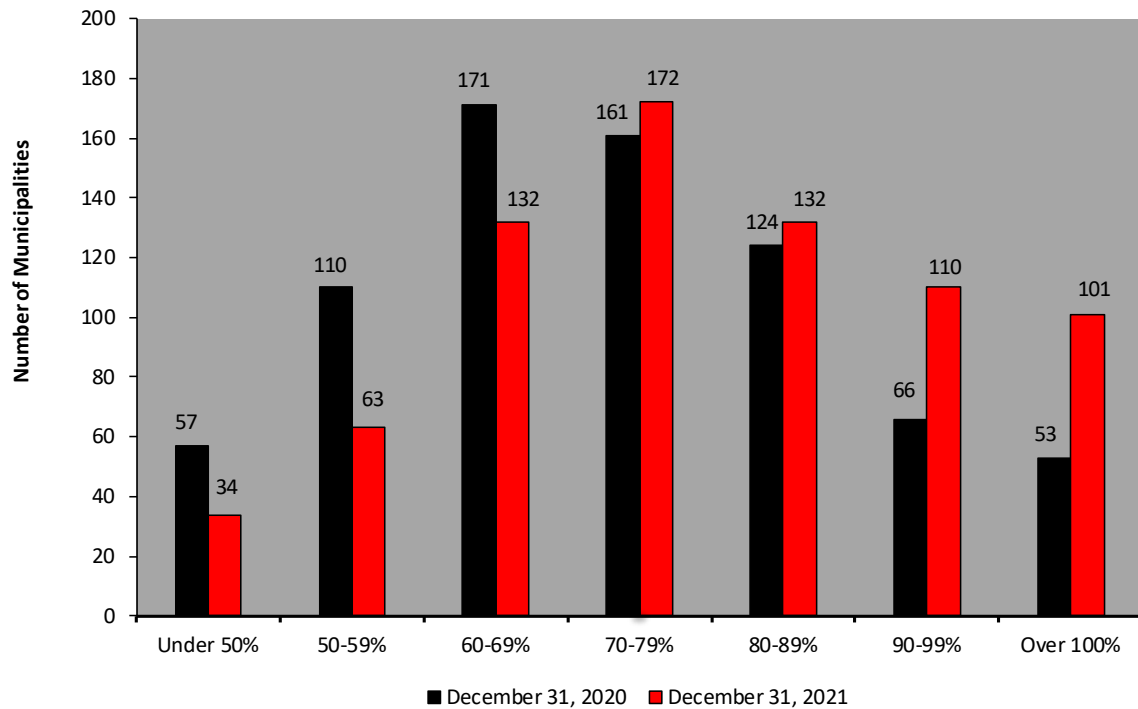


Chart 7 provides a distribution of the municipalities by funded percentage of the entire municipality, comparing the 2021 and 2020 valuation years. As of December 31, 2021:

- 647 municipalities are funded at 60% or higher. This represents 87% of all municipalities.
- 101 municipalities are funded at 100% or more. This represents 13.6% of all municipalities.
- The median funded percentage is 78% in 2021 and 71% in 2020.

This distribution includes 744 municipalities as of December 31, 2021 and 742 as of December 31, 2020.

## Chart 8: Distribution of Divisions by Employer Contribution Rate (Includes Open Divisions)

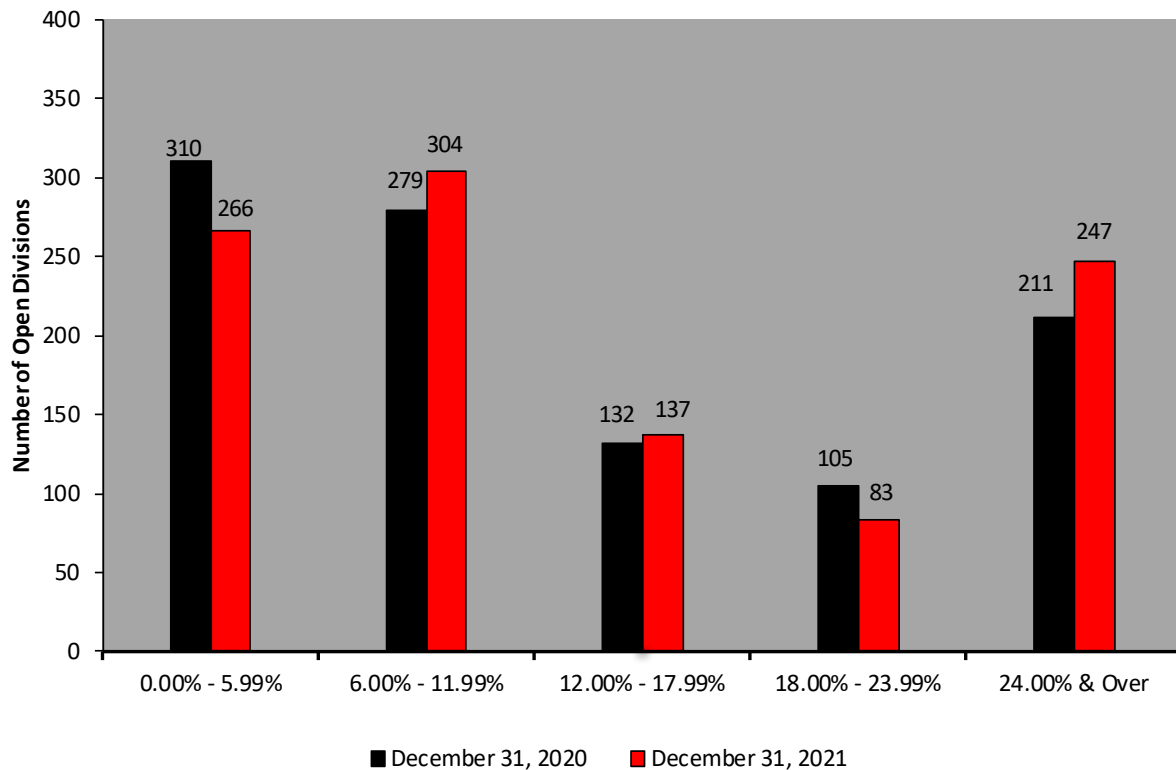


Chart 8 provides a distribution of divisions by employer contribution rate (as a percentage of payroll) for divisions that are open to new hires, comparing 2021 and 2020. Note that:

- The median employer contribution rate, for all open divisions, is 9.8% in the 2021 valuations, compared to 9.97% in the 2020 valuations.
- Employer contribution rates vary between divisions as a result of differences in demographics, benefit provisions, and cost-sharing arrangements.
- The divisions with very high employer contribution rates are generally small divisions that have experienced a decline in the number of active employees (unfunded liabilities are then spread over a smaller payroll, leading to a higher contribution rate).

## V. Employer Risk Measures as of December 31, 2021

### Overview

Determination of the accrued liability, the employer contribution, and the funded ratio requires the use of assumptions regarding future economic and demographic experience. Risk measures, as illustrated in this report, are intended to aid in the understanding of the effects of future experience differing from the assumptions used in the course of the actuarial valuation. Risk measures may also help with illustrating the potential volatility in the accrued liability, the actuarially determined contribution and the funded ratio that result from the differences between actual experience and the actuarial assumptions.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions due to changing conditions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period, or additional cost or contribution requirements based on the Plan's funded status); and changes in plan provisions or applicable law. The scope of an actuarial valuation does not include an analysis of the potential range of such future measurements.

Examples of risk that may reasonably be anticipated to significantly affect the plan's future financial condition include:

- **Investment Risk** – actual investment returns may differ from the expected returns;
- **Asset/Liability Mismatch** – changes in asset values may not match changes in liabilities, thereby altering the gap between the accrued liability and assets and consequently altering the funded status and contribution requirements;
- **Salary and Payroll Risk** – actual salaries and total payroll may differ from expected, resulting in actual future accrued liability and contributions differing from expected;
- **Longevity Risk** – participants may live longer or shorter than expected and receive pensions for a period of time other than assumed; and
- **Other Demographic Risks** – participants may terminate, retire or become disabled at times or with benefits other than assumed resulting in actual future accrued liability and contributions differing from expected.

The effects of certain trends in experience can generally be anticipated. For example, if the investment return since the most recent actuarial valuation is less (or more) than the assumed rate, the cost of the plan can be expected to increase (or decrease). Likewise if longevity is improving (or worsening), increases (or decreases) in cost can be anticipated.

## Plan Maturity Measures

All retirement plans have a life-cycle. A simple example is of a single individual saving for retirement. Early on in the individual's career, they generally start with little to no assets set aside for retirement. Retirement savings accumulate during the individual's career and may reach their highest point right before retirement. Once the individual retires, retirement assets are drawn down over their remaining lifetime.

Defined benefit or hybrid plans generally cover several individuals at various points in their lives. Plan maturity for defined benefit and hybrid plans may be measured in many different ways. Risks facing a pension plan evolve with plan maturity. A young plan with virtually no investments and paying few benefits may experience little investment risk. An older plan with a large number of participants in pay status and a significant trust may be much more exposed to investment risk.

The December 31, 2021 Annual Actuarial Valuation (AAV) reports for each participating MERS employer include several measures of plan maturity:

- The ratio of the market value of assets to payroll,
- The ratio of actuarial accrued liability to payroll,
- The ratio of actives to retirees and beneficiaries,
- The ratio of market value of assets to benefit payments, and
- The ratio of net cash flow as a percentage of assets.

This report contains a listing of these metrics from each participating MERS employer as well as summary information. These metrics in the AAVs and this report are significant to understanding the risks associated with the plans. The following discussion elaborates on the potential significance of each of these metrics.

## Market Value of Assets over Payroll

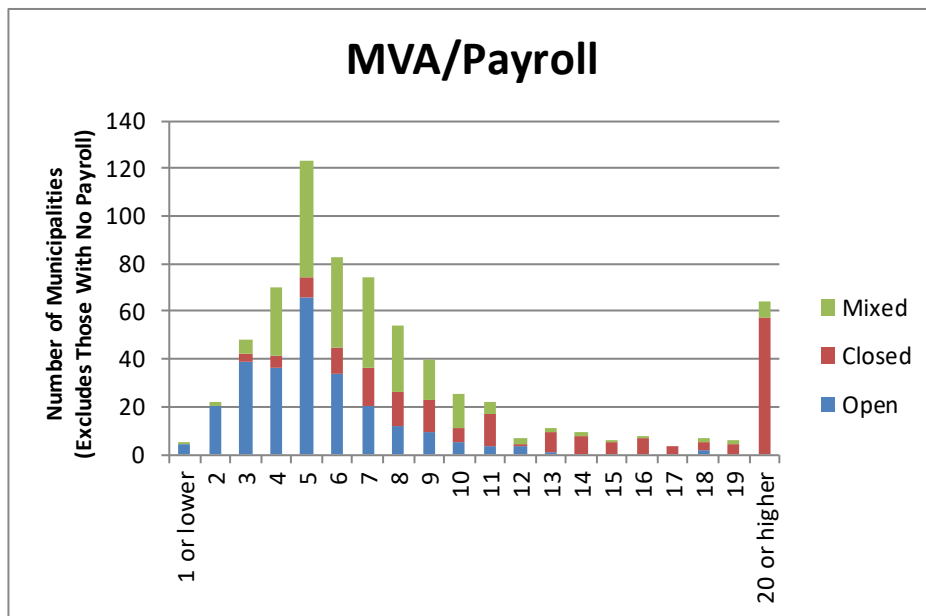
The ratio of the Market Value of Assets (MVA) over active payroll provides an indication of the size of the plan relative to the size of the employer. As a plan matures and assets accumulate, this ratio generally increases. For plans that have a large portion of retirees or a declining payroll (e.g., if the plan is closed to new hires), this ratio can get quite high. This measure is not provided for plans with no active payroll.

The relationship between assets and payroll is a useful indicator of the potential volatility of contributions. For example, if the market value of assets is 2.0 times the payroll, a return on assets 5% different than assumed would equal 10% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in plan sponsor contributions as a percentage of payroll. Differences in experience are generally funded by employer contributions under the MERS Actuarial Policy.

It is important to understand that while a higher ratio of MVA to payroll may indicate more investment risk exposure to the plan sponsor, there may be circumstances when a higher ratio is a desired outcome for plan funding purposes. For example, if a plan has a low funded status and subsequently receives a large cash infusion, the plan's ratio of MVA to payroll will increase immediately after receiving those proceeds. Conversely, a plan with no assets would have a metric of 0 (i.e., if nothing is invested, there is no investment risk), but an unfunded plan provides little to no security for the participants' benefits.

As of December 31, 2021, there were 688 employers with non-zero payroll. The median ratio of the market value of assets to payroll was 5.9. The median ratio varied considerably depending on whether or not the plan as a whole had all divisions open to new hires (and therefore a growing payroll), all divisions closed to new hires (and therefore a declining payroll), or mixed. If a plan is closed or mixed, the plan payroll may not be representative of the employer as a whole and may result in higher MVA to payroll measures. The median ratio was 4.6 for plans with all open divisions and 12.4 for plans with all divisions closed, over twice as high.

**Chart 9: Distribution of Market Value of Assets over Payroll**



**MVA/Payroll - Current Year**

	<u>Count</u>	<u>Median</u>
Closed Employer <sup>1</sup>	13	N/A
Open Employer, All Divisions Open	254	4.6
Open Employer, All Divisions Closed	187	12.2
Open Employer, Mix of Open and Closed Divisions	246	5.9
Subtotal	700	5.9
No Payroll <sup>1</sup>	44	N/A
Total	744	5.9

<sup>1</sup> Employers with no payroll were excluded from the chart.

**MVA/Payroll - History**

	<u>Median</u>			
	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>
Closed Employer	N/A	N/A	N/A	N/A
Open Employer, All Divisions Open	4.6	4.1	3.7	3.4
Open Employer, All Divisions Closed	12.2	10.7	10.7	9.3
Open Employer, Mix of Open and Closed Divisions	5.9	5.2	4.9	4.6
Subtotal	5.9	5.3	4.8	4.4

## Actuarial Accrued Liability over Payroll

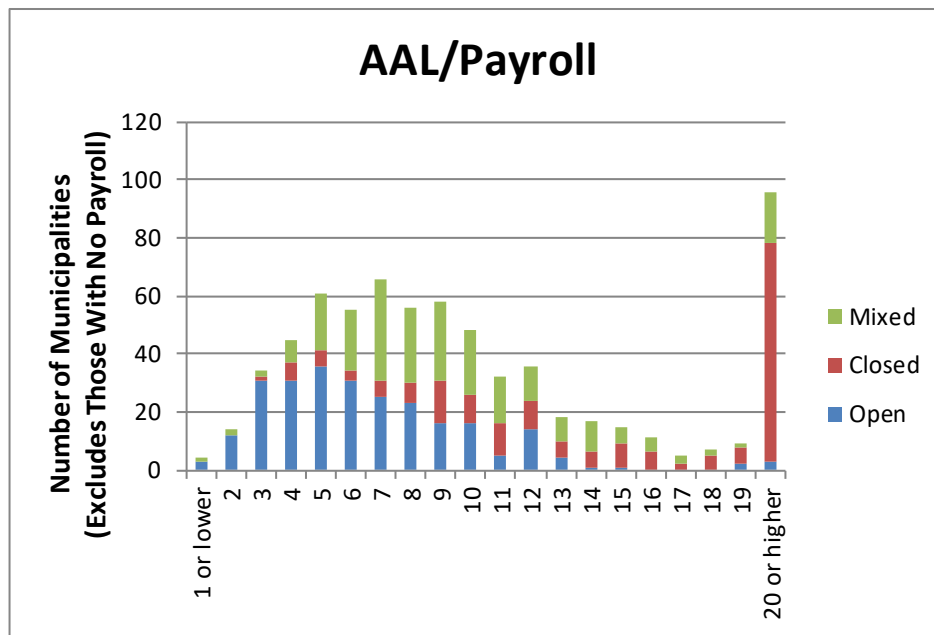
The relationship between actuarial accrued liability and payroll is a useful indicator of the potential volatility of contributions for a fully funded plan. A funding policy that targets a funded ratio of 100% is expected to result in the ratio of assets to payroll and the ratio of liability to payroll converging over time.

Similar to the ratio of MVA to payroll described previously, as a plan matures and liability accumulates, the ratio of AAL to payroll generally increases. For plans that have a large portion of retirees or a declining payroll (e.g., if the plan is closed to new hires), this ratio can get quite high. This measure is not provided for plans with no active payroll.

The ratio of the AAL to payroll gives an indication of ultimate investment risk borne by the plan sponsor when the plan is fully funded (similar to the ratio of MVA to payroll). Moreover, this ratio gives an indication of other liability risks borne by the plan sponsor. For example, if the ratio of AAL over payroll is 3.0 and the plan experiences 1% change in liability from expected in a given year, the resulting liability gain or loss would be 3% of payroll. The greater the ratio, the greater the impact of gains and losses on plan funding. Differences in experience are generally funded by employer contributions under the MERS Actuarial Policy.

As of December 31, 2021, there were 688 employers with non-zero payroll. The median ratio of the actuarial accrued liability to payroll was 8.1. The median ratio varied considerably depending on whether or not the plan as a whole had all divisions open to new hires (and therefore a growing payroll), all divisions closed to new hires (and therefore a declining payroll), or mixed. If a plan is closed or mixed, the plan payroll may not be representative of the employer as a whole and may result in higher AAL to payroll measures. The median ratio was 5.4 for plans with all open divisions and 15.2 for plans with all divisions closed, over twice as high.

**Chart 10: Distribution of Actuarial Accrued Liability over Payroll**



**AAL/Payroll - Current Year**

	<u>Count</u>	<u>Median</u>
Closed Employer <sup>1</sup>	13	N/A
Open Employer, All Divisions Open	254	5.4
Open Employer, All Divisions Closed	187	15.1
Open Employer, Mix of Open and Closed Divisions	246	8.1
Subtotal	700	8.1
No Payroll <sup>1</sup>	44	N/A
Total	744	8.1

<sup>1</sup> Employers with no payroll were excluded from the chart.

**AAL/Payroll - History**

	<u>Median</u>			
	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>
Closed Employer	N/A	N/A	N/A	N/A
Open Employer, All Divisions Open	5.4	5.3	5.1	5.0
Open Employer, All Divisions Closed	15.1	14.0	14.5	13.4
Open Employer, Mix of Open and Closed Divisions	8.1	8.0	7.8	7.8
Subtotal	8.1	7.7	7.2	6.8



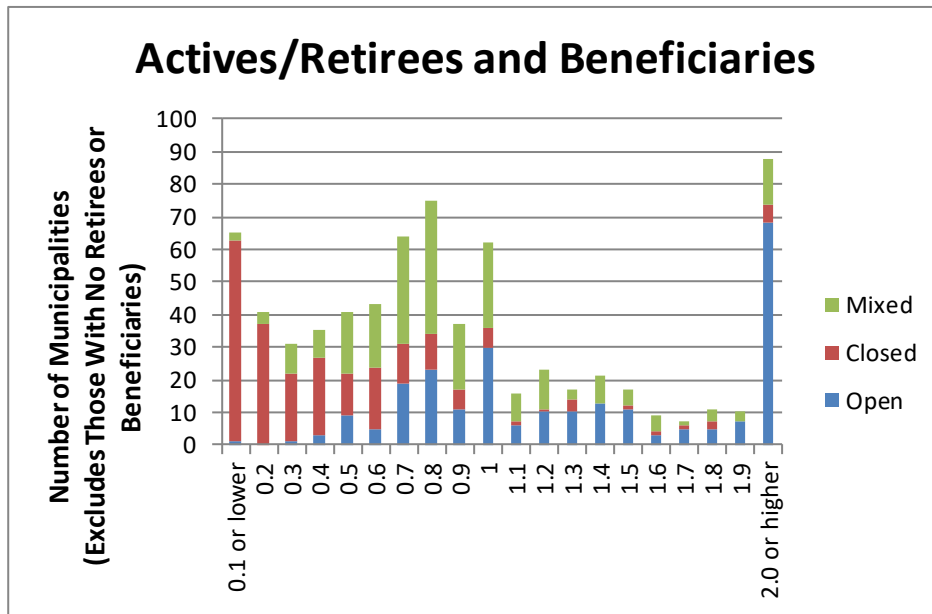
## Actives over Retirees and Beneficiaries

A young plan with many active participants and few retirees will have a high ratio of actives to retirees. A mature open plan may have close to the same number of actives to retirees resulting in a ratio near 1.0. A super-mature or closed plan may have significantly more retirees than actives resulting in a ratio below 1.0.

Very generally speaking, a higher ratio indicates that there are more participants “paying in” to the system than “drawing out” of the system. For purposes of actuarial funding as a percentage of payroll, plans with a higher ratio may be expected to have a relatively larger payroll base and consequently may experience less contribution volatility as a percentage of payroll than a plan with a low ratio.

As of December 31, 2021, there were 726 employers with a non-zero retiree and beneficiary count. The median ratio of actives to retirees and beneficiaries was 0.7. The median ratio varied depending on whether or not the plan as a whole had all divisions open to new hires (and therefore a more stable number of actives), all divisions closed to new hires (and therefore a declining active headcount), or mixed. If a plan is closed or mixed, the number of actives may not be representative of the employer as a whole and may result in lower active to retiree and beneficiary measures. The median ratio was 1.2 for plans with all open divisions and 0.3 for plans with all divisions closed, almost a third as high.

**Chart 11: Distribution of Actives over Retirees and Beneficiaries**



**Actives/Retirees and Beneficiaries - Current Year**

	<u>Count</u>	<u>Median</u>
Closed Employer	13	0.0
Open Employer, All Divisions Open	240	1.2
Open Employer, All Divisions Closed	228	0.3
Open Employer, Mix of Open and Closed Divisions	245	0.8
Subtotal	726	0.7
No Retirees and Beneficiaries <sup>1</sup>	18	N/A
<b>Total</b>	<b>744</b>	<b>0.7</b>

<sup>1</sup> Employers with no retirees or beneficiaries were excluded from the chart.

**Actives/Retirees and Beneficiaries - History**

	<u>Median</u>			
	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>
Closed Employer	0.0	0.0	0.0	0.0
Open Employer, All Divisions Open	1.2	1.3	1.4	1.3
Open Employer, All Divisions Closed	0.3	0.3	0.3	0.3
Open Employer, Mix of Open and Closed Divisions	0.8	0.8	0.8	0.8
Subtotal	0.7	0.8	0.9	0.9

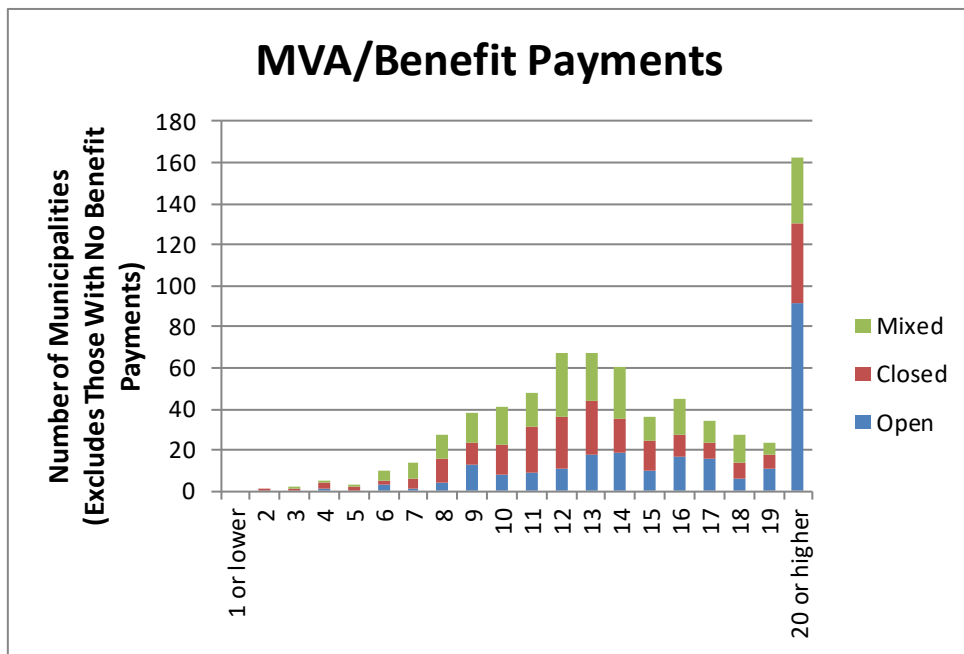
## Market Value of Assets over Benefit Payments

The MERS' Actuarial Policy requires a total minimum contribution equal to the excess (if any) of three times the expected annual benefit payments over the projected market value of assets as of the participating municipality or court's Fiscal Year for which the contribution applies. The ratio of market value of assets to benefit payments as of the valuation date provides an indication of whether the division is at risk for triggering the minimum contribution rule in the near term. If the division triggers this minimum contribution rule, the required employer contributions could increase dramatically relative to previous valuations.

Very generally speaking, this ratio indicates how many years of benefits could be paid from assets at the current amount assuming no future contributions or investment return. Under the current actuarial assumptions, a fully funded, one-person plan with a 60-year-old retiree with a straight life annuity would have a ratio of approximately 11.4. In this scenario, the assets would be sufficient to pay this retiree's benefit for the rest of his or her life if all assumptions are met, including achieving a 7.00% rate of return each year and surviving each year as expected under the mortality assumption. Different plans may have higher or lower ratios; however, plans with a very low ratio are generally at increased risk of failing to pay benefits without a potentially significant increase in contributions.

As of December 31, 2021, there were 726 employers with non-zero benefit payments. The median ratio of MVA to benefit payments was 13.7. The median ratio varied depending on whether or not the plan as a whole had all divisions open to new hires (and therefore a more stable number of actives), all divisions closed to new hires (and therefore a larger portion of retirees), or mixed. If a plan is closed or mixed, the plan may be maturing, mature, or super mature. The median ratio was 16.3 for plans with all open divisions and 12.5 for plans with all closed divisions.

**Chart 12: Distribution of Market Value of Assets to Benefit Payments**



**MVA/Benefit Payments - Current Year**

	<b>Count</b>	<b>Median</b>
Closed Employer	13	14.2
Open Employer, All Divisions Open	240	16.3
Open Employer, All Divisions Closed	227	12.5
Open Employer, Mix of Open and Closed Divisions	245	12.7
Subtotal	725	13.7
No Benefit Payments <sup>1</sup>	19	39.2
<b>Total</b>	<b>744</b>	<b>13.7</b>

<sup>1</sup> Employers with no benefit payments were excluded from the chart.

**MVA/Benefit Payments - History**

	<b>Median</b>			
	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>
Closed Employer	14.2	14.2	13.4	12.4
Open Employer, All Divisions Open	16.3	15.2	14.0	13.0
Open Employer, All Divisions Closed	12.5	11.8	11.4	11.0
Open Employer, Mix of Open and Closed Divisions	12.7	11.8	11.0	9.9
Subtotal	13.7	12.8	12.2	11.4

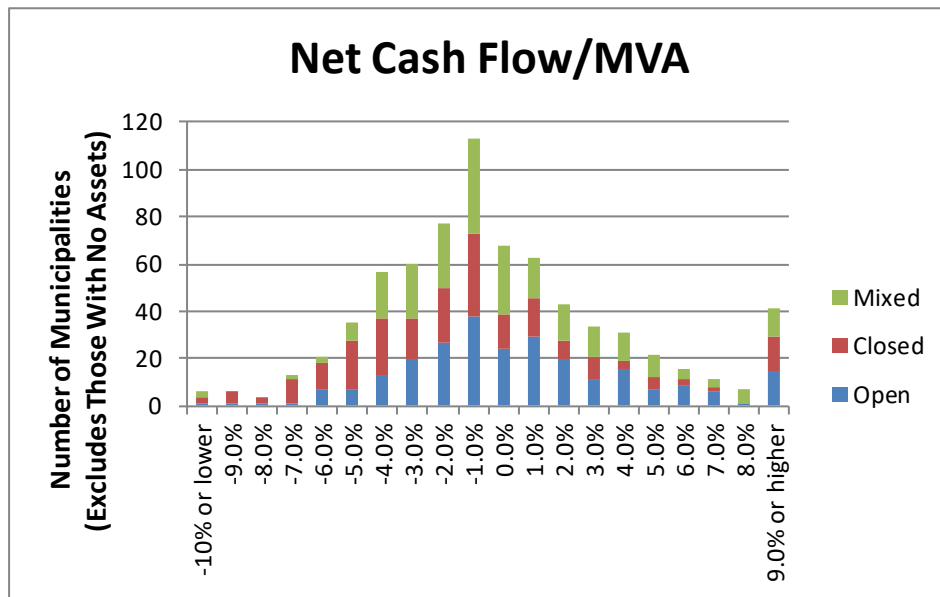
## Net Cash Flow as a Percent of Market Value of Assets

The ratio of the net cash flow as a percent of the Market Value of Assets (MVA) gives a rough indication of the draw down of assets disregarding investment return and expense. Net cash flow is defined as employer and employee contributions minus benefit payments. Ultimately, the purpose of prefunding is to have the return on plan assets pay a portion of the benefits each year. In other words, the expectation is that in the long run the net cash flow will be negative as a percent of MVA. A young plan may be receiving more contributions than paying benefits during the accumulation phase of plan funding and therefore may have a positive net cash flow as a percent of assets. Similarly, a mature or super-mature plan may be paying out more in benefits and have a negative ratio of net cash flow as a percent of assets.

In general, if the ratio of net cash flow as a percent of MVA is more negative than the rate of return in the plan, the assets will decrease. A large, negative net cash flow may indicate increased risk of the sufficiency of plan assets to pay benefits when due. For example, a plan with a ratio of net cash flow over MVA of -10.00% that achieves a 7.00% rate of return for the year would experience a decline in assets of 3.00% (7.00% - 10.00%).

As of December 31, 2021, the median ratio of net cash flow to MVA was -1.4%. The median ratio varied depending on whether or not the plan as a whole had all divisions open to new hires, all divisions closed to new hires, or mixed. If a plan is closed or mixed, the plan may be maturing, mature, or super mature. The median ratio was -0.6% for plans with all open divisions, -2.0% for plans with all divisions closed, and -7.3% for all closed municipalities.

**Chart 13: Distribution of Net Cash Flow as a Percent of Market Value of Assets**



**Net Cash Flow/MVA - Current Year**

	<u>Count</u>	<u>Median</u>
Closed Employer	13	-7.3%
Open Employer, All Divisions Open	254	-0.7%
Open Employer, All Divisions Closed	228	-2.0%
Open Employer, Mix of Open and Closed Divisions	246	-1.1%
Subtotal	741	-1.4%
No beginning of year assets <sup>1</sup>	3	N/A
Total	744	-1.4%

<sup>1</sup> Employers with no beginning of year assets in MERS (such as new plans) were excluded from the chart.

**Net Cash Flow/MVA - History**

	<u>Median</u>			
	<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>
Closed Employer	-7.3%	-7.3%	-7.2%	-7.0%
Open Employer, All Divisions Open	-0.7%	-0.9%	-1.2%	-1.0%
Open Employer, All Divisions Closed	-2.0%	-2.6%	-2.6%	-2.5%
Open Employer, Mix of Open and Closed Divisions	-1.1%	-1.5%	-1.6%	-1.8%
Subtotal	-1.4%	-1.7%	-1.9%	-1.8%

## **APPENDICES**

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### **MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF MICHIGAN**

#### **DECEMBER 31, 2021 VALUATION - RESULTS BY MUNICIPALITY**

## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix A: Participant Information

Municipality Name	Number	Participant Information							
		Number of Divisions	Fiscal Year Beginning	Number of Actives	Annual Salary	Number of Retirees	Annual Benefit in Force	Number of Vested Former	Annual Deferred Benefits
21st Dist Ct	8243	1	7/1/2022	9	469,986	8	196,529	1	3,172
23rd Jud Dist Ct	8223	1	7/1/2022	4	193,565	12	284,811	3	64,527
26th Jud Cir Ct	0403	1	1/1/2022	15	648,649	28	290,684	14	57,552
34th Dist Ct	8235	1	7/1/2022	23	1,179,648	19	650,857	10	170,920
35th Dist Ct	8234	2	1/1/2022	15	765,585	16	458,695	2	16,506
41 B Dist Ct	5014	3	1/1/2022	27	1,289,076	43	785,181	7	90,089
Addison Fire Dept	4607	1	4/1/2022	0	0	1	42,272	1	15,481
Adrian, City of	4601	13	7/1/2022	86	5,432,375	165	4,858,603	24	416,440
Aitkin Memorial Dist Lib	7407	1	7/1/2022	0	0	0	0	1	22,644
Albion, City of	1301	6	1/1/2022	9	563,588	98	1,240,160	12	103,069
Alcona Co	0101	9	1/1/2022	38	1,608,606	71	1,161,628	10	75,261
Alger Co	0203	18	1/1/2022	31	1,521,722	41	923,998	3	33,899
Alger CRC	0201	3	1/1/2022	27	1,723,328	35	743,269	3	60,335
Algonac, City of	7707	3	7/1/2022	3	180,834	27	514,240	13	155,832
Allegan Co	0302	15	1/1/2022	39	3,177,470	272	5,032,706	39	377,647
Allegan CRC	0301	5	1/1/2022	60	3,548,039	79	1,981,894	2	18,699
Allegan, City of	0309	4	7/1/2022	8	672,947	10	353,068	3	15,507
Alma, City of	2901	7	7/1/2022	80	3,459,854	87	1,779,880	11	196,023
Almont, Vlg of	4407	6	7/1/2022	15	891,432	8	184,693	5	84,209
Alpena Co	0401	9	1/1/2022	86	4,009,432	139	1,842,957	29	255,642
Alpena CRC	0402	1	1/1/2022	10	573,159	41	963,764	1	7,490
Alpena HC	0406	1	1/1/2022	4	270,852	4	137,274	0	0
Alpena Sr Citizens Ctr	0404	1	10/1/2022	0	0	5	72,764	0	0
Alpha, Vlg of	3614	1	4/1/2022	0	0	1	810	2	6,263
Antrim Co	0502	7	1/1/2022	212	11,361,435	245	2,910,566	78	635,531
Antrim CRC	0501	4	1/1/2022	26	1,326,913	47	1,027,130	2	20,798
Arenac Co	0603	10	1/1/2022	19	883,237	80	946,823	16	101,510
Arenac CRC	0604	6	1/1/2022	18	954,420	31	524,184	1	8,158
Armada Twp	5022	1	4/1/2022	10	533,989	0	0	0	0
Ash Twp	5804	1	4/1/2022	5	240,185	2	50,207	2	7,708
Au Gres, City of	0602	2	4/1/2022	0	0	9	215,845	1	32,088
Auburn, City of	0905	3	7/1/2022	0	0	5	122,351	2	14,680
Bad Axe Area Dist Lib	3214	1	7/1/2022	1	48,808	1	21,378	0	0
Bad Axe, City of	3211	1	7/1/2022	19	1,068,031	24	631,596	1	14,941
Bancroft, Vlg of	7610	1	3/1/2022	0	0	1	7,884	1	6,352
Bangor, City of	8003	1	7/1/2022	11	487,030	16	128,526	18	38,466
Baraga Co	0702	2	1/1/2022	24	1,271,430	34	483,872	12	138,066
Baraga Co Memorial Hosp	0703	2	10/1/2022	30	1,588,670	139	1,720,052	31	257,101
Baraga CRC	0701	9	10/1/2022	21	1,022,000	29	501,956	2	18,110
Baraga, Vlg of	0704	4	3/1/2022	11	572,906	12	306,589	3	32,716
Baroda Lake Twp Police Dept	1109	1	1/1/2022	6	415,726	1	12,131	2	19,935
Barry Co	0802	16	1/1/2022	392	20,833,761	283	4,606,442	98	980,221
Barry Co CMH Auth	0804	1	10/1/2022	73	3,950,099	19	521,902	18	231,229
Barry Eaton Dist Hlth Dept	2303	2	1/1/2022	40	1,852,964	109	1,722,863	32	303,620
Barton Hills, Vlg of	8107	1	4/1/2022	1	51,876	2	51,644	0	0
Bates Twp	3616	1	4/1/2022	0	0	1	27,441	0	0
Bath Chtr Twp	1909	1	1/1/2022	28	1,979,606	12	398,534	4	41,473
Battle Creek, City of	1302	18	7/1/2022	323	19,426,766	440	11,699,777	47	702,905
Bay Area Trans Auth	2810	2	10/1/2022	80	3,982,545	61	409,165	14	96,451
Bay City HC	0906	1	10/1/2022	3	145,218	23	671,461	0	0
Bay City, City of	0901	7	7/1/2022	19	1,189,894	274	6,371,591	13	191,316
Bay Metro Trans Auth	0907	7	10/1/2022	76	3,609,171	84	1,232,920	8	58,190
Beecher Metro Dist Swg&Wtr	2501	2	7/1/2022	4	264,100	14	438,060	1	15,164
Belding, City of	3410	3	7/1/2022	5	291,848	7	196,675	6	29,041
Belleville, City of	8213	5	7/1/2022	15	709,744	23	511,867	8	47,201
Benton Harbor, City of	1120	4	7/1/2022	42	1,574,693	80	2,218,730	12	111,008
Benzie Co	1003	10	10/1/2022	68	3,592,463	98	1,321,926	36	321,097
Benzie Co Comm on Aging CLD	1006	1	10/1/2022	0	0	8	91,254	5	28,719
Benzie Co MCF (The Maples)	1004	3	1/1/2022	102	3,873,796	72	643,822	25	146,072
Benzie CRC	1001	5	1/1/2022	29	1,263,903	47	677,125	10	80,548
Benzie Shores Dist Lib	1005	1	7/1/2022	0	0	1	32,768	0	0
Benzie Trans Auth	1007	1	10/1/2022	7	308,747	7	27,151	1	7,578
Benzie/Leelanau Dist Hlth Dept	4504	1	10/1/2022	2	144,644	2	55,477	0	0
Berkley, City of	6304	5	7/1/2022	47	2,502,987	76	1,708,036	11	129,635
Berrien Springs, Vlg of	1102	2	7/1/2022	11	516,018	12	125,873	4	33,183
Bessemer, City of	2702	1	7/1/2022	11	569,455	12	161,849	2	27,078
Beverly Hills, Vlg of	6321	4	7/1/2022	10	931,435	61	1,977,793	13	229,908
Big Rapids HC	5406	1	4/1/2022	1	103,223	7	189,259	0	0
Big Rapids, City of	5402	2	7/1/2022	8	497,623	51	1,175,680	3	24,322
Bingham Farms, Vlg of	6332	2	7/1/2022	2	148,265	2	45,260	0	0
Birch Run, Vlg of	7315	3	7/1/2022	14	688,129	4	72,126	5	21,850
Bishop Intl Arprt Auth	2507	1	1/1/2022	11	824,515	29	770,039	3	111,521
Blackman Chtr Twp	3806	1	1/1/2022	41	3,276,302	16	559,750	2	67,222
Blissfield, Vlg of	4606	1	7/1/2022	25	1,385,604	13	300,637	12	71,336
Bloomfield Hills, City of	6302	8	7/1/2022	17	1,568,464	49	2,665,635	4	109,423
Blue Water Area Trans Comm	7709	2	10/1/2022	59	2,845,894	32	703,770	9	71,232
Boyer City HC	1508	2	10/1/2022	4	188,559	6	96,234	2	20,457





## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix A: Participant Information

Municipality Name	Number	Participant Information							
		Number of Divisions	Fiscal Year Beginning	Number of Actives	Annual Salary	Number of Retirees	Annual Benefit in Force	Number of Vested Former	Annual Deferred Benefits
Boyer City, City of	1506	3	5/1/2022	6	449,772	40	699,223	4	40,218
Branch Co	1205	22	1/1/2022	244	12,541,631	207	3,559,836	194	2,188,380
Branch-Hillsdale-St Joseph Comm Hlth Agcy	1202	2	1/1/2022	25	1,366,616	71	1,050,879	21	219,829
Brandon Chtr Twp of	6333	3	1/1/2022	31	1,773,167	23	504,535	2	29,988
Breckenridge,Vlg of	2906	3	3/1/2022	7	377,720	9	180,935	9	28,001
Bridgeport Chtr Twp	7307	7	1/1/2022	39	2,115,166	48	701,213	23	202,782
Bridgman, City of	1110	2	7/1/2022	15	910,666	10	131,496	4	33,590
Brighton Area Fire Auth	4715	1	7/1/2022	0	0	2	50,820	0	0
Brighton, Chtr Twp of	4711	8	4/1/2022	12	719,110	11	122,189	4	21,933
Brighton, City of	4704	8	7/1/2022	41	3,283,961	49	1,541,148	13	188,354
Britton, Vlg of	4604	1	3/1/2022	3	90,516	0	0	1	5,001
Bronson, City of	1204	3	7/1/2022	12	667,759	7	102,445	3	33,683
Brooklyn, Vlg of	3801	1	11/1/2022	10	443,469	4	90,443	1	3,996
Brownstown, Chtr Twp of	8247	3	1/1/2022	64	4,709,188	25	1,330,174	6	83,354
Buchanan Dist Lib	1108	1	7/1/2022	3	106,103	4	33,874	1	2,547
Buchanan, City of	1101	3	7/1/2022	29	1,744,576	39	618,012	6	74,454
Buena Vista Chtr Twp	7312	10	1/1/2022	23	1,249,934	34	899,268	15	170,267
Burton, City of	2508	6	7/1/2022	85	4,605,296	101	3,964,499	29	373,300
Butman Twp CLD	2604	1		0	0	3	7,287	0	0
Cadillac, City of	8301	7	7/1/2022	55	2,849,619	84	1,153,798	7	136,218
Cadillac/Wexford Trans Auth	8305	2	10/1/2022	12	640,195	15	184,305	0	0
Calhoun Co	1311	7	1/1/2022	441	25,470,212	364	6,945,588	103	1,251,735
Calhoun Co Conso Disp Auth	1316	3	1/1/2022	6	388,313	13	480,106	3	46,811
Canton Pub Lib	8232	1	1/1/2022	11	775,114	14	424,773	2	21,265
Canton, Chtr Twp of	8233	18	1/1/2022	379	31,722,266	195	9,229,581	34	478,417
Capac, Vlg of	7705	4	7/1/2022	1	67,632	20	225,824	3	19,544
Capital Area Dist Lib	3317	4	1/1/2022	58	3,515,662	31	499,626	12	98,411
Capital Region Arprt Auth	3305	11	7/1/2022	37	2,188,714	45	1,215,516	26	295,493
Carleton, Vlg of	5805	1	3/1/2022	7	263,491	6	91,184	2	11,092
Carrrollton Twp	7320	3	4/1/2022	20	874,870	10	214,420	5	75,029
Cascade Chtr Twp	4110	1	1/1/2022	19	1,250,378	33	732,736	4	55,629
Caseville, City of	3207	2	3/1/2022	11	609,749	8	164,592	2	33,535
Caspian, City of	3608	1	7/1/2022	2	120,276	7	86,689	1	1,492
Cass Co	1402	12	10/1/2022	148	8,228,920	122	2,129,912	26	227,872
Cass Co MCF	1403	2	10/1/2022	88	5,138,656	50	461,436	7	44,481
Cass Dist Lib	1404	1	1/1/2022	11	437,082	8	58,887	5	23,335
Cedar Springs, City of	4105	4	7/1/2022	8	438,153	15	234,137	12	102,130
Center Line, City of	5001	7	7/1/2022	9	486,942	43	734,526	5	41,477
Central Lake, Vlg of	0504	1	3/1/2022	5	227,612	0	0	2	6,559
Central Mich Dist Hlth Dept	3705	6	10/1/2022	20	1,178,961	118	1,841,667	36	284,053
Charlevoix Co	1503	8	1/1/2022	236	11,232,090	256	3,730,019	75	794,699
Charlevoix CRC	1501	3	1/1/2022	36	1,689,815	41	610,623	7	54,237
Charlevoix, City of	1505	4	4/1/2022	46	2,988,179	46	1,091,197	7	80,410
Charlotte Comm Lib	2309	4	7/1/2022	4	164,731	7	94,503	1	2,057
Charlotte, City of	2301	10	7/1/2022	50	3,164,998	75	1,739,455	10	63,408
Cheboygan Co	1603	6	1/1/2022	138	6,698,549	109	1,843,190	21	285,736
Cheboygan CRC	1601	3	1/1/2022	21	1,025,872	66	1,652,591	5	60,942
Cheboygan, City of	1602	6	7/1/2022	31	1,599,795	41	879,366	7	28,207
Chelsea Area Fire Auth	8118	1	3/1/2022	11	832,976	1	17,394	4	33,832
Chelsea, City of	8103	3	7/1/2022	2	211,389	37	1,065,114	5	86,928
Chesaning, Vlg of	7313	5	3/1/2022	14	709,230	15	270,000	6	44,446
Chesterfield Twp	5009	8	1/1/2022	154	10,122,031	95	2,597,343	19	229,599
Chesterfield Twp Lib	5010	1	1/1/2022	7	420,248	3	75,267	4	46,393
Chikaming Twp	1112	2	4/1/2022	17	803,178	8	163,941	3	16,859
Chippewa Co	1703	14	1/1/2022	153	7,973,567	194	3,382,067	33	222,715
Chippewa Co - Emplmt & Trng CLD	1710	1		0	0	13	153,016	0	0
Chippewa CRC	1704	2	1/1/2022	70	3,968,693	86	1,462,190	4	45,221
Chippewa River Dist Lib	3707	4	1/1/2022	13	793,876	8	186,236	5	49,476
Chocolay, Chtr Twp of	5218	1	1/1/2022	14	818,529	9	124,144	4	23,397
Clare Co	1802	6	1/1/2022	131	5,523,850	98	1,454,385	48	502,577
Clare Co Trans Auth	1806	1	10/1/2022	3	182,190	1	8,895	1	1,368
Clare CRC	1801	5	7/1/2022	32	1,732,410	47	956,889	5	76,667
Clare, City of	1804	3	7/1/2022	28	1,534,305	29	628,663	9	120,568
Clawson, City of	6305	3	7/1/2022	5	449,174	62	2,143,170	3	47,943
Clay Twp	7706	8	7/1/2022	32	2,042,729	30	577,939	6	93,249
Clearwater Twp	4005	1	4/1/2022	0	0	1	12,217	1	8,834
Clinton Co	1903	7	1/1/2022	78	4,927,862	196	3,920,309	34	457,451
Clinton CRC	1901	6	1/1/2022	44	2,561,864	62	1,675,853	7	128,250
Clinton Twp	5002	26	4/1/2022	150	9,778,267	221	6,085,338	13	192,144
Clinton, Vlg of	4602	5	4/1/2022	15	1,007,691	20	402,099	2	57,062
Clinton-Eaton-Ingham CMH	3308	8	10/1/2022	835	50,036,979	593	13,171,556	148	1,674,758
Clio, City of	2523	1	7/1/2022	9	495,729	14	146,669	5	38,197
CMH for Central Mich	3708	1	10/1/2022	407	24,516,824	294	5,152,893	131	1,426,477
Coldwater Brd of Pub Util	1203	3	7/1/2022	10	841,960	33	941,582	5	43,780
Coldwater, City of	1201	6	7/1/2022	7	590,042	53	1,331,448	5	67,118
Coleman, City of	5603	2	7/1/2022	5	287,637	9	263,984	1	311
Coloma Chtr Twp	1107	4	4/1/2022	12	729,119	4	128,416	3	81,791



## MERS December 31, 2021 Valuation - Results by Municipality

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		Number of Divisions	Fiscal Year Beginning	Number of Actives	Annual Salary	Number of Retirees	Annual Benefit in Force	Number of Vested Former	Annual Deferred Benefits
Coloma, City of	1118	1	4/1/2022	6	279,783	2	36,627	0	0
Columbiaville, Vlg of	4406	1	3/1/2022	4	211,201	4	26,838	0	0
Constantine, Vlg of	7806	1	4/1/2022	2	112,997	0	0	4	23,125
Coopersville Area Dist Lib	7011	3	7/1/2022	0	0	4	51,021	1	2,501
Coopersville, City of	7005	1	7/1/2022	16	892,043	18	235,314	6	71,168
Corunna City of	7604	6	7/1/2022	14	761,305	19	417,581	2	9,288
Corwith Twp	6904	1	4/1/2022	7	100,309	1	487	1	3,009
Covert Twp	8010	1	7/1/2022	13	806,743	2	67,003	10	87,257
Crawford Co	2001	7	10/1/2022	25	1,357,338	99	1,597,535	13	108,888
Crawford Co Trans Auth	2004	1	10/1/2022	14	651,321	17	324,081	2	31,823
Crawford CRC	2002	3	10/1/2022	31	1,586,190	35	696,112	1	11,845
Croswell, City of	7401	3	7/1/2022	27	1,687,045	26	712,605	7	97,925
Crystal Falls Cmnty Hosp CLD	3618	2		0	0	82	342,816	20	22,531
Crystal Falls, City of	3603	5	1/1/2022	12	790,737	28	686,677	9	44,608
Ctrl Wayne Co Sanitation Auth	8214	2	7/1/2022	0	0	16	259,835	1	10,404
Davison Richfield Sr CCA	2525	2	7/1/2022	1	49,865	1	28,339	0	0
Davison Twp	2519	2	7/1/2022	40	2,360,020	23	841,934	6	98,123
Davison, City of	2516	6	7/1/2022	16	944,164	25	900,871	3	44,456
Dearborn, City of	8251	3	7/1/2022	214	18,227,335	1	52,444	2	43,528
Deerfield, Vlg of	4603	1	3/1/2022	5	230,997	5	135,385	2	47,563
Delta Area Transit Auth	2107	1	10/1/2022	1	105,224	0	0	0	0
Delta Chtr Twp	2306	1	1/1/2022	36	2,802,719	25	966,071	9	136,912
Delta Co	2102	9	10/1/2022	31	1,696,224	119	2,719,244	17	205,607
Delta CRC	2105	6	1/1/2022	36	1,886,032	51	981,999	3	60,801
Delta-Menominee Dist Hlth Dept	2103	4	1/1/2022	38	1,658,168	47	673,404	25	229,928
Detour, Vlg of	1706	1	4/1/2022	5	187,234	7	38,658	3	19,434
Detroit HC	8241	6	7/1/2022	70	3,959,751	54	1,009,629	56	660,616
DeWitt Chtr Twp	1910	4	1/1/2022	13	1,119,101	10	394,083	3	41,055
DeWitt, City of	1908	6	7/1/2022	16	1,009,932	18	308,937	15	113,196
Dexter Area Fire Dept	8219	1	1/1/2022	8	627,616	3	48,136	0	0
Dexter Twp	8111	2	4/1/2022	1	28,472	13	99,278	2	1,356
Dexter, City of	8217	2	7/1/2022	7	562,354	11	221,803	2	18,578
Dickinson Co	2206	10	1/1/2022	56	3,011,198	100	2,425,090	20	277,280
Dickinson CRC	2203	3	1/1/2022	13	769,556	45	842,052	7	63,261
Dickinson-Iron Dist Hlth Dept	3605	5	1/1/2022	16	963,995	55	707,426	8	85,345
Dimondale, Vlg of	2304	2	3/1/2022	1	42,824	5	85,857	1	15,341
Dist Hlth Dept # 2	6501	2	1/1/2022	7	350,489	42	663,106	6	47,625
Dist Hlth Dept # 4	7103	2	1/1/2022	43	1,822,253	69	1,708,626	15	69,402
Dist Hlth Dept #10	5104	2	10/1/2022	174	8,935,890	125	2,488,679	27	136,488
Douglas, City of Vlg of	0303	3	7/1/2022	16	948,054	17	165,424	14	125,722
Dowagiac Dist Lib	1406	2	10/1/2022	2	100,873	2	9,535	0	0
Dowagiac HC	1405	2	10/1/2022	5	231,414	3	22,295	2	4,712
Dowagiac, City of	1401	7	10/1/2022	35	2,118,245	74	1,593,350	21	407,955
Drummond Island Twp	1708	1	4/1/2022	2	75,939	1	2,381	0	0
Dryden, Vlg of	4405	1	4/1/2022	1	46,514	2	13,299	1	18,604
Dundee, Vlg of	5803	2	3/1/2022	11	644,592	14	340,913	4	74,052
Durand, City of	7603	5	7/1/2022	24	1,112,585	24	473,768	7	88,197
E UP Reg Planning & Dev Comm	1709	1	10/1/2022	5	251,145	0	0	0	0
E UP Trans Auth	1705	3	10/1/2022	21	1,221,358	31	854,133	4	32,247
East China Chtr Twp	7701	3	1/1/2022	13	864,560	19	715,868	4	86,553
East Jordan, City of	1504	4	7/1/2022	18	897,530	23	333,484	4	52,852
East Lansing, City of	3301	21	7/1/2022	274	17,565,562	408	15,108,907	97	885,872
Eastpointe HC	5011	1	7/1/2022	4	229,262	5	105,477	0	0
Eastpointe, City of	5019	13	1/1/2022	97	7,815,878	223	7,274,912	14	224,703
Eaton Co	2302	11	10/1/2022	346	18,224,349	349	10,711,836	88	1,285,035
Eaton Co Hlth & Rehab Svcs	2305	4	1/1/2022	179	9,102,502	56	579,187	21	159,431
Eaton Rapids, City of	2307	9	7/1/2022	25	1,584,982	39	1,126,717	21	232,682
Eau Claire, Vlg of	1104	2	3/1/2022	1	51,923	2	38,836	0	0
Ecorse, City of	8206	9	7/1/2022	26	1,889,524	118	3,775,615	11	131,656
Elk Rapids, Vlg of	0506	1	3/1/2022	24	1,288,049	7	172,851	3	19,065
Elkton, Vlg of	3206	2	3/1/2022	1	51,570	6	56,814	1	1,275
Elsie, Vlg of CLD	1906	1		0	0	3	12,278	0	0
Emmett CRC	2401	4	1/1/2022	7	547,023	41	1,150,003	1	1,753
Emmett, Chtr Twp	1310	2	4/1/2022	18	1,228,912	16	244,908	11	149,660
Erie, Twp of	5812	1	7/1/2022	2	109,461	0	0	1	16,286
Escanaba, City of	2101	12	7/1/2022	17	900,863	123	2,956,605	20	302,196
Essexville, City of	0903	6	7/1/2022	9	523,046	22	536,219	8	100,538
Ewart, City of	6705	4	7/1/2022	11	566,565	15	217,199	10	64,867
Farmington Cmnty Lib	6319	2	7/1/2022	4	223,118	30	791,855	2	22,675
Farmington, City of	6343	8	7/1/2022	41	3,084,556	57	1,839,870	11	147,556
Farwell, Vlg of	1805	1	3/1/2022	4	171,709	3	50,021	1	3,817
Fenton, City of	2505	12	7/1/2022	46	3,312,416	47	1,183,216	9	136,887
Ferndale HC	6345	1	1/1/2022	6	328,777	1	17,269	1	49,481
Ferrysburg, City of	7106	1	7/1/2022	4	271,116	13	179,188	1	3,689
Flat Rock, City of	8212	13	7/1/2022	53	3,455,084	67	2,207,198	12	190,360
Flint Pub Lib	2518	1	7/1/2022	20	980,853	4	34,745	7	43,156
Flint, Chtr Twp of	2512	7	1/1/2022	60	4,098,759	54	2,408,235	13	146,688



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Flint, City of	2530	19	7/1/2022	464	24,634,006	1,689	49,130,640	103	1,309,539
Flushing, Chtr Twp of	2515	4	4/1/2022	8	490,380	14	435,642	4	15,006
Flushing, City of	2502	7	7/1/2022	13	1,034,421	39	1,293,713	4	88,149
Forsyth Twp	5212	7	4/1/2022	21	1,142,466	20	523,768	10	77,173
Fowler, Vlg of	1904	2	1/1/2022	3	183,376	1	9,627	1	4,786
Fowlerville Dist Lib	4710	1	7/1/2022	3	139,001	2	54,372	1	5,416
Fowlerville, Vlg of	4705	2	2/1/2022	1	64,196	13	240,892	3	21,256
Frankenmuth Wickson Dist Lib	7323	2	7/1/2022	0	0	1	21,439	0	0
Frankenmuth, City of	7306	4	7/1/2022	29	2,122,450	29	1,130,686	2	66,281
Frankfort, City of	1002	4	7/1/2022	14	808,280	18	259,820	4	27,624
Franklin, Vlg of	6323	4	7/1/2022	9	716,298	14	596,664	2	21,641
Fraser, City of	5003	10	7/1/2022	52	4,169,124	121	4,538,091	22	404,762
Fremont Area Dist Lib	6209	1	7/1/2022	6	281,384	6	72,951	3	40,742
Fremont, City of	6203	5	7/1/2022	28	1,959,997	30	856,420	5	70,968
Gaastra, City of	3617	1	7/1/2022	1	54,330	2	37,381	0	0
Garden City, City of	8255	8	7/1/2022	105	6,833,638	184	6,560,194	5	72,264
Gaylord, City of	6903	7	7/1/2022	35	2,177,989	35	1,057,127	3	13,398
Genesee Chtr Twp	2510	3	1/1/2022	37	2,011,323	54	1,366,678	8	111,166
Genoa Twp	4713	2	4/1/2022	2	251,427	0	0	0	0
Gerald R Ford Intl Arprt Auth	4116	2	1/1/2022	76	5,860,127	27	1,099,335	12	245,236
Gladstone, City of	2106	5	4/1/2022	7	497,752	40	989,997	2	9,355
Gladwin City HC	2608	2	7/1/2022	20	821,680	18	341,013	3	20,655
Gladwin Co	2602	9	1/1/2022	89	4,347,388	96	1,473,388	33	277,660
Gladwin Co Dist Lib	2607	1	1/1/2022	7	221,661	6	73,302	1	5,300
Gladwin CRC	2601	3	1/1/2022	27	1,382,611	43	1,280,047	4	70,040
Gladwin, City of	2605	2	7/1/2022	9	507,897	4	107,436	2	16,377
Gogebic-Iron WWTR Auth	2703	2	7/1/2022	6	389,937	6	198,714	0	0
Grand Beach, Vlg of	1117	1	11/1/2022	6	342,328	1	8,289	3	29,839
Grand Blanc Chtr Twp	2511	3	1/1/2022	45	3,607,051	29	1,139,760	1	28,700
Grand Blanc, City of	2513	4	6/1/2022	19	1,563,856	25	1,119,421	2	29,340
Grand Haven BLP	7026	2	7/1/2022	23	2,164,742	70	2,886,096	12	159,256
Grand Haven, City of	7010	9	7/1/2022	108	6,974,003	172	5,192,174	42	437,911
Grand Ledge Area Dist. Lib	2316	2	7/1/2022	1	83,499	0	0	0	0
Grand Ledge Area ESA	2310	1	7/1/2022	12	852,952	4	47,775	5	26,675
Grand Ledge, City of	2312	3	7/1/2022	12	673,536	8	272,769	4	33,767
Grand Rapids HC	4108	1	7/1/2022	0	0	6	224,436	0	0
Grand Traverse Co	2803	23	1/1/2022	43	2,543,706	300	7,590,366	29	332,011
Grand Traverse CRC	2802	3	1/1/2022	0	0	53	914,830	2	16,577
Grand Traverse Pavilions	2809	5	1/1/2022	219	11,943,872	246	2,554,201	158	1,042,522
Grandville, City of	4102	6	7/1/2022	6	520,213	69	1,761,305	2	12,211
Gratiot Co	2905	4	10/1/2022	22	1,382,483	110	2,158,965	7	107,544
Gratiot CRC	2903	2	1/1/2022	34	2,064,359	48	1,217,448	2	22,205
Grayling, City of	2003	5	7/1/2022	3	204,030	23	348,431	3	39,729
Green Oak Chtr Twp	4708	3	4/1/2022	41	2,588,041	20	527,615	1	24,573
Greenville, City of	5906	1	7/1/2022	16	1,163,031	13	409,255	7	122,522
Grosse Ile Twp	8207	8	4/1/2022	41	2,910,707	58	2,250,860	8	196,665
Grosse Pointe Park, City of	8201	9	7/1/2022	67	5,148,223	102	3,661,953	8	185,667
Grosse Pointe-Clinton Ref CLD	5004	2	0	0	0	15	209,148	1	10,330
Groveland Twp	6335	3	4/1/2022	13	566,757	10	138,552	2	23,165
Hackley Pub Lib	6114	1	7/1/2022	12	602,737	1	9,807	1	12,434
Hamburg Twp	4709	2	7/1/2022	16	1,527,493	7	240,054	6	115,479
Hamtramck HC	8250	2	1/1/2022	10	851,068	5	80,278	0	0
Hamtramck, City of	8205	11	7/1/2022	82	4,634,123	213	8,121,571	24	327,790
Hancock, City of	3107	2	7/1/2022	14	779,230	10	302,820	2	37,173
Harbor Beach, City of	3201	8	4/1/2022	19	1,173,613	22	539,220	0	0
Harbor Springs Area Swg Auth	2406	1	1/1/2022	7	417,393	6	97,804	0	0
Harbor Springs, City of	2405	1	1/1/2022	27	1,817,727	16	424,451	2	29,321
Harper Woods, City of	8260	11	1/1/2022	59	3,567,573	118	4,188,361	11	284,472
Harrison Dist Lib	1807	1	1/1/2022	0	0	2	24,594	0	0
Harrison, City of	1803	1	1/1/2022	9	415,122	13	295,072	2	27,027
Hartland Deerfield Fire Auth	4716	1	4/1/2022	3	194,582	0	0	1	19,182
Hastings, City of	0801	11	7/1/2022	50	2,324,434	82	1,382,153	26	187,907
Hazel Park, City of	6336	21	7/1/2022	97	6,541,502	172	5,542,786	18	155,166
Helen Newberry Joy Hosp	4805	1	1/1/2022	7	334,996	92	1,627,558	9	104,564
Henika Dist Lib	0310	1	1/1/2022	3	109,846	2	37,822	1	1,651
Herrick Dist Lib	7012	3	7/1/2022	16	912,322	49	640,590	8	79,510
Hesperia, Vlg of	6214	1	4/1/2022	4	200,023	0	0	4	11,450
Hiawatha Bhvrl Hlth	1707	6	10/1/2022	6	434,924	93	1,476,478	19	187,977
Hillsdale Co	3005	1	1/1/2022	26	1,507,081	23	515,133	10	145,969
Hillsdale CRC	3004	2	1/1/2022	48	2,421,152	46	845,317	3	33,023
Hillsdale HC	3007	1	7/1/2022	3	137,919	3	18,780	0	0
Hillsdale, City of	3001	8	7/1/2022	49	3,075,998	79	1,746,521	11	183,248
Hlth Source of Saginaw	7311	8	1/1/2022	66	4,344,851	324	3,474,137	75	486,499
Holland Area Cmnty Pool Auth	7014	2	7/1/2022	4	336,747	10	72,001	1	5,917
Holland Cmnty Hosp CLD	7006	1	0	0	0	39	145,480	0	0
Holland, City of	7001	7	7/1/2022	127	10,398,594	370	10,086,404	44	660,407
Holly, Vlg of	6317	6	7/1/2022	16	1,183,982	37	1,078,287	9	119,951



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Homer, Vlg of	1304	1	1/1/2022	9	376,303	12	112,722	12	33,849
Houghton Co	3102	10	1/1/2022	55	2,917,273	121	2,430,000	12	195,315
Houghton CRC	3103	1	1/1/2022	7	491,783	9	339,276	0	0
Houghton Lake Pub Lib	7203	2	7/1/2022	7	268,817	3	55,297	1	16,022
Houghton, City of	3109	1	7/1/2022	27	1,619,648	7	217,769	3	70,555
Howard City, Vlg of	5902	2	3/1/2022	0	0	5	53,215	5	27,672
Howard Twp	1106	1	4/1/2022	2	60,267	1	5,205	2	13,771
Howell Area Fire Auth	4714	2	7/1/2022	8	520,595	3	107,247	0	0
Howell, City of	4702	9	7/1/2022	50	3,416,162	76	1,938,053	22	368,110
Howell-Carnegie Dist Lib	4707	2	7/1/2022	11	602,594	6	93,446	1	5,426
Hudsonville, City of	7004	4	7/1/2022	0	0	11	193,375	7	67,866
Huntington Woods, City of	6303	6	7/1/2022	16	1,560,956	52	2,044,193	2	31,589
Hurley Med Ctr	2521	14	7/1/2022	1,853	118,248,344	2,104	47,794,562	226	3,967,404
Huron Bhvrl Hlth	3215	2	10/1/2022	46	2,850,901	57	1,210,671	20	238,796
Huron Chtr Twp	8224	9	1/1/2022	56	3,802,550	36	1,469,293	18	299,968
Huron Co	3204	5	1/1/2022	255	12,544,089	290	5,960,566	43	445,626
Huron CRC	3202	4	1/1/2022	41	2,321,330	68	2,064,420	7	135,196
Imlay City, City of	4404	8	7/1/2022	22	1,323,674	34	676,949	6	30,362
Independence Twp	6328	1	1/1/2022	37	2,790,909	18	784,343	5	101,523
Indianfields Twp CLD	7905	1		0	0	11	17,876	5	4,211
Ingham Co	3303	65	1/1/2022	1,178	71,727,868	1,522	34,653,199	345	3,937,161
Interurban Trans Auth	0308	1	10/1/2022	6	283,038	4	104,615	0	0
Ionia Cmnty Lib	3412	1	7/1/2022	5	219,968	4	48,470	1	14,357
Ionia Co	3408	8	1/1/2022	76	4,123,210	78	1,875,671	30	397,553
Ionia HC	3406	2	10/1/2022	3	142,795	3	109,440	0	0
Ionia, City of	3403	11	7/1/2022	44	3,165,975	59	1,539,306	9	91,090
Iosco Co	3501	9	1/1/2022	73	3,231,275	182	2,163,242	56	415,639
Iosco CRC	3502	2	1/1/2022	11	671,530	40	923,878	3	59,252
Iron Co	3606	11	1/1/2022	193	7,790,335	235	3,025,198	55	478,121
Iron Co HC	3611	1	10/1/2022	3	135,739	4	91,790	4	23,086
Iron CRC	3602	5	1/1/2022	22	1,257,366	43	963,037	2	39,313
Iron Mountain, City of	2201	7	7/1/2022	21	1,152,553	50	1,094,216	3	20,999
Iron Mountain-Kingsford Swg	2205	2	7/1/2022	5	305,793	1	28,102	1	8,881
Iron River, City of	3601	3	7/1/2022	11	553,092	36	800,566	5	69,347
Ironwood, City of	2706	11	7/1/2022	41	2,337,846	80	1,502,645	2	31,329
Isabella Co	3703	9	10/1/2022	69	4,140,481	246	4,392,742	56	641,431
Isabella Co Trans Comm	3709	1	10/1/2022	13	730,712	6	146,661	0	0
Isabella CRC	3702	3	10/1/2022	33	1,762,249	47	923,941	8	98,526
Ishpeming Area Joint Wwtr Trtm	5207	3	1/1/2022	6	369,251	7	182,937	1	3,423
Ishpeming Twp	5216	1	4/1/2022	11	346,937	9	110,407	1	4,504
Ishpeming, City of	5204	4	1/1/2022	23	1,175,150	43	1,237,995	4	44,465
Ithaca, City of	2904	6	7/1/2022	2	123,943	18	421,791	4	39,332
Jackson Dist Lib	3802	3	1/1/2022	53	2,570,381	47	558,028	5	41,129
Jackson Trans Auth	3805	2	10/1/2022	46	2,079,859	39	661,877	5	72,378
Jordan Valley Dist Lib	1507	1	7/1/2022	1	81,631	1	6,951	0	0
Jordan Valley EMS Auth	1509	2	4/1/2022	4	259,107	3	54,874	1	4,746
Kalamazoo Lake Swr & Wtr Auth	0306	2	3/1/2022	11	616,847	6	92,426	8	46,707
Kalamazoo Pub Lib	3903	2	7/1/2022	73	4,310,445	18	316,646	14	133,865
Kalamazoo, Chtr Twp of	3907	2	1/1/2022	32	2,123,903	20	865,419	6	120,185
Kalkaska Co	4003	6	1/1/2022	87	3,605,626	97	1,626,856	39	269,010
Kalkaska CRC	4002	4	1/1/2022	5	306,873	41	742,504	12	139,610
Kalkaska Pub Trans Auth	4004	1	10/1/2022	7	302,836	13	160,400	3	23,707
Kalkaska, Vlg of	4001	6	3/1/2022	16	927,577	17	449,085	7	33,490
Keego Harbor, City of	6322	3	7/1/2022	4	286,025	20	384,024	1	7,205
Kent CRC	4111	1	10/1/2022	0	0	2	27,202	0	0
Keweenaw Co	4202	4	1/1/2022	16	803,884	14	257,840	5	43,491
Keweenaw CRC	4201	3	1/1/2022	14	813,324	22	509,778	2	18,631
Kinde, Vlg of	3209	1	2/1/2022	1	41,119	1	18,558	0	0
Kingsford, City of	2202	5	7/1/2022	18	1,024,877	23	622,999	2	1,719
L.M.A.S. Dist Hlth Dept	4803	2	10/1/2022	26	1,504,392	149	744,208	72	275,050
Lac Vieux Desert Band	8402	1	1/1/2022	5	336,267	2	21,398	6	42,700
Laingsburg, City of	7608	1	7/1/2022	5	223,778	2	24,490	1	8,022
Lake Co	4301	6	1/1/2022	49	2,573,386	91	1,268,303	59	554,067
Lake CRC	4302	3	1/1/2022	32	1,551,297	43	863,308	6	95,707
Lake Linden, Vlg of	3105	2	3/1/2022	5	238,046	8	99,115	5	20,544
Lake Odessa, Vlg of	3402	1	3/1/2022	1	70,789	1	32,500	0	0
Lake Orion, Vlg of	6318	4	7/1/2022	3	192,851	18	362,940	2	12,126
Lakeland Lib Coop	4106	2	10/1/2022	7	389,595	4	60,102	2	12,124
Lakeshore Coordinating Council CLD	7007	1		0	0	11	98,703	9	40,651
Lakeview Cemetery	2407	1	1/1/2022	2	79,860	0	0	0	0
L'Anse, Vlg of	0705	2	7/1/2022	18	969,144	25	576,315	4	39,242
Lansing Chtr Twp	3320	4	1/1/2022	45	2,837,409	17	532,023	9	85,228
Lansing HC	3311	3	7/1/2022	17	929,286	45	801,638	12	105,985
Lapeer Co	4403	10	1/1/2022	629	30,307,527	461	7,801,801	162	1,844,926
Lapeer CRC	4402	9	10/1/2022	38	2,155,689	59	1,359,546	6	62,109
Lapeer Dist Lib	4410	2	1/1/2022	19	728,106	22	390,650	3	45,024
Lapeer, City of	4401	7	7/1/2022	71	4,716,723	78	1,903,926	14	148,597



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		Number of Divisions	Fiscal Year Beginning	Number of Actives	Annual Salary	Number of Retirees	Annual Benefit in Force	Number of Vested Former	Annual Deferred Benefits
Lathrup Vlg, City of	6311	5	7/1/2022	4	385,192	21	641,800	1	5,791
Laurium, Vlg of	3104	4	3/1/2022	12	484,087	17	189,885	1	796
Lawrence, Vlg of	8004	2	3/1/2022	0	0	6	13,086	3	1,663
Leelanau Co	4501	5	1/1/2022	118	6,242,740	107	1,884,544	16	173,462
Leelanau CRC	4503	1	1/1/2022	8	407,253	40	645,566	7	63,993
Leoni Twp	3804	4	7/1/2022	5	205,151	28	441,379	19	294,238
Leslie Twp	3319	2	7/1/2022	2	88,213	3	10,119	0	0
Leslie, City of	3313	4	7/1/2022	13	706,535	9	151,099	4	40,122
Lexington, Vlg of	7708	2	7/1/2022	4	210,977	10	193,465	2	34,138
Lima Twp	8112	1	4/1/2022	5	112,909	6	37,681	0	0
Lincoln Park, City of	8244	3	7/1/2022	67	3,194,071	137	3,466,305	11	176,902
Litchfield, City of	3006	2	7/1/2022	9	423,296	7	132,320	3	24,335
Livingston Co	4703	19	1/1/2022	538	32,812,755	452	9,369,536	162	1,706,886
Livingston Co CMH Auth	4712	2	10/1/2022	57	3,865,176	76	1,384,088	49	576,321
Livingston CRC	4701	5	1/1/2022	66	4,415,456	69	1,744,051	7	72,238
Looking Glass Rgnl Fire CLD	2311	1	0	0	0	2	13,743	1	710
Loutit Dist Lib	7013	1	7/1/2022	13	676,428	12	195,556	2	8,347
Lowell, City of	4104	4	7/1/2022	23	1,982,057	39	1,000,335	11	263,423
Luce Co	4804	10	1/1/2022	23	961,200	50	604,767	9	57,574
Luce Co Amb Svs	4806	1	1/1/2022	2	96,307	1	10,960	3	33,631
Luce CRC	4801	8	1/1/2022	20	982,081	37	928,197	2	50,478
Ludington, City of	5302	3	1/1/2022	50	2,411,695	66	1,411,389	7	113,394
Luna Pier, City of	5802	3	7/1/2022	2	102,013	13	410,797	5	30,905
Lyons, Vlg of	3411	1	3/1/2022	0	0	2	18,824	0	0
Mackinac Co	4901	4	1/1/2022	15	695,816	70	1,383,041	10	113,383
Mackinac Co HC	4905	1	7/1/2022	1	25,150	2	33,058	0	0
Mackinac CRC	4903	3	1/1/2022	7	404,725	32	707,186	0	0
Mackinac Straits Hlth Sys	4902	2	7/1/2022	263	15,719,369	125	1,855,545	41	360,410
Mackinaw City, Vlg of	1606	1	3/1/2022	7	450,399	1	28,889	1	15,066
Madison Heights, City of	6308	6	7/1/2022	27	1,731,213	138	3,214,563	20	285,737
Madison, Chtr Twp of	4605	1	1/1/2022	19	1,269,717	6	82,901	1	4,819
Manistee Co	5101	12	10/1/2022	186	8,460,508	257	3,966,495	81	525,581
Manistee Co Trans Auth	5109	1	10/1/2022	32	1,055,803	0	0	0	0
Manistee CRC	5103	6	10/1/2022	32	1,460,104	44	891,715	3	57,609
Manistee HC	5107	1	1/1/2022	7	283,882	4	29,267	1	13,036
Manistee, City of	5105	10	7/1/2022	50	2,977,296	66	1,577,042	4	59,749
Manistique HC	7508	1	1/1/2022	0	0	2	74,349	1	10,929
Manistique, City of	7504	3	7/1/2022	24	1,558,242	35	1,014,499	3	20,740
Manlius Twp	0311	1	4/1/2022	4	76,553	4	58,914	0	0
Manton, City of	8304	2	12/1/2022	6	326,060	13	208,883	3	15,693
Marenisco Twp	2704	2	4/1/2022	2	96,944	3	45,957	0	0
Marion, Vlg of	6704	2	3/1/2022	4	155,365	6	56,668	1	607
Marlette, City of	7405	2	7/1/2022	10	527,574	5	139,622	3	16,925
Marquette Brd of Light & Power	5209	7	10/1/2022	22	2,109,620	102	3,362,381	1	19,591
Marquette Chtr Twp	5215	2	1/1/2022	20	1,187,635	8	205,658	2	52,866
Marquette Co	5202	16	1/1/2022	262	11,631,966	360	7,901,671	45	496,028
Marquette Co Solid Waste Mgmt	5213	4	7/1/2022	19	1,245,740	8	160,676	0	0
Marquette Co Trans Auth	5206	3	10/1/2022	26	1,202,068	23	258,947	3	23,922
Marquette CRC	5211	8	1/1/2022	53	3,232,291	84	2,136,102	15	129,098
Marquette, City of	5201	15	10/1/2022	115	5,964,842	156	4,786,958	14	151,734
Marshall Area Firefighters Amb	1313	2	7/1/2022	7	499,383	2	37,884	2	19,652
Marshall Dist Lib	1309	1	7/1/2022	0	0	1	44,893	0	0
Marshall, City of	1306	6	7/1/2022	40	2,866,513	106	2,771,262	14	238,961
Mason Co	5301	6	1/1/2022	109	5,708,570	231	4,343,393	35	359,573
Mason Co Dist Lib	5303	1	1/1/2022	12	390,958	11	147,927	2	5,641
Mason CRC	5305	4	1/1/2022	39	2,094,921	38	672,715	4	40,949
Mason, City of	3304	8	7/1/2022	42	2,211,404	37	1,139,177	20	314,879
Mason-Oceana 911	6403	1	1/1/2022	15	849,697	8	147,493	2	39,047
MBS Intl Arpt	0902	6	1/1/2022	25	1,355,535	24	863,219	5	95,965
Meceola Central Disp	5405	1	1/1/2022	15	778,792	12	167,725	7	82,445
Mecosta Co	5403	8	1/1/2022	26	1,501,247	128	2,592,301	27	243,595
Mecosta Co General Hosp CLD	5404	2	0	0	0	128	675,098	35	108,018
Mecosta CRC	5401	1	1/1/2022	27	1,290,922	64	898,309	7	66,767
Melvindale HC	8220	3	1/1/2022	4	202,834	6	108,664	3	26,991
Melvindale, City of	8215	6	1/1/2022	7	638,626	99	3,623,244	3	114,701
Menominee Co	5502	12	10/1/2022	41	2,387,434	107	1,856,337	16	241,349
Menominee CRC	5503	4	1/1/2022	3	189,065	15	413,121	1	30,001
Menominee, City of	5501	5	9/1/2022	26	1,193,179	63	908,784	5	16,199
Meridian Chtr Twp	3315	12	1/1/2022	105	6,370,191	110	4,231,007	37	622,226
MERS	2308	2	1/1/2022	133	12,757,833	55	1,345,210	43	718,669
Metamora Twp	4409	1	4/1/2022	5	343,240	5	71,753	1	17,642
Metro Police Auth of Genesee Co	2532	3	1/1/2022	27	1,977,725	17	534,831	3	35,077
Mich Muni Risk Mgmt Auth	8237	1	7/1/2022	1	290,000	0	0	0	0
Mich S Central Power Agcy	3002	3	7/1/2022	0	0	43	1,085,975	20	467,210
Middleville, Vlg of	0803	6	1/1/2022	9	474,249	12	174,826	4	24,656
Midland Co Central Disp Auth	5604	3	1/1/2022	14	946,840	8	168,224	5	117,274
Midland CRC	5602	5	1/1/2022	40	2,342,384	54	1,471,788	2	50,957



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Midland, City of	5601	8	7/1/2022	168	10,526,330	345	11,749,308	16	330,699
Mid-Mich Dist Hlth Dept	5901	5	10/1/2022	76	4,008,090	64	688,412	35	322,245
Mid-Mich Lib League	8306	1	10/1/2022	1	76,335	4	63,416	2	15,222
Milan Lib	5806	2	7/1/2022	2	102,286	2	31,059	1	707
Milan, City of	5801	8	7/1/2022	6	446,017	43	1,000,070	9	187,445
Milford, Vlg of	6313	7	7/1/2022	20	1,871,368	25	866,684	10	82,944
Millington, Vlg of	7904	2	3/1/2022	6	271,428	7	121,871	1	5,419
Missaukee Co	5702	4	10/1/2022	28	1,534,727	19	462,046	14	187,979
MOA Solid Waste Mgmt Auth	6002	1	1/1/2022	6	256,834	2	49,064	1	12,755
Monroe HC	5808	1	10/1/2022	10	528,648	7	193,325	0	0
Montague, City of	6112	5	7/1/2022	15	1,050,847	20	481,572	2	15,466
Montcalm Care Network	5909	1	10/1/2022	63	0	31	409,624	17	227,558
Montcalm Co	5907	7	10/1/2022	62	3,699,373	111	2,294,344	10	177,180
Montcalm CRC	5905	5	10/1/2022	50	2,767,539	51	1,258,393	3	46,466
Montmorency Co	6001	5	1/1/2022	37	1,708,651	72	858,375	20	118,220
Montrose, City of	2509	2	7/1/2022	4	194,677	7	55,083	5	17,989
Mt. Morris Chtr Twp	2503	7	4/1/2022	50	2,504,740	70	2,725,736	9	100,680
Mt. Pleasant, City of	3701	5	1/1/2022	85	4,527,504	108	2,381,139	19	200,269
Muir, Vlg of	3405	1	7/1/2022	0	0	2	23,099	2	16,227
Mundy, Chtr Twp of	2517	1	1/1/2022	11	564,434	7	134,148	2	25,383
Munising, City of	0202	3	7/1/2022	18	953,626	28	581,968	4	24,990
Muskegon Area Dist Lib	6117	3	1/1/2022	26	1,423,456	9	135,149	2	13,651
Muskegon Chtr Twp	6108	4	1/1/2022	22	1,407,433	51	1,571,014	2	20,416
Muskegon Co	6103	17	10/1/2022	311	19,666,929	1,156	21,373,259	179	2,709,425
Muskegon CRC	6101	11	1/1/2022	70	3,726,023	99	1,908,871	16	149,038
Muskegon Ctrl Dispatch 911	6109	4	10/1/2022	39	2,203,433	21	506,656	6	68,273
Muskegon HC	6113	1	10/1/2022	5	230,564	4	68,766	2	18,011
Muskegon Heights HC	6115	1	4/1/2022	6	275,596	9	172,099	1	673
Muskegon Heights, City of	6102	7	7/1/2022	48	2,698,426	104	2,686,944	13	117,476
Muskegon, City of	6116	9	7/1/2022	62	4,608,816	337	9,568,119	29	551,756
N Houghton Co Wtr&Swg Auth	3106	2	1/1/2022	4	225,124	1	24,933	1	4,337
N Muskegon, City of	6104	4	12/1/2022	5	302,392	21	460,089	4	29,099
Nashville, Vlg of	0807	1	3/1/2022	6	287,920	2	17,259	1	1,242
Negaunee Twp	5217	1	4/1/2022	5	266,916	5	56,748	1	732
Negaunee, City of	5203	3	1/1/2022	25	1,264,830	43	1,001,904	7	95,549
Network180	4109	1	10/1/2022	35	2,786,047	80	2,422,065	34	544,243
New Baltimore, City of	5016	8	7/1/2022	58	3,614,409	50	1,133,455	10	134,829
New Buffalo Twp	1121	1	7/1/2022	11	537,071	1	5,620	0	0
New Buffalo, City of	1113	1	7/1/2022	25	1,364,756	7	111,167	10	33,290
Newaygo CMH	6207	1	10/1/2022	0	0	8	303,972	1	4,601
Newaygo Co	6201	8	10/1/2022	10	542,550	120	2,333,861	11	116,771
Newaygo CRC	6212	8	10/1/2022	43	2,168,229	50	806,253	6	91,335
Newaygo MCF	6204	4	1/1/2022	35	1,512,060	106	1,092,327	22	198,296
Newaygo Soil & Wtr Cnsvrn Dist	6205	1	9/1/2022	4	186,564	3	14,986	0	0
Newberry, Vlg of	4802	7	1/1/2022	15	782,126	32	414,234	6	24,236
Niles Dist Lib	1105	2	10/1/2022	10	363,074	9	92,307	2	17,322
Niles, City of	1115	4	10/1/2022	107	6,121,963	141	3,082,094	8	130,984
North City of	2808	3	1/1/2022	7	387,727	116	2,282,274	6	73,680
Northfield Twp	8117	1	7/1/2022	12	798,108	1	12,353	4	67,147
Northpointe Bhvrl Hlth Sys	2207	5	10/1/2022	31	2,064,146	63	982,759	34	322,578
Northville Chtr Twp	8230	5	1/1/2022	103	9,503,267	52	2,605,131	10	286,539
Northville Dist Lib	8229	2	12/1/2022	16	974,943	15	246,345	2	20,082
Northville, City of	8208	9	7/1/2022	3	250,060	65	1,866,381	7	86,227
Norton Shores, City of	6106	12	7/1/2022	64	4,986,521	126	3,511,835	10	212,901
Norway, City of	2204	4	7/1/2022	14	907,983	41	1,474,548	2	31,099
Nottawaseppi Huron Band	8403	2	1/1/2022	21	1,324,602	2	10,135	1	1,993
Novi, City of	6320	10	7/1/2022	124	10,865,211	220	6,971,688	45	747,304
NW Mich Cmnty Hlth Agcy	1502	1	1/1/2022	2	182,517	41	606,938	1	1,137
NW Rgnl Arprt Auth	2805	1	1/1/2022	7	702,574	21	559,381	8	98,555
Oceana Co	6402	7	1/1/2022	101	5,903,821	188	2,789,750	42	516,448
Oceola Twp	4717	1	7/1/2022	11	431,214	7	84,018	1	8,615
Ogemaw Co	6502	4	1/1/2022	24	1,190,964	117	2,132,403	12	83,723
Ogemaw Co Emerg Disp Auth	6510	1	10/1/2022	4	253,292	2	47,776	0	0
Ogemaw Co EMS Auth	6508	2	10/1/2022	27	1,791,740	12	207,592	6	73,229
Ogemaw CRC	6503	3	10/1/2022	27	1,275,738	35	896,743	2	5,217
Olive Twp	7009	1	4/1/2022	2	53,281	4	28,946	0	0
Onaway, City of	7105	2	4/1/2022	3	146,020	3	42,525	5	37,783
Ontonagon Co	6602	7	1/1/2022	46	1,849,133	54	721,758	8	47,098
Ontonagon Co Economic Dev Corp	6605	1	1/1/2022	0	0	1	10,371	0	0
Ontonagon CRC	6604	2	1/1/2022	39	2,119,033	61	1,949,302	1	15,632
Ontonagon, Vlg of	6603	2	4/1/2022	8	414,591	122	1,304,871	23	165,158
Orchard Lake, City of	6312	5	7/1/2022	2	214,448	13	439,700	1	8,110
Oronoko Chtr Twp	1114	2	1/1/2022	10	628,502	7	138,932	3	15,253
Osceola Co	6701	7	1/1/2022	106	5,138,371	105	1,266,807	52	472,203
Osceola CRC	6703	3	1/1/2022	24	1,135,431	45	717,478	1	19,243
Oscoda Chtr Twp	3503	2	1/1/2022	10	674,341	12	291,902	8	74,794
Oscoda Co	6801	6	1/1/2022	65	2,593,018	65	758,184	16	118,563



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix A: Participant Information

Municipality Name	Number	Participant Information							
		Number of Divisions	Fiscal Year Beginning	Number of Actives	Annual Salary	Number of Retirees	Annual Benefit in Force	Number of Vested Former	Annual Deferred Benefits
Oscoda Co Lib	6803	1	1/1/2022	1	45,180	0	0	0	0
Oscoda Wurtsmith Arprt Auth	6802	1	10/1/2022	6	287,600	3	27,254	0	0
Otisville, Vlg of	2506	2	7/1/2022	4	181,662	4	69,472	1	1,545
Otsego Co	6902	19	1/1/2022	82	4,184,481	113	1,483,405	54	506,952
Otsego CRC	6901	4	1/1/2022	33	1,766,136	48	820,238	9	148,230
Ottawa Co	7003	17	10/1/2022	373	25,804,031	711	18,567,222	184	2,767,508
Ottawa Co Central Disp Auth	7008	2	1/1/2022	0	0	14	226,156	2	36,890
Ottawa CRC	7002	5	10/1/2022	60	4,355,564	145	4,560,950	11	172,463
Otter Lake, Vlg of	4408	1	3/1/2022	0	0	1	15,560	0	0
Owosso, City of	7607	9	7/1/2022	47	3,081,347	104	3,443,691	5	66,334
Oxford Fire Department	6327	3	1/1/2022	22	1,904,269	16	319,123	2	29,980
Oxford, Vlg of	6326	3	7/1/2022	8	481,977	8	171,572	4	54,006
Parchment, City of	3901	2	1/1/2022	5	238,293	17	251,081	1	11,893
Pathways(Spr.Bhvl.Mntl.Hlth)	5214	7	10/1/2022	16	941,054	272	4,656,025	35	320,775
Paw Paw Lk Reg Jnt Swg Disp Bd	1103	1	4/1/2022	2	150,269	3	159,843	0	0
Paw Paw, Vlg of	8002	6	3/1/2022	26	1,655,043	27	686,279	10	111,323
Pellston, Vlg of	2404	1	1/1/2022	3	105,005	1	18,283	0	0
Pennfield Chtr Twp	1312	1	4/1/2022	9	505,814	10	144,738	2	38,004
Pentwater, Vlg of	6401	2	4/1/2022	9	481,669	14	162,509	3	19,709
Perrinton, Vlg of	2909	1	3/1/2022	1	52,955	0	0	1	5,874
Petersburg, City of	5807	1	7/1/2022	7	277,545	1	16,985	2	23,134
Petoskey, City of	2402	5	1/1/2022	56	4,095,948	81	1,899,142	11	171,043
Pewamo, Vlg of	3407	1	4/1/2022	2	96,847	0	0	0	0
Pigeon, Vlg of	3203	2	3/1/2022	5	289,249	4	47,914	2	2,106
Pinckney, Vlg of	4706	2	3/1/2022	10	507,808	8	223,202	9	27,445
Pinconning, City of	0904	4	7/1/2022	3	126,526	15	182,140	1	11,560
Pittsfield Chtr Twp	8110	16	1/1/2022	119	9,147,085	75	1,919,445	39	398,114
Pleasant Ridge, City of	6301	7	7/1/2022	10	691,894	19	403,952	7	67,135
Plymouth Dist Lib	8221	2	1/1/2022	15	899,777	15	400,533	4	53,446
Plymouth, Chtr Twp of	8238	5	1/1/2022	33	3,211,288	42	2,171,657	5	133,453
Plymouth, City of	8202	8	7/1/2022	0	0	52	1,491,589	3	15,368
Pokagon Band of Potawatomi	8401	2	1/1/2022	309	20,038,341	47	643,456	56	779,229
Port Austin Area Swr&Wtr Auth	3210	1	3/1/2022	0	0	2	8,739	0	0
Port Austin, Vlg of	3208	2	3/1/2022	3	131,954	6	51,413	1	840
Port Huron Chtr Twp	7711	1	1/1/2022	14	761,098	12	235,764	7	95,336
Port Huron HC	7712	4	7/1/2022	25	1,159,508	24	640,935	2	18,352
Port Huron, City of	7702	11	7/1/2022	207	13,925,974	393	12,648,397	40	449,271
Port Sanilac, Vlg of	7403	2	7/1/2022	2	84,334	5	95,169	1	7,368
Port Sheldon Twp	7018	1	4/1/2022	7	194,188	4	85,403	1	5,048
Portland, City of	3401	6	7/1/2022	27	2,018,237	44	1,079,530	16	174,164
Pottersville, City of	2313	1	7/1/2022	7	392,283	4	80,547	4	6,533
Presque Isle Co	7104	6	7/1/2022	67	2,616,066	66	904,643	13	113,053
Presque Isle CRC	7101	4	1/1/2022	29	1,255,095	43	877,642	0	0
PRIDE Youth Programs CLD	6210	1		0	0	2	45,930	0	0
Ravenna, Vlg of	6111	1	1/1/2022	1	68,868	2	55,400	1	5,749
Reading, City of	3003	1	7/1/2022	5	232,772	6	35,506	3	1,507
Redford Twp Dist Lib	8228	1	4/1/2022	6	380,602	9	182,933	3	15,539
Redford, Chtr Twp of	8209	11	4/1/2022	92	4,840,123	184	4,220,830	24	240,160
Reed City, City of	6702	3	7/1/2022	19	975,751	30	476,514	7	39,496
Richfield Twp (Genesee Co)	2514	3	7/1/2022	14	814,086	10	333,151	5	46,709
Richfield Twp (Roscommon Co)	7202	4	4/1/2022	7	367,885	15	199,464	6	76,132
Richland Twp	7310	6	4/1/2022	11	435,401	11	430,716	3	3,865
Richmond, City of	5012	1	7/1/2022	10	526,198	7	205,822	1	14,134
Rochester, City of	6307	6	7/1/2022	31	2,584,529	54	1,540,172	7	153,964
Rockford, City of	4103	6	7/1/2022	31	2,093,822	33	558,969	15	202,338
Rockwood, City of	5810	3	7/1/2022	11	705,830	8	114,514	6	70,382
Rogers City, City of	7102	3	7/1/2022	17	943,834	28	819,216	7	63,588
Romeo Dist Lib	5006	2	7/1/2022	2	119,470	21	230,438	5	84,416
Romeo, Vlg of	5005	5	7/1/2022	20	1,182,907	24	537,872	4	62,465
Romulus, City of	8225	7	7/1/2022	65	4,827,700	73	3,942,200	11	248,160
Roosevelt Park, City of	6107	3	12/1/2022	5	538,705	21	379,693	8	100,815
Roscommon Co	7201	6	1/1/2022	62	3,511,908	122	1,830,942	32	381,297
Roscommon Co Trans Auth	7205	1	10/1/2022	9	416,950	16	252,906	0	0
Rose City, City of	6504	1	7/1/2022	5	180,091	4	45,393	2	6,228
Rose Twp	6506	1	4/1/2022	5	44,975	6	13,001	0	0
Royal Oak, Chtr Twp of	6306	5	1/1/2022	2	69,917	12	246,558	1	469
Saginaw Chtr Twp	7314	2	4/1/2022	41	3,015,404	32	1,417,447	9	124,997
Saginaw Co	7303	22	10/1/2022	9	498,231	548	13,411,562	28	206,550
Saginaw Co 911 Com Ctr	7316	4	10/1/2022	0	0	35	1,165,890	2	36,108
Saginaw Co CMH	7318	5	10/1/2022	3	203,476	98	1,590,496	13	67,694
Saginaw CRC	7304	8	1/1/2022	71	4,227,711	108	2,613,972	7	85,109
Saginaw HC	7321	4	7/1/2022	6	249,030	15	383,309	4	50,003
Saginaw Trans Sys Auth	7319	1	10/1/2022	29	1,362,297	19	178,226	9	75,453
Saginaw, City of	7301	13	7/1/2022	234	13,700,046	831	30,675,667	27	312,428
Saginaw, Pub Lib of	7317	1	7/1/2022	12	670,415	7	67,850	10	107,864
Saginaw-Midland Muni Wtr Corp	7305	3	7/1/2022	3	190,650	13	382,793	2	91,354
Saline, City of	8105	5	7/1/2022	39	2,920,895	79	2,018,894	12	255,808



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Sandusky Dist Lib	7404	1	1/1/2022	0	0	2	35,000	0	0
Sandusky, City of	7402	4	3/1/2022	18	989,163	16	352,825	4	41,417
Sanilac CRC	7410	1	1/1/2022	49	2,785,856	26	586,898	0	0
Saranac HC	3413	1	4/1/2022	3	137,843	3	65,885	0	0
Saugatuck Twp	0305	3	7/1/2022	3	154,049	5	66,618	3	23,954
Saugatuck Twp Fire Dist	0313	1	7/1/2022	6	364,551	1	15,901	1	8,602
Saugatuck, City of	0307	2	7/1/2022	10	547,229	13	171,712	3	33,856
Sault Ste. Marie HC	4906	1	4/1/2022	10	492,292	6	150,455	0	0
Sault Ste. Marie Tribe of Chippewa Indians	8404	1	1/1/2022	27	1,483,689	2	4,832	2	8,187
Sault Ste. Marie, City of	1701	8	7/1/2022	74	3,952,905	97	2,398,453	12	135,533
SCCMUA	1905	2	1/1/2022	8	474,461	15	305,328	5	64,896
Schoolcraft Co	7503	17	10/1/2022	88	3,999,885	147	2,562,005	46	268,470
Schoolcraft Co Trans Auth	7506	3	10/1/2022	7	271,827	5	106,066	0	0
Schoolcraft CRC	7501	3	10/1/2022	16	904,067	42	1,233,066	5	78,336
Schoolcraft Memorial Hosp	7505	5	1/1/2022	13	810,933	76	1,642,891	19	379,541
Scio Twp	8116	2	4/1/2022	15	1,226,893	9	199,812	1	16,330
Scottville, City of	5308	1	7/1/2022	9	465,211	3	42,444	5	47,332
SE Oakland Co Rsrc Rec Auth	6310	3	7/1/2022	18	1,057,065	26	380,525	6	67,059
SE Oakland Co Wtr Auth	6309	4	7/1/2022	17	1,137,479	25	733,024	1	548
Sebewaing, Vlg of	3205	5	4/1/2022	12	955,417	22	536,958	3	54,862
SEMCOG	8210	2	7/1/2022	57	4,364,944	74	2,327,571	21	224,339
Shepherd, Vlg of	3704	1	3/1/2022	5	254,396	3	32,534	1	7,836
Shiawassee Co	7602	30	1/1/2022	304	15,069,544	430	8,828,671	128	1,085,098
Shiawassee Council on Aging	7605	1	1/1/2022	7	249,737	7	69,535	1	1,344
Shiawassee CRC	7601	6	1/1/2022	37	1,964,241	49	1,488,547	8	202,155
Shiawassee Dist Lib	7606	2	12/1/2022	5	306,812	5	121,133	2	42,965
Shiawassee Hlth & Wellness	7609	4	10/1/2022	118	6,030,382	89	1,035,039	55	465,772
Sims Whitney Util Auth	0606	2	7/1/2022	2	137,052	3	29,705	0	0
SMART	8216	10	7/1/2022	724	41,411,960	967	18,665,285	140	1,629,274
South Haven Area ESA	8005	3	1/1/2022	16	1,208,472	9	462,537	0	0
South Haven, City of	8001	7	7/1/2022	86	5,686,385	82	1,797,145	22	290,399
South Lyon, City of	6315	5	7/1/2022	30	2,348,598	32	858,217	8	129,810
Southgate, City of	8262	1	7/1/2022	33	2,009,802	83	2,258,481	5	93,636
Sparta, Vlg of	4107	5	1/1/2022	12	741,086	13	240,547	3	37,526
Spring Lake Dist Lib	7016	3	1/1/2022	8	399,489	6	186,968	2	32,014
Spring Lake, Vlg of	7015	3	7/1/2022	5	227,910	10	340,490	9	144,216
Springfield, City of	1303	4	7/1/2022	14	727,199	43	921,525	14	188,543
St Charles, Vlg of	7308	4	4/1/2022	9	453,855	13	317,903	4	34,535
St Clair HC	7715	1	1/1/2022	0	0	4	82,371	0	0
St Clair Shores HC	5007	1	1/1/2022	9	517,613	12	217,858	0	0
St Clair, City of	7703	9	10/1/2022	13	877,340	50	1,645,229	6	90,349
St Ignace, City of	4904	7	1/1/2022	27	1,267,201	38	1,028,454	8	33,433
St Johns, City of	1902	9	7/1/2022	12	797,343	55	1,368,116	3	27,872
St Joseph Co	7803	5	1/1/2022	164	9,068,826	173	3,346,223	57	475,541
St Joseph Twp	1122	1	1/1/2022	16	899,552	2	89,030	0	0
St Louis HC	2908	1	7/1/2022	3	161,763	1	21,858	0	0
St Louis, City of	2902	4	7/1/2022	3	217,905	28	656,556	3	21,138
Stambaugh Twp	3615	1	4/1/2022	1	52,582	1	5,302	0	0
Standish, City of	0601	1	7/1/2022	0	0	12	242,462	1	10,081
Stanton, City of	5903	1	3/1/2022	0	0	2	5,670	0	0
Stephenson, City of	5504	2	7/1/2022	2	119,190	3	33,583	0	0
Sterling, Vlg of	0605	1	4/1/2022	1	38,463	2	28,238	0	0
Stockbridge, Vlg of	3316	1	3/1/2022	6	270,004	4	45,358	4	46,068
Sturgis HC	7805	1	10/1/2022	0	0	1	6,006	2	13,236
Summit Twp	3803	4	4/1/2022	38	2,261,934	32	915,507	5	133,056
Sumpter Twp	8226	3	4/1/2022	30	2,368,813	14	442,246	3	64,513
Superior Cntr Twp	8109	2	1/1/2022	30	2,348,774	16	501,867	2	13,259
Superior Dist Lib	1702	1	7/1/2022	13	416,034	7	70,317	0	0
Superiorland Lib Coop	5208	2	10/1/2022	0	0	4	89,907	1	4,390
Suttons Bay Bingham Fire Auth	4506	1	4/1/2022	10	873,750	2	72,644	1	12,356
SW Mich Comm Amb Svcs	1119	1	7/1/2022	16	1,142,807	4	123,656	4	114,799
SW Shiawassee ESA	7611	1	1/1/2022	15	795,980	2	16,838	5	72,299
Swan Creek Twp	7309	1	4/1/2022	6	164,797	8	71,540	0	0
Swartz Creek, City of	2504	2	7/1/2022	2	107,856	15	552,113	0	0
Sylvan Lake, City of	6314	2	7/1/2022	4	281,142	7	197,732	1	7,728
Tawas Police Auth	3504	1	7/1/2022	0	0	4	73,734	4	62,969
Taylor HC	8231	1	4/1/2022	2	159,618	4	50,505	0	0
The Lib Network	8218	4	10/1/2022	24	1,233,611	29	423,309	3	30,290
Three Rivers, City of	7801	10	7/1/2022	61	3,491,232	59	1,291,138	28	274,432
Tittabawassee Twp	7322	2	4/1/2022	17	1,017,312	8	220,581	0	0
Traverse Area Dist Lib	2807	1	1/1/2022	21	983,007	39	538,728	4	47,448
Traverse City Light & Power	2811	5	7/1/2022	27	2,351,541	62	2,427,725	7	90,754
Traverse City, City of	2801	5	7/1/2022	95	6,230,594	132	3,126,592	31	281,558
Trenton, City of	8203	2	7/1/2022	5	362,505	118	3,807,940	1	7,652
Tri-County Aging Consortium	3307	3	10/1/2022	95	4,110,647	73	639,931	13	91,233
Trio Council on Aging Inc CLD	6507	1		0	0	3	24,721	1	3,287
Tuscarora Twp	1604	1	7/1/2022	9	572,311	4	89,622	1	18,941





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Tuscola Co	7902	16	1/1/2022	97	5,186,569	135	2,375,352	24	311,110
Tuscola Co CMH	7907	1	10/1/2022	104	5,456,241	78	974,792	23	191,380
Tuscola Co Hlth Dpt	7901	2	1/1/2022	15	769,325	38	842,782	1	55,892
Tuscola Co MCF	7906	2	1/1/2022	192	9,494,515	109	981,914	56	298,845
Tuscola CRC	7908	3	1/1/2022	21	985,861	27	483,527	3	38,864
Twin City Pub Safety Auth CLD	3610	1		0	0	2	6,414	1	2,929
Ubly, Vlg of	3212	1	3/1/2022	0	0	3	81,926	3	30,184
Utica, City of	5008	4	7/1/2022	14	844,220	14	393,702	0	0
Van Buren Co	8006	10	10/1/2022	255	13,607,023	132	2,413,000	41	474,487
Van Buren Dist Lib	8007	2	1/1/2022	8	334,970	10	153,993	3	14,198
Van Buren Twp	8236	2	1/1/2022	48	4,135,791	17	872,172	9	214,488
Vassar, City of	7903	3	7/1/2022	3	209,638	31	630,704	7	64,760
Vevay Twp	3318	2	4/1/2022	2	71,309	7	66,924	0	0
Vicksburg Dist Lib	3904	1	3/1/2022	0	0	3	14,465	1	716
Vicksburg, Vlg of	3902	2	7/1/2022	6	338,305	12	183,507	15	122,135
Vienna, Chtr Twp of	2522	1	1/1/2022	3	155,325	8	141,078	2	44,795
W Iron Co Swr Auth	3612	3	7/1/2022	3	164,192	4	93,392	2	15,898
W Mich CMH Sys	5304	1	10/1/2022	1	66,604	21	456,449	1	1,949
W Mich Shoreline Rgnl Dev Comm	6110	1	10/1/2022	10	607,481	10	312,014	4	13,066
W UP Dist Hlth Dept	3101	2	1/1/2022	18	750,724	105	1,274,791	31	206,105
Wakefield, City of	2701	1	7/1/2022	14	676,214	21	394,261	2	25,159
Walker, City of	4112	4	7/1/2022	16	1,247,532	63	1,875,315	2	38,502
Walled Lake, City of	6324	8	7/1/2022	21	1,568,939	34	967,083	15	279,792
Washtenaw Co	8113	4	1/1/2022	305	23,606,557	152	7,135,691	41	807,074
Washtenaw CRC	8102	4	10/1/2022	126	8,505,000	141	4,662,662	19	347,580
Wayland, City of	0304	3	7/1/2022	19	1,212,030	29	548,830	8	56,066
Wayne HC	8252	1	1/1/2022	3	146,648	2	60,680	0	0
Wayne, City of	8242	21	7/1/2022	72	4,756,518	202	8,176,622	26	616,905
Webberville, Vlg of	3314	1	4/1/2022	6	313,227	5	40,186	2	9,988
West Branch Dist Lib	6509	1	7/1/2022	3	114,188	1	21,523	0	0
West Branch, City of	6505	5	7/1/2022	16	841,503	23	467,557	3	12,803
Westland, City of	8211	16	7/1/2022	56	3,870,250	311	10,602,726	42	640,100
Westphalia, Vlg of	1907	1	3/1/2022	1	74,712	3	59,109	0	0
Wexford Co	8302	16	1/1/2022	126	6,222,462	123	2,199,535	43	508,129
Wexford CRC	8303	4	1/1/2022	30	1,703,634	51	1,019,312	9	84,747
White Cloud Cmnty Lib	6208	2	7/1/2022	2	74,766	3	68,760	1	1,781
White Cloud, City of	6206	2	7/1/2022	8	383,033	10	90,996	3	15,860
White Cloud/Sherman Util	6211	2	7/1/2022	3	142,505	2	24,546	0	0
White Lake Chtr Twp	6325	8	1/1/2022	88	6,042,970	61	2,126,968	12	229,601
White Pigeon, Vlg of	7804	1	4/1/2022	4	213,891	2	15,376	1	5,570
White Pine Dist Lib	5904	2	7/1/2022	1	30,178	5	25,691	0	0
Whitehall, City of	6105	6	7/1/2022	20	1,545,884	24	373,291	3	23,252
Willard Pub Lib	1308	3	7/1/2022	38	2,182,230	8	140,998	5	80,026
Williamston, City of	3310	6	7/1/2022	13	720,979	23	357,145	4	58,673
Wixom, City of	6316	6	7/1/2022	19	1,531,769	63	2,358,127	10	139,058
Wolverine Lake, Vlg of	6329	3	7/1/2022	11	732,370	11	193,370	2	59,686
WUPPDR	3108	1	10/1/2022	3	136,248	4	122,225	2	17,201
Ypsilanti Cmnty Util Auth	8106	6	9/1/2022	109	7,374,924	136	3,928,331	13	192,734
Ypsilanti HC	8115	2	7/1/2022	1	129,895	3	48,038	2	19,509
Ypsilanti, City of	8101	6	7/1/2022	42	2,260,273	50	1,024,691	20	197,333
Ypsilanti, Twp of	8104	3	1/1/2022	72	4,111,947	81	1,714,693	9	144,834
<b>Totals - Active Groups</b>	<b>731</b>	<b>3,087</b>		<b>31,019</b>	<b>1,833,562,238</b>	<b>44,409</b>	<b>1,034,962,782</b>	<b>8,843</b>	<b>101,590,865</b>
<b>Totals - Closed Groups</b>	<b>13</b>	<b>16</b>		<b>0</b>	<b>0</b>	<b>314</b>	<b>1,752,510</b>	<b>73</b>	<b>192,667</b>
<b>Totals - MERS</b>	<b>744</b>	<b>3,103</b>		<b>31,019</b>	<b>1,833,562,238</b>	<b>44,723</b>	<b>1,036,715,292</b>	<b>8,916</b>	<b>101,783,532</b>



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability				Total Liability	Actuarial Value of Assets <sup>1</sup>	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
21st Dist Ct	8243	877,200	14,887	2,992,024	0	3,884,111	2,478,844	63.8%
23rd Jud Dist Ct	8223	1,137,772	405,937	3,120,093	199	4,664,001	3,420,429	73.3%
26th Jud Cir Ct	0403	1,672,498	397,070	3,013,490	0	5,083,058	4,053,464	79.7%
34th Dist Ct	8235	4,465,274	1,545,880	7,504,773	12,196	13,528,123	7,813,503	57.8%
35th Dist Ct	8234	732,273	63,356	4,874,924	78,606	5,749,159	4,157,070	72.3%
41 B Dist Ct	5014	3,236,709	690,259	8,444,774	40,230	12,411,972	8,591,639	69.2%
Addison Fire Dept	4607	0	89,097	516,477	0	605,574	471,560	77.9%
Adrian, City of	4601	16,485,726	3,116,013	50,914,298	287,958	70,803,995	46,461,082	65.6%
Aitkin Memorial Dist Lib	7407	0	147,807	0	0	147,807	211,612	143.2%
Albion, City of	1301	2,605,293	644,673	12,230,760	0	15,480,726	13,996,156	90.4%
Alcona Co	0101	4,854,753	450,809	13,483,189	1,693	18,790,444	12,811,467	68.2%
Alger Co	0203	5,144,213	167,543	11,925,782	13,658	17,251,196	12,209,172	70.8%
Alger CRC	0201	4,202,545	539,161	7,122,653	8,722	11,873,081	8,228,676	69.3%
Algonac, City of	7707	414,127	1,176,928	5,572,071	6,317	7,169,443	6,148,933	85.8%
Allegan Co	0302	16,275,377	2,842,885	58,201,388	37,606	77,357,256	73,523,677	95.0%
Allegan CRC	0301	6,970,537	154,761	20,696,759	72,418	27,894,475	25,051,384	89.8%
Allegan, City of	0309	3,092,723	174,970	4,890,084	0	8,157,777	5,677,403	69.6%
Alma, City of	2901	8,140,834	1,777,629	17,744,092	123,130	27,785,685	21,686,754	78.1%
Almont, Vlg of	4407	878,226	522,506	2,113,229	759	3,514,720	2,821,412	80.3%
Alpena Co	0401	6,726,419	1,758,557	19,076,505	54,640	27,616,121	17,724,847	64.2%
Alpena CRC	0402	3,192,853	86,144	11,008,232	0	14,287,229	11,945,167	83.6%
Alpena HC	0406	1,386,466	0	1,778,229	7,108	3,171,803	3,273,074	103.2%
Alpena Sr Citizens Ctr	0404	0	0	677,537	0	677,537	202,174	29.8%
Alpha, Vlg of	3614	0	56,340	10,092	0	66,432	96,542	145.3%
Antrim Co	0502	27,767,918	4,948,472	29,477,932	161,854	62,356,176	49,856,417	80.0%
Antrim CRC	0501	6,268,992	157,866	10,448,235	7,429	16,882,522	10,496,462	62.2%
Arenac Co	0603	4,779,330	870,883	9,971,993	8,060	15,630,266	12,173,298	77.9%
Arenac CRC	0604	2,408,647	38,365	5,064,283	3,092	7,514,387	3,812,568	50.7%
Armada Twp	5022	271,221	0	0	11,917	283,138	266,722	94.2%
Ash Twp	5804	770,040	81,136	398,554	4,746	1,254,476	793,104	63.2%
Au Gres, City of	0602	0	262,495	2,047,010	0	2,309,505	1,777,091	76.9%
Auburn, City of	0905	0	163,072	1,495,280	1,907	1,660,259	1,066,080	64.2%
Bad Axe Area Dist Lib	3214	6,767	0	259,123	0	265,890	238,364	89.6%
Bad Axe, City of	3211	4,045,184	75,151	6,528,308	17,863	10,666,506	9,949,105	93.3%
Bancroft, Vlg of	7610	0	39,168	63,154	0	102,322	29,455	28.8%
Bangor, City of	8003	138,149	199,136	1,423,388	124	1,760,797	2,303,738	130.8%
Baraga Co	0702	3,229,232	1,026,341	4,604,679	0	8,860,252	6,418,619	72.4%
Baraga Co Memorial Hosp	0703	5,829,810	2,053,228	18,055,269	2,176	25,940,483	20,537,631	79.2%
Baraga CRC	0701	3,127,980	197,244	4,676,083	0	8,001,307	5,653,980	70.7%
Baraga, Vlg of	0704	1,203,140	366,714	3,277,927	0	4,847,781	2,200,588	45.4%
Baroda Lake Twp Police Dept	1109	688,232	214,067	115,929	0	1,018,228	703,362	69.1%
Barry Co	0802	46,665,491	6,666,514	49,595,781	353,054	103,280,840	85,630,574	82.9%
Barry Co CMH Auth	0804	7,299,498	1,307,546	6,490,247	133,660	15,230,951	12,369,081	81.2%
Barry Eaton Dist Hlth Dept	2303	4,016,060	2,424,584	17,919,270	200,622	24,560,536	18,331,869	74.6%
Barton Hills, Vlg of	8107	403,186	0	550,145	0	953,331	903,206	94.7%
Bates Twp	3616	0	0	302,769	0	302,769	120,799	39.9%
Bath Cntr Twp	1909	6,571,792	421,704	5,013,424	177,926	12,184,846	9,235,816	75.8%
Battle Creek, City of	1302	45,973,506	5,508,958	120,791,842	313,735	172,588,041	100,280,858	58.1%
Bay Area Trans Auth	2810	5,088,466	914,388	4,256,404	179,820	10,439,078	10,764,792	103.1%
Bay City HC	0906	1,315,124	0	7,817,106	0	9,132,230	9,074,051	99.4%
Bay City, City of	0901	8,493,568	1,765,682	66,690,103	5,788	76,955,141	73,795,494	95.9%
Bay Metro Trans Auth	0907	9,120,625	449,966	13,215,766	6,193	22,792,550	16,664,597	73.1%
Beecher Metro Dist Swg&Wtr	2501	2,133,707	212,091	5,655,240	0	8,001,038	6,358,394	79.5%
Belding, City of	3410	561,068	123,825	2,250,807	7,314	2,943,014	1,492,661	50.7%
Belleville, City of	8213	2,173,890	376,446	6,782,557	47,365	9,380,258	5,579,593	59.5%
Benton Harbor, City of	1120	2,411,535	726,184	25,728,439	84,121	28,950,279	10,954,881	37.8%
Benzie Co	1003	8,354,880	2,122,261	14,461,124	114,933	25,053,198	17,473,877	69.7%
Benzie Co Comm on Aging CLD	1006	0	406,912	1,071,720	0	1,478,632	938,049	63.4%
Benzie Co MCF (The Maples)	1004	3,117,821	1,176,174	6,546,882	153,658	10,994,535	10,085,391	91.7%
Benzie CRC	1001	1,272,609	546,368	6,376,316	0	8,195,293	5,592,605	68.2%
Benzie Shores Dist Lib	1005	0	0	367,406	0	367,406	355,355	96.7%
Benzie Trans Auth	1007	609,010	93,581	372,476	25,665	1,100,732	1,385,050	125.8%
Benzie/Leelanau Dist Hlth Dept	4504	827,003	0	665,320	0	1,492,323	1,188,649	79.7%
Berkley, City of	6304	6,395,179	1,087,027	16,715,106	106,520	24,303,832	13,626,095	56.1%
Berrien Springs, Vlg of	1102	731,369	156,656	1,162,027	0	2,050,052	1,880,769	91.7%
Bessemer, City of	2702	1,479,460	197,491	1,498,825	718	3,176,494	2,346,786	73.9%
Beverly Hills, Vlg of	6321	5,591,780	1,534,478	23,161,827	189	30,288,274	25,077,257	82.8%
Big Rapids HC	5406	911,193	0	2,348,092	0	3,259,285	2,886,480	88.6%
Big Rapids, City of	5402	3,175,992	186,876	12,474,619	0	15,837,487	11,281,864	71.2%
Bingham Farms, Vlg of	6332	44,554	0	488,410	0	532,964	438,358	82.2%
Birch Run, Vlg of	7315	1,592,382	113,895	856,782	6,331	2,569,390	2,499,241	97.3%
Bishop Intl Arpt Auth	2507	3,833,542	1,423,831	10,180,342	45,187	15,482,902	12,923,860	83.5%
Blackman Cntr Twp	3806	11,597,899	510,257	6,673,986	56,363	18,838,505	13,399,793	71.1%
Blissfield, Vlg of	4606	1,794,368	437,781	3,403,026	0	5,635,175	4,863,406	86.3%
Bloomfield Hills, City of	6302	11,369,365	788,757	32,523,370	19,480	44,700,972	35,272,017	78.9%
Blue Water Area Trans Comm	7709	6,730,266	479,974	8,838,457	0	16,048,697	12,677,870	79.0%
Boyne City HC	1508	234,562	213,861	1,026,894	1,563	1,476,880	1,247,220	84.4%
Boyne City, City of	1506	1,954,010	301,992	7,698,295	9,903	9,964,200	9,039,874	90.7%
Branch Co	1205	22,067,795	18,142,535	39,676,515	660,379	80,547,224	83,041,476	103.1%



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability					Actuarial Value of Assets <sup>1</sup>	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability	Total Liability		
Branch-Hillsdale-St Joseph Comm Hlth Agcy	1202	5,806,004	2,137,513	11,235,887	28,501	19,207,905	17,864,138	93.0%
Brandon Chtr Twp of	6333	3,969,678	340,657	5,471,421	791	9,782,547	7,348,488	75.1%
Breckenridge,Vlg of	2906	646,443	194,147	1,888,297	13,626	2,742,513	1,142,105	41.6%
Bridgeport Chtr Twp	7307	3,769,811	1,276,823	6,608,980	32,395	11,688,009	8,079,155	69.1%
Bridgman, City of	1110	1,055,724	200,285	1,351,499	16,862	2,624,370	2,014,223	76.8%
Brighton Area Fire Auth	4715	0	0	604,756	0	604,756	587,077	97.1%
Brighton, Chtr Twp of	4711	1,639,922	209,662	1,217,063	264	3,066,911	3,614,811	117.9%
Brighton, City of	4704	8,806,044	1,207,405	19,533,827	20,479	29,567,755	20,504,416	69.3%
Britton, Vlg of	4604	339,841	17,983	0	1,823	359,647	750,845	208.8%
Bronson, City of	1204	1,598,100	324,360	1,083,219	49,079	3,054,758	2,446,150	80.1%
Brooklyn, Vlg of	3801	559,199	15,365	778,886	44,960	1,398,410	1,041,873	74.5%
Brownstown, Chtr Twp of	8247	25,103,883	670,785	19,155,451	79,009	45,009,128	33,187,836	73.7%
Buchanan Dist Lib	1108	87,218	7,716	385,274	0	480,208	523,805	109.1%
Buchanan, City of	1101	2,504,940	574,048	6,352,647	62,241	9,493,876	10,041,201	105.8%
Buena Vista Chtr Twp	7312	3,204,587	953,268	9,831,398	47,720	14,036,973	10,097,949	71.9%
Burton, City of	2508	7,352,460	2,317,300	51,950,401	139,342	61,759,503	33,324,627	54.0%
Butman Twp CLD	2604	0	0	82,095	0	82,095	112,624	137.2%
Cadillac, City of	8301	6,502,106	1,171,124	11,650,849	0	19,324,079	14,588,090	75.5%
Cadillac/Wexford Trans Auth	8305	1,247,290	0	2,022,892	0	3,270,182	2,630,470	80.4%
Calhoun Co	1311	56,007,336	8,604,956	75,490,708	1,073,422	141,176,422	137,455,651	97.4%
Calhoun Co Conso Disp Auth	1316	2,211,730	398,821	6,219,527	25,078	8,855,156	7,867,992	88.9%
Canton Pub Lib	8232	1,530,159	110,420	4,084,423	35,594	5,760,596	6,090,409	105.7%
Canton, Chtr Twp of	8233	62,020,159	2,725,264	109,056,026	97,212	173,898,661	125,037,251	71.9%
Capac, Vlg of	7705	142,864	107,658	2,583,946	11,261	2,845,729	896,180	31.5%
Capital Area Dist Lib	3317	9,513,833	665,223	5,607,739	114,861	15,901,656	13,770,197	86.6%
Capital Region Arprt Auth	3305	5,368,769	2,542,299	12,961,149	5,806	20,878,023	18,982,178	90.9%
Carleton, Vlg of	5805	669,265	38,287	1,010,468	3,758	1,721,778	1,308,908	76.0%
Carrollton Twp	7320	2,736,283	535,137	2,227,288	0	5,498,708	4,632,011	84.2%
Cascade Chtr Twp	4110	3,802,579	589,410	9,688,681	3,368	14,084,038	10,537,972	74.8%
Caseville, City of	3207	1,918,552	170,987	2,154,715	953	4,245,207	3,174,720	74.8%
Caspian, City of	3608	390,704	8,027	954,663	0	1,353,394	814,634	60.2%
Cass Co	1402	17,741,672	1,327,852	23,279,249	164,733	42,513,506	32,745,333	77.0%
Cass Co MCF	1403	3,161,639	298,349	4,708,988	307,021	8,475,997	7,750,552	91.4%
Cass Dist Lib	1404	648,505	165,331	544,814	6,849	1,365,499	1,301,833	95.3%
Cedar Springs, City of	4105	646,920	690,320	2,386,316	11,196	3,734,752	3,075,584	82.4%
Center Line, City of	5001	1,142,012	340,826	7,660,970	82,219	9,226,027	4,293,022	46.5%
Central Lake, Vlg of	0504	408,498	17,686	0	0	426,184	421,253	98.8%
Central Mich Dist Hlth Dept	3705	6,284,314	2,125,081	18,711,604	36,461	27,157,460	20,099,182	74.0%
Charlevoix Co	1503	29,879,666	6,108,480	39,134,500	13,037	75,135,683	56,516,241	75.2%
Charlevoix CRC	1501	4,103,688	359,647	5,900,633	586	10,364,554	9,910,865	95.6%
Charlevoix, City of	1505	3,871,409	698,600	11,569,171	25,629	16,164,809	11,431,162	70.7%
Charlotte Comm Lib	2309	125,339	8,387	852,863	0	986,589	719,454	72.9%
Charlotte, City of	2301	6,564,114	338,402	19,200,203	29,126	26,131,845	14,531,653	55.6%
Cheboygan Co	1603	17,476,215	2,080,389	19,297,679	106,352	38,960,635	28,412,552	72.9%
Cheboygan CRC	1601	5,569,916	485,970	19,601,572	4,264	25,661,722	13,574,125	52.9%
Cheboygan, City of	1602	3,469,620	124,760	9,545,950	7,789	13,148,119	7,856,577	59.8%
Chelsea Area Fire Auth	8118	1,508,964	102,426	255,275	22,459	1,889,124	1,676,902	88.8%
Chelsea, City of	8103	1,499,938	596,327	11,649,767	0	13,746,032	12,753,608	92.8%
Chesaning, Vlg of	7313	957,177	280,208	2,978,350	0	4,215,735	1,450,690	34.4%
Chesterfield Twp	5009	24,896,922	1,505,688	30,191,607	104,614	56,698,831	41,838,231	73.8%
Chesterfield Twp Lib	5010	777,081	469,101	781,408	7,578	2,035,168	2,046,990	100.6%
Chikaming Twp	1112	1,087,020	101,779	1,740,123	47,577	2,976,499	2,256,516	75.8%
Chippewa Co	1703	19,387,826	1,433,588	37,067,437	89,194	57,978,045	38,920,343	67.1%
Chippewa Co - Emplmt & Trng CLD	1710	0	0	1,715,195	3,147	1,718,342	2,204,806	128.3%
Chippewa CRC	1704	8,626,099	172,403	15,337,718	11,638	24,147,858	12,511,072	51.8%
Chippewa River Dist Lib	3707	2,229,741	279,778	1,977,652	26,667	4,513,838	4,209,775	93.3%
Chocolay, Chtr Twp of	5218	889,990	204,754	1,275,954	25,141	2,395,839	2,398,274	100.1%
Clare Co	1802	12,926,954	3,725,399	14,230,981	227,450	31,110,784	22,849,789	73.4%
Clare Co Trans Auth	1806	315,262	16,712	91,112	0	423,086	356,687	84.3%
Clare CRC	1801	4,662,735	468,785	9,577,805	31,082	14,740,407	11,780,643	79.9%
Clare, City of	1804	3,859,593	946,369	7,127,532	10,782	11,944,276	7,291,953	61.0%
Clawson, City of	6305	3,335,077	395,224	23,580,330	6,801	27,317,432	26,213,676	96.0%
Clay Twp	7706	6,091,202	846,976	6,300,972	50,805	13,289,955	8,831,893	66.5%
Clearwater Twp	4005	0	77,229	100,461	0	177,690	125,656	70.7%
Clinton Co	1903	25,721,980	3,875,770	42,519,422	2,325	72,119,497	77,291,970	107.2%
Clinton CRC	1901	6,172,342	1,015,745	19,225,290	17,259	26,430,636	23,427,439	88.6%
Clinton Twp	5002	26,249,394	1,336,422	63,550,705	224,329	91,360,850	67,175,226	73.5%
Clinton, Vlg of	4602	2,313,455	578,731	4,303,624	0	7,195,810	7,565,357	105.1%
Clinton-Eaton-Ingham CMH	3308	99,851,464	11,275,396	140,623,510	1,763,163	253,513,533	201,189,868	79.4%
Clio, City of	2523	721,281	169,137	1,595,245	27,382	2,513,045	1,881,780	74.9%
CMH for Central Mich	3708	43,894,422	10,022,072	53,585,832	24,196	107,526,522	108,057,902	100.5%
Coldwater Brd of Pub Util	1203	4,851,285	368,510	9,613,180	0	14,832,975	10,272,276	69.3%
Coldwater, City of	1201	3,819,132	588,701	13,505,934	0	17,913,767	14,414,320	80.5%
Coleman, City of	5603	694,631	2,086	3,058,594	7,888	3,763,199	2,252,097	59.8%
Coloma Chtr Twp	1107	1,542,250	433,488	1,414,216	22,892	3,412,846	3,761,751	110.2%
Coloma, City of	1118	929,315	0	426,985	3,603	1,359,903	1,318,086	96.9%
Columbiaville, Vlg of	4406	505,794	0	265,717	902	772,413	592,428	76.7%
Constantine, Vlg of	7806	38,207	82,895	0	12,306	133,408	213,663	160.2%
Coopersville Area Dist Lib	7011	0	9,616	566,138	0	575,754	523,258	90.9%



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability					Actuarial Value of Assets <sup>1</sup>	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability	Total Liability		
Coopersville, City of	7005	1,139,288	583,754	2,298,340	22,726	4,044,108	2,901,664	71.8%
Corunna City of	7604	2,377,613	87,243	4,615,167	618	7,080,641	6,852,630	96.8%
Corwith Twp	6904	197,167	36,749	5,310	0	239,226	243,627	101.8%
Covert Twp	8010	1,202,499	687,833	742,964	53,204	2,686,500	2,177,495	81.1%
Crawford Co	2001	7,067,316	901,603	16,838,511	3,532	24,810,962	24,686,723	99.5%
Crawford Co Trans Auth	2004	3,412,517	313,892	3,840,188	7,266	7,573,863	6,315,650	83.4%
Crawford CRC	2002	4,571,586	128,283	7,668,156	2,040	12,370,065	6,169,376	49.9%
Crosswell, City of	7401	4,516,138	744,001	7,839,360	15,322	13,114,821	8,333,199	63.5%
Crystal Falls Cmnty Hosp CLD	3618	0	278,190	3,320,900	0	3,599,090	4,332,662	120.4%
Crystal Falls, City of	3603	3,006,043	394,544	7,894,415	0	11,295,002	6,870,681	60.8%
Ctrl Wayne Co Sanitation Auth	8214	0	111,513	1,832,428	0	1,943,941	1,759,445	90.5%
Davison Richfield Sr CCA	2525	101,255	0	237,381	0	338,636	217,079	64.1%
Davison Twp	2519	9,678,304	782,191	11,760,058	37,358	22,257,911	18,229,159	81.9%
Davison, City of	2516	3,629,529	222,613	12,528,372	24,345	16,404,859	8,523,497	52.0%
Dearborn, City of	8251	35,810,596	104,045	749,315	154,017	36,817,973	35,576,819	96.6%
Deerfield, Vlg of	4603	139,817	301,991	1,332,129	0	1,773,937	1,126,400	63.5%
Delta Area Transit Auth	2107	272,084	0	0	0	272,084	147,016	54.0%
Delta Chtr Twp	2306	6,750,717	822,821	13,478,930	80,575	21,133,043	16,097,363	76.2%
Delta Co	2102	12,617,376	2,317,653	32,721,181	1,850	47,658,060	34,474,384	72.3%
Delta CRC	2105	3,422,622	782,527	10,644,451	16,739	14,866,339	9,990,960	67.2%
Delta-Menominee Dist Hlth Dept	2103	4,523,815	2,139,542	8,337,717	19,290	15,020,364	12,876,495	85.7%
Detour, Vlg of	1706	342,273	190,833	335,571	0	868,677	328,728	37.8%
Detroit HC	8241	9,937,331	4,097,730	11,253,595	130,259	25,418,915	25,601,759	100.7%
DeWitt Chtr Twp	1910	3,621,691	277,848	5,541,723	9,741	9,451,003	7,170,220	75.9%
DeWitt, City of	1908	2,731,292	819,337	3,063,227	1,408	6,615,264	4,649,101	70.3%
Dexter Area Fire Dept	8219	1,994,817	0	460,852	0	2,455,669	1,985,819	80.9%
Dexter Twp	8111	107,184	10,988	942,532	93,598	1,154,302	1,276,234	110.6%
Dexter, City of	8217	2,759,888	93,475	2,464,058	0	5,317,421	4,982,600	93.7%
Dickinson Co	2206	13,503,476	2,361,454	29,084,515	154,690	45,104,135	27,541,520	61.1%
Dickinson CRC	2203	3,047,338	440,024	8,575,643	0	12,063,005	6,750,261	56.0%
Dickinson-Iron Dist Hlth Dept	3605	3,943,447	933,373	6,949,905	3,634	11,830,359	8,703,678	73.6%
Dimondale,Vlg of	2304	177,093	58,990	894,857	0	1,130,940	848,624	75.0%
Dist Hlth Dept # 2	6501	1,803,599	489,949	6,441,479	5,973	8,741,000	7,586,819	86.8%
Dist Hlth Dept # 4	7103	2,818,228	668,625	21,307,803	188	24,794,844	14,288,033	57.6%
Dist Hlth Dept #10	5104	6,228,724	1,150,611	27,091,213	2,259	34,472,807	22,115,075	64.2%
Douglas, City of Vlg of	0303	2,271,793	806,293	1,724,035	1,156	4,803,277	4,645,013	96.7%
Dowagiac Dist Lib	1406	103,631	0	99,810	9,383	212,824	191,957	90.2%
Dowagiac HC	1405	147,812	31,411	198,340	0	377,563	337,588	89.4%
Dowagiac, City of	1401	3,975,782	3,389,169	17,869,893	114,089	25,348,933	12,942,378	51.1%
Drummond Island Twp	1708	308,930	0	31,448	0	340,378	315,897	92.8%
Dryden, Vlg of	4405	92,093	174,586	144,275	0	410,954	321,313	78.2%
Dundee, Vlg of	5803	656,556	701,356	3,440,807	59,340	4,858,059	5,363,967	110.4%
Durand, City of	7603	1,699,265	783,267	5,517,089	0	7,999,621	5,176,406	64.7%
E UP Reg Planning & Dev Comm	1709	502,748	0	0	8,260	511,008	706,359	138.2%
E UP Trans Auth	1705	4,007,274	348,840	10,110,403	0	14,466,517	6,623,109	45.8%
East China Chtr Twp	7701	1,230,433	557,037	8,513,641	11,026	10,312,137	6,385,913	61.9%
East Jordan, City of	1504	2,170,590	502,808	3,485,390	17,004	6,175,792	4,302,245	69.7%
East Lansing, City of	3301	46,867,587	5,829,278	176,125,641	17,488	228,839,994	138,618,512	60.6%
Eastpointe HC	5011	562,192	0	1,225,632	0	1,787,824	1,500,902	84.0%
Eastpointe, City of	5019	19,721,253	1,527,219	78,528,540	0	99,777,012	53,219,606	53.3%
Eaton Co	2302	44,166,628	9,643,885	131,070,060	738,044	185,618,617	116,945,853	63.0%
Eaton Co Hlth & Rehab Svcs	2305	10,200,299	1,102,645	5,558,424	785,221	17,646,589	16,050,489	91.0%
Eaton Rapids, City of	2307	3,584,713	1,803,208	11,968,790	16,420	17,373,131	10,625,343	61.2%
Eau Claire, Vlg of	1104	185,473	0	369,680	400	555,553	222,713	40.1%
Ecorse, City of	8206	6,518,956	904,264	36,049,807	161	43,473,188	23,612,806	54.3%
Elk Rapids, Vlg of	0506	1,494,246	140,199	2,242,904	91,391	3,968,740	3,071,695	77.4%
Elkton, Vlg of	3206	248,634	11,964	456,580	0	717,178	779,777	108.7%
Elsie, Vlg of CLD	1906	0	0	135,255	1,271	136,526	226,782	166.1%
Emmet CRC	2401	4,143,639	12,398	13,440,249	0	17,596,286	13,696,177	77.8%
Emmett, Chtr Twp	1310	4,265,708	1,131,955	2,696,015	5,962	8,099,640	6,238,514	77.0%
Erie, Twp of	5812	61,014	195,060	0	31,154	287,228	265,398	92.4%
Escanaba, City of	2101	6,117,648	2,075,247	33,139,686	0	41,332,581	28,264,386	68.4%
Essexville, City of	0903	1,484,411	563,703	5,488,903	48,590	7,585,607	5,521,575	72.8%
Ewart, City of	6705	638,056	398,289	2,461,371	2,070	3,499,786	2,388,116	68.2%
Farmington Cmnty Lib	6319	1,998,861	278,830	8,392,531	1,610	10,671,832	9,302,971	87.2%
Farmington, City of	6343	10,838,323	885,168	20,214,856	3,742	31,942,089	24,272,225	76.0%
Farwell, Vlg of	1805	81,058	7,982	529,346	17,137	635,523	468,905	73.8%
Fenton, City of	2505	7,417,264	878,309	14,376,230	9,069	22,680,872	16,993,125	74.9%
Ferndale HC	6345	677,591	604,333	166,587	9,294	1,457,805	1,079,236	74.0%
Ferrysburg, City of	7106	990,426	34,044	1,951,211	0	2,975,681	2,288,392	76.9%
Flat Rock, City of	8212	6,258,835	1,319,893	24,178,774	144,941	31,902,443	14,323,622	44.9%
Flint Pub Lib	2518	1,929,502	284,331	395,800	0	2,609,633	2,689,043	103.0%
Flint, Chtr Twp of	2512	9,298,491	819,570	33,291,315	162,340	43,571,716	27,033,267	62.0%
Flint, City of	2530	57,965,930	11,933,584	492,989,623	163,725	563,052,862	158,006,988	28.1%
Flushing, Chtr Twp of	2515	2,753,933	124,682	4,804,462	0	7,683,077	4,610,018	60.0%
Flushing, City of	2502	7,771,850	622,323	15,979,992	0	24,374,165	13,646,771	56.0%
Forsyth Twp	5212	2,914,179	569,694	5,746,527	0	9,230,400	6,291,056	68.2%
Fowler, Vlg of	1904	575,453	48,241	109,347	0	733,041	563,420	76.9%
Fowlerville Dist Lib	4710	37,031	65,088	646,511	19,973	768,603	620,393	80.7%



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability					Actuarial Value of Assets <sup>1</sup>	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability	Total Liability		
Fowlerville, Vlg of	4705	481,350	203,506	3,398,429	7,572	4,090,857	3,725,121	91.1%
Frankenmuth Wickson Dist Lib	7323	0	0	309,642	0	309,642	234,937	75.9%
Frankenmuth, City of	7306	6,079,035	441,814	12,834,193	4,122	19,359,164	12,976,972	67.0%
Frankfort, City of	1002	1,940,258	172,600	2,642,773	5,015	4,760,646	2,542,815	53.4%
Franklin, Vlg of	6323	931,404	173,685	8,486,524	28,099	9,619,712	5,257,271	54.7%
Fraser, City of	5003	14,915,844	3,017,555	52,213,828	73,386	70,220,613	40,321,116	57.4%
Fremont Area Dist Lib	6209	778,331	442,246	599,438	0	1,820,015	1,182,028	64.9%
Fremont, City of	6203	7,299,939	766,525	9,184,594	0	17,251,058	11,337,850	65.7%
Gaastra, City of	3617	65,204	0	418,006	0	483,210	272,966	56.5%
Garden City, City of	8255	26,658,454	471,815	89,323,668	266,562	116,720,499	67,597,090	57.9%
Gaylord, City of	6903	6,614,003	124,052	11,889,069	2,665	18,629,789	12,293,947	66.0%
Genesee Chtr Twp	2510	5,821,698	1,114,885	16,869,447	203	23,806,233	12,064,763	50.7%
Genoa Twp	4713	750,863	0	0	0	750,863	635,289	84.6%
Gerald R Ford Intl Arpt Auth	4116	11,348,634	1,556,095	15,085,610	14,093	28,004,432	33,744,675	120.5%
Gladstone, City of	2106	3,896,132	106,222	10,565,236	0	14,567,590	9,403,117	64.5%
Gladwin City HC	2608	1,038,551	166,869	3,499,903	31,777	4,737,100	3,580,422	75.6%
Gladwin Co	2602	12,485,893	1,896,983	17,085,626	151,256	31,619,758	21,039,688	66.5%
Gladwin Co Dist Lib	2607	657,642	14,765	913,616	6,986	1,593,009	1,213,853	76.2%
Gladwin CRC	2601	3,995,295	817,671	13,594,132	0	18,407,098	13,945,520	75.8%
Gladwin, City of	2605	1,108,637	100,213	1,607,259	7,565	2,823,674	2,309,199	81.8%
Gogebic-Iron WWTR Auth	2703	2,053,012	0	2,369,193	7,107	4,429,312	2,950,106	66.6%
Grand Beach, Vlg of	1117	389,289	194,762	90,954	847	675,852	709,401	105.0%
Grand Blanc Chtr Twp	2511	18,412,050	202,930	16,166,193	63,326	34,844,499	24,568,525	70.5%
Grand Blanc, City of	2513	5,387,908	198,625	12,857,889	38,281	18,482,703	16,824,370	91.0%
Grand Haven BLP	7026	7,123,174	1,496,062	37,887,768	51,414	46,558,418	44,035,160	94.6%
Grand Haven, City of	7010	24,182,815	4,380,758	63,811,925	404,801	92,780,299	65,108,893	70.2%
Grand Ledge Area Dist. Lib	2316	65,778	0	0	0	65,778	68,520	104.2%
Grand Ledge Area ESA	2310	2,373,177	137,821	509,567	525	3,021,090	2,360,366	78.1%
Grand Ledge, City of	2312	859,088	144,151	3,040,525	0	4,043,764	2,796,562	69.2%
Grand Rapids HC	4108	0	0	2,659,874	0	2,659,874	2,318,376	87.2%
Grand Traverse Co	2803	16,234,555	3,082,781	87,949,714	0	107,267,050	111,781,201	104.2%
Grand Traverse CRC	2802	0	144,197	8,795,533	0	8,939,730	8,385,761	93.8%
Grand Traverse Pavilions	2809	21,374,140	5,699,436	27,977,175	398,276	55,449,027	49,312,103	88.9%
Grandville, City of	4102	3,081,052	115,231	18,189,829	0	21,386,112	13,466,772	63.0%
Gratiot Co	2905	10,344,952	1,221,796	26,042,020	0	37,608,768	35,555,859	94.5%
Gratiot CRC	2903	8,329,932	85,996	14,328,541	0	22,744,469	17,438,606	76.7%
Grayling, City of	2003	560,700	254,971	3,663,204	0	4,478,875	3,167,387	70.7%
Green Oak Chtr Twp	4708	6,101,191	200,193	6,334,944	89,046	12,725,374	9,154,276	71.9%
Greenville, City of	5906	3,032,471	680,448	4,524,903	29,073	8,266,895	6,085,079	73.6%
Grosse Ile Twp	8207	12,433,665	2,095,086	28,573,231	6,157	43,108,139	27,086,303	62.8%
Grosse Pointe Park, City of	8201	14,920,797	1,393,135	40,141,155	57,056	56,512,143	31,675,443	56.1%
Grosse Pointe-Clinton Ref CLD	5004	0	108,054	1,972,386	0	2,080,440	2,790,551	134.1%
Groveland Twp	6335	810,922	240,090	1,435,135	0	2,486,147	3,536,707	142.3%
Hackley Pub Lib	6114	474,999	99,804	95,661	0	670,464	572,950	85.5%
Hamburg Twp	4709	4,770,375	586,038	3,064,741	9,402	8,430,556	6,821,394	80.9%
Hamtramck HC	8250	3,683,930	0	950,778	3,345	4,638,053	3,761,817	81.1%
Hamtramck, City of	8205	10,098,460	2,779,635	92,947,273	563,193	106,388,561	47,824,119	45.0%
Hancock, City of	3107	1,110,415	485,667	4,117,323	9,343	5,722,748	3,548,869	62.0%
Harbor Beach, City of	3201	4,992,434	0	6,273,560	8,572	11,274,566	8,808,453	78.1%
Harbor Springs Area Swg Auth	2406	432,341	0	1,184,259	0	1,616,600	1,333,100	82.5%
Harbor Springs, City of	2405	3,769,520	355,948	4,638,776	46,303	8,810,547	5,771,159	65.5%
Harper Woods, City of	8260	11,708,673	2,082,042	44,051,110	92,964	57,934,789	25,499,899	44.0%
Harrison Dist Lib	1807	0	0	281,104	0	281,104	163,175	58.0%
Harrison, City of	1803	844,448	175,433	3,678,340	738	4,698,959	2,869,917	61.1%
Hartland Deerfield Fire Auth	4716	1,094,788	110,933	0	0	1,205,721	1,263,457	104.8%
Hastings, City of	0801	3,140,573	1,291,054	14,257,175	3,930	18,692,732	8,692,067	46.5%
Hazel Park, City of	6336	22,009,256	974,301	59,416,836	149,244	82,549,637	35,649,475	43.2%
Helen Newberry Joy Hosp	4805	2,158,329	717,996	16,478,770	32,148	19,387,243	14,116,722	72.8%
Henika Dist Lib	0310	3,924	4,023	525,770	0	533,717	516,857	96.8%
Herrick Dist Lib	7012	3,403,309	457,414	5,960,092	277	9,821,092	8,071,530	82.2%
Hesperia, Vlg of	6214	39,184	96,364	0	2,019	137,567	146,684	106.6%
Hiawatha Bhvrl Hlth	1707	3,045,591	2,108,030	17,861,330	20,143	23,035,094	18,769,919	81.5%
Hillsdale Co	3005	3,939,758	771,413	5,885,320	57,022	10,653,513	6,929,692	65.0%
Hillsdale CRC	3004	5,221,294	235,303	9,131,047	770	14,588,414	10,734,630	73.6%
Hillsdale HC	3007	111,214	0	208,192	0	319,406	270,767	84.8%
Hillsdale, City of	3001	9,495,335	1,662,046	17,657,611	183,030	28,998,022	23,253,284	80.2%
Hlth Source of Saginaw	7311	16,024,296	3,977,868	34,449,122	9,820	54,461,106	46,788,722	85.9%
Holland Area Cmnty Pool Auth	7014	684,324	41,836	1,036,283	36,881	1,799,324	1,807,051	100.4%
Holland Cmnty Hosp CLD	7006	0	0	1,113,528	0	1,113,528	1,690,614	151.8%
Holland, City of	7001	52,746,106	4,446,575	103,934,696	11,545	161,138,922	150,078,534	93.1%
Holly, Vlg of	6317	4,416,926	991,959	12,615,070	2,065	18,026,020	8,953,522	49.7%
Homer, Vlg of	1304	600,143	166,846	1,243,290	0	2,010,279	1,737,091	86.4%
Houghton Co	3102	8,519,733	1,590,464	25,833,215	59,793	36,003,205	24,576,391	68.3%
Houghton CRC	3103	1,795,421	0	3,909,147	0	5,704,568	4,388,627	76.9%
Houghton Lake Pub Lib	7203	288,309	169,613	627,150	0	1,085,072	954,494	88.0%
Houghton, City of	3109	4,226,626	616,580	2,719,289	0	7,562,495	6,485,335	85.8%
Howard City, Vlg of	5902	0	241,234	633,278	0	874,512	902,103	103.2%
Howard Twp	1106	47,554	139,389	50,910	0	237,853	192,904	81.1%
Howell Area Fire Auth	4714	970,753	0	1,298,950	0	2,269,703	2,138,298	94.2%



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability					Actuarial Value of Assets <sup>1</sup>	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability	Total Liability		
Howell, City of	4702	6,723,924	3,121,488	21,682,049	92,705	31,620,166	20,691,514	65.4%
Howell-Carnegie Dist Lib	4707	1,595,920	19,840	940,305	0	2,556,065	2,661,031	104.1%
Hudsonville, City of	7004	0	544,139	2,165,536	1,171	2,710,846	2,246,546	82.9%
Huntington Woods, City of	6303	7,032,450	153,380	21,356,214	20,346	28,562,390	20,141,072	70.5%
Hurley Med Ctr	2521	176,614,474	34,916,189	491,172,177	6,308,403	709,011,243	505,056,196	71.2%
Huron BmvrI Hlth	3215	8,628,901	2,456,813	15,576,486	318,079	26,980,279	22,762,210	84.4%
Huron Chtr Twp	8224	11,206,893	1,868,273	19,566,057	49,553	32,690,776	23,156,058	70.8%
Huron Co	3204	40,676,152	3,729,867	69,998,597	646,421	115,051,037	79,780,052	69.3%
Huron CRC	3202	11,227,226	1,183,726	22,050,894	20,001	34,481,847	32,113,313	93.1%
Imlay City, City of	4404	2,330,015	238,869	7,720,022	26,167	10,315,073	7,400,591	71.7%
Independence Twp	6328	8,532,790	587,454	9,417,081	11,254	18,548,579	13,921,507	75.1%
Indianfields Twp CLD	7905	0	42,592	170,556	0	213,148	368,941	173.1%
Ingham Co	3303	171,090,224	28,473,174	381,296,342	1,533,543	582,393,283	374,097,287	64.2%
Interurban Trans Auth	0308	719,418	0	1,135,817	0	1,855,235	1,338,555	72.2%
Ionia Cmnty Lib	3412	248,249	107,547	533,231	0	889,027	559,296	62.9%
Ionia Co	3408	10,999,253	2,454,833	22,208,307	101,577	35,763,970	23,135,291	64.7%
Ionia HC	3406	301,225	0	1,264,313	0	1,565,538	1,296,730	82.8%
Ionia, City of	3403	10,662,990	479,815	17,962,793	0	29,105,598	19,007,989	65.3%
Iosco Co	3501	9,785,391	3,432,096	22,222,822	35,865	35,476,174	26,864,258	75.7%
Iosco CRC	3502	3,398,342	327,770	10,083,689	0	13,809,801	11,742,805	85.0%
Iron Co	3606	17,201,350	3,758,166	34,456,916	559,710	55,976,142	52,437,692	93.7%
Iron Co HC	3611	20,026	130,399	1,376,145	0	1,526,570	1,058,822	69.4%
Iron CRC	3602	3,980,677	445,188	10,097,526	0	14,523,391	8,592,274	59.2%
Iron Mountain, City of	2201	2,867,749	116,684	11,511,665	26,812	14,522,910	5,565,281	38.3%
Iron Mountain-Kingsford Swg	2205	1,565,397	54,765	334,382	508	1,955,052	1,512,869	77.4%
Iron River, City of	3601	548,664	640,367	10,326,030	0	11,515,061	6,215,498	54.0%
Ironwood, City of	2706	8,435,662	219,670	15,209,716	7,569	23,872,617	13,601,816	57.0%
Isabella Co	3703	25,531,099	5,261,166	46,992,126	33,510	77,817,901	58,630,918	75.3%
Isabella Co Trans Comm	3709	1,919,900	0	1,520,388	3,035	3,443,323	3,432,152	99.7%
Isabella CRC	3702	6,164,072	1,022,451	10,655,761	39,350	17,881,634	13,706,699	76.6%
Ishpeming Area Joint Wwtr Trtm	5207	347,348	17,059	2,132,876	0	2,497,283	2,652,992	106.2%
Ishpeming Twp	5216	836,283	36,151	1,197,169	9,880	2,079,483	2,067,310	99.4%
Ishpeming, City of	5204	3,639,847	542,278	15,811,152	86,292	20,079,569	19,586,844	97.5%
Ithaca, City of	2904	640,881	327,888	4,119,619	0	5,088,388	3,495,402	68.7%
Jackson Dist Lib	3802	3,942,529	403,241	6,358,715	13,862	10,718,347	9,769,465	91.1%
Jackson Trans Auth	3805	3,534,058	668,873	7,199,876	25,003	11,427,810	8,562,413	74.9%
Jordan Valley Dist Lib	1507	362,655	0	78,514	0	441,169	400,563	90.8%
Jordan Valley EMS Auth	1509	70,047	46,370	641,984	9,612	768,013	537,245	70.0%
Kalamazoo Lake Swr & Wtr Auth	0306	366,062	287,627	927,936	0	1,581,625	1,189,920	75.2%
Kalamazoo Pub Lib	3903	7,904,555	1,030,153	4,225,604	448	13,160,760	11,962,433	90.9%
Kalamazoo, Chtr Twp of	3907	6,720,340	658,591	10,992,942	35,568	18,407,441	14,333,779	77.9%
Kalkaska Co	4003	6,530,034	1,875,338	18,844,351	42,604	27,292,327	18,558,669	68.0%
Kalkaska CRC	4002	1,589,255	1,488,436	7,615,050	2,904	10,695,645	4,336,639	40.5%
Kalkaska Pub Trans Auth	4004	1,154,986	278,561	1,591,367	5,385	3,030,299	2,525,649	83.3%
Kalkaska, Vlg of	4001	764,961	245,062	5,990,761	4,410	7,005,194	3,106,827	44.4%
Keego Harbor, City of	6322	941,700	82,301	4,686,726	7,417	5,718,144	2,633,832	46.1%
Kent CRC	4111	0	0	85,763	0	85,763	133,858	156.1%
Keweenaw Co	4202	1,540,972	395,057	2,903,059	3,747	4,842,835	3,696,731	76.3%
Keweenaw CRC	4201	2,690,387	97,779	4,931,706	0	7,719,872	4,238,022	54.9%
Kinde, Vlg of	3209	94,703	0	189,743	0	284,446	340,480	119.7%
Kingsford, City of	2202	3,354,273	11,238	7,565,199	41,470	10,972,180	6,911,368	63.0%
L.M.A.S. Dist Hlth Dept	4803	3,001,395	2,262,070	7,246,435	414	12,510,314	8,636,812	69.0%
Lac Vieux Desert Band	8402	381,197	220,723	225,591	10,374	837,885	834,344	99.6%
Laingsburg, City of	7608	586,372	32,984	256,737	12,133	888,226	760,460	85.6%
Lake Co	4301	7,683,903	3,451,452	14,115,414	42,247	25,293,016	20,525,829	81.2%
Lake CRC	4302	3,180,537	432,576	8,795,875	4,292	12,413,280	6,913,738	55.7%
Lake Linden, Vlg of	3105	371,223	129,440	1,045,724	0	1,546,387	802,774	51.9%
Lake Odessa, Vlg of	3402	66,544	0	475,200	28,733	570,477	529,691	92.9%
Lake Orion, Vlg of	6318	1,019,865	137,429	3,437,944	27,814	4,623,052	3,178,638	68.8%
Lakeland Lib Coop	4106	883,323	42,598	614,529	8,974	1,549,424	1,678,374	108.3%
Lakeshore Coordinating Council CLD	7007	0	174,604	791,551	0	966,155	1,126,575	116.6%
Lakeview Cemetery	2407	205,042	0	0	0	205,042	207,837	101.4%
L'Anse, Vlg of	0705	1,951,260	210,569	6,309,671	0	8,471,500	4,303,251	50.8%
Lansing Chtr Twp	3320	6,862,318	352,713	5,644,412	66,577	12,926,020	11,138,221	86.2%
Lansing HC	3311	1,336,942	719,418	8,461,982	69,884	10,588,226	10,359,685	97.8%
Lapeer Co	4403	65,673,844	11,609,242	82,392,180	415,402	160,090,668	138,011,365	86.2%
Lapeer CRC	4402	6,239,553	441,021	15,257,418	22,539	21,960,531	19,534,793	89.0%
Lapeer Dist Lib	4410	1,495,047	412,252	3,937,047	73,350	5,917,696	3,901,373	65.9%
Lapeer, City of	4401	15,539,920	993,239	20,816,397	0	37,349,556	29,321,362	78.5%
Lathrup Vlg, City of	6311	2,058,366	58,362	6,738,680	76,089	8,931,497	7,241,036	81.1%
Laurium, Vlg of	3104	1,355,198	3,807	1,988,253	14,638	3,361,896	2,165,626	64.4%
Lawrence, Vlg of	8004	0	11,956	105,070	0	117,026	119,894	102.5%
Leelanau Co	4501	16,462,132	1,121,063	19,682,132	50,202	37,315,529	33,167,785	88.9%
Leelanau CRC	4503	1,490,752	594,704	6,841,090	11,386	8,937,932	9,089,685	101.7%
Leoni Twp	3804	302,677	2,299,120	4,365,901	31,312	6,999,010	5,623,975	80.4%
Leslie Twp	3319	566,160	0	111,311	0	677,471	668,528	98.7%
Leslie, City of	3313	903,437	289,554	1,502,635	932	2,696,558	1,780,750	66.0%
Lexington, Vlg of	7708	1,040,031	434,990	2,092,801	12,871	3,580,693	2,133,962	59.6%
Lima Twp	8112	284,563	0	264,090	96	548,749	577,747	105.3%



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability				Total Liability	Actuarial Value of Assets <sup>1</sup>	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
Lincoln Park, City of	8244	3,360,250	1,248,470	38,495,811	0	43,104,531	10,733,507	24.9%
Litchfield, City of	3006	980,708	120,484	1,484,248	7,923	2,593,363	1,897,462	73.2%
Livingston Co	4703	74,774,626	14,345,692	110,058,677	43,221	199,222,216	164,930,768	82.8%
Livingston Co CMH Auth	4712	12,017,718	4,866,904	14,075,591	0	30,960,213	25,376,707	82.0%
Livingston CRC	4701	11,802,660	435,718	17,387,923	0	29,626,301	24,199,879	81.7%
Looking Glass Rgnl Fire CLD	2311	0	2,554	155,798	0	158,352	221,474	139.9%
Loutit Dist Lib	7013	1,729,264	29,628	2,280,503	36,150	4,075,545	2,976,337	73.0%
Lowell, City of	4104	6,349,070	1,705,543	10,197,890	65,445	18,317,948	12,244,261	66.8%
Luce Co	4804	3,145,157	550,463	7,364,581	2,734	11,062,935	6,280,598	56.8%
Luce Co Amb Svs	4806	323,848	363,221	158,891	0	845,960	798,132	94.3%
Luce CRC	4801	1,252,273	546,053	10,624,408	0	12,422,734	5,602,613	45.1%
Ludington, City of	5302	6,667,057	1,022,719	16,186,088	29,111	23,904,975	16,264,736	68.0%
Luna Pier, City of	5802	273,084	218,263	5,036,234	0	5,527,581	2,440,645	44.2%
Lyons, Vlg of	3411	0	0	197,549	0	197,549	170,980	86.6%
Mackinac Co	4901	4,390,966	1,038,615	16,875,588	0	22,305,169	16,933,606	75.9%
Mackinac Co HC	4905	13,515	0	499,003	0	512,518	398,143	77.7%
Mackinac CRC	4903	2,608,683	0	8,208,186	0	10,816,869	7,807,535	72.2%
Mackinac Straits Hlth Sys	4902	20,099,217	3,365,706	22,292,497	313,626	46,071,046	36,268,438	78.7%
Mackinaw City, Vlg of	1606	1,724,943	66,717	353,778	1,101	2,146,539	1,769,867	82.5%
Madison Heights, City of	6308	9,248,047	2,204,655	34,143,087	22,766	45,618,555	45,060,349	98.8%
Madison, Chtr Twp of	4605	1,964,840	11,920	814,226	35,976	2,826,962	2,012,461	71.2%
Manistee Co	5101	19,881,233	3,625,607	42,691,376	156,577	66,354,793	47,728,736	71.9%
Manistee Co Trans Auth	5109	703,993	0	0	0	703,993	731,347	103.9%
Manistee CRC	5103	4,495,618	503,392	9,029,805	8,886	14,037,701	10,293,552	73.3%
Manistee HC	5107	370,001	120,226	279,221	20,443	789,891	776,841	98.3%
Manistee, City of	5105	8,599,535	447,749	15,912,653	44,654	25,004,591	18,910,118	75.6%
Manistique HC	7508	0	71,339	794,147	0	865,486	503,681	58.2%
Manistique, City of	7504	6,481,348	131,627	12,462,329	0	19,075,304	9,018,715	47.3%
Manlius Twp	0311	187,775	0	656,396	1,425	845,596	606,391	71.7%
Manton, City of	8304	92,265	69,699	2,041,117	0	2,203,081	714,838	32.4%
Marenisco Twp	2704	240,088	0	459,607	0	699,695	471,680	67.4%
Marion, Vlg of	6704	230,414	3,266	508,642	0	742,322	588,614	79.3%
Marlette, City of	7405	1,228,953	88,009	1,592,518	0	2,909,480	1,913,220	65.8%
Marquette Brd of Light & Power	5209	8,196,930	105,397	37,786,601	1,238	46,090,166	38,470,940	83.5%
Marquette Chtr Twp	5215	2,034,371	342,733	2,124,751	6,746	4,508,601	3,755,617	83.3%
Marquette Co	5202	31,290,370	4,654,137	93,954,860	424,063	130,323,430	93,826,029	72.0%
Marquette Co Solid Waste Mgmt	5213	2,487,287	0	1,913,259	7,898	4,408,444	4,166,354	94.5%
Marquette Co Trans Auth	5206	1,399,284	155,114	2,861,918	33,955	4,450,271	4,282,990	96.2%
Marquette CRC	5211	9,390,769	1,285,673	24,759,007	39,720	35,475,169	21,137,426	59.6%
Marquette, City of	5201	21,670,173	1,294,001	59,742,559	123,605	82,830,338	54,922,869	66.3%
Marshall Area Firefighters Amb	1313	1,220,344	140,546	462,045	9,724	1,832,659	1,689,322	92.2%
Marshall Dist Lib	1309	0	0	171,136	0	171,136	61,236	35.8%
Marshall, City of	1306	10,830,132	1,270,159	29,405,100	35,327	41,540,718	26,007,168	62.6%
Mason Co	5301	21,254,765	3,789,049	51,239,848	0	76,283,662	58,656,567	76.9%
Mason Co Dist Lib	5303	1,346,402	26,929	1,647,713	0	3,021,044	2,353,012	77.9%
Mason CRC	5305	2,959,605	404,516	7,515,255	4,503	10,883,879	7,976,917	73.3%
Mason, City of	3304	5,061,436	3,570,418	13,605,378	84,459	22,321,691	16,990,688	76.1%
Mason-Oceana 911	6403	2,240,444	272,295	1,727,017	6,933	4,246,689	3,859,738	90.9%
MBS Intl Arprt	0902	3,955,717	864,940	9,893,911	0	14,714,568	8,610,543	58.5%
Meceola Central Disp	5405	1,991,886	794,554	1,824,636	9,642	4,620,718	3,827,865	82.8%
Mecosta Co	5403	11,900,453	2,609,506	29,046,665	6,206	43,562,830	46,987,201	107.9%
Mecosta Co General Hosp CLD	5404	0	1,189,050	6,149,151	1,272	7,339,473	9,776,327	133.2%
Mecosta CRC	5401	2,991,185	396,797	8,698,969	55,258	12,142,209	11,213,673	92.4%
Melvindale HC	8220	181,210	240,737	1,219,328	15,124	1,656,399	1,611,603	97.3%
Melvindale, City of	8215	4,584,441	1,399,198	41,219,126	1,660	47,204,425	16,808,890	35.6%
Menominee Co	5502	11,379,501	2,248,935	21,487,067	5,828	35,121,331	24,783,480	70.6%
Menominee CRC	5503	1,294,634	397,952	4,429,603	0	6,122,189	4,809,749	78.6%
Menominee, City of	5501	3,959,363	155,337	9,326,066	5,955	13,446,721	9,742,690	72.5%
Meridian Chtr Twp	3315	23,185,059	4,341,648	56,523,170	202,487	84,252,364	60,838,360	72.2%
MERS	2308	31,490,772	5,385,378	16,987,166	129,906	53,993,222	58,320,875	108.0%
Metamora Twp	4409	768,454	77,576	864,054	0	1,710,084	1,475,027	86.3%
Metro Police Auth of Genesee Co	2532	5,555,313	199,436	5,860,126	40,225	11,655,100	10,718,292	92.0%
Mich Muni Risk Mgmt Auth	8237	1,452,622	0	0	0	1,452,622	2,118,765	145.9%
Mich S Central Power Agcy	3002	0	3,068,997	12,028,922	0	15,097,919	17,793,845	117.9%
Middleville, Vlg of	0803	295,778	178,584	2,149,966	14,396	2,638,724	2,141,145	81.1%
Midland Co Central Disp Auth	5604	3,385,502	653,782	1,984,598	33,110	6,056,992	4,691,684	77.5%
Midland CRC	5602	5,775,099	590,537	15,096,391	27,017	21,489,044	19,240,802	89.5%
Midland, City of	5601	24,386,917	3,125,799	135,240,322	53,998	162,807,036	98,277,621	60.4%
Mid-Mich Dist Hlth Dept	5901	7,026,097	2,232,992	6,913,096	92,157	16,264,342	13,126,215	80.7%
Mid-Mich Lib League	8306	72,874	155,622	662,725	0	891,221	760,798	85.4%
Milan Lib	5806	194,705	6,637	256,823	0	458,165	379,424	82.8%
Milan, City of	5801	217,574	1,636,380	12,225,790	0	14,079,744	8,291,996	58.9%
Millford, Vlg of	6313	8,600,274	475,913	9,996,807	15,815	19,088,809	15,327,678	80.3%
Millington, Vlg of	7904	226,663	32,092	1,424,425	0	1,683,180	1,609,780	95.6%
Missaukee Co	5702	2,909,973	1,146,847	4,896,553	21,883	8,975,256	7,069,088	78.8%
MOA Solid Waste Mgmt Auth	6002	609,839	169,191	658,897	0	1,437,927	1,189,246	82.7%
Monroe HC	5808	1,093,518	0	2,212,430	0	3,305,948	1,699,434	51.4%
Montague, City of	6112	2,489,713	73,650	5,471,076	0	8,034,439	7,719,421	96.1%
Montcalm Care Network	5909	2,891,789	1,687,550	3,945,213	47,864	8,572,416	14,283,764	166.6%



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		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability	Total Liability		
Montcalm Co	5907	11,904,508	1,242,039	24,371,690	95,034	37,613,271	30,829,202	82.0%
Montcalm CRC	5905	8,519,004	352,701	13,810,254	27,790	22,709,749	13,802,044	60.8%
Montmorency Co	6001	4,657,392	771,248	9,379,738	18,929	14,827,307	9,482,052	63.9%
Montrorse, City of	2509	298,374	69,681	533,762	0	901,817	798,777	88.6%
Mt. Morris Chtr Twp	2503	8,316,911	984,038	37,146,746	56,267	46,503,962	24,633,152	53.0%
Mt. Pleasant, City of	3701	13,055,937	1,235,884	24,775,164	66,573	39,133,558	27,026,070	69.1%
Muir, Vlg of	3405	0	179,420	221,444	0	400,864	361,664	90.2%
Mundy, Chtr Twp of	2517	1,679,568	204,974	1,533,560	7,415	3,425,517	3,042,795	88.8%
Munising, City of	0202	4,606,015	215,352	6,856,628	0	11,677,995	7,242,342	62.0%
Muskegon Area Dist Lib	6117	2,452,983	32,195	1,377,660	13,058	3,875,896	3,923,478	101.2%
Muskegon Chtr Twp	6108	9,753,754	247,310	20,187,969	7,191	30,196,224	29,116,589	96.4%
Muskegon Co	6103	68,896,694	19,708,612	218,470,030	644,227	307,719,563	251,642,787	81.8%
Muskegon CRC	6101	9,021,727	1,125,945	18,101,377	0	28,249,049	27,955,439	99.0%
Muskegon Ctrl Dispatch 911	6109	3,358,114	458,117	5,431,221	134,451	9,381,903	7,074,467	75.4%
Muskegon HC	6113	366,605	55,063	763,139	0	1,184,807	893,147	75.4%
Muskegon Heights HC	6115	204,016	8,115	2,243,906	1,359	2,457,396	1,271,565	51.7%
Muskegon Heights, City of	6102	10,954,413	1,006,190	29,504,390	231,266	41,696,259	24,057,374	57.7%
Muskegon, City of	6116	24,487,396	4,678,706	104,938,856	67,466	134,172,424	99,841,768	74.4%
N Houghton Co Wtr&Swg Auth	3106	525,654	46,968	309,284	0	881,906	730,168	82.8%
N Muskegon, City of	6104	1,972,804	327,051	5,848,767	22,935	8,171,557	6,076,224	74.4%
Nashville, Vlg of	0807	524,353	2,990	199,334	21,495	748,172	721,522	96.4%
Negaunee Twp	5217	316,088	3,444	653,472	947	973,951	1,048,610	107.7%
Negaunee, City of	5203	3,848,072	1,061,664	10,453,276	0	15,363,012	8,334,875	54.3%
Network180	4109	12,862,648	4,943,808	29,517,729	133,284	47,457,469	41,976,593	88.5%
New Baltimore, City of	5016	8,424,181	890,920	12,895,535	57,005	22,267,641	18,447,454	82.8%
New Buffalo Twp	1121	684,989	0	57,564	0	742,553	759,260	102.2%
New Buffalo, City of	1113	1,596,626	194,523	1,356,299	63,311	3,210,759	3,233,223	100.7%
Newaygo CMH	6207	0	52,364	3,359,971	0	3,412,335	3,635,290	106.5%
Newaygo Co	6201	3,532,088	1,138,083	24,402,903	0	29,073,074	25,505,498	87.7%
Newaygo CRC	6212	4,446,342	586,168	8,232,622	4,676	13,269,808	11,521,104	86.8%
Newaygo MCF	6204	4,224,396	1,508,407	10,925,451	343,121	17,001,375	16,523,759	97.2%
Newaygo Soil & Wtr Cnsvrn Dist	6205	84,676	0	163,693	3,318	251,687	237,007	94.2%
Newberry, Vlg of	4802	554,521	200,381	4,473,625	0	5,228,527	3,163,033	60.5%
Niles Dist Lib	1105	512,196	86,502	938,176	19,559	1,556,433	1,220,136	78.4%
Niles, City of	1115	15,797,467	731,179	30,537,399	118,251	47,184,296	36,491,646	77.3%
Northern Lakes CMH Auth	2808	1,603,134	644,605	23,160,190	0	25,407,929	23,288,419	91.7%
Northfield Twp	8117	3,411,161	362,089	181,982	0	3,955,232	3,480,387	88.0%
Northpointe Bhvrl Hlth Sys	2207	4,919,785	2,080,586	10,306,094	9,266	17,315,731	15,078,898	87.1%
Northville Chtr Twp	8230	28,713,465	2,268,503	35,438,095	8,778	66,428,841	63,631,160	95.8%
Northville Dist Lib	8229	1,705,065	159,045	2,402,198	0	4,266,308	4,490,589	105.3%
Northville, City of	8208	1,778,710	515,476	19,992,452	0	22,286,638	19,240,306	86.3%
Norton Shores, City of	6106	18,766,802	1,777,782	37,394,825	70,442	58,009,851	31,196,660	53.8%
Norway, City of	2204	6,737,643	208,541	17,744,939	3,406	24,694,529	11,013,334	44.6%
Nottawaseppi Huron Band	8403	1,558,354	3,218	123,345	6,045	1,690,962	1,527,941	90.4%
Novi, City of	6320	44,984,434	4,369,622	75,974,505	116,398	125,444,959	84,304,741	67.2%
NW Mich Cmnty Hlth Agcy	1502	1,120,604	7,953	6,428,961	0	7,557,518	6,517,831	86.2%
NW Rgnl Arprt Auth	2805	2,295,317	632,300	6,174,063	0	9,101,680	9,555,852	105.0%
Oceana Co	6402	21,090,874	3,040,684	28,697,338	67,060	52,895,956	42,029,070	79.5%
Oceola Twp	4717	926,796	69,151	893,352	6,143	1,895,442	1,965,969	103.7%
Ogemaw Co	6502	8,339,262	953,141	26,123,901	25,538	35,441,842	27,227,458	76.8%
Ogemaw Co Emerg Disp Auth	6510	1,650,776	0	740,999	0	2,391,775	1,504,134	62.9%
Ogemaw Co EMS Auth	6508	2,604,508	950,033	2,829,881	20,898	6,405,320	5,123,700	80.0%
Ogemaw CRC	6503	3,777,223	37,735	9,465,743	0	13,280,701	9,126,208	68.7%
Olive Twp	7009	273,183	0	244,310	0	517,493	343,248	66.3%
Onaway, City of	7105	356,339	362,365	501,122	0	1,219,826	1,008,549	82.7%
Ontonagon Co	6602	5,662,814	427,990	7,500,772	7,012	13,598,588	9,563,447	70.3%
Ontonagon Co Economic Dev Corp	6605	0	0	103,747	0	103,747	63,240	61.0%
Ontonagon CRC	6604	7,298,838	194,337	23,720,169	0	31,213,344	17,182,238	55.0%
Ontonagon, Vlg of	6603	1,285,103	1,357,833	12,508,920	81,446	15,233,302	7,057,393	46.3%
Orchard Lake, City of	6312	1,283,532	99,052	4,943,641	210	6,326,435	6,216,509	98.3%
Oronoko Chtr Twp	1114	1,402,842	84,985	1,617,292	16,464	3,121,583	2,416,033	77.4%
Osceola Co	6701	11,904,763	3,657,640	13,296,559	60,260	28,919,222	23,771,156	82.2%
Osceola CRC	6703	2,373,765	73,993	6,916,454	84	9,364,296	5,635,002	60.2%
Oscoda Chtr Twp	3503	1,478,840	451,009	3,608,882	19,385	5,558,116	3,524,056	63.4%
Oscoda Co	6801	4,513,380	824,403	8,120,965	74,964	13,533,712	9,659,334	71.4%
Oscoda Co Lib	6803	190,909	0	0	0	190,909	210,038	110.0%
Oscoda Wurtsmith Arprt Auth	6802	271,972	0	300,547	0	572,519	469,455	82.0%
Otisville, Vlg of	2506	592,926	6,402	872,127	0	1,471,455	1,169,730	79.5%
Otsego Co	6902	9,488,809	3,955,812	14,754,393	6,668	28,205,682	20,332,739	72.1%
Otsego CRC	6901	5,385,091	1,202,848	8,138,985	255	14,727,179	11,481,789	78.0%
Ottawa Co	7003	136,974,221	22,254,156	221,922,327	743,702	381,894,406	307,031,906	80.4%
Ottawa Co Central Disp Auth	7008	0	364,746	2,329,557	9,657	2,703,960	2,578,276	95.4%
Ottawa CRC	7002	17,692,444	1,175,569	45,710,842	33,682	64,612,537	40,408,277	62.5%
Otter Lake, Vlg of	4408	0	0	180,647	0	180,647	120,259	66.6%
Owosso, City of	7607	13,039,354	545,060	34,523,479	0	48,107,893	45,727,276	95.1%
Oxford Fire Department	6327	4,578,817	220,496	3,441,797	0	8,241,110	7,001,397	85.0%
Oxford, Vlg of	6326	2,438,473	414,225	1,744,485	1,626	4,598,809	3,049,617	66.3%
Parchment, City of	3901	823,563	117,617	2,662,769	0	3,603,949	2,586,340	71.8%
Pathways(Spr.Bhvl.Mntl.Hlth)	5214	4,909,448	3,216,088	49,127,736	18,370	57,271,642	33,371,008	58.3%





## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability				Total Liability	Actuarial Value of Assets <sup>1</sup>	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
Paw Paw Lk Reg Jnt Swg Disp Bd	1103	821,815	0	2,091,822	0	2,913,637	2,149,646	73.8%
Paw Paw, Vlg of	8002	4,792,887	661,490	6,692,116	78,965	12,225,458	9,387,447	76.8%
Pellston, Vlg of	2404	459,622	0	284,425	0	744,047	649,195	87.3%
Pennfield Chtr Twp	1312	2,323,093	372,812	1,529,535	7,819	4,233,259	3,062,759	72.3%
Pentwater, Vlg of	6401	554,047	154,710	1,840,825	3,739	2,553,321	1,971,193	77.2%
Perrinton, Vlg of	2909	167,577	79,077	0	3,439	250,093	191,250	76.5%
Petersburg, City of	5807	586,841	187,973	259,637	10,829	1,045,280	975,510	93.3%
Petoskey, City of	2402	13,492,402	1,154,496	19,692,808	12,891	34,352,597	31,309,387	91.1%
Pewamo, Vlg of	3407	517,911	0	0	0	517,911	472,831	91.3%
Pigeon, Vlg of	3203	669,689	11,324	524,489	0	1,205,502	1,144,177	94.9%
Pinckney, Vlg of	4706	1,277,436	208,192	2,940,239	25,909	4,451,776	3,718,890	83.5%
Pinconning, City of	0904	476,354	62,192	1,806,778	2,175	2,347,499	1,283,878	54.7%
Pittsfield Chtr Twp	8110	31,211,553	2,083,779	24,651,965	188,933	58,136,230	42,170,307	72.5%
Pleasant Ridge, City of	6301	2,054,458	497,964	4,310,564	13,827	6,876,813	4,519,390	65.7%
Plymouth Dist Lib	8221	1,364,012	668,955	4,302,031	0	6,334,998	4,331,073	68.4%
Plymouth, Chtr Twp of	8238	15,236,530	619,140	26,131,427	52,762	42,039,859	30,722,122	73.1%
Plymouth, City of	8202	0	131,639	15,714,733	0	15,846,372	10,534,553	66.5%
Pokagon Band of Potawatomi	8401	34,297,950	6,875,487	8,047,920	605,962	49,827,319	50,736,207	101.8%
Port Austin Area Swr&Wtr Auth	3210	0	0	91,236	1,755	92,991	187,541	201.7%
Port Austin, Vlg of	3208	386,833	6,840	460,214	18,177	872,064	629,531	72.2%
Port Huron Chtr Twp	7711	1,502,775	673,813	2,613,840	7,613	4,798,041	3,533,303	73.6%
Port Huron HC	7712	3,474,456	188,175	7,644,714	5,196	11,312,541	9,175,773	81.1%
Port Huron, City of	7702	34,874,907	3,040,556	133,999,121	61,490	171,976,074	156,250,984	90.9%
Port Sanilac, Vlg of	7403	510,586	79,794	1,146,537	4,728	1,741,645	1,068,140	61.3%
Port Sheldon Twp	7018	450,524	25,389	705,970	0	1,181,883	1,155,313	97.8%
Portland, City of	3401	4,513,803	1,075,997	11,501,861	0	17,091,661	11,082,901	64.8%
Pottsville, City of	2313	290,547	17,511	937,336	8,953	1,254,347	982,169	78.3%
Presque Isle Co	7104	6,457,638	807,355	9,373,458	60,897	16,699,348	11,378,271	68.1%
Presque Isle CRC	7101	2,911,150	0	8,810,445	4,058	11,725,653	6,846,970	58.4%
PRIDE Youth Programs CLD	6210	0	0	557,913	0	557,913	293,938	52.7%
Ravenna, Vlg of	6111	132,771	62,261	611,833	0	806,865	710,199	88.0%
Reading, City of	3003	265,528	6,737	393,878	0	666,143	537,388	80.7%
Redford Twp Dist Lib	8228	1,966,735	119,699	1,778,408	0	3,864,842	4,140,608	107.1%
Redford, Chtr Twp of	8209	12,903,474	1,844,367	44,703,606	90,742	59,542,189	33,275,394	55.9%
Reed City, City of	6702	3,016,575	352,530	5,739,134	0	9,108,239	5,685,568	62.4%
Richfield Twp (Genesee Co)	2514	2,691,130	345,089	4,400,200	28,686	7,465,105	4,189,159	56.1%
Richfield Twp (Roscommon Co)	7202	936,016	698,422	2,403,237	21,462	4,059,137	2,706,493	66.7%
Richland Twp	7310	360,976	24,959	5,858,228	12,673	6,256,836	3,166,373	50.6%
Richmond, City of	5012	1,310,408	107,040	2,636,215	0	4,053,663	2,862,549	70.6%
Rochester, City of	6307	10,415,662	1,005,891	16,269,118	51,354	27,742,025	19,087,675	68.8%
Rockford, City of	4103	4,602,369	1,175,332	6,286,507	0	12,064,208	8,663,124	71.8%
Rockwood, City of	5810	1,671,304	463,048	1,351,116	0	3,485,468	3,301,836	94.7%
Rogers City, City of	7102	3,383,050	425,713	9,627,183	7,728	13,443,674	12,705,287	94.5%
Romeo Dist Lib	5006	688,195	805,031	2,226,932	4,179	3,724,337	4,209,950	113.0%
Romeo, Vlg of	5005	4,035,692	570,959	6,507,102	0	11,113,753	6,540,399	58.8%
Romulus, City of	8225	11,278,638	1,347,028	49,364,779	155,973	62,146,418	28,666,916	46.1%
Roosevelt Park, City of	6107	3,682,062	835,959	3,930,388	0	8,448,409	7,644,375	90.5%
Roscommon Co	7201	13,344,349	2,757,220	19,166,667	39,091	35,307,327	26,890,914	76.2%
Roscommon Co Trans Auth	7205	933,326	0	2,600,360	0	3,533,686	3,382,704	95.7%
Rose City, City of	6504	393,570	24,006	458,305	2,083	877,964	719,977	82.0%
Rose Twp	6506	56,041	0	141,649	0	197,690	491,265	248.5%
Royal Oak, Chtr Twp of	6306	451,473	1,394	2,095,963	28,305	2,577,135	4,623,852	179.4%
Saginaw Chtr Twp	7314	7,675,298	959,481	17,533,295	35,693	26,203,767	25,191,951	96.1%
Saginaw Co	7303	3,770,658	2,030,552	148,665,127	608	154,466,945	122,145,530	79.1%
Saginaw Co 911 Com Ctr	7316	0	415,481	14,604,896	0	15,020,377	12,016,587	80.0%
Saginaw Co CMH	7318	1,468,289	676,814	16,169,801	0	18,314,904	12,370,432	67.5%
Saginaw CRC	7304	11,673,457	580,706	28,366,378	35,479	40,656,020	27,519,834	67.7%
Saginaw HC	7321	79,238	497,901	4,394,309	22,682	4,994,130	2,616,200	52.4%
Saginaw Trans Sys Auth	7319	1,256,388	534,840	2,014,752	0	3,805,980	3,559,618	93.5%
Saginaw, City of	7301	30,686,305	2,508,537	338,438,351	45,284	371,678,477	184,553,043	49.7%
Saginaw, Pub Lib of	7317	917,056	901,063	830,447	35,053	2,683,619	3,839,565	143.1%
Saginaw-Midland Muni Wtr Corp	7305	1,037,156	664,037	3,803,164	0	5,504,357	4,467,601	81.2%
Saline, City of	8105	9,609,834	1,956,495	21,570,727	0	33,137,056	22,685,492	68.5%
Sandusky Dist Lib	7404	0	0	364,363	0	364,363	330,112	90.6%
Sandusky, City of	7402	2,111,371	231,488	3,898,497	45,978	6,287,334	4,077,249	64.8%
Sanilac CRC	7410	4,814,666	0	6,643,270	159	11,458,095	9,565,814	83.5%
Saranac HC	3413	628,215	0	632,150	0	1,260,365	1,105,111	87.7%
Saugatuck Twp	0305	248,287	92,119	614,710	0	955,116	596,243	62.4%
Saugatuck Twp Fire Dist	0313	413,101	43,264	108,748	0	565,113	569,679	100.8%
Saugatuck, City of	0307	249,791	223,469	1,704,026	0	2,177,286	2,411,448	110.8%
Sault Ste. Marie HC	4906	831,358	0	1,681,270	21,598	2,534,226	2,691,532	106.2%
Sault Ste. Marie Tribe of Chippewa Indians	8404	1,421,408	79,416	74,153	27,972	1,602,949	1,485,585	92.7%
Sault Ste. Marie, City of	1701	10,039,642	750,707	25,059,055	62,231	35,911,635	24,013,347	66.9%
SCCMUA	1905	1,486,820	402,420	3,511,040	1,504	5,401,784	4,647,195	86.0%
Schoolcraft Co	7503	9,421,432	1,986,838	31,172,492	203,467	42,784,229	25,584,044	59.8%
Schoolcraft Co Trans Auth	7506	608,937	0	1,381,773	2,671	1,993,381	1,313,587	65.9%
Schoolcraft CRC	7501	2,192,817	799,753	14,185,765	0	17,178,335	9,692,033	56.4%
Schoolcraft Memorial Hosp	7505	5,243,454	4,578,137	19,118,972	3,647	28,944,210	25,456,941	88.0%
Scio Twp	8116	3,498,300	51,368	2,354,710	16,202	5,920,580	4,702,269	79.4%



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability					Actuarial Value of Assets <sup>1</sup>	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability	Total Liability		
Scottville, City of	5308	318,355	263,594	451,084	0	1,033,033	911,757	88.3%
SE Oakland Co Rsrc Rec Auth	6310	2,542,674	424,738	3,385,091	0	6,352,503	5,081,515	80.0%
SE Oakland Co Wtr Auth	6309	4,006,940	2,107	6,795,716	0	10,804,763	11,471,208	106.2%
Sebewaing, Vlg of	3205	3,007,451	414,262	5,424,637	54,192	8,900,542	10,400,735	116.9%
SEMCOG	8210	15,880,696	1,585,360	23,476,373	0	40,942,429	34,393,443	84.0%
Shepherd, Vlg of	3704	732,634	51,784	400,043	459	1,184,920	985,552	83.2%
Shiawassee Co	7602	35,184,722	9,036,542	100,992,971	277,003	145,491,238	99,760,117	68.6%
Shiawassee Council on Aging	7605	195,555	11,564	687,754	538	895,411	629,655	70.3%
Shiawassee CRC	7601	6,266,899	1,851,475	15,897,800	23,339	24,039,513	25,443,168	105.8%
Shiawassee Dist Lib	7606	996,554	321,848	1,181,100	11,339	2,510,841	2,591,534	103.2%
Shiawassee Hlth & Wellness	7609	8,894,476	3,731,073	10,083,310	0	22,708,859	18,510,585	81.5%
Sims Whitney Util Auth	0606	208,458	0	310,389	0	518,847	467,170	90.0%
SMART	8216	91,052,378	13,640,506	198,947,670	569,595	304,210,149	256,559,317	84.3%
South Haven Area ESA	8005	4,759,649	0	6,401,940	67,800	11,229,389	8,061,389	71.8%
South Haven, City of	8001	15,681,525	1,688,028	19,871,647	194,400	37,435,600	31,536,862	84.2%
South Lyon, City of	6315	11,403,164	991,990	9,077,460	16,970	21,489,584	15,067,377	70.1%
Southgate, City of	8262	11,149,563	557,644	22,989,988	0	34,697,195	21,991,905	63.4%
Sparta, Vlg of	4107	3,588,713	150,458	2,531,947	15,279	6,286,397	4,992,720	79.4%
Spring Lake Dist Lib	7016	350,327	320,312	2,306,752	3,040	2,980,431	2,636,460	88.5%
Spring Lake, Vlg of	7015	396,775	759,931	4,079,996	15,454	5,252,156	4,136,264	78.8%
Springfield, City of	1303	926,603	1,086,516	9,942,783	9,495	11,965,397	8,120,895	67.9%
St Charles, Vlg of	7308	1,134,083	204,117	3,834,474	0	5,172,674	3,642,217	70.4%
St Clair HC	7715	0	0	833,685	0	833,685	317,549	38.1%
St Clair Shores HC	5007	1,183,295	0	2,040,071	4,861	3,228,227	1,672,118	51.8%
St Clair, City of	7703	2,929,497	660,327	22,793,083	0	26,382,907	14,893,098	56.4%
St Ignace, City of	4904	2,842,179	205,488	12,473,490	606	15,521,763	8,713,858	56.1%
St Johns, City of	1902	5,013,898	101,452	14,500,450	0	19,615,800	12,526,994	63.9%
St Joseph Co	7803	17,045,417	3,359,970	39,007,221	37,739	59,450,347	51,696,477	87.0%
St Joseph Twp	1122	2,146,757	0	986,146	0	3,132,903	3,303,906	105.5%
St Louis HC	2908	1,191,902	0	258,115	0	1,450,017	1,398,612	96.5%
St Louis, City of	2902	1,329,153	195,517	6,764,520	0	8,289,190	8,085,494	97.5%
Stambaugh Twp	3615	202,173	0	37,318	0	239,491	160,880	67.2%
Standish, City of	0601	0	114,724	2,795,578	0	2,910,302	2,542,574	87.4%
Stanton, City of	5903	0	0	53,759	0	53,759	121,446	225.9%
Stephenson, City of	5504	709,362	0	344,400	0	1,053,762	713,565	67.7%
Sterling, Vlg of	0605	22,942	0	283,675	0	306,617	417,324	136.1%
Stockbridge, Vlg of	3316	433,694	407,267	514,483	3,125	1,358,569	1,002,858	73.8%
Sturgis HC	7805	0	144,793	77,547	0	222,340	238,071	107.1%
Summit Twp	3803	8,374,885	1,432,727	10,976,749	0	20,784,361	13,405,251	64.5%
Sumpter Twp	8226	7,222,771	761,585	5,211,037	26,279	13,221,672	11,548,592	87.3%
Superior Chtr Twp	8109	5,169,501	50,244	5,606,364	45,275	10,871,384	7,466,386	68.7%
Superior Dist Lib	1702	447,682	0	662,538	14,274	1,124,494	1,613,122	143.5%
Superiorland Lib Coop	5208	0	31,099	1,102,457	0	1,133,556	943,791	83.3%
Suttons Bay Bingham Fire Auth	4506	2,002,821	35,907	846,003	190	2,884,921	1,753,905	60.8%
SW Mich Comm Amb Svcs	1119	1,917,790	840,583	1,454,937	72,543	4,285,853	4,170,437	97.3%
SW Shiawassee ESA	7611	1,439,805	426,466	204,532	6,564	2,077,367	2,061,451	99.2%
Swan Creek Twp	7309	232,513	0	691,541	474	924,528	700,405	75.8%
Swartz Creek, City of	2504	844,735	0	6,445,334	0	7,290,069	6,919,569	94.9%
Sylvan Lake, City of	6314	1,513,375	36,344	2,289,928	18,523	3,858,170	3,541,514	91.8%
Tawas Police Auth	3504	0	551,109	838,957	8,257	1,398,323	900,202	64.4%
Taylor HC	8231	426,348	0	581,876	13,003	1,021,227	917,208	89.8%
The Lib Network	8218	5,249,443	231,544	4,127,783	50,871	9,659,641	8,163,796	84.5%
Three Rivers, City of	7801	7,335,827	1,854,747	13,906,523	27,421	23,124,518	16,233,776	70.2%
Tittabawassee Twp	7322	2,242,619	0	2,637,181	2,508	4,882,308	4,886,431	100.1%
Traverse Area Dist Lib	2807	2,553,513	436,674	5,093,330	14,684	8,098,201	7,287,547	90.0%
Traverse City Light & Power	2811	6,492,528	519,911	30,022,477	0	37,034,916	27,923,701	75.4%
Traverse City, City of	2801	10,154,110	1,823,698	34,222,381	0	46,200,189	27,633,740	59.8%
Trenton, City of	8203	3,266,190	93,698	46,882,511	0	50,242,399	35,132,805	69.9%
Tri-County Aging Consortium	3307	6,322,713	682,053	6,608,857	0	13,613,623	11,905,447	87.5%
Trio Council on Aging Inc CLD	6507	0	40,251	290,511	0	330,762	365,506	110.5%
Tuscarora Twp	1604	2,169,621	165,578	1,153,821	0	3,489,020	2,580,885	74.0%
Tuscola Co	7902	19,533,233	2,000,437	23,862,934	216,521	45,613,125	41,717,631	91.5%
Tuscola Co CMH	7907	11,650,362	1,192,597	10,633,630	419,776	23,896,365	22,820,856	95.5%
Tuscola Co Hlth Dpt	7901	3,651,099	654,653	10,683,513	30,364	15,019,629	12,715,938	84.7%
Tuscola Co MCF	7906	12,776,655	1,740,585	9,648,677	533,000	24,698,917	22,075,920	89.4%
Tuscola CRC	7908	1,712,126	408,151	5,099,757	0	7,220,034	6,645,927	92.0%
Twin City Pub Safety Auth CLD	3610	0	31,717	74,207	0	105,924	136,427	128.8%
Ubly, Vlg of	3212	0	142,961	1,103,997	3,601	1,250,559	864,230	69.1%
Utica, City of	5008	2,318,636	0	4,249,862	20,342	6,588,840	5,638,109	85.6%
Van Buren Co	8006	22,351,694	3,238,593	25,770,603	575,568	51,936,458	36,751,819	70.8%
Van Buren Dist Lib	8007	858,818	104,137	1,647,705	17,689	2,628,349	2,811,259	107.0%
Van Buren Twp	8236	15,945,135	2,106,454	11,706,660	27,487	29,785,736	22,634,970	76.0%
Vassar, City of	7903	1,027,061	685,141	7,020,998	88	8,733,288	8,287,478	94.9%
Vevay Twp	3318	141,421	0	617,010	1,639	760,070	469,726	61.8%
Vicksburg Dist Lib	3904	0	1,955	154,718	0	156,673	92,928	59.3%
Vicksburg, Vlg of	3902	744,257	801,417	1,960,818	0	3,506,492	2,453,752	70.0%
Vienna, Chtr Twp of	2522	468,954	294,445	1,551,970	0	2,315,369	1,555,996	67.2%
W Iron Co Swr Auth	3612	226,376	91,992	1,011,134	0	1,329,502	721,793	54.3%
W Mich CMH Sys	5304	726,506	21,103	5,234,422	10,580	5,992,611	4,790,684	79.9%



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability				Total Liability	Actuarial Value of Assets <sup>1</sup>	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
W Mich Shoreline Rgnl Dev Comm	6110	1,684,828	182,735	3,324,831	0	5,192,394	5,375,170	103.5%
W UP Dist Hlth Dept	3101	1,480,553	1,792,574	13,568,588	11,505	16,853,220	11,721,619	69.6%
Wakefield, City of	2701	1,651,709	134,486	3,747,791	14,439	5,548,425	3,489,753	62.9%
Walker, City of	4112	8,273,953	394,275	19,946,239	0	28,614,467	24,048,925	84.0%
Walled Lake, City of	6324	4,717,497	2,008,022	11,138,399	60,359	17,924,277	6,520,976	36.4%
Washtenaw Co	8113	81,384,519	5,330,931	90,019,714	626,916	177,362,080	132,321,256	74.6%
Washtenaw CRC	8102	23,811,904	2,910,417	57,794,564	313,267	84,830,152	48,653,853	57.4%
Wayland, City of	0304	2,913,786	412,661	6,841,676	0	10,168,123	7,305,974	71.9%
Wayne HC	8252	451,125	0	733,742	0	1,184,867	811,214	68.5%
Wayne, City of	8242	19,519,772	7,288,168	108,282,684	137,057	135,227,681	80,777,252	59.7%
Webberville, Vlg of	3314	312,391	32,252	384,750	355	729,748	807,769	110.7%
West Branch Dist Lib	6509	344,530	0	210,045	14,213	568,788	562,776	98.9%
West Branch, City of	6505	1,382,888	42,162	6,054,368	32,768	7,512,186	4,889,222	65.1%
Westland, City of	8211	22,619,509	7,521,755	129,824,993	28,751	159,995,008	154,103,582	96.3%
Westphalia, Vlg of	1907	162,472	0	591,183	0	753,655	530,569	70.4%
Wexford Co	8302	12,284,613	3,215,507	22,465,296	65,190	38,030,606	26,387,837	69.4%
Wexford CRC	8303	5,911,342	695,249	12,157,059	11,522	18,775,172	20,300,115	108.1%
White Cloud Cmnty Lib	6208	118,885	5,940	563,109	0	687,934	546,285	79.4%
White Cloud, City of	6206	411,245	108,566	899,959	0	1,419,770	965,011	68.0%
White Cloud/Sherman Util	6211	329,825	0	309,221	0	639,046	442,360	69.2%
White Lake Chtr Twp	6325	17,286,253	1,614,848	24,756,837	172,365	43,830,303	31,225,785	71.2%
White Pigeon, Vlg of	7804	180,270	52,274	150,158	2,288	384,990	383,865	99.7%
White Pine Dist Lib	5904	99,869	0	202,901	0	302,770	189,587	62.6%
Whitehall, City of	6105	3,534,096	155,395	3,946,730	0	7,636,221	6,575,026	86.1%
Willard Pub Lib	1308	4,442,783	709,856	1,675,770	13,618	6,842,027	5,901,355	86.3%
Williamston, City of	3310	1,128,267	285,670	3,978,858	10,963	5,403,758	4,088,564	75.7%
Wixom, City of	6316	12,614,012	1,696,438	30,703,033	13,608	45,027,091	44,118,437	98.0%
Wolverine Lake, Vlg of	6329	2,088,161	469,000	1,888,646	43,056	4,488,863	3,384,700	75.4%
WUPPDR	3108	251,585	92,515	1,274,972	0	1,619,072	1,711,500	105.7%
Ypsilanti Cmnty Util Auth	8106	20,219,619	1,764,221	43,918,510	40,706	65,943,056	45,122,848	68.4%
Ypsilanti HC	8115	200,067	200,360	529,811	9,244	939,482	1,147,625	122.2%
Ypsilanti, City of	8101	5,835,327	1,428,047	10,610,586	118,256	17,992,216	22,968,548	127.7%
Ypsilanti, Twp of	8104	9,635,569	1,438,472	17,573,146	133,997	28,781,184	21,298,840	74.0%
Totals - Active Groups	731	4,816,298,463	782,240,203	11,487,019,623	40,061,660	17,125,619,949	12,450,804,434	
Totals - Closed Groups	13	0	1,867,012	16,529,046	5,690	18,401,748	23,647,226	
Totals- MERS	744	4,816,298,463	784,107,215	11,503,548,669	40,067,350	17,144,021,697	12,474,451,660	

<sup>1</sup> For Closed Employers the Actuarial Value of Assets is equal to the Market Value of Assets.



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix C: Annual Employer Contribution Requirements

Municipality Name	Number	Normal Cost	Amortization Payment <sup>1,2</sup>	Total Employer Contribution <sup>2</sup>
21st Dist Ct	8243	66,900	111,540	178,440
23rd Jud Dist Ct	8223	12,720	96,276	108,996
26th Jud Cir Ct	0403	56,052	80,976	137,028
34th Dist Ct	8235	146,844	459,348	606,192
35th Dist Ct	8234	(8,688)	118,440	109,752
41 B Dist Ct	5014	105,696	303,492	409,188
Addison Fire Dept	4607	0	10,596	10,596
Adrian, City of	4601	316,476	1,961,208	2,303,664
Aitkin Memorial Dist Lib	7407	0	(9,072)	0
Albion, City of	1301	52,404	112,104	196,080
Alcona Co	0101	228,468	711,324	939,792
Alger Co	0203	197,604	430,332	630,444
Alger CRC	0201	132,072	332,292	464,364
Algonac, City of	7707	14,808	90,720	105,528
Allegan Co	0302	224,148	543,996	768,144
Allegan CRC	0301	207,636	1,090,620	1,298,256
Allegan, City of	0309	91,776	202,248	294,024
Alma, City of	2901	230,196	467,412	780,744
Almont, Vlg of	4407	53,436	54,132	107,568
Alpena Co	0401	336,048	779,844	1,132,488
Alpena CRC	0402	58,380	370,308	428,688
Alpena HC	0406	38,508	0	38,508
Alpena Sr Citizens Ctr	0404	0	135,108	135,108
Alpha, Vlg of	3614	0	(3,672)	0
Antrim Co	0502	858,228	1,234,596	2,092,824
Antrim CRC	0501	104,904	622,152	727,056
Arenac Co	0603	70,104	463,224	534,912
Arenac CRC	0604	36,408	406,476	442,884
Armada Twp	5022	55,020	1,692	56,712
Ash Twp	5804	30,168	36,708	66,876
Au Gres, City of	0602	0	81,024	93,024
Auburn, City of	0905	0	63,744	68,748
Bad Axe Area Dist Lib	3214	4,512	2,664	7,176
Bad Axe, City of	3211	69,000	27,132	96,132
Bancroft, Vlg of	7610	0	7,416	7,416
Bangor, City of	8003	43,680	(68,124)	0
Baraga Co	0702	158,256	191,148	349,404
Baraga Co Memorial Hosp	0703	83,952	1,043,268	1,127,220
Baraga CRC	0701	66,660	313,944	380,604
Baraga, Vlg of	0704	78,732	239,220	317,952
Baroda Lake Twp Police Dept	1109	43,884	25,788	69,672
Barry Co	0802	1,845,756	2,330,388	4,201,284
Barry Co CMH Auth	0804	440,496	328,116	768,612
Barry Eaton Dist Hlth Dept	2303	49,512	487,488	537,000
Barton Hills, Vlg of	8107	1,140	7,884	9,024
Bates Twp	3616	0	24,480	24,480
Bath Chtr Twp	1909	(6,516)	237,588	231,072
Battle Creek, City of	1302	1,213,056	5,903,544	7,136,400
Bay Area Trans Auth	2810	432,300	53,868	486,168
Bay City HC	0906	10,812	(15,012)	0
Bay City, City of	0901	61,956	395,100	471,624
Bay Metro Trans Auth	0907	264,156	631,344	895,500
Beecher Metro Dist Swg&Wtr	2501	30,432	127,248	157,680
Belding, City of	3410	15,588	110,424	135,528
Belleville, City of	8213	62,892	300,696	363,588
Benton Harbor, City of	1120	73,896	1,431,732	1,505,628
Benzie Co	1003	225,192	599,580	825,960
Benzie Co Comm on Aging CLD	1006	0	44,628	44,628
Benzie Co MCF (The Maples)	1004	249,456	102,696	352,152
Benzie CRC	1001	86,088	321,708	407,796
Benzie Shores Dist Lib	1005	0	1,524	1,524
Benzie Trans Auth	1007	21,396	(40,896)	0
Benzie/Leelanau Dist Hlth Dept	4504	14,820	75,384	90,204
Berkley, City of	6304	211,968	860,676	1,108,140
Berrien Springs, Vlg of	1102	41,448	19,248	60,696
Bessemer, City of	2702	59,844	64,908	124,752
Beverly Hills, Vlg of	6321	137,532	621,840	759,372
Big Rapids HC	5406	7,848	137,520	145,368
Big Rapids, City of	5402	22,848	809,268	832,116
Bingham Farms, Vlg of	6332	14,736	10,464	25,200



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix C: Annual Employer Contribution Requirements

Municipality Name	Number	Normal Cost	Amortization Payment <sup>1,2</sup>	Total Employer Contribution <sup>2</sup>
Birch Run, Vlg of	7315	21,540	17,592	39,132
Bishop Intl Arprt Auth	2507	82,092	198,204	280,296
Blackman Chtr Twp	3806	6,252	428,112	434,364
Blissfield, Vlg of	4606	165,912	59,772	225,684
Bloomfield Hills, City of	6302	245,688	1,152,420	1,398,108
Blue Water Area Trans Comm	7709	416,388	267,720	684,108
Boyne City HC	1508	20,928	53,220	74,148
Boyne City, City of	1506	36,240	291,924	328,716
Branch Co	1205	413,664	1,264,536	1,775,520
Branch-Hillsdale-St Joseph Comm Hlth Agcy	1202	128,112	391,632	519,744
Brandon Chtr Twp of	6333	140,352	195,528	335,880
Breckenridge,Vlg of	2906	13,632	140,844	154,476
Bridgeport Chtr Twp	7307	160,416	306,192	466,608
Bridgman, City of	1110	61,908	46,800	108,708
Brighton Area Fire Auth	4715	0	(96)	0
Brighton, Chtr Twp of	4711	44,148	50,364	94,512
Brighton, City of	4704	229,332	728,772	958,104
Britton, Vlg of	4604	1,788	(45,480)	0
Bronson, City of	1204	(20,016)	71,892	51,876
Brooklyn, Vlg of	3801	34,860	26,676	61,536
Brownstown, Chtr Twp of	8247	399,216	941,736	1,340,952
Buchanan Dist Lib	1108	5,604	(5,136)	468
Buchanan, City of	1101	141,984	36	142,020
Buena Vista Chtr Twp	7312	80,856	287,184	381,336
Burton, City of	2508	(30,672)	2,770,428	2,775,672
Butman Twp CLD	2604	0	0	0
Cadillac, City of	8301	285,876	386,100	671,976
Cadillac/Wexford Trans Auth	8305	84,972	49,860	134,832
Calhoun Co	1311	1,258,908	375,084	1,633,992
Calhoun Co Conso Disp Auth	1316	39,492	138,588	178,080
Canton Pub Lib	8232	54,912	0	54,912
Canton, Chtr Twp of	8233	2,412,720	4,351,356	6,764,076
Capac, Vlg of	7705	8,484	185,904	194,388
Capital Area Dist Lib	3317	198,216	220,896	419,112
Capital Region Arprtr Auth	3305	242,460	429,696	672,156
Carleton, Vlg of	5805	17,616	32,424	50,040
Carrollton Twp	7320	90,096	71,532	161,628
Cascade Chtr Twp	4110	40,572	284,256	324,828
Caseville, City of	3207	56,820	103,716	160,536
Caspian, City of	3608	13,356	53,292	66,648
Cass Co	1402	505,080	810,816	1,324,608
Cass Co MCF	1403	231,336	53,040	284,376
Cass Dist Lib	1404	26,292	4,728	31,020
Cedar Springs, City of	4105	29,580	71,100	100,680
Center Line, City of	5001	15,096	466,620	494,244
Central Lake, Vlg of	0504	25,020	228	25,248
Central Mich Dist Hlth Dept	3705	77,124	2,032,872	2,109,996
Charlevoix Co	1503	1,419,828	1,553,028	2,972,856
Charlevoix CRC	1501	202,128	260,748	464,172
Charlevoix, City of	1505	186,744	483,048	669,792
Charlotte Comm Lib	2309	17,220	39,756	56,976
Charlotte, City of	2301	251,640	893,148	1,159,848
Cheboygan Co	1603	634,260	836,832	1,471,092
Cheboygan CRC	1601	113,592	996,168	1,119,924
Cheboygan, City of	1602	119,784	421,848	541,632
Chelsea Area Fire Auth	8118	98,316	20,028	118,344
Chelsea, City of	8103	12,468	141,084	153,552
Chesaning, Vlg of	7313	(5,796)	261,300	266,064
Chesterfield Twp	5009	888,828	1,180,380	2,069,208
Chesterfield Twp Lib	5010	49,752	0	49,752
Chikaming Twp	1112	49,560	56,220	105,780
Chippewa Co	1703	632,760	1,481,112	2,166,852
Chippewa Co - Emplmt & Trng CLD	1710	0	0	0
Chippewa CRC	1704	398,556	929,604	1,328,160
Chippewa River Dist Lib	3707	68,808	67,860	136,668
Chocolay, Chtr Twp of	5218	41,592	0	41,592
Clare Co	1802	476,508	654,648	1,131,156
Clare Co Trans Auth	1806	20,136	4,920	25,056
Clare CRC	1801	107,928	486,696	594,624
Clare, City of	1804	147,060	371,760	518,820



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix C: Annual Employer Contribution Requirements

Municipality Name	Number	Normal Cost	Amortization Payment <sup>1,2</sup>	Total Employer Contribution <sup>2</sup>
Clawson, City of	6305	47,736	147,396	195,132
Clay Twp	7706	143,652	347,868	491,520
Clearwater Twp	4005	0	4,080	4,080
Clinton Co	1903	466,956	(26,544)	453,936
Clinton CRC	1901	213,216	851,844	1,065,060
Clinton Twp	5002	718,908	2,943,912	3,722,568
Clinton, Vlg of	4602	44,760	1,884	46,644
Clinton-Eaton-Ingham CMH	3308	4,484,928	5,841,900	10,336,272
Clio, City of	2523	3,420	49,980	53,400
CMH for Central Mich	3708	3,013,224	0	3,013,224
Coldwater Brd of Pub Util	1203	69,444	900,744	970,188
Coldwater, City of	1201	30,672	651,456	682,128
Coleman, City of	5603	18,912	121,224	140,136
Coloma Chtr Twp	1107	40,956	84,660	125,616
Coloma, City of	1118	15,612	2,340	17,952
Columbiaville, Vlg of	4406	6,576	14,136	20,712
Constantine, Vlg of	7806	13,284	(8,628)	4,656
Coopersville Area Dist Lib	7011	0	17,364	18,540
Coopersville, City of	7005	74,064	90,600	164,664
Corunna City of	7604	72,012	8,880	86,724
Corwith Twp	6904	1,980	0	1,980
Covert Twp	8010	38,652	39,504	78,156
Crawford Co	2001	113,928	94,644	208,572
Crawford Co Trans Auth	2004	62,040	95,496	157,536
Crawford CRC	2002	143,964	563,052	707,016
Croswell, City of	7401	97,428	374,028	471,456
Crystal Falls Cmnty Hosp CLD	3618	0	0	0
Crystal Falls, City of	3603	67,392	434,664	502,056
Ctrl Wayne Co Sanitation Auth	8214	0	31,488	31,488
Davison Richfield Sr CCA	2525	3,852	13,296	17,148
Davison Twp	2519	58,908	309,672	368,580
Davison, City of	2516	117,252	678,180	795,432
Dearborn, City of	8251	2,209,656	133,152	2,342,808
Deerfield, Vlg of	4603	20,412	51,732	72,144
Delta Area Transit Auth	2107	22,836	10,716	33,552
Delta Chtr Twp	2306	112,392	396,072	508,464
Delta Co	2102	232,476	2,124,036	2,356,512
Delta CRC	2105	177,744	596,928	774,672
Delta-Menominee Dist Hlth Dept	2103	185,868	204,252	390,120
Detour, Vlg of	1706	20,796	44,268	65,064
Detroit HC	8241	266,268	78,324	374,196
DeWitt Chtr Twp	1910	105,264	186,048	291,312
DeWitt, City of	1908	60,564	151,236	211,800
Dexter Area Fire Dept	8219	53,196	40,020	93,216
Dexter Twp	8111	1,044	21,768	22,812
Dexter, City of	8217	22,320	134,496	156,816
Dickinson Co	2206	338,148	1,488,324	1,826,472
Dickinson CRC	2203	76,332	726,648	802,980
Dickinson-Iron Dist Hlth Dept	3605	89,988	715,320	805,308
Dimondale, Vlg of	2304	2,820	27,372	30,192
Dist Hlth Dept # 2	6501	21,168	170,532	191,700
Dist Hlth Dept # 4	7103	127,692	836,052	963,744
Dist Hlth Dept #10	5104	674,436	976,080	1,650,516
Douglas, City of Vlg of	0303	119,904	14,868	134,772
Dowagiac Dist Lib	1406	8,520	2,028	10,548
Dowagiac HC	1405	22,668	5,664	28,332
Dowagiac, City of	1401	197,748	1,036,572	1,234,320
Drummond Island Twp	1708	11,748	1,788	13,536
Dryden, Vlg of	4405	4,848	6,948	11,796
Dundee, Vlg of	5803	21,924	0	21,924
Durand, City of	7603	105,876	226,176	332,052
E UP Reg Planning & Dev Comm	1709	20,268	(21,084)	0
E UP Trans Auth	1705	154,644	620,976	775,620
East China Chtr Twp	7701	49,008	334,488	383,496
East Jordan, City of	1504	80,376	145,764	226,140
East Lansing, City of	3301	2,104,800	7,547,880	9,652,680
Eastpointe HC	5011	15,084	22,800	37,884
Eastpointe, City of	5019	609,456	4,500,792	5,110,248
Eaton Co	2302	669,972	5,530,620	6,200,592
Eaton Co Hlth & Rehab Svcs	2305	560,112	133,320	693,432



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### Appendix C: Annual Employer Contribution Requirements

Municipality Name	Number	Normal Cost	Amortization Payment <sup>1,2</sup>	Total Employer Contribution <sup>2</sup>
Eaton Rapids, City of	2307	96,156	527,436	632,280
Eau Claire, Vlg of	1104	540	28,200	28,740
Ecorse, City of	8206	177,648	1,526,172	2,057,916
Elk Rapids, Vlg of	0506	66,192	71,184	137,376
Elkton, Vlg of	3206	528	(10,560)	8,316
Elsie, Vlg of CLD	1906	0	0	0
Emmet CRC	2401	66,384	1,081,992	1,148,376
Emmett, Chtr Twp	1310	(8,304)	148,224	139,920
Erie, Twp of	5812	13,500	2,088	15,588
Escanaba, City of	2101	67,992	2,365,824	2,433,816
Essexville, City of	0903	44,700	175,356	263,928
Ewart, City of	6705	47,472	94,080	141,552
Farmington Cmnty Lib	6319	11,544	197,100	208,644
Farmington, City of	6343	351,684	641,244	1,062,480
Farwell, Vlg of	1805	9,060	13,080	22,140
Fenton, City of	2505	336,276	507,468	845,208
Ferndale HC	6345	12,516	29,736	42,252
Ferrysburg, City of	7106	13,896	66,684	80,580
Flat Rock, City of	8212	141,744	1,429,824	1,598,376
Flint Pub Lib	2518	92,940	0	92,940
Flint, Chtr Twp of	2512	311,064	1,336,404	1,647,468
Flint, City of	2530	1,457,280	28,293,672	29,860,176
Flushing, Chtr Twp of	2515	41,016	250,044	291,060
Flushing, City of	2502	90,600	916,224	1,006,824
Forsyth Twp	5212	127,680	345,156	479,676
Fowler, Vlg of	1904	16,608	15,456	32,064
Fowlerville Dist Lib	4710	2,124	11,472	13,596
Fowlerville, Vlg of	4705	6,012	44,868	50,880
Frankenmuth Wickson Dist Lib	7323	0	9,204	9,204
Frankenmuth, City of	7306	127,596	509,568	637,164
Frankfort, City of	1002	52,776	178,296	231,072
Franklin, Vlg of	6323	65,196	328,356	454,380
Fraser, City of	5003	360,960	2,438,604	2,848,656
Fremont Area Dist Lib	6209	37,212	51,564	88,776
Fremont, City of	6203	206,340	496,416	702,756
Gaastra, City of	3617	5,712	16,824	22,536
Garden City, City of	8255	732,120	3,668,124	4,400,244
Gaylord, City of	6903	227,844	642,576	870,420
Genesee Chtr Twp	2510	257,724	978,552	1,236,276
Genoa Twp	4713	26,664	9,228	35,892
Gerald R Ford Intl Arpt Auth	4116	522,348	(801,984)	250,692
Gladstone, City of	2106	35,316	1,256,988	1,292,304
Gladwin City HC	2608	72,288	96,228	168,516
Gladwin Co	2602	361,980	855,084	1,217,064
Gladwin Co Dist Lib	2607	26,340	29,952	56,292
Gladwin CRC	2601	76,572	350,748	427,320
Gladwin, City of	2605	89,316	37,032	131,268
Gogebic-Iron WWTR Auth	2703	36,012	116,604	152,616
Grand Beach, Vlg of	1117	24,192	0	24,192
Grand Blanc Chtr Twp	2511	156,516	964,416	1,120,932
Grand Blanc, City of	2513	137,496	199,680	337,176
Grand Haven BLP	7026	154,524	162,072	316,596
Grand Haven, City of	7010	116,976	2,202,444	2,319,420
Grand Ledge Area Dist. Lib	2316	6,612	372	6,984
Grand Ledge Area ESA	2310	81,288	52,428	133,716
Grand Ledge, City of	2312	48,756	150,876	199,632
Grand Rapids HC	4108	0	50,520	50,520
Grand Traverse Co	2803	282,408	3,900	286,308
Grand Traverse CRC	2802	0	77,616	77,616
Grand Traverse Pavilions	2809	720,804	485,340	1,206,144
Grandville, City of	4102	42,648	937,692	980,340
Gratiot Co	2905	116,388	276,684	393,072
Gratiot CRC	2903	263,256	414,264	677,520
Grayling, City of	2003	23,880	362,460	386,340
Green Oak Chtr Twp	4708	133,632	287,304	420,936
Greenville, City of	5906	(46,968)	172,248	125,280
Grosse Ile Twp	8207	478,920	1,268,688	1,747,608
Grosse Pointe Park, City of	8201	385,344	2,147,544	2,532,888
Grosse Pointe-Clinton Ref CLD	5004	0	0	0
Groveland Twp	6335	56,964	(101,760)	31,800



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### Appendix C: Annual Employer Contribution Requirements

Municipality Name	Number	Normal Cost	Amortization Payment <sup>1,2</sup>	Total Employer Contribution <sup>2</sup>
Hackley Pub Lib	6114	63,024	8,112	71,136
Hamburg Twp	4709	131,916	232,104	364,020
Hamtramck HC	8250	132,072	66,192	198,264
Hamtramck, City of	8205	199,308	5,324,640	5,523,948
Hancock, City of	3107	77,196	178,968	256,164
Harbor Beach, City of	3201	94,500	310,476	404,976
Harbor Springs Area Swg Auth	2406	21,384	22,908	44,292
Harbor Springs, City of	2405	9,060	242,340	251,400
Harper Woods, City of	8260	249,720	3,055,980	3,305,700
Harrison Dist Lib	1807	0	11,964	11,964
Harrison, City of	1803	50,076	146,232	196,308
Hartland Deerfield Fire Auth	4716	35,820	0	35,820
Hastings, City of	0801	153,060	797,040	953,676
Hazel Park, City of	6336	510,180	3,737,820	4,271,124
Helen Newberry Joy Hosp	4805	18,060	1,141,152	1,159,212
Henika Dist Lib	0310	12,744	1,788	14,532
Herrick Dist Lib	7012	64,944	172,404	237,348
Hesperia, Vlg of	6214	17,340	(1,776)	15,564
Hiaawatha Bhvrl Hlth	1707	40,296	794,412	834,708
Hillsdale Co	3005	(20,868)	297,900	277,032
Hillsdale CRC	3004	130,116	305,364	435,480
Hillsdale HC	3007	16,140	4,632	20,772
Hillsdale, City of	3001	228,120	362,088	802,428
Hlth Source of Saginaw	7311	343,356	1,590,288	1,961,652
Holland Area Cmnty Pool Auth	7014	27,840	(2,928)	24,912
Holland Cmnty Hosp CLD	7006	0	0	0
Holland, City of	7001	712,236	1,493,004	2,205,240
Holly, Vlg of	6317	153,864	682,500	1,005,216
Homer, Vlg of	1304	41,160	21,264	62,424
Houghton Co	3102	275,220	1,028,856	1,304,076
Houghton CRC	3103	98,664	103,536	202,200
Houghton Lake Pub Lib	7203	22,008	7,908	29,916
Houghton, City of	3109	150,864	111,828	262,692
Howard City, Vlg of	5902	0	(4,452)	0
Howard Twp	1106	8,952	3,576	12,528
Howell Area Fire Auth	4714	76,464	12,012	88,476
Howell, City of	4702	207,324	939,396	1,146,720
Howell-Carnegie Dist Lib	4707	53,268	37,200	90,468
Hudsonville, City of	7004	0	93,420	93,420
Huntington Woods, City of	6303	162,084	856,008	1,018,092
Hurley Med Ctr	2521	1,505,412	22,898,424	24,403,836
Huron Bhvrl Hlth	3215	294,264	368,532	662,796
Huron Chtr Twp	8224	301,908	836,868	1,138,776
Huron Co	3204	1,297,692	2,801,028	4,098,720
Huron CRC	3202	143,784	665,844	809,628
Imlay City, City of	4404	96,480	298,080	394,560
Independence Twp	6328	178,248	361,116	539,364
Indianfields Twp CLD	7905	0	0	0
Ingham Co	3303	5,313,600	16,618,536	22,220,028
Interurban Trans Auth	0308	25,980	41,244	67,224
Ionia Cmnty Lib	3412	20,772	26,304	47,076
Ionia Co	3408	183,912	1,413,036	1,596,948
Ionia HC	3406	12,756	21,156	33,912
Ionia, City of	3403	343,104	1,101,300	1,444,404
Iosco Co	3501	290,376	1,306,248	1,596,624
Iosco CRC	3502	37,224	328,044	365,268
Iron Co	3606	453,888	863,376	1,317,264
Iron Co HC	3611	12,672	38,628	51,300
Iron CRC	3602	137,748	710,676	848,424
Iron Mountain, City of	2201	74,340	710,580	785,928
Iron Mountain-Kingsford Swg	2205	12,528	34,416	46,944
Iron River, City of	3601	46,560	421,524	468,084
Ironwood, City of	2706	218,808	816,576	1,035,384
Isabella Co	3703	353,664	2,521,752	2,911,140
Isabella Co Trans Comm	3709	32,736	(6,312)	26,424
Isabella CRC	3702	75,912	329,244	410,172
Ishpeming Area Joint Wwtr Trtm	5207	33,924	(7,428)	26,496
Ishpeming Twp	5216	31,596	(1,200)	30,396
Ishpeming, City of	5204	122,016	41,016	163,032
Ithaca, City of	2904	14,556	329,844	344,400





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Municipality Name	Number	Normal Cost	Amortization Payment <sup>1,2</sup>	Total Employer Contribution <sup>2</sup>
Jackson Dist Lib	3802	157,476	84,960	242,436
Jackson Trans Auth	3805	138,480	227,568	366,048
Jordan Valley Dist Lib	1507	5,364	3,132	8,496
Jordan Valley EMS Auth	1509	28,572	19,272	47,844
Kalamazoo Lake Swr & Wtr Auth	0306	56,196	30,468	86,664
Kalamazoo Pub Lib	3903	465,204	91,368	556,572
Kalamazoo, Chtr Twp of	3907	69,852	324,540	394,392
Kalkaska Co	4003	366,936	712,740	1,079,676
Kalkaska CRC	4002	30,948	576,348	618,696
Kalkaska Pub Trans Auth	4004	41,736	46,512	88,248
Kalkaska, Vlg of	4001	87,204	312,324	399,528
Keego Harbor, City of	6322	21,684	261,600	283,360
Kent CRC	4111	0	(10,524)	0
Keweenaw Co	4202	79,512	107,136	186,648
Keweenaw CRC	4201	84,924	322,368	407,292
Kinde, Vlg of	3209	1,872	(5,820)	0
Kingsford, City of	2202	82,728	332,352	415,080
L.M.A.S. Dist Hlth Dept	4803	111,828	338,952	450,780
Lac Vieux Desert Band	8402	24,084	204	24,288
Laingsburg, City of	7608	19,416	13,176	32,592
Lake Co	4301	211,344	444,576	655,920
Lake CRC	4302	142,164	451,344	593,508
Lake Linden, Vlg of	3105	23,304	60,204	84,636
Lake Odessa, Vlg of	3402	7,692	4,632	12,324
Lake Orion, Vlg of	6318	12,636	264,888	277,524
Lakeland Lib Coop	4106	24,696	720	25,416
Lakeshore Coordinating Council CLD	7007	0	7,740	7,740
Lakeview Cemetery	2407	6,276	0	6,276
L'Anse, Vlg of	0705	124,188	346,920	471,108
Lansing Chtr Twp	3320	175,044	138,936	313,980
Lansing HC	3311	31,800	(22,344)	67,560
Lapeer Co	4403	3,299,904	1,758,708	5,058,612
Lapeer CRC	4402	103,344	146,520	295,476
Lapeer Dist Lib	4410	42,720	168,924	211,644
Lapeer, City of	4401	660,924	1,005,480	1,666,404
Lathrup Vlg, City of	6311	33,636	194,520	286,872
Laurium, Vlg of	3104	25,740	102,540	128,280
Lawrence, Vlg of	8004	0	864	5,076
Leelanau Co	4501	622,188	320,100	942,288
Leelanau CRC	4503	22,248	0	22,248
Leoni Twp	3804	11,568	241,560	253,128
Leslie Twp	3319	6,204	3,300	9,504
Leslie, City of	3313	50,604	74,160	124,764
Lexington, Vlg of	7708	16,200	138,312	155,664
Lima Twp	8112	15,000	(3,864)	11,136
Lincoln Park, City of	8244	189,384	2,886,192	3,075,576
Litchfield, City of	3006	29,760	74,784	104,544
Livingston Co	4703	2,450,916	3,840,828	6,291,744
Livingston Co CMH Auth	4712	307,728	650,472	958,200
Livingston CRC	4701	403,764	930,012	1,333,776
Looking Glass Rgnl Fire CLD	2311	0	0	0
Loutit Dist Lib	7013	75,900	88,680	164,580
Lowell, City of	4104	116,148	505,404	621,552
Luce Co	4804	105,012	383,028	488,040
Luce Co Amb Svs	4806	13,260	7,716	20,976
Luce CRC	4801	90,384	615,588	705,972
Ludington, City of	5302	276,132	612,972	889,104
Luna Pier, City of	5802	5,376	325,812	331,188
Lyons, Vlg of	3411	0	3,828	3,828
Mackinac Co	4901	96,600	1,179,696	1,276,296
Mackinac Co HC	4905	36	9,012	9,048
Mackinac CRC	4903	62,760	811,908	874,668
Mackinac Straits Hlth Sys	4902	1,244,124	773,508	2,022,024
Mackinaw City, Vlg of	1606	18,396	29,652	48,048
Madison Heights, City of	6308	117,600	197,892	315,492
Madison, Chtr Twp of	4605	86,076	66,360	152,436
Manistee Co	5101	676,524	1,462,368	2,347,140
Manistee Co Trans Auth	5109	99,180	0	99,180
Manistee CRC	5103	131,016	258,048	496,500
Manistee HC	5107	10,356	1,656	12,012



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Manistee, City of	5105	263,844	496,440	760,284
Manistique HC	7508	0	34,680	34,680
Manistique, City of	7504	298,452	802,800	1,101,252
Manlius Twp	0311	4,440	19,056	23,496
Manton, City of	8304	22,104	119,880	141,984
Marenisco Twp	2704	9,372	18,180	27,552
Marion, Vlg of	6704	7,056	11,748	20,328
Marlette, City of	7405	53,292	82,008	135,300
Marquette Brd of Light & Power	5209	103,668	1,596,096	1,708,272
Marquette Chtr Twp	5215	104,520	58,008	162,528
Marquette Co	5202	1,060,224	2,726,868	3,787,092
Marquette Co Solid Waste Mgmt	5213	103,740	24,300	128,040
Marquette Co Trans Auth	5206	100,440	47,532	147,972
Marquette CRC	5211	177,528	1,467,396	1,644,924
Marquette, City of	5201	644,172	3,303,600	3,947,772
Marshall Area Firefighters Amb	1313	26,424	21,000	47,424
Marshall Dist Lib	1309	0	56,136	56,136
Marshall, City of	1306	246,936	1,531,932	1,778,868
Mason Co	5301	1,054,704	2,297,832	3,352,536
Mason Co Dist Lib	5303	58,068	51,576	109,644
Mason CRC	5305	226,980	310,464	537,444
Mason, City of	3304	104,592	455,232	603,768
Mason-Oceana 911	6403	80,952	27,708	108,660
MBS Intl Arprt	0902	140,568	498,636	650,628
Meceola Central Disp	5405	29,004	61,872	90,876
Mecosta Co	5403	153,228	768	165,672
Mecosta Co General Hosp CLD	5404	0	0	0
Mecosta CRC	5401	65,988	69,288	135,276
Melvindale HC	8220	18,276	36,612	54,888
Melvindale, City of	8215	65,232	3,743,556	3,808,788
Menominee Co	5502	286,692	1,104,156	1,412,808
Menominee CRC	5503	17,868	276,744	294,612
Menominee, City of	5501	124,920	290,472	415,392
Meridian Chtr Twp	3315	603,540	2,532,012	3,135,552
MERS	2308	1,582,212	678,312	2,260,524
Metamora Twp	4409	46,992	19,152	66,144
Metro Police Auth of Genesee Co	2532	195,168	75,708	270,876
Mich Muni Risk Mgmt Auth	8237	43,152	(66,420)	0
Mich S Central Power Agcy	3002	0	(29,688)	0
Middleville, Vlg of	0803	19,980	38,220	58,200
Midland Co Central Disp Auth	5604	72,828	120,672	193,500
Midland CRC	5602	127,524	1,169,124	1,296,648
Midland, City of	5601	786,540	6,117,468	6,906,288
Mid-Mich Dist Hlth Dept	5901	320,244	305,868	626,112
Mid-Mich Lib League	8306	14,016	9,900	23,916
Milan Lib	5806	12,024	12,372	24,396
Milan, City of	5801	48,168	1,005,960	1,061,244
Milford, Vlg of	6313	199,116	339,684	555,108
Millington, Vlg of	7904	11,340	6,840	18,180
Missaukee Co	5702	140,508	145,356	285,864
MOA Solid Waste Mgmt Auth	6002	41,340	19,632	60,972
Monroe HC	5808	86,472	127,728	214,200
Montague, City of	6112	99,372	228,072	327,444
Montcalm Care Network	5909	0	(897,612)	0
Montcalm Co	5907	284,244	499,404	783,648
Montcalm CRC	5905	160,092	812,208	972,300
Montmorency Co	6001	209,028	388,548	653,244
Montrose, City of	2509	4,344	9,840	14,184
Mt. Morris Chtr Twp	2503	259,932	1,745,616	2,005,548
Mt. Pleasant, City of	3701	460,176	971,832	1,432,008
Muir, Vlg of	3405	0	3,528	3,528
Mundy, Chtr Twp of	2517	6,852	28,164	35,016
Munising, City of	0202	119,676	355,152	474,828
Muskegon Area Dist Lib	6117	146,484	(720)	145,764
Muskegon Chtr Twp	6108	116,760	80,904	197,664
Muskegon Co	6103	1,174,716	5,139,288	6,314,004
Muskegon CRC	6101	334,752	668,064	1,009,764
Muskegon Ctrl Dispatch 911	6109	143,748	185,388	329,136
Muskegon HC	6113	26,784	23,028	49,812
Muskegon Heights HC	6115	32,172	97,368	129,540



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix C: Annual Employer Contribution Requirements

Municipality Name	Number	Normal Cost	Amortization Payment <sup>1,2</sup>	Total Employer Contribution <sup>2</sup>
Muskegon Heights, City of	6102	326,892	1,471,944	1,798,836
Muskegon, City of	6116	358,296	4,178,796	4,537,092
N Houghton Co Wtr&Swg Auth	3106	15,516	11,988	27,504
N Muskegon, City of	6104	30,984	224,940	255,924
Nashville, Vlg of	0807	10,464	2,448	12,912
Negaunee Twp	5217	1,584	0	1,584
Negaunee, City of	5203	161,364	560,148	721,512
Network180	4109	201,468	707,064	908,532
New Baltimore, City of	5016	218,856	343,464	573,444
New Buffalo Twp	1121	20,124	0	20,124
New Buffalo, City of	1113	60,552	0	60,552
Newaygo CMH	6207	0	(15,108)	0
Newaygo Co	6201	36,720	502,140	538,860
Newaygo CRC	6212	115,644	196,032	313,032
Newaygo MCF	6204	78,540	61,380	143,412
Newaygo Soil & Wtr Cnsrvn Dist	6205	7,776	1,164	8,940
Newberry, Vlg of	4802	60,936	169,500	230,436
Niles Dist Lib	1105	17,364	29,760	47,124
Niles, City of	1115	400,188	758,364	1,158,552
Northern Lakes CMH Auth	2808	240	330,780	342,600
Northfield Twp	8117	48,648	37,284	85,932
Northpointe Bhvrl Hlth Sys	2207	185,748	339,576	534,276
Northville Chtr Twp	8230	1,351,560	310,152	1,661,712
Northville Dist Lib	8229	154,212	31,848	186,060
Northville, City of	8208	32,736	1,373,016	1,405,752
Norton Shores, City of	6106	520,056	2,188,140	2,708,196
Norway, City of	2204	74,856	1,245,276	1,320,132
Nottawaseppi Huron Band	8403	168,492	19,644	188,136
Novi, City of	6320	846,924	4,497,012	5,344,188
NW Mich Cmnty Hlth Agcy	1502	12,396	154,548	166,944
NW Rgnl Arprt Auth	2805	71,040	0	71,040
Oceana Co	6402	408,888	1,569,204	2,093,700
Oceola Twp	4717	29,208	0	29,208
Ogemaw Co	6502	133,764	1,663,212	1,796,976
Ogemaw Co Emerg Disp Auth	6510	25,932	142,500	168,432
Ogemaw Co EMS Auth	6508	259,824	103,896	363,720
Ogemaw CRC	6503	94,332	322,620	416,952
Olive Twp	7009	3,384	13,788	17,172
Onaway, City of	7105	4,176	16,800	20,976
Ontonagon Co	6602	192,288	327,192	519,480
Ontonagon Co Economic Dev Corp	6605	0	13,380	13,380
Ontonagon CRC	6604	352,500	1,397,220	1,749,720
Ontonagon, Vlg of	6603	46,104	653,016	699,120
Orchard Lake, City of	6312	16,416	38,424	72,840
Oronoko Chtr Twp	1114	39,072	76,368	115,440
Osceola Co	6701	637,296	442,344	1,079,640
Osceola CRC	6703	88,320	297,024	385,344
Oscoda Chtr Twp	3503	78,840	177,996	256,836
Oscoda Co	6801	293,928	319,536	613,464
Oscoda Co Lib	6803	4,116	(3,564)	552
Oscoda Wurtsmith Arprt Auth	6802	18,876	7,296	26,172
Otisville, Vlg of	2506	20,496	22,356	42,852
Otsego Co	6902	280,164	720,252	1,049,952
Otsego CRC	6901	84,492	491,988	576,480
Ottawa Co	7003	2,473,428	8,801,724	11,275,152
Ottawa Co Central Disp Auth	7008	0	20,736	21,972
Ottawa CRC	7002	232,248	1,897,848	2,135,076
Otter Lake, Vlg of	4408	0	5,736	5,736
Owosso, City of	7607	308,580	366,396	674,976
Oxford Fire Department	6327	204,060	258,660	462,720
Oxford, Vlg of	6326	33,948	123,036	156,984
Parchment, City of	3901	11,160	100,512	111,672
Pathways(Spr.Bhvl.Mntl.Hlth)	5214	37,428	4,128,768	4,166,196
Paw Paw Lk Reg Jnt Swg Disp Bd	1103	12,972	66,288	79,260
Paw Paw, Vlg of	8002	128,616	224,208	352,824
Pellston, Vlg of	2404	4,320	7,368	11,688
Pennfield Chtr Twp	1312	36,576	93,468	130,044
Pentwater, Vlg of	6401	43,908	45,444	89,352
Perrinton, Vlg of	2909	5,172	5,760	10,932
Petersburg, City of	5807	21,732	6,456	28,188



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix C: Annual Employer Contribution Requirements

Municipality Name	Number	Normal Cost	Amortization Payment <sup>1,2</sup>	Total Employer Contribution <sup>2</sup>
Petoskey, City of	2402	392,724	241,104	633,828
Pewamo, Vlg of	3407	6,792	3,300	10,092
Pigeon, Vlg of	3203	20,352	5,268	25,620
Pinckney, Vlg of	4706	70,488	59,976	130,464
Pinconning, City of	0904	3,756	93,816	97,572
Pittsfield Chtr Twp	8110	819,180	1,375,104	2,261,184
Pleasant Ridge, City of	6301	67,764	220,632	288,396
Plymouth Dist Lib	8221	124,380	164,496	288,876
Plymouth, Chtr Twp of	8238	247,812	1,294,716	1,542,528
Plymouth, City of	8202	0	1,190,736	1,269,276
Pokagon Band of Potawatomi	8401	2,587,980	2,940	2,590,920
Port Austin Area Swr&Wtr Auth	3210	0	(13,428)	0
Port Austin, Vlg of	3208	4,380	20,940	25,320
Port Huron Chtr Twp	7711	38,676	100,848	139,524
Port Huron HC	7712	128,712	157,404	286,440
Port Huron, City of	7702	804,888	961,800	1,766,688
Port Sanilac, Vlg of	7403	6,072	53,244	59,316
Port Sheldon Twp	7018	26,544	2,208	28,752
Portland, City of	3401	147,576	489,564	637,140
Pottersville, City of	2313	20,856	20,916	41,772
Presque Isle Co	7104	237,432	429,240	666,672
Presque Isle CRC	7101	95,160	390,324	485,484
PRIDE Youth Programs CLD	6210	0	88,536	88,536
Ravenna, Vlg of	6111	3,288	9,552	12,840
Reading, City of	3003	15,168	10,428	25,596
Redford Twp Dist Lib	8228	39,324	0	39,324
Redford, Chtr Twp of	8209	469,476	2,154,660	2,624,136
Reed City, City of	6702	122,592	272,484	395,076
Richfield Twp (Genesee Co)	2514	58,224	262,500	320,724
Richfield Twp (Roscommon Co)	7202	51,420	111,708	163,128
Richland Twp	7310	33,156	248,052	281,208
Richmond, City of	5012	(38,412)	95,100	56,688
Rochester, City of	6307	212,916	934,164	1,147,080
Rockford, City of	4103	209,184	321,864	531,048
Rockwood, City of	5810	78,288	13,056	99,456
Rogers City, City of	7102	51,756	54,324	106,080
Romeo Dist Lib	5006	7,848	38,100	45,948
Romeo, Vlg of	5005	133,188	366,132	499,320
Romulus, City of	8225	298,212	3,081,000	3,466,056
Roosevelt Park, City of	6107	62,064	104,376	166,440
Roscommon Co	7201	341,304	1,039,980	1,381,284
Roscommon Co Trans Auth	7205	45,120	9,060	54,180
Rose City, City of	6504	19,860	12,300	32,160
Rose Twp	6506	6,444	(36,264)	0
Royal Oak, Chtr Twp of	6306	13,776	(275,796)	13,776
Saginaw Chtr Twp	7314	154,104	94,836	292,200
Saginaw Co	7303	29,004	5,508,960	5,537,964
Saginaw Co 911 Com Ctr	7316	0	322,152	323,556
Saginaw Co CMH	7318	10,332	2,805,924	2,816,256
Saginaw CRC	7304	261,276	1,096,716	1,357,992
Saginaw HC	7321	16,068	220,380	236,448
Saginaw Trans Sys Auth	7319	187,092	23,928	211,020
Saginaw, City of	7301	1,387,104	18,805,908	20,274,420
Saginaw, Pub Lib of	7317	85,548	(131,316)	0
Saginaw-Midland Muni Wtr Corp	7305	9,984	154,440	164,424
Saline, City of	8105	265,728	1,548,552	1,814,280
Sandusky Dist Lib	7404	0	2,952	2,952
Sandusky, City of	7402	91,920	198,924	290,844
Sanilac CRC	7410	86,004	150,288	236,292
Saranac HC	3413	6,588	11,412	18,000
Saugatuck Twp	0305	12,276	31,512	43,788
Saugatuck Twp Fire Dist	0313	49,896	0	49,896
Saugatuck, City of	0307	51,204	0	51,204
Sault Ste. Marie HC	4906	45,516	0	45,516
Sault Ste. Marie Tribe of Chippewa Indians	8404	230,760	10,836	241,596
Sault Ste. Marie, City of	1701	188,364	940,068	1,128,432
SCCMUA	1905	28,260	89,112	117,372
Schoolcraft Co	7503	410,160	1,344,540	1,793,112
Schoolcraft Co Trans Auth	7506	32,352	70,980	103,332
Schoolcraft CRC	7501	106,656	633,132	739,788



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix C: Annual Employer Contribution Requirements

Municipality Name	Number	Normal Cost	Amortization Payment <sup>1,2</sup>	Total Employer Contribution <sup>2</sup>
Schoolcraft Memorial Hosp	7505	42,792	478,716	522,420
Scio Twp	8116	95,616	117,744	213,360
Scottville, City of	5308	41,628	9,804	51,432
SE Oakland Co Rsrc Rec Auth	6310	62,796	96,996	159,792
SE Oakland Co Wtr Auth	6309	83,112	1,740	84,852
Sebewaing, Vlg of	3205	52,584	(188,220)	62,064
SEMCOG	8210	520,788	619,152	1,139,940
Shepherd, Vlg of	3704	14,592	19,080	33,672
Shiawassee Co	7602	978,588	3,903,204	5,101,164
Shiawassee Council on Aging	7605	8,052	20,856	28,908
Shiawassee CRC	7601	96,732	267,000	364,284
Shiawassee Dist Lib	7606	19,704	0	19,704
Shiawassee Hlth & Wellness	7609	636,636	721,572	1,358,208
Sims Whitney Util Auth	0606	15,588	13,512	29,100
SMART	8216	2,599,512	6,858,684	9,458,196
South Haven Area ESA	8005	86,664	334,080	420,744
South Haven, City of	8001	531,804	446,520	1,065,240
South Lyon, City of	6315	227,616	506,244	733,860
Southgate, City of	8262	66,708	1,201,440	1,268,148
Sparta, Vlg of	4107	47,304	80,772	128,076
Spring Lake Dist Lib	7016	23,856	43,452	67,308
Spring Lake, Vlg of	7015	6,840	109,308	131,700
Springfield, City of	1303	43,896	337,680	386,760
St Charles, Vlg of	7308	47,976	181,920	229,896
St Clair HC	7715	0	64,716	64,716
St Clair Shores HC	5007	46,128	124,620	170,748
St Clair, City of	7703	74,856	944,952	1,034,748
St Ignace, City of	4904	135,036	549,480	684,516
St Johns, City of	1902	87,744	1,203,888	1,291,632
St Joseph Co	7803	566,964	598,824	1,165,788
St Joseph Twp	1122	71,292	0	71,292
St Louis HC	2908	10,116	6,444	16,560
St Louis, City of	2902	13,560	25,176	46,500
Stambaugh Twp	3615	2,568	6,300	8,868
Standish, City of	0601	0	54,072	54,072
Stanton, City of	5903	0	(9,576)	0
Stephenson, City of	5504	7,044	31,800	38,844
Sterling, Vlg of	0605	5,856	(13,896)	0
Stockbridge, Vlg of	3316	23,688	27,612	51,300
Sturgis HC	7805	0	0	0
Summit Twp	3803	238,272	613,560	851,832
Sumpter Twp	8226	236,868	194,160	431,028
Superior Chtr Twp	8109	207,252	272,832	480,084
Superior Dist Lib	1702	27,420	(60,360)	0
Superiorland Lib Coop	5208	0	39,864	39,864
Suttons Bay Bingham Fire Auth	4506	55,848	91,224	147,072
SW Mich Comm Amb Svcs	1119	32,616	6,684	39,300
SW Shiawassee ESA	7611	104,796	(1,464)	103,332
Swan Creek Twp	7309	11,556	17,580	29,136
Swartz Creek, City of	2504	2,472	77,760	80,232
Sylvan Lake, City of	6314	17,196	23,184	40,380
Tawas Police Auth	3504	0	45,816	45,816
Taylor HC	8231	10,140	11,892	22,032
The Lib Network	8218	63,936	118,284	182,220
Three Rivers, City of	7801	306,060	551,892	857,952
Tittabawassee Twp	7322	87,204	47,100	134,304
Traverse Area Dist Lib	2807	744	66,804	67,548
Traverse City Light & Power	2811	308,424	2,315,544	2,623,968
Traverse City, City of	2801	556,704	1,480,908	2,037,612
Trenton, City of	8203	20,856	1,497,240	1,518,096
Tri-County Aging Consortium	3307	477,456	164,628	642,084
Trio Council on Aging Inc CLD	6507	0	7,404	7,404
Tuscarora Twp	1604	89,724	71,412	161,136
Tuscola Co	7902	333,648	464,472	798,120
Tuscola Co CMH	7907	368,148	(29,112)	339,036
Tuscola Co Hlth Dpt	7901	70,236	181,164	251,400
Tuscola Co MCF	7906	263,208	210,936	474,144
Tuscola CRC	7908	64,848	44,124	108,972
Twin City Pub Safety Auth CLD	3610	0	0	0
Ubyly, Vlg of	3212	0	30,300	30,300



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix C: Annual Employer Contribution Requirements

Municipality Name	Number	Normal Cost	Amortization Payment <sup>1,2</sup>	Total Employer Contribution <sup>2</sup>
Utica, City of	5008	61,128	81,204	142,332
Van Buren Co	8006	807,744	1,197,324	2,005,068
Van Buren Dist Lib	8007	20,196	0	20,196
Van Buren Twp	8236	270,912	570,132	841,044
Vassar, City of	7903	15,792	67,536	83,328
Vevay Twp	3318	4,332	35,088	39,420
Vicksburg Dist Lib	3904	0	9,468	9,468
Vicksburg, Vlg of	3902	31,572	84,072	115,644
Vienna, Chtr Twp of	2522	9,012	59,472	68,484
W Iron Co Swr Auth	3612	14,172	52,176	66,348
W Mich CMH Sys	5304	3,156	216,468	219,624
W Mich Shoreline Rgnl Dev Comm	6110	31,764	0	31,764
W UP Dist Hlth Dept	3101	50,736	905,160	955,896
Wakefield, City of	2701	46,164	161,736	207,900
Walker, City of	4112	143,304	856,584	1,031,700
Walled Lake, City of	6324	100,488	904,872	1,005,360
Washtenaw Co	8113	2,622,936	3,614,028	6,236,964
Washtenaw CRC	8102	317,028	2,865,636	3,182,664
Wayland, City of	0304	200,256	220,644	420,900
Wayne HC	8252	22,872	29,976	52,848
Wayne, City of	8242	561,396	4,715,856	5,366,724
Webberville, Vlg of	3314	14,424	0	14,424
West Branch Dist Lib	6509	9,612	384	9,996
West Branch, City of	6505	44,400	239,364	283,764
Westland, City of	8211	435,852	421,944	857,796
Westphalia, Vlg of	1907	4,944	19,116	24,060
Wexford Co	8302	516,624	1,021,152	1,539,612
Wexford CRC	8303	128,988	(11,880)	117,108
White Cloud Cmnty Lib	6208	5,256	11,376	16,632
White Cloud, City of	6206	44,460	39,972	84,432
White Cloud/Sherman Util	6211	13,212	17,316	30,528
White Lake Chtr Twp	6325	561,996	1,009,068	1,571,064
White Pigeon, Vlg of	7804	22,980	(108)	22,872
White Pine Dist Lib	5904	804	20,148	20,952
Whitehall, City of	6105	108,900	81,588	190,488
Willard Pub Lib	1308	170,472	94,944	265,416
Williamston, City of	3310	62,292	140,256	202,548
Wixom, City of	6316	178,944	91,032	269,976
Wolverine Lake, Vlg of	6329	8,508	106,788	115,296
WUAPPDR	3108	12,396	0	12,396
Ypsilanti Cmnty Util Auth	8106	358,188	1,616,664	1,974,852
Ypsilanti HC	8115	11,124	3,156	14,280
Ypsilanti, City of	8101	181,620	(639,864)	101,076
Ypsilanti, Twp of	8104	238,776	622,032	860,808
Totals - Active Groups	731	142,038,156	460,068,468	608,952,444
Totals - Closed Groups	13	0	103,680	103,680
Totals- MERS	744	142,038,156	460,172,148	609,056,124

<sup>1</sup> Contribution requirements for Open Employers are determined at the division level. For purposes of this display individual division results are summed to the employer level. Individual divisions may have an amortization credit that is larger than the division's normal cost, which results in a total contribution requirement of zero for the division. An additional outcome is that the displayed normal cost and amortization payment may not add across.

<sup>2</sup> Closed Employers follow a separate funding policy, determined at the employer level. Amortization Payments and Total Employer Contributions are only shown for Closed Employers with a non-zero requirement.



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix D: Plan Maturity Measures

Municipality Name	Number	Ratio of				
		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retirees and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
21st Dist Ct	8243	5.3	8.3	1.1	12.9	-0.3%
23rd Jud Dist Ct	8223	17.7	24.1	0.3	12.7	-5.6%
26th Jud Cir Ct	0403	6.3	7.8	0.5	14.3	-1.5%
34th Dist Ct	8235	6.6	11.5	1.2	13.0	-2.6%
35th Dist Ct	8234	5.4	7.5	0.9	9.1	-0.9%
41 B Dist Ct	5014	6.7	9.6	0.6	10.5	-5.2%
Addison Fire Dept	4607	N/A	N/A	0.0	11.2	-5.8%
Adrian, City of	4601	8.6	13.0	0.5	9.6	-4.7%
Aitkin Memorial Dist Lib	7407	N/A	N/A	N/A	N/A	0.0%
Albion, City of	1301	24.9	27.5	0.1	11.2	-7.5%
Alcona Co	0101	8.0	11.7	0.5	11.7	-1.6%
Alger Co	0203	8.0	11.3	0.8	13.5	-2.9%
Alger CRC	0201	4.8	6.9	0.8	11.4	-2.0%
Algonac, City of	7707	34.1	39.6	0.1	12.1	-3.6%
Allegan Co	0302	23.2	24.3	0.1	14.7	-5.8%
Allegan CRC	0301	7.1	7.9	0.8	12.8	4.3%
Allegan, City of	0309	8.4	12.1	0.8	16.4	-1.4%
Alma, City of	2901	6.3	8.0	0.9	12.5	-4.3%
Almont, Vlg of	4407	3.2	3.9	1.9	17.7	-2.0%
Alpena Co	0401	4.4	6.9	0.6	10.1	-1.8%
Alpena CRC	0402	20.9	24.9	0.2	12.6	-2.3%
Alpena HC	0406	12.1	11.7	1.0	31.6	-1.5%
Alpena Sr Citizens Ctr	0404	N/A	N/A	0.0	2.6	30.2%
Alpha, Vlg of	3614	N/A	N/A	0.0	286.5	-0.4%
Antrim Co	0502	4.4	5.5	0.9	18.0	3.0%
Antrim CRC	0501	7.9	12.7	0.6	11.0	1.4%
Arenac Co	0603	13.8	17.7	0.2	14.6	-2.0%
Arenac CRC	0604	4.0	7.9	0.6	7.1	3.8%
Armada Twp	5022	0.5	0.5	N/A	N/A	35.2%
Ash Twp	5804	3.3	5.2	2.5	16.1	2.9%
Au Gres, City of	0602	N/A	N/A	0.0	8.2	-4.4%
Auburn, City of	0905	N/A	N/A	0.0	8.0	-0.9%
Bad Axe Area Dist Lib	3214	4.9	5.4	1.0	22.3	-2.0%
Bad Axe, City of	3211	9.3	10.0	0.8	16.7	54.3%
Bancroft, Vlg of	7610	N/A	N/A	0.0	3.7	-5.3%
Bangor, City of	8003	4.7	3.6	0.7	17.8	-6.0%
Baraga Co	0702	5.1	7.0	0.7	12.6	-3.0%
Baraga Co Memorial Hosp	0703	12.9	16.3	0.2	12.3	-4.6%
Baraga CRC	0701	5.5	7.8	0.7	11.0	0.2%
Baraga, Vlg of	0704	3.8	8.5	0.9	7.3	3.6%
Baroda Lake Twp Police Dept	1109	1.7	2.4	6.0	58.1	9.0%
Barry Co	0802	4.1	5.0	1.4	19.2	0.1%
Barry Co CMH Auth	0804	3.1	3.9	3.8	26.3	1.9%
Barry Eaton Dist Hlth Dept	2303	9.9	13.3	0.4	10.9	-4.0%
Barton Hills, Vlg of	8107	17.4	18.4	0.5	17.5	-2.7%
Bates Twp	3616	N/A	N/A	0.0	4.4	-5.5%
Bath Chtr Twp	1909	4.7	6.2	2.3	22.9	2.7%
Battle Creek, City of	1302	5.2	8.9	0.7	8.8	-4.1%
Bay Area Trans Auth	2810	2.7	2.6	1.3	23.2	3.2%
Bay City HC	0906	62.6	62.9	0.1	13.8	-6.7%
Bay City, City of	0901	62.1	64.7	0.1	11.5	-2.4%
Bay Metro Trans Auth	0907	4.6	6.3	0.9	14.8	1.7%
Beecher Metro Dist Swg&Wtr	2501	24.1	30.3	0.3	14.3	-0.2%
Belding, City of	3410	5.1	10.1	0.7	7.5	-3.9%
Belleville, City of	8213	7.9	13.2	0.7	11.1	-2.3%
Benton Harbor, City of	1120	7.0	18.4	0.5	5.0	-6.7%
Benzie Co	1003	4.9	7.0	0.7	13.4	0.3%
Benzie Co Comm on Aging CLD	1006	N/A	N/A	0.0	10.5	14.5%
Benzie Co MCF (The Maples)	1004	2.6	2.8	1.4	15.5	-1.0%
Benzie CRC	1001	4.4	6.5	0.6	8.1	15.7%
Benzie Shores Dist Lib	1005	N/A	N/A	0.0	10.9	-9.1%
Benzie Trans Auth	1007	4.5	3.6	1.0	54.3	1.4%
Benzie/Leelanau Dist Hlth Dept	4504	8.2	10.3	1.0	20.1	2.0%
Berkley, City of	6304	5.5	9.7	0.6	8.0	-1.6%
Berrien Springs, Vlg of	1102	3.7	4.0	0.9	16.1	-2.0%
Bessemer, City of	2702	4.1	5.6	0.9	14.5	-2.5%
Beverly Hills, Vlg of	6321	27.0	32.5	0.2	11.6	-5.6%
Big Rapids HC	5406	28.0	31.6	0.1	25.0	4.1%
Big Rapids, City of	5402	22.7	31.8	0.2	9.6	-3.2%



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix D: Plan Maturity Measures

Municipality Name	Number	Ratio of				
		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retirees and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
Bingham Farms, Vlg of	6332	3.0	3.6	1.0	9.7	-7.7%
Birch Run, Vlg of	7315	3.6	3.7	3.5	34.7	3.4%
Bishop Intl Arprt Auth	2507	15.7	18.8	0.4	20.2	-0.5%
Blackman Chtr Twp	3806	4.1	5.7	2.6	20.0	8.1%
Blissfield, Vlg of	4606	3.5	4.1	1.9	16.0	-3.0%
Bloomfield Hills, City of	6302	22.5	28.5	0.3	13.5	-4.5%
Blue Water Area Trans Comm	7709	4.5	5.6	1.8	20.8	3.7%
Boyer City HC	1508	6.6	7.8	0.7	13.5	0.0%
Boyer City, City of	1506	20.1	22.2	0.2	13.1	-2.5%
Branch Co	1205	6.6	6.4	1.2	24.6	-0.7%
Branch-Hillsdale-St Joseph Comm Hlth Agcy	1202	13.1	14.1	0.4	17.1	1.8%
Brandon Chtr Twp of	6333	4.2	5.5	1.3	15.4	-1.9%
Breckenridge,Vlg of	2906	3.0	7.3	0.8	5.6	-1.5%
Bridgeport Chtr Twp	7307	3.8	5.5	0.8	11.5	-1.2%
Bridgman, City of	1110	2.2	2.9	1.5	15.6	-0.9%
Brighton Area Fire Auth	4715	N/A	N/A	0.0	11.8	2.9%
Brighton, Chtr Twp of	4711	5.0	4.3	1.1	28.6	7.6%
Brighton, City of	4704	6.3	9.0	0.8	13.6	5.4%
Britton, Vlg of	4604	8.3	4.0	N/A	N/A	1.4%
Bronson, City of	1204	3.7	4.6	1.7	17.8	0.0%
Brooklyn, Vlg of	3801	2.4	3.2	2.5	11.6	0.5%
Brownstown, Chtr Twp of	8247	7.1	9.6	2.6	26.5	1.1%
Buchanan Dist Lib	1108	4.9	4.5	0.8	15.5	-4.8%
Buchanan, City of	1101	5.8	5.4	0.7	17.5	-3.5%
Buena Vista Chtr Twp	7312	8.1	11.2	0.7	11.2	-4.1%
Burton, City of	2508	7.2	13.4	0.8	8.4	-0.4%
Butman Twp CLD	2604	N/A	N/A	0.0	15.5	-6.9%
Cadillac, City of	8301	5.1	6.8	0.7	13.1	-4.1%
Cadillac/Wexford Trans Auth	8305	4.1	5.1	0.8	14.9	2.2%
Calhoun Co	1311	5.4	5.5	1.2	19.5	19.5%
Calhoun Co Conso Disp Auth	1316	20.3	22.8	0.5	16.8	-3.9%
Canton Pub Lib	8232	7.9	7.4	0.8	14.4	5.5%
Canton, Chtr Twp of	8233	3.9	5.5	1.9	14.0	-0.9%
Capac, Vlg of	7705	13.3	42.1	0.1	3.9	-6.0%
Capital Area Dist Lib	3317	3.9	4.5	1.9	27.4	1.8%
Capital Region Arprt Auth	3305	8.7	9.5	0.8	16.1	-2.4%
Carleton, Vlg of	5805	5.0	6.5	1.2	14.4	-3.0%
Carrllton Twp	7320	5.3	6.3	2.0	21.7	-0.1%
Cascade Chtr Twp	4110	8.4	11.3	0.6	16.6	-3.1%
Caseville, City of	3207	5.2	7.0	1.4	19.0	1.1%
Caspian, City of	3608	6.8	11.3	0.3	9.8	-0.6%
Cass Co	1402	4.0	5.2	1.2	15.7	-0.8%
Cass Co MCF	1403	1.5	1.6	1.8	13.5	-1.4%
Cass Dist Lib	1404	3.0	3.1	1.4	22.0	-2.1%
Cedar Springs, City of	4105	7.0	8.5	0.5	12.9	-5.1%
Center Line, City of	5001	8.8	18.9	0.2	5.9	-4.2%
Central Lake, Vlg of	0504	1.9	1.9	N/A	N/A	6.4%
Central Mich Dist Hlth Dept	3705	17.1	23.0	0.2	11.3	2.2%
Charlevoix Co	1503	5.0	6.7	0.9	15.8	-1.7%
Charlevoix CRC	1501	5.9	6.1	0.9	16.4	3.8%
Charlevoix, City of	1505	3.8	5.4	1.0	10.5	-2.6%
Charlotte Comm Lib	2309	4.4	6.0	0.6	10.1	4.9%
Charlotte, City of	2301	4.6	8.3	0.7	8.3	-4.8%
Cheboygan Co	1603	4.2	5.8	1.3	15.8	-1.0%
Cheboygan CRC	1601	13.3	25.0	0.3	8.7	0.7%
Cheboygan, City of	1602	4.9	8.2	0.8	9.1	-5.2%
Chelsea Area Fire Auth	8118	2.0	2.3	11.0	98.7	8.4%
Chelsea, City of	8103	60.4	65.0	0.1	11.9	-4.2%
Chesaning, Vlg of	7313	2.0	5.9	0.9	5.1	5.7%
Chesterfield Twp	5009	4.1	5.6	1.6	18.1	-0.5%
Chesterfield Twp Lib	5010	4.9	4.8	2.3	27.2	-1.6%
Chikaming Twp	1112	2.8	3.7	2.1	13.8	-0.7%
Chippewa Co	1703	4.9	7.3	0.8	12.0	-2.2%
Chippewa Co - Emplmt & Trng CLD	1710	N/A	N/A	0.0	14.2	-7.5%
Chippewa CRC	1704	3.2	6.1	0.8	8.5	-1.6%
Chippewa River Dist Lib	3707	5.3	5.7	1.6	23.9	4.6%
Chocolay, Chtr Twp of	5218	2.9	2.9	1.6	18.3	-1.5%
Clare Co	1802	4.1	5.6	1.3	15.9	-1.1%
Clare Co Trans Auth	1806	2.0	2.3	3.0	40.2	5.1%





## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix D: Plan Maturity Measures

Municipality Name	Number	Ratio of				
		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retirees and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
Clare CRC	1801	6.8	8.5	0.7	12.3	0.0%
Clare, City of	1804	4.8	7.8	1.0	11.8	-1.1%
Clawson, City of	6305	58.4	60.8	0.1	12.4	-7.8%
Clay Twp	7706	4.3	6.5	1.1	14.6	-0.3%
Clearwater Twp	4005	N/A	N/A	0.0	10.3	-2.1%
Clinton Co	1903	15.7	14.6	0.4	20.4	-1.8%
Clinton CRC	1901	9.2	10.3	0.7	15.3	4.1%
Clinton Twp	5002	6.9	9.3	0.7	11.3	2.2%
Clinton, Vlg of	4602	7.5	7.1	0.8	18.1	-1.6%
Clinton-Eaton-Ingham CMH	3308	4.0	5.1	1.4	15.7	1.8%
Clio, City of	2523	3.8	5.1	0.6	12.5	-2.7%
CMH for Central Mich	3708	4.4	4.4	1.4	21.9	11.6%
Coldwater Brd of Pub Util	1203	12.2	17.6	0.3	10.8	0.3%
Coldwater, City of	1201	24.5	30.4	0.1	10.9	-4.0%
Coleman, City of	5603	7.8	13.1	0.6	8.8	-5.9%
Coloma Chtr Twp	1107	5.2	4.7	3.0	29.3	12.8%
Coloma, City of	1118	4.7	4.9	3.0	36.9	0.2%
Columbiaville, Vlg of	4406	2.8	3.7	1.0	22.1	1.0%
Constantine, Vlg of	7806	1.9	1.2	N/A	N/A	7.0%
Coopersville Area Dist Lib	7011	N/A	N/A	0.0	10.3	3.4%
Coopersville, City of	7005	3.3	4.5	0.9	12.3	-2.1%
Corunna City of	7604	9.0	9.3	0.7	16.9	3.8%
Corwith Twp	6904	2.4	2.4	7.0	73.2	4.0%
Covert Twp	8010	2.7	3.3	6.5	33.3	3.2%
Crawford Co	2001	18.2	18.3	0.3	15.7	-5.6%
Crawford Co Trans Auth	2004	9.7	11.6	0.8	19.9	0.9%
Crawford CRC	2002	3.9	7.8	0.9	9.2	3.1%
Croswell, City of	7401	4.9	7.8	1.0	11.4	-1.1%
Crystal Falls Cmnty Hosp CLD	3618	N/A	N/A	0.0	12.8	-7.3%
Crystal Falls, City of	3603	8.7	14.3	0.4	10.3	-2.4%
Ctrl Wayne Co Sanitation Auth	8214	N/A	N/A	0.0	6.9	-13.5%
Davison Richfield Sr CCA	2525	4.4	6.8	1.0	7.7	4.4%
Davison Twp	2519	7.7	9.4	1.7	22.5	6.2%
Davison, City of	2516	9.0	17.4	0.6	9.8	-1.6%
Dearborn, City of	8251	2.0	2.0	214.0	420.4	11.8%
Deerfield, Vlg of	4603	4.9	7.7	1.0	8.3	-6.6%
Delta Area Transit Auth	2107	1.4	2.6	N/A	N/A	19.1%
Delta Chtr Twp	2306	5.8	7.5	1.4	16.8	0.1%
Delta Co	2102	20.4	28.1	0.3	13.0	-2.6%
Delta CRC	2105	5.3	7.9	0.7	10.2	5.6%
Delta-Menominee Dist Hlth Dept	2103	7.8	9.1	0.8	20.0	-1.5%
Detour, Vlg of	1706	1.8	4.6	0.7	8.5	1.2%
Detroit HC	8241	6.5	6.4	1.3	26.4	-1.4%
DeWitt Chtr Twp	1910	6.4	8.4	1.3	18.6	17.8%
DeWitt, City of	1908	4.6	6.6	0.9	15.1	8.4%
Dexter Area Fire Dept	8219	3.2	3.9	2.7	42.5	6.3%
Dexter Twp	8111	44.9	40.5	0.1	12.5	-5.9%
Dexter, City of	8217	8.9	9.5	0.6	25.5	0.2%
Dickinson Co	2206	9.2	15.0	0.6	11.9	-1.5%
Dickinson CRC	2203	8.8	15.7	0.3	8.1	-0.3%
Dickinson-Iron Dist Hlth Dept	3605	9.0	12.3	0.3	12.2	0.7%
Dimondale, Vlg of	2304	19.8	26.4	0.2	9.9	-5.8%
Dist Hlth Dept # 2	6501	21.7	24.9	0.2	11.3	-7.1%
Dist Hlth Dept # 4	7103	7.9	13.6	0.6	9.2	-3.9%
Dist Hlth Dept #10	5104	2.5	3.9	1.4	9.0	-1.0%
Douglas, City of Vlg of	0303	4.9	5.1	0.9	26.3	-1.0%
Dowagiac Dist Lib	1406	1.9	2.1	1.0	20.2	3.6%
Dowagiac HC	1405	1.5	1.6	1.7	15.2	-1.3%
Dowagiac, City of	1401	6.1	12.0	0.5	7.9	-4.7%
Drummond Island Twp	1708	4.2	4.5	2.0	135.9	3.6%
Dryden, Vlg of	4405	6.9	8.8	0.5	24.2	2.5%
Dundee, Vlg of	5803	8.3	7.5	0.8	15.3	17.5%
Durand, City of	7603	4.7	7.2	1.0	11.5	-1.5%
E UP Reg Planning & Dev Comm	1709	2.8	2.0	N/A	N/A	6.6%
E UP Trans Auth	1705	5.4	11.8	0.7	8.5	-1.9%
East China Chtr Twp	7701	7.4	11.9	0.7	9.3	-3.5%
East Jordan, City of	1504	4.8	6.9	0.8	13.0	-1.7%
East Lansing, City of	3301	7.9	13.0	0.7	9.4	1.0%
Eastpointe HC	5011	6.6	7.8	0.8	32.4	0.5%



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Eastpointe, City of	5019	6.8	12.8	0.4	7.4	-4.4%
Eaton Co	2302	6.4	10.2	1.0	11.0	-3.1%
Eaton Co Hlth & Rehab Svcs	2305	1.8	1.9	3.2	25.7	0.9%
Eaton Rapids, City of	2307	6.7	11.0	0.6	9.7	-3.9%
Eau Claire, Vlg of	1104	4.3	10.7	0.5	5.5	-2.9%
Ecorse, City of	8206	12.5	23.0	0.2	6.3	1.8%
Elk Rapids, Vlg of	0506	2.4	3.1	3.4	15.6	1.7%
Elkton, Vlg of	3206	15.1	13.9	0.2	13.3	-6.0%
Elsie, Vlg of CLD	1906	N/A	N/A	0.0	18.5	-5.8%
Emmet CRC	2401	25.1	32.2	0.2	12.5	1.8%
Emmett, Chtr Twp	1310	5.1	6.6	1.1	24.5	0.7%
Erie, Twp of	5812	2.4	2.6	N/A	N/A	6.7%
Escanaba, City of	2101	31.4	45.9	0.1	9.8	-3.2%
Essexville, City of	0903	10.6	14.5	0.4	10.5	-4.1%
Evart, City of	6705	4.2	6.2	0.7	11.3	-3.6%
Farmington Cmnty Lib	6319	41.8	47.8	0.1	12.0	-7.2%
Farmington, City of	6343	7.9	10.4	0.7	13.3	-3.4%
Farwell, Vlg of	1805	2.7	3.7	1.3	10.6	-3.0%
Fenton, City of	2505	5.1	6.8	1.0	14.9	2.7%
Ferndale HC	6345	3.3	4.4	6.0	48.3	4.9%
Ferrysburg, City of	7106	8.5	11.0	0.3	14.5	0.0%
Flat Rock, City of	8212	4.2	9.2	0.8	6.6	-4.3%
Flint Pub Lib	2518	2.7	2.7	5.0	79.2	1.0%
Flint, Chtr Twp of	2512	6.6	10.6	1.1	11.6	-1.6%
Flint, City of	2530	6.4	22.9	0.3	3.2	-10.3%
Flushing, Chtr Twp of	2515	9.4	15.7	0.6	10.7	-2.2%
Flushing, City of	2502	13.2	23.6	0.3	10.4	-2.3%
Forsyth Twp	5212	5.5	8.1	1.1	11.9	5.2%
Fowler, Vlg of	1904	3.1	4.0	3.0	58.6	6.1%
Fowlerville Dist Lib	4710	4.5	5.5	1.5	11.1	-6.1%
Fowlerville, Vlg of	4705	58.1	63.7	0.1	15.8	-5.1%
Frankenmuth Wickson Dist Lib	7323	N/A	N/A	0.0	11.2	-4.2%
Frankenmuth, City of	7306	6.1	9.1	1.0	12.5	-3.6%
Frankfort, City of	1002	3.2	5.9	0.8	10.5	-1.0%
Franklin, Vlg of	6323	7.4	13.4	0.6	10.0	-2.7%
Fraser, City of	5003	9.7	16.8	0.4	9.2	-2.9%
Fremont Area Dist Lib	6209	4.2	6.5	1.0	16.5	0.1%
Fremont, City of	6203	5.8	8.8	0.9	13.4	1.1%
Gaastra, City of	3617	5.0	8.9	0.5	11.4	-3.7%
Garden City, City of	8255	9.9	17.1	0.6	9.5	-4.6%
Gaylord, City of	6903	5.7	8.6	1.0	11.8	1.6%
Genesee Chtr Twp	2510	6.0	11.8	0.7	9.2	-0.1%
Genoa Twp	4713	2.5	3.0	N/A	N/A	5.6%
Gerald R Ford Intl Arprt Auth	4116	5.8	4.8	2.8	31.5	-1.9%
Gladstone, City of	2106	18.9	29.3	0.2	9.3	2.4%
Gladwin City HC	2608	4.4	5.8	1.1	10.1	-2.6%
Gladwin Co	2602	4.8	7.3	0.9	13.9	-1.2%
Gladwin Co Dist Lib	2607	5.5	7.2	1.2	16.9	-1.3%
Gladwin CRC	2601	10.1	13.3	0.6	11.3	0.3%
Gladwin, City of	2605	4.6	5.6	2.3	21.9	1.2%
Gogebic-Iron WWTR Auth	2703	7.6	11.4	1.0	15.2	-1.8%
Grand Beach, Vlg of	1117	2.1	2.0	6.0	85.7	5.9%
Grand Blanc Chtr Twp	2511	6.8	9.7	1.6	22.3	3.2%
Grand Blanc, City of	2513	10.8	11.8	0.8	14.9	-5.0%
Grand Haven BLP	7026	20.4	21.5	0.3	19.5	N/A
Grand Haven, City of	7010	9.3	13.3	0.6	11.4	-42.9%
Grand Ledge Area Dist. Lib	2316	0.8	0.8	N/A	N/A	15.0%
Grand Ledge Area ESA	2310	2.8	3.5	3.0	49.5	3.7%
Grand Ledge, City of	2312	4.2	6.0	1.5	10.3	-0.8%
Grand Rapids HC	4108	N/A	N/A	0.0	10.3	-4.3%
Grand Traverse Co	2803	44.0	42.2	0.1	15.0	71.8%
Grand Traverse CRC	2802	N/A	N/A	0.0	9.4	-9.6%
Grand Traverse Pavilions	2809	4.1	4.6	0.9	20.3	12.9%
Grandville, City of	4102	25.9	41.1	0.1	7.7	-3.1%
Gratiot Co	2905	25.8	27.2	0.2	17.2	-5.4%
Gratiot CRC	2903	8.5	11.0	0.7	14.3	1.1%
Grayling, City of	2003	15.5	22.0	0.1	8.8	-1.0%
Green Oak Chtr Twp	4708	3.5	4.9	2.1	18.3	1.8%
Greenville, City of	5906	5.2	7.1	1.2	13.2	-2.2%



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### Appendix D: Plan Maturity Measures

Municipality Name	Number	Ratio of				
		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retirees and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
Grosse Ile Twp	8207	9.3	14.8	0.7	13.1	-1.9%
Grosse Pointe Park, City of	8201	6.2	11.0	0.7	8.8	-3.4%
Grosse Pointe-Clinton Ref CLD	5004	N/A	N/A	0.0	13.3	-7.9%
Groveland Twp	6335	6.2	4.4	1.3	25.6	5.9%
Hackley Pub Lib	6114	1.0	1.1	12.0	58.5	8.7%
Hamburg Twp	4709	4.5	5.5	2.3	28.5	7.4%
Hamtramck HC	8250	4.4	5.4	2.0	49.4	3.6%
Hamtramck, City of	8205	10.3	23.0	0.4	6.0	-5.0%
Hancock, City of	3107	4.6	7.3	1.4	12.4	-0.5%
Harbor Beach, City of	3201	7.5	9.6	0.9	16.7	-1.3%
Harbor Springs Area Swg Auth	2406	3.2	3.9	1.2	16.7	-1.4%
Harbor Springs, City of	2405	3.2	4.8	1.7	13.6	0.7%
Harper Woods, City of	8260	7.2	16.2	0.5	6.1	-3.1%
Harrison Dist Lib	1807	N/A	N/A	0.0	6.8	-9.3%
Harrison, City of	1803	6.9	11.3	0.7	9.8	-4.3%
Hartland Deerfield Fire Auth	4716	6.5	6.2	N/A	N/A	3.7%
Hastings, City of	0801	3.7	8.0	0.6	6.4	-6.5%
Hazel Park, City of	6336	5.5	12.6	0.6	6.1	-5.7%
Helen Newberry Joy Hosp	4805	42.2	57.9	0.1	8.8	-4.1%
Henika Dist Lib	0310	4.7	4.9	1.5	13.7	-4.2%
Herrick Dist Lib	7012	8.9	10.8	0.3	12.3	-3.8%
Hesperia, Vlg of	6214	0.7	0.7	N/A	N/A	17.1%
Hiawatha Bhvrl Hlth	1707	43.2	53.0	0.1	12.9	-4.1%
Hillsdale Co	3005	4.6	7.1	1.1	11.6	-2.6%
Hillsdale CRC	3004	4.4	6.0	1.0	13.8	0.6%
Hillsdale HC	3007	2.0	2.3	1.0	14.4	-1.9%
Hillsdale, City of	3001	7.6	9.4	0.6	13.3	-4.0%
Hlth Source of Saginaw	7311	10.8	12.5	0.2	13.8	-4.1%
Holland Area Cmnty Pool Auth	7014	5.4	5.3	0.4	26.2	2.8%
Holland Cmnty Hosp CLD	7006	N/A	N/A	0.0	11.5	-9.1%
Holland, City of	7001	14.5	15.5	0.3	15.2	-4.8%
Holly, Vlg of	6317	7.6	15.2	0.4	8.7	-1.5%
Homer, Vlg of	1304	4.6	5.3	0.8	16.3	-2.6%
Houghton Co	3102	8.4	12.3	0.5	10.6	-4.3%
Houghton CRC	3103	8.9	11.6	0.8	13.7	0.9%
Houghton Lake Pub Lib	7203	3.6	4.0	2.3	17.7	-4.0%
Houghton, City of	3109	4.0	4.7	3.9	36.7	3.0%
Howard City, Vlg of	5902	N/A	N/A	0.0	18.0	-2.0%
Howard Twp	1106	3.2	3.9	2.0	37.9	2.1%
Howell Area Fire Auth	4714	4.1	4.4	2.7	20.0	13.0%
Howell, City of	4702	6.1	9.3	0.7	11.2	-1.3%
Howell-Carnegie Dist Lib	4707	4.4	4.2	1.8	28.5	28.6%
Hudsonville, City of	7004	N/A	N/A	0.0	11.7	-1.9%
Huntington Woods, City of	6303	12.9	18.3	0.3	10.2	-1.1%
Hurley Med Ctr	2521	4.3	6.0	0.9	10.5	-4.5%
Huron Bhvrl Hlth	3215	8.0	9.5	0.8	20.2	-1.5%
Huron Chtr Twp	8224	6.1	8.6	1.6	16.1	1.9%
Huron Co	3204	6.4	9.2	0.9	13.5	-2.1%
Huron CRC	3202	13.9	14.9	0.6	16.6	2.7%
Imlay City, City of	4404	5.6	7.8	0.6	11.6	2.9%
Independence Twp	6328	5.0	6.6	2.1	18.2	8.9%
Indianfields Twp CLD	7905	N/A	N/A	0.0	20.6	-5.3%
Ingham Co	3303	5.2	8.1	0.8	11.1	-2.2%
Interurban Trans Auth	0308	4.7	6.6	1.5	12.8	-4.7%
Ionia Cmnty Lib	3412	2.5	4.0	1.3	11.6	-2.3%
Ionia Co	3408	5.6	8.7	1.0	12.9	1.4%
Ionia HC	3406	9.1	11.0	1.0	11.9	-3.4%
Ionia, City of	3403	6.0	9.2	0.7	13.3	7.3%
Iosco Co	3501	8.3	11.0	0.4	13.0	-2.3%
Iosco CRC	3502	17.5	20.6	0.3	12.9	0.6%
Iron Co	3606	6.7	7.2	0.8	18.0	-1.7%
Iron Co HC	3611	7.8	11.2	0.8	20.4	-2.4%
Iron CRC	3602	6.8	11.6	0.5	8.9	4.3%
Iron Mountain, City of	2201	4.8	12.6	0.4	5.1	0.9%
Iron Mountain-Kingsford Swg	2205	5.0	6.4	5.0	53.9	2.8%
Iron River, City of	3601	11.3	20.8	0.3	8.3	-5.9%
Ironwood, City of	2706	5.8	10.2	0.5	9.3	-0.4%
Isabella Co	3703	14.2	18.8	0.3	13.8	-4.6%
Isabella Co Trans Comm	3709	4.7	4.7	2.2	21.8	5.3%



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix D: Plan Maturity Measures

Municipality Name	Number	Ratio of				
		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retirees and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
Isabella CRC	3702	7.8	10.1	0.7	15.3	-3.3%
Ishpeming Area Joint Wwtr Trtm	5207	7.2	6.8	0.9	15.5	-3.2%
Ishpeming Twp	5216	6.0	6.0	1.2	18.8	2.4%
Ishpeming, City of	5204	16.7	17.1	0.5	16.1	94.4%
Ithaca, City of	2904	28.2	41.1	0.1	8.5	0.0%
Jackson Dist Lib	3802	3.8	4.2	1.1	17.6	-2.6%
Jackson Trans Auth	3805	4.1	5.5	1.2	13.8	-3.6%
Jordan Valley Dist Lib	1507	4.9	5.4	1.0	57.7	-0.3%
Jordan Valley EMS Auth	1509	2.1	3.0	1.3	14.4	3.3%
Kalamazoo Lake Swr & Wtr Auth	0306	1.9	2.6	1.8	12.9	-2.0%
Kalamazoo Pub Lib	3903	2.8	3.1	4.1	40.1	2.5%
Kalamazoo, Chtr Twp of	3907	6.8	8.7	1.6	17.3	-1.7%
Kalkaska Co	4003	5.2	7.6	0.9	11.6	-3.7%
Kalkaska CRC	4002	14.2	34.9	0.1	5.8	-2.0%
Kalkaska Pub Trans Auth	4004	8.4	10.0	0.5	16.0	-2.1%
Kalkaska, Vlg of	4001	3.4	7.6	0.9	7.0	-2.0%
Keego Harbor, City of	6322	9.2	20.0	0.2	7.4	0.1%
Kent CRC	4111	N/A	N/A	0.0	4.9	-19.0%
Keweenaw Co	4202	4.6	6.0	1.1	14.6	-1.8%
Keweenaw CRC	4201	5.2	9.5	0.6	8.4	-0.4%
Kinde, Vlg of	3209	8.3	6.9	1.0	18.7	-2.6%
Kingsford, City of	2202	6.8	10.7	0.8	11.1	-3.5%
L.M.A.S. Dist Hlth Dept	4803	5.7	8.3	0.2	11.9	-5.4%
Lac Vieux Desert Band	8402	2.5	2.5	2.5	39.1	0.8%
Laingsburg, City of	7608	3.4	4.0	2.5	31.1	1.3%
Lake Co	4301	8.0	9.8	0.5	16.5	-1.2%
Lake CRC	4302	4.5	8.0	0.7	8.0	-1.5%
Lake Linden, Vlg of	3105	3.4	6.5	0.6	8.1	-1.4%
Lake Odessa, Vlg of	3402	7.5	8.1	1.0	16.3	-3.2%
Lake Orion, Vlg of	6318	16.5	24.0	0.2	8.8	-4.9%
Lakeland Lib Coop	4106	4.3	4.0	1.8	37.9	0.0%
Lakeshore Coordinating Council CLD	7007	N/A	N/A	0.0	11.4	-9.1%
Lakeview Cemetery	2407	2.6	2.6	N/A	N/A	5.7%
L'Anse, Vlg of	0705	4.4	8.7	0.7	7.7	-3.0%
Lansing Chtr Twp	3320	3.9	4.6	2.6	21.4	-0.8%
Lansing HC	3311	11.2	11.4	0.4	13.1	7.6%
Lapeer Co	4403	4.6	5.3	1.4	18.6	-2.3%
Lapeer CRC	4402	9.1	10.2	0.6	14.3	4.3%
Lapeer Dist Lib	4410	5.4	8.1	0.9	10.2	-1.4%
Lapeer, City of	4401	6.2	7.9	0.9	15.7	1.1%
Lathrup Vlg, City of	6311	18.8	23.2	0.2	11.8	-4.9%
Laurium, Vlg of	3104	4.5	6.9	0.7	13.7	-0.6%
Lawrence, Vlg of	8004	N/A	N/A	0.0	9.2	-6.6%
Leelanau Co	4501	5.3	6.0	1.1	17.8	-0.8%
Leelanau CRC	4503	22.4	21.9	0.2	14.6	-4.1%
Leoni Twp	3804	27.5	34.1	0.2	12.1	-1.8%
Leslie Twp	3319	7.6	7.7	0.7	106.3	3.4%
Leslie, City of	3313	2.5	3.8	1.4	12.1	-2.2%
Lexington, Vlg of	7708	10.1	17.0	0.4	12.0	-2.0%
Lima Twp	8112	5.1	4.9	0.8	15.4	-3.9%
Lincoln Park, City of	8244	3.4	13.5	0.5	2.9	0.6%
Litchfield, City of	3006	4.5	6.1	1.3	15.8	0.8%
Livingston Co	4703	5.0	6.1	1.2	18.7	3.9%
Livingston Co CMH Auth	4712	6.6	8.0	0.8	19.4	-2.2%
Livingston CRC	4701	5.5	6.7	1.0	14.1	-1.3%
Looking Glass Rgnl Fire CLD	2311	N/A	N/A	0.0	22.2	-4.9%
Loutit Dist Lib	7013	4.4	6.0	1.1	15.3	-2.3%
Lowell, City of	4104	6.2	9.2	0.6	12.1	-1.5%
Luce Co	4804	6.5	11.5	0.5	11.0	-1.7%
Luce Co Amb Svs	4806	8.3	8.8	2.0	149.5	6.8%
Luce CRC	4801	5.7	12.6	0.5	6.2	-0.6%
Ludington, City of	5302	6.8	9.9	0.8	11.7	-2.6%
Luna Pier, City of	5802	24.0	54.2	0.2	6.1	-5.3%
Lyons, Vlg of	3411	N/A	N/A	0.0	9.1	-9.5%
Mackinac Co	4901	24.4	32.1	0.2	13.0	-1.4%
Mackinac Co HC	4905	15.9	20.4	0.5	12.3	-6.8%
Mackinac CRC	4903	19.3	26.7	0.2	11.0	7.2%
Mackinac Straits Hlth Sys	4902	2.3	2.9	2.1	19.6	1.1%
Mackinaw City, Vlg of	1606	3.9	4.8	7.0	62.6	4.7%



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Municipality Name	Number	Ratio of				
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Madison Heights, City of	6308	26.1	26.4	0.2	14.3	-6.6%
Madison, Chtr Twp of	4605	1.6	2.2	3.2	24.4	4.9%
Manistee Co	5101	5.6	7.8	0.7	12.1	-4.0%
Manistee Co Trans Auth	5109	0.7	0.7	N/A	N/A	N/A
Manistee CRC	5103	7.1	9.6	0.7	11.1	-3.3%
Manistee HC	5107	2.7	2.8	1.8	26.6	0.8%
Manistee, City of	5105	6.4	8.4	0.8	12.3	-4.6%
Manistique HC	7508	N/A	N/A	0.0	N/A	N/A
Manistique, City of	7504	5.8	12.2	0.7	9.0	-1.3%
Manlius Twp	0311	7.9	11.0	1.0	12.1	-4.9%
Manton, City of	8304	2.2	6.8	0.5	3.7	-8.0%
Marenisco Twp	2704	4.9	7.2	0.7	10.3	-4.4%
Marion, Vlg of	6704	3.8	4.8	0.7	10.4	-7.0%
Marlette, City of	7405	3.6	5.5	2.0	13.7	-1.7%
Marquette Brd of Light & Power	5209	18.3	21.8	0.2	11.9	-3.5%
Marquette Chtr Twp	5215	3.2	3.8	2.5	18.0	-0.8%
Marquette Co	5202	8.1	11.2	0.7	12.1	-2.0%
Marquette Co Solid Waste Mgmt	5213	3.3	3.5	2.4	26.5	0.0%
Marquette Co Trans Auth	5206	3.6	3.7	1.1	15.4	8.1%
Marquette CRC	5211	6.5	11.0	0.6	10.3	3.3%
Marquette, City of	5201	9.2	13.9	0.7	12.0	-0.9%
Marshall Area Firefighters Amb	1313	3.4	3.7	3.5	30.2	0.8%
Marshall Dist Lib	1309	N/A	N/A	0.0	1.4	-38.0%
Marshall, City of	1306	9.1	14.5	0.4	9.4	-4.1%
Mason Co	5301	10.3	13.4	0.5	14.1	-0.1%
Mason Co Dist Lib	5303	6.0	7.7	1.1	14.9	0.9%
Mason CRC	5305	3.8	5.2	1.0	12.7	3.2%
Mason, City of	3304	7.7	10.1	1.1	15.0	1.2%
Mason-Oceana 911	6403	4.5	5.0	1.9	32.9	4.5%
MBS Intl Arprt	0902	6.4	10.9	1.0	10.3	-2.6%
Meceola Central Disp	5405	4.9	5.9	1.3	22.9	2.7%
Mecosta Co	5403	31.3	29.0	0.2	19.1	-1.3%
Mecosta Co General Hosp CLD	5404	N/A	N/A	0.0	13.9	-7.6%
Mecosta CRC	5401	8.7	9.4	0.4	12.5	-5.5%
Melvindale HC	8220	8.0	8.2	0.7	13.8	-3.5%
Melvindale, City of	8215	26.4	73.9	0.1	4.8	1.8%
Menominee Co	5502	10.4	14.7	0.4	13.5	-2.0%
Menominee CRC	5503	25.5	32.4	0.2	11.9	0.7%
Menominee, City of	5501	8.2	11.3	0.4	10.9	-5.4%
Meridian Chtr Twp	3315	9.6	13.2	1.0	14.7	2.2%
MERS	2308	4.6	4.2	2.4	46.7	6.6%
Metamora Twp	4409	4.3	5.0	1.0	22.2	-1.2%
Metro Police Auth of Genesee Co	2532	5.4	5.9	1.6	20.5	-1.8%
Mich Muni Risk Mgmt Auth	8237	7.3	5.0	N/A	N/A	2.0%
Mich S Central Power Agcy	3002	N/A	N/A	0.0	16.6	-4.9%
Middleville, Vlg of	0803	4.5	5.6	0.8	12.5	4.8%
Midland Co Central Disp Auth	5604	5.0	6.4	1.8	27.7	1.9%
Midland CRC	5602	8.2	9.2	0.7	12.7	2.4%
Midland, City of	5601	9.4	15.5	0.5	8.4	-5.2%
Mid-Mich Dist Hlth Dept	5901	3.3	4.1	1.2	19.2	-0.7%
Mid-Mich Lib League	8306	10.0	11.7	0.3	12.0	-6.1%
Milan Lib	5806	3.7	4.5	1.0	12.2	4.3%
Milan, City of	5801	18.6	31.6	0.1	7.9	-0.8%
Milford, Vlg of	6313	8.2	10.2	0.8	17.9	-0.6%
Millington, Vlg of	7904	5.9	6.2	0.9	13.2	-6.3%
Missaukee Co	5702	4.6	5.8	1.5	14.8	-1.1%
MOA Solid Waste Mgmt Auth	6002	4.6	5.6	3.0	24.8	0.3%
Monroe HC	5808	3.2	6.3	1.4	9.0	-0.8%
Montague, City of	6112	7.4	7.6	0.8	16.1	5.8%
Montcalm Care Network	5909	N/A	N/A	2.0	39.2	-2.8%
Montcalm Co	5907	8.3	10.2	0.6	13.8	-4.0%
Montcalm CRC	5905	5.0	8.2	1.0	11.3	0.9%
Montmorency Co	6001	5.6	8.7	0.5	11.2	-1.9%
Montrose, City of	2509	4.1	4.6	0.6	14.5	0.1%
Mt. Morris Chtr Twp	2503	9.8	18.6	0.7	9.3	-3.2%
Mt. Pleasant, City of	3701	6.0	8.6	0.8	11.8	-2.7%
Muir, Vlg of	3405	N/A	N/A	0.0	15.7	-2.6%
Mundy, Chtr Twp of	2517	5.4	6.1	1.6	21.5	-1.6%
Munising, City of	0202	7.6	12.2	0.6	12.8	-1.9%



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Muskegon Area Dist Lib	6117	2.8	2.7	2.9	27.2	6.1%
Muskegon Chtr Twp	6108	20.7	21.5	0.4	19.1	40.9%
Muskegon Co	6103	12.8	15.6	0.3	11.9	-6.7%
Muskegon CRC	6101	7.5	7.6	0.7	14.7	1.4%
Muskegon Ctrl Dispatch 911	6109	3.2	4.3	1.9	13.9	-1.9%
Muskegon HC	6113	3.9	5.1	1.3	16.1	-2.3%
Muskegon Heights HC	6115	4.6	8.9	0.7	8.4	-7.6%
Muskegon Heights, City of	6102	8.9	15.5	0.5	8.9	-5.3%
Muskegon, City of	6116	21.7	29.1	0.2	10.8	-6.0%
N Houghton Co Wtr&Swg Auth	3106	3.2	3.9	4.0	29.3	0.8%
N Muskegon, City of	6104	20.1	27.0	0.2	13.5	-4.4%
Nashville, Vlg of	0807	2.5	2.6	3.0	40.4	1.8%
Negaunee Twp	5217	3.9	3.6	1.0	18.2	-1.9%
Negaunee, City of	5203	6.6	12.1	0.6	8.4	-3.2%
Network180	4109	15.1	17.0	0.4	17.9	-3.8%
New Baltimore, City of	5016	5.1	6.2	1.2	16.5	-2.3%
New Buffalo Twp	1121	1.4	1.4	11.0	135.3	5.7%
New Buffalo, City of	1113	2.4	2.4	3.6	26.3	1.3%
Newaygo CMH	6207	N/A	N/A	0.0	12.0	-8.7%
Newaygo Co	6201	47.1	53.6	0.1	11.0	-4.2%
Newaygo CRC	6212	5.3	6.1	0.9	14.3	-2.4%
Newaygo MCF	6204	10.9	11.2	0.3	16.0	-5.1%
Newaygo Soil & Wtr Cnsvn Dist	6205	1.3	1.3	1.3	15.8	-1.8%
Newberry, Vlg of	4802	4.1	6.7	0.5	7.6	-6.1%
Niles Dist Lib	1105	3.4	4.3	1.1	13.7	-2.5%
Niles, City of	1115	6.0	7.7	0.8	12.2	-4.5%
Northern Lakes CMH Auth	2808	60.2	65.5	0.1	10.0	-4.8%
Northfield Twp	8117	4.4	5.0	12.0	495.8	3.7%
Northpointe Bhvrl Hlth Sys	2207	7.3	8.4	0.5	15.0	-1.7%
Northville Chtr Twp	8230	6.7	7.0	2.0	25.7	1.4%
Northville Dist Lib	8229	4.6	4.4	1.1	18.2	8.7%
Northville, City of	8208	77.1	89.1	0.0	10.3	2.7%
Norton Shores, City of	6106	6.3	11.6	0.5	9.1	-1.7%
Norway, City of	2204	12.1	27.2	0.3	7.8	-2.5%
Nottawaseppi Huron Band	8403	1.2	1.3	10.5	151.0	16.4%
Novi, City of	6320	7.8	11.5	0.6	12.2	-1.1%
NW Mich Cmnty Hlth Agcy	1502	35.8	41.4	0.0	10.8	-7.2%
NW Rgnl Arprt Auth	2805	13.6	13.0	0.3	19.9	19.7%
Oceana Co	6402	7.1	9.0	0.5	15.1	-1.6%
Oceola Twp	4717	4.6	4.4	1.6	26.3	-0.4%
Ogemaw Co	6502	22.9	29.8	0.2	13.0	-1.4%
Ogemaw Co Emerg Disp Auth	6510	5.9	9.4	2.0	32.3	5.0%
Ogemaw Co EMS Auth	6508	2.9	3.6	2.3	26.4	3.5%
Ogemaw CRC	6503	7.2	10.4	0.8	10.5	0.8%
Olive Twp	7009	6.5	9.7	0.5	12.1	-3.4%
Onaway, City of	7105	6.9	8.4	1.0	23.8	-1.5%
Ontonagon Co	6602	5.2	7.4	0.9	13.7	-1.9%
Ontonagon Co Economic Dev Corp	6605	N/A	N/A	0.0	6.1	2.7%
Ontonagon CRC	6604	8.1	14.7	0.6	9.3	0.8%
Ontonagon, Vlg of	6603	17.0	36.7	0.1	5.2	-9.1%
Orchard Lake, City of	6312	29.0	29.5	0.2	14.2	-1.5%
Oronoko Chtr Twp	1114	3.8	5.0	1.4	18.9	0.2%
Osceola Co	6701	4.6	5.6	1.0	19.7	-0.7%
Osceola CRC	6703	5.0	8.2	0.5	8.3	-1.7%
Oscoda Chtr Twp	3503	5.2	8.2	0.8	12.3	0.0%
Oscoda Co	6801	3.7	5.2	1.0	12.7	-1.6%
Oscoda Co Lib	6803	4.7	4.2	N/A	N/A	0.4%
Oscoda Wurtsmith Arprt Auth	6802	1.6	2.0	2.0	16.9	0.3%
Otisville, Vlg of	2506	6.4	8.1	1.0	17.6	4.4%
Otsego Co	6902	4.9	6.7	0.7	13.7	-0.6%
Otsego CRC	6901	6.5	8.3	0.7	13.6	-0.5%
Ottawa Co	7003	11.9	14.8	0.5	17.4	-2.3%
Ottawa Co Central Disp Auth	7008	N/A	N/A	0.0	12.6	-3.8%
Ottawa CRC	7002	9.3	14.8	0.4	9.4	-3.5%
Otter Lake, Vlg of	4408	N/A	N/A	0.0	7.7	-8.9%
Owosso, City of	7607	14.9	15.6	0.5	13.1	-4.2%
Oxford Fire Department	6327	3.7	4.3	1.4	22.0	8.3%
Oxford, Vlg of	6326	6.3	9.5	1.0	17.8	-0.4%
Parchment, City of	3901	10.9	15.1	0.3	10.3	-5.4%



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix D: Plan Maturity Measures

Municipality Name	Number	Ratio of				
		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retirees and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
Pathways(Spr.Bhvl.Mntl.Hlth)	5214	35.5	60.9	0.1	7.2	0.8%
Paw Paw Lk Reg Jnt Swg Disp Bd	1103	14.3	19.4	0.7	13.8	-4.6%
Paw Paw, Vlg of	8002	5.7	7.4	1.0	13.8	-2.5%
Pellston, Vlg of	2404	6.2	7.1	3.0	36.4	0.9%
Pennfield Chtr Twp	1312	6.1	8.4	0.9	22.0	0.2%
Pentwater, Vlg of	6401	4.1	5.3	0.6	11.6	-2.7%
Perrinton, Vlg of	2909	3.6	4.7	N/A	N/A	5.9%
Petersburg, City of	5807	3.5	3.8	7.0	59.0	1.9%
Petoskey, City of	2402	7.7	8.4	0.7	17.0	0.5%
Pewamo, Vlg of	3407	4.9	5.3	N/A	N/A	3.5%
Pigeon, Vlg of	3203	4.0	4.2	1.3	23.9	2.2%
Pinckney, Vlg of	4706	7.3	8.8	1.3	20.7	-1.5%
Pinconning, City of	0904	10.2	18.6	0.2	7.1	-7.1%
Pittsfield Chtr Twp	8110	4.6	6.4	1.6	23.3	2.7%
Pleasant Ridge, City of	6301	6.5	9.9	0.5	11.5	2.6%
Plymouth Dist Lib	8221	4.8	7.0	1.0	11.5	-4.5%
Plymouth, Chtr Twp of	8238	9.6	13.1	0.8	14.4	-1.3%
Plymouth, City of	8202	N/A	N/A	0.0	7.0	-1.9%
Pokagon Band of Potawatomi	8401	2.5	2.5	6.6	68.2	6.7%
Port Austin Area Swr&Wtr Auth	3210	N/A	N/A	0.0	12.7	-8.2%
Port Austin, Vlg of	3208	4.8	6.6	0.5	12.3	-2.8%
Port Huron Chtr Twp	7711	4.6	6.3	1.2	16.8	-0.4%
Port Huron HC	7712	7.9	9.8	1.0	15.4	3.1%
Port Huron, City of	7702	11.2	12.3	0.5	12.5	-6.7%
Port Sanilac, Vlg of	7403	12.7	20.7	0.4	10.8	-2.9%
Port Sheldon Twp	7018	6.0	6.1	1.8	13.5	-5.7%
Portland, City of	3401	5.5	8.5	0.6	10.8	-3.3%
Pottersville, City of	2313	2.5	3.2	1.8	14.0	-0.6%
Presque Isle Co	7104	4.4	6.4	1.0	12.6	-1.9%
Presque Isle CRC	7101	5.5	9.3	0.7	8.1	0.1%
PRIDE Youth Programs CLD	6210	N/A	N/A	0.0	6.4	-15.3%
Ravenna, Vlg of	6111	10.3	11.7	0.5	12.8	-5.6%
Reading, City of	3003	2.3	2.9	0.8	24.8	-0.1%
Redford Twp Dist Lib	8228	10.9	10.2	0.7	22.7	15.1%
Redford, Chtr Twp of	8209	6.9	12.3	0.5	8.1	-5.3%
Reed City, City of	6702	5.8	9.3	0.6	12.2	-2.8%
Richfield Twp (Genesee Co)	2514	5.2	9.2	1.4	12.8	-0.7%
Richfield Twp (Roscommon Co)	7202	7.4	11.0	0.5	13.6	-2.1%
Richland Twp	7310	7.3	14.4	1.0	7.5	-5.2%
Richmond, City of	5012	5.4	7.7	1.4	17.6	-1.4%
Rochester, City of	6307	7.4	10.7	0.6	12.4	-2.6%
Rockford, City of	4103	4.1	5.8	0.9	15.8	1.0%
Rockwood, City of	5810	4.7	4.9	1.4	28.9	-1.0%
Rogers City, City of	7102	13.5	14.2	0.6	15.6	-5.7%
Romeo Dist Lib	5006	35.3	31.2	0.1	18.3	4.9%
Romeo, Vlg of	5005	5.5	9.4	0.8	12.4	-2.0%
Romulus, City of	8225	5.9	12.9	0.9	7.3	-1.2%
Roosevelt Park, City of	6107	14.2	15.7	0.2	20.5	78.4%
Roscommon Co	7201	7.7	10.1	0.5	15.1	-1.2%
Roscommon Co Trans Auth	7205	8.1	8.5	0.6	13.9	-1.7%
Rose City, City of	6504	4.0	4.9	1.3	15.9	-1.8%
Rose Twp	6506	10.9	4.4	0.8	37.8	-2.9%
Royal Oak, Chtr Twp of	6306	66.2	36.9	0.2	17.8	-6.0%
Saginaw Chtr Twp	7314	8.4	8.7	1.3	18.3	-2.7%
Saginaw Co	7303	245.5	310.0	0.0	9.2	-7.6%
Saginaw Co 911 Com Ctr	7316	N/A	N/A	0.0	10.4	-0.7%
Saginaw Co CMH	7318	60.9	90.0	0.0	7.8	-1.3%
Saginaw CRC	7304	6.5	9.6	0.7	10.5	-3.9%
Saginaw HC	7321	10.5	20.1	0.4	6.8	-4.3%
Saginaw Trans Sys Auth	7319	2.6	2.8	1.5	26.2	0.1%
Saginaw, City of	7301	13.5	27.1	0.3	6.1	-5.6%
Saginaw, Pub Lib of	7317	5.7	4.0	1.7	61.2	-0.4%
Saginaw-Midland Muni Wtr Corp	7305	23.5	28.9	0.2	11.3	-1.8%
Saline, City of	8105	7.8	11.3	0.5	11.8	-4.7%
Sandusky Dist Lib	7404	N/A	N/A	0.0	10.2	-9.1%
Sandusky, City of	7402	4.1	6.4	1.1	11.9	2.4%
Sanilac HC	7410	3.4	4.1	1.9	18.5	-1.8%
Saranac HC	3413	8.0	9.1	1.0	21.7	20.7%
Saugatuck Twp	0305	3.9	6.2	0.6	9.0	10.4%



## MERS December 31, 2021 Valuation - Results by Municipality

### Appendix D: Plan Maturity Measures

Municipality Name	Number	Ratio of				
		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retirees and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
Saugatuck Twp Fire Dist	0313	1.6	1.6	6.0	22.7	4.9%
Saugatuck, City of	0307	4.4	4.0	0.8	14.0	-0.9%
Sault Ste. Marie HC	4906	5.5	5.1	1.7	16.9	0.1%
Sault Ste. Marie Tribe of Chippewa Indians	8404	1.0	1.1	13.5	315.4	23.6%
Sault Ste. Marie, City of	1701	6.1	9.1	0.8	10.4	-4.2%
SCCMUA	1905	9.8	11.4	0.5	15.6	-2.5%
Schoolcraft Co	7503	6.4	10.7	0.6	9.9	-6.5%
Schoolcraft Co Trans Auth	7506	4.8	7.3	1.4	13.1	18.8%
Schoolcraft CRC	7501	10.7	19.0	0.4	7.8	0.1%
Schoolcraft Memorial Hosp	7505	31.4	35.7	0.2	16.1	-1.3%
Scio Twp	8116	3.8	4.8	1.7	35.0	0.9%
Scottville, City of	5308	2.0	2.2	3.0	21.5	0.1%
SE Oakland Co Rsrc Rec Auth	6310	4.8	6.0	0.7	12.6	0.7%
SE Oakland Co Wtr Auth	6309	10.1	9.5	0.7	16.7	-4.1%
Sebewaing, Vlg of	3205	10.9	9.3	0.5	18.4	-2.1%
SEMCOG	8210	7.9	9.4	0.8	15.4	-3.2%
Shepherd, Vlg of	3704	3.9	4.7	1.7	59.4	1.1%
Shiawassee Co	7602	6.6	9.7	0.7	11.8	-2.0%
Shiawassee Council on Aging	7605	2.5	3.6	1.0	8.3	-2.9%
Shiawassee CRC	7601	13.0	12.2	0.8	17.6	7.1%
Shiawassee Dist Lib	7606	8.5	8.2	1.0	22.4	-3.5%
Shiawassee Hlth & Wellness	7609	3.1	3.8	1.3	19.3	0.0%
Sims Whitney Util Auth	0606	3.4	3.8	0.7	15.8	3.0%
SMART	8216	6.2	7.3	0.7	13.9	-0.1%
South Haven Area ESA	8005	6.7	9.3	1.8	18.0	1.3%
South Haven, City of	8001	5.6	6.6	1.0	17.9	-1.4%
South Lyon, City of	6315	6.4	9.1	0.9	17.3	-1.1%
Southgate, City of	8262	11.0	17.3	0.4	9.0	-4.8%
Sparta, Vlg of	4107	6.7	8.5	0.9	20.7	-1.2%
Spring Lake Dist Lib	7016	6.6	7.5	1.3	15.3	-3.7%
Spring Lake, Vlg of	7015	18.2	23.0	0.5	12.1	-2.4%
Springfield, City of	1303	11.2	16.5	0.3	8.7	-0.5%
St Charles, Vlg of	7308	8.0	11.4	0.7	11.7	2.8%
St Clair HC	7715	N/A	N/A	0.0	3.9	-1.8%
St Clair Shores HC	5007	3.2	6.2	0.8	7.8	-1.2%
St Clair, City of	7703	17.0	30.1	0.3	9.0	-5.4%
St Ignace, City of	4904	6.9	12.2	0.7	9.1	-3.8%
St Johns, City of	1902	15.7	24.6	0.2	9.2	3.7%
St Joseph Co	7803	5.7	6.6	0.9	16.0	-3.5%
St Joseph Twp	1122	3.7	3.5	8.0	47.7	2.1%
St Louis HC	2908	8.7	9.0	3.0	64.1	1.4%
St Louis, City of	2902	37.2	38.0	0.1	12.9	0.6%
Stambaugh Twp	3615	3.1	4.6	1.0	30.4	3.4%
Standish, City of	0601	N/A	N/A	0.0	10.5	-3.1%
Stanton, City of	5903	N/A	N/A	0.0	21.5	-5.1%
Stephenson, City of	5504	6.0	8.8	0.7	21.3	1.9%
Sterling, Vlg of	0605	10.9	8.0	0.5	14.8	-6.7%
Stockbridge, Vlg of	3316	3.7	5.0	1.5	21.1	3.9%
Sturgis HC	7805	N/A	N/A	0.0	39.7	-2.7%
Summit Twp	3803	5.9	9.2	1.2	15.3	0.4%
Sumpter Twp	8226	4.9	5.6	2.1	25.0	2.1%
Superior Chtr Twp	8109	3.2	4.6	1.9	15.0	0.9%
Superior Dist Lib	1702	3.9	2.7	1.9	21.9	-3.7%
Superiorland Lib Coop	5208	N/A	N/A	0.0	10.7	-1.2%
Suttons Bay Bingham Fire Auth	4506	2.0	3.3	5.0	24.2	6.0%
SW Mich Comm Amb Svcs	1119	3.7	3.8	4.0	31.7	3.1%
SW Shiawassee ESA	7611	2.6	2.6	7.5	123.2	8.3%
Swan Creek Twp	7309	4.3	5.6	0.8	9.8	-4.0%
Swartz Creek, City of	2504	64.3	67.6	0.1	12.7	-7.1%
Sylvan Lake, City of	6314	12.6	13.7	0.6	31.9	-0.2%
Tawas Police Auth	3504	N/A	N/A	0.0	12.2	16.1%
Taylor HC	8231	5.8	6.4	0.5	19.1	-2.7%
The Lib Network	8218	6.6	7.8	0.8	17.7	-1.5%
Three Rivers, City of	7801	4.7	6.6	1.0	13.2	-2.9%
Tittabawassee Twp	7322	4.8	4.8	2.1	22.2	-0.8%
Traverse Area Dist Lib	2807	7.4	8.2	0.5	13.8	-3.2%
Traverse City Light & Power	2811	11.9	15.7	0.4	12.1	1.0%
Traverse City, City of	2801	4.4	7.4	0.7	9.2	-4.9%
Trenton, City of	8203	97.1	138.6	0.0	9.5	-3.7%





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Tri-County Aging Consortium	3307	2.9	3.3	1.3	19.0	0.2%
Trio Council on Aging Inc CLD	6507	N/A	N/A	0.0	15.1	-3.6%
Tuscarora Twp	1604	4.5	6.1	2.3	28.2	2.9%
Tuscola Co	7902	8.1	8.8	0.7	17.8	-3.7%
Tuscola Co CMH	7907	4.2	4.4	1.3	23.1	0.9%
Tuscola Co Hlth Dpt	7901	16.6	19.5	0.4	16.0	-4.4%
Tuscola Co MCF	7906	2.3	2.6	1.8	18.6	-1.6%
Tuscola CRC	7908	6.8	7.3	0.8	15.3	1.5%
Twin City Pub Safety Auth CLD	3610	N/A	N/A	0.0	21.3	-5.1%
Ubly, Vlg of	3212	N/A	N/A	0.0	11.1	-6.5%
Utica, City of	5008	6.7	7.8	1.0	13.9	-2.7%
Van Buren Co	8006	2.7	3.8	1.9	15.1	-0.2%
Van Buren Dist Lib	8007	8.4	7.8	0.8	18.4	4.2%
Van Buren Twp	8236	5.5	7.2	2.8	27.9	1.8%
Vassar, City of	7903	39.6	41.7	0.1	13.4	60.4%
Vevay Twp	3318	6.6	10.7	0.3	5.4	-3.3%
Vicksburg Dist Lib	3904	N/A	N/A	0.0	6.7	-6.0%
Vicksburg, Vlg of	3902	7.3	10.4	0.5	14.3	-3.0%
Vienna, Chtr Twp of	2522	10.0	14.9	0.4	11.0	1.6%
W Iron Co Swr Auth	3612	4.4	8.1	0.8	8.3	-2.8%
W Mich CMH Sys	5304	72.0	90.0	0.0	10.1	-7.0%
W Mich Shoreline Rgnl Dev Comm	6110	8.9	8.5	1.0	18.5	-4.0%
W UP Dist Hlth Dept	3101	15.6	22.4	0.2	9.7	-1.6%
Wakefield, City of	2701	5.2	8.2	0.7	8.9	-0.6%
Walker, City of	4112	19.3	22.9	0.3	13.3	2.6%
Walled Lake, City of	6324	4.2	11.4	0.6	6.4	-0.5%
Washtenaw Co	8113	5.6	7.5	2.0	19.8	0.4%
Washtenaw CRC	8102	5.7	10.0	0.9	10.5	-1.3%
Wayland, City of	0304	6.0	8.4	0.7	13.8	-1.7%
Wayne HC	8252	5.5	8.1	1.5	13.7	-0.6%
Wayne, City of	8242	17.0	28.4	0.4	9.7	-3.5%
Webberville, Vlg of	3314	2.6	2.3	1.2	26.8	3.3%
West Branch Dist Lib	6509	4.9	5.0	3.0	26.7	-1.7%
West Branch, City of	6505	5.8	8.9	0.7	10.7	0.9%
Westland, City of	8211	39.9	41.3	0.2	14.9	117.0%
Westphalia, Vlg of	1907	7.1	10.1	0.3	9.0	-7.1%
Wexford Co	8302	4.2	6.1	1.0	12.4	-0.7%
Wexford CRC	8303	11.9	11.0	0.6	20.0	0.5%
White Cloud Cmnty Lib	6208	7.3	9.2	0.7	8.0	-10.6%
White Cloud, City of	6206	2.5	3.7	0.8	10.6	-0.5%
White Cloud/Sherman Util	6211	3.1	4.5	1.5	18.0	4.6%
White Lake Chtr Twp	6325	5.2	7.3	1.4	16.3	-0.7%
White Pigeon, Vlg of	7804	1.8	1.8	2.0	26.4	4.2%
White Pine Dist Lib	5904	6.3	10.0	0.2	7.4	5.2%
Whitehall, City of	6105	4.3	4.9	0.8	17.6	0.7%
Willard Pub Lib	1308	2.7	3.1	4.8	40.7	7.0%
Williamston, City of	3310	5.7	7.5	0.6	11.3	-3.9%
Wixom, City of	6316	28.8	29.4	0.3	19.1	-4.7%
Wolverine Lake, Vlg of	6329	4.6	6.1	1.0	16.2	3.1%
WUPPDR	3108	12.6	11.9	0.8	12.8	-1.8%
Ypsilanti Cmnty Util Auth	8106	6.1	8.9	0.8	12.4	-0.1%
Ypsilanti HC	8115	8.8	7.2	0.3	18.7	-2.7%
Ypsilanti, City of	8101	10.2	8.0	0.8	22.2	-4.1%
Ypsilanti, Twp of	8104	5.2	7.0	0.9	13.2	-2.1%
Totals- MERS		6.8	9.4	0.7	(12.3)	-0.3%



## **Appendix E: Plan Provisions: Actuarial Assumptions and Methods**

Located on the MERS website at: [Appendix](#).