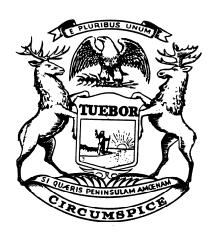
Michigan Legislative Retirement System

Comprehensive Annual Financial Report for the Fiscal Year Ended September 30, 2020



MLRS

A Pension and Other Postemployment Trust Fund of the State of Michigan

Prepared by:
Michigan Legislative Retirement System
Anderson House Office Building, Suite S0927
P.O. Box 30014
Lansing, Michigan 48909
(517) 373-0575

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Michigan Legislative Retirement System

Comprehensive Annual Financial Report for the Fiscal Year Ended September 30, 2020

INTRODUCTORY SECTION



Certificate of Achievement Letter of Transmittal Retirement Board of Trustees Organization Chart Advisors and Consultants Office Location



Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

Michigan Legislative Retirement System

For its Comprehensive Annual Financial Report For the Fiscal Year Ended

September 30, 2019

Executive Director/CEO

Christopher P. Morrill

Letter of Transmittal

CHRISTINE HAMMOND DIRECTOR

TEL. NO.: (517) 373-0575
FAX NO.: (517) 373-5639
TOLL FREE: (877) 577-5628
EMAIL: chammon@house.mi.gov



STATE OF MICHIGAN

LEGISLATIVE RETIREMENT SYSTEM

P.O. BOX 30014 LANSING, MICHIGAN **48909-7514**

January 13, 2021

The Honorable Gretchen Whitmer Governor, State of Michigan

Members of the Legislature State of Michigan

Retirement Board Members and Members, Retirees, and Beneficiaries

Ladies and Gentlemen:

We are pleased to present the comprehensive annual report of the Michigan Legislative Retirement System (MLRS or System) for fiscal year 2020.

INTRODUCTION TO REPORT

The System was established by legislation under Public Act 261 of 1957. Information regarding the background and description of the System is presented in Note 1 in the financial section of this report. The purpose of the System is to provide benefits for eligible current and former state legislators. The services provided by the staff are performed to facilitate the payment of benefits to members.

Responsibility

Responsibility for both the accuracy of the data and the completeness and fairness of the presentation, including all disclosures, rests with the management of the System. To the best of our knowledge and belief, the enclosed data is accurate in all material respects and is reported in a manner designed to present fairly the financial position and results of operations of the System.

Management's Discussion and Analysis (MD&A)

Generally Accepted Accounting Principles (GAAP) requires that management provide an overview and analysis of the System's financial statements, which is called the MD&A. This letter of transmittal should be read in conjunction with the MD&A. The MD&A is found in the beginning of the financial section of this report.

Letter of Transmittal (Continued)

FINANCIAL INFORMATION

Internal Control

The management of the System is responsible for maintaining a system of adequate internal accounting control designed to: (1) provide reasonable assurance that transactions are executed in accordance with management's general or specific authorization; (2) record transactions necessary to maintain accountability for assets; and (3) permit preparation of financial statements in accordance with generally accepted accounting principles in the United States of America. The internal control process is designed to provide reasonable assurance regarding the safekeeping of assets and reliability of all financial records. The concept of reasonable assurance recognizes that the cost of a control should not exceed the benefits likely to be derived and that the valuation of costs and benefits requires estimates and judgments by management. This internal control structure includes maintaining written policies and procedures.

INVESTMENT

The System Board of Trustees is the investment fiduciary for the System, and pursuant to state law, the state treasurer is the custodian of all investments of the System. The System's overall investment objective is to obtain a competitive total rate of return on investments commensurate with Act No. 314 of the Michigan Public Acts of 1965, as amended (MCL §38.1132 et seq., which is the Michigan statute governing the investments of public pension funds), the System's risk-taking ability, and the responsibilities of the System to provide retirement benefits for its members, retirees, and their beneficiaries. In absolute terms, this return objective should approximate the System's actuarial assumed rate of return, which is currently 7%. The investment activity for the year produced a total rate of return on the portfolio of 5.7%. A summary of asset allocation and investment portfolio information can be found in the investment section of this report.

FUNDING

Funds are derived from the excess of additions, which include contributions and investment earnings, over deductions that are comprised of benefits and administrative expenses. Funds are accumulated to meet future benefit obligations to retirees and beneficiaries. This accumulated balance is referred to as the "net position restricted for pension benefits and OPEB" in the Statement of Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position in the Financial Section of the report.

Pension Plan

The total pension liability is not reported in the basic financial statements, but is disclosed in Note 4 to the basic financial statements and in the required supplementary information. The total pension liability is determined by the actuary and is a measure of the present value of actuarial accrued liabilities estimated to be payable in the future to current retirees, beneficiaries, and employees for service earned to date. The net pension liability is measured as the total pension liability less the amount of the pension plan's fiduciary net position. As of September 30, 2020, total pension liability was \$284.1 million, and plan fiduciary net position was \$113.9 million. Resulting in a net pension liability of \$170.2 million.

Other Postemployment Benefits Plan (OPEB)

The total OPEB liability is not reported in the basic financial statements, but is disclosed in Note 5 to the basic financial statements and in the required supplementary information. The total OPEB liability is determined by the actuary and is a measure of the present value of actuarial accrued liabilities estimated to be payable in the future to current retirees, beneficiaries, and employees for service earned to date. The net OPEB liability is measured as the total OPEB liability less the amount of the OPEB plan's fiduciary net position. As of September 30, 2020, total OPEB liability was \$143.8 million, and plan fiduciary net position was \$31.4 million. Resulting in a net OPEB liability of \$112.4 million.

Letter of Transmittal (Continued)

PROFESSIONAL SERVICES

Audit Services

The Office of the Auditor General (OAG), independent auditors, conducts audits of the System. The independent auditor's report on the System's financial statements is included in the financial section of this report. The financial statements of the System are audited by the Auditor General as part of his constitutional responsibility.

Actuarial Services

Statute requires an annual actuarial valuation be conducted for the pension benefits. The purpose of the valuation is to evaluate the mortality, service, compensation, and other financial experience of the System and to recommend funding rates. This annual actuarial valuation was completed for the fiscal year ended September 30, 2019. Actuarial certification and supporting statistics are included in the actuarial section of this report.

Financial Services

The Board of Trustees for the System retains thirteen (13) investment managers and a financial consultant to assist the board in its statutory responsibility to invest the System's funds. These advisors are identified in the introductory section of this report. By statute, the State Treasurer acts as the custodian for the System. Investment information is included in the investment section of this report.

HONORS

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the Michigan Legislative Retirement System for its comprehensive annual financial report for the fiscal year ended September 30, 2019. This was the 6th consecutive year that the LRS has achieved this prestigious award. In order to be awarded a Certificate of Achievement, a government must publish an easily readable and efficiently organized comprehensive annual financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. We believe that our current comprehensive annual financial report continues to meet the Certificate of Achievement Program's requirements and we are submitting it to the GFOA to determine its eligibility for another certificate.

ACKNOWLEDGEMENTS

The preparation of this report was accomplished with the dedication and cooperation of several people, including Lorie Blundy, the System's Chief Accountant. It is intended to provide complete and reliable information as a basis for making management decisions, as a means of determining compliance with legal provisions, and as a means for determining responsible stewardship of the funds of the System.

We would like to express our appreciation for the assistance given by staff, the advisors, and other persons who contributed to the preparation of this report. We believe their combined efforts have produced a report that will enable the System Board of Trustees, plan members, and other interested parties to evaluate and understand the Michigan Legislative Retirement System.

Sincerely,

Christine Hammond, Director

Michigan Legislative Retirement System

Administrative Organization

Retirement Board of Trustees Members

As of September 30, 2020

The Honorable R. Robert Geake Retiree Member

Chairperson of the Board

The Honorable Deborah Cherry Retiree Member

The Honorable Philip Hoffman Retiree Member

The Honorable Mark Schauer Retiree Member The Honorable Alma Wheeler Smith Retiree Member

Vice-Chairperson of the Board

The Honorable John Cherry

Retiree Member

The Honorable Joseph Palamara

Retiree Member

The Honorable John Schwarz

Tier 2 Defined Contribution Plan Member

The Honorable J. Michael Busch Retiree Member

The Honorable Dan DeGrow Retiree Member

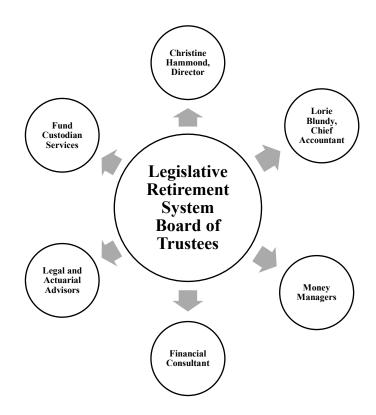
The Honorable Gary Randall

Retiree Member

Administrative Organization

Anderson House Office Building P.O. Box 30014 Lansing, Michigan 48909 (517) 373-0575 (877) 577-5628 toll-free

Organization Chart



Administrative Organization (Continued)

Investment Advisors*

As of September 30, 2020

The American Fund Group Capital Research and Management

EuroPacific Growth Fund Los Angeles, CA

Barrow Hanley Mewhinney & Strauss, Inc.

Dallas, TX

Cramer Rosenthal McGlynn, LLC

New York, NY

Dimensional Fund Advisors

Austin, TX

Dodge & Cox Funds Kansas City, MO

DoubleLine Funds Trust

Los Angeles, CA

Fidelity Investments

Boston, MA

Ironwood Capital Management

San Franciso, CA

PIMCO

Newport Beach, CA

RWC Emerging Markets

Miami, FL

Tortoise

Leawood, KS

Wasatch Global Investors

Milwaukee, WI

Wellington Management Co., LLP

Boston, MA

*The investments of the System are managed by the Investment Advisors, in accordance with Board directive, and applicable law. Information on the advisors can be found in the Investment Section. The investment category and rate of return for the advisors can be found on page 53, Schedule of Investment Results. Investment fees for the advisors can be found on page 55, Schedule of Investment Fees. Broker fees and commissions on shares traded can be found on pages 56-57, Schedule of Fees and Commissions.

Advisors and Consultants

As of September 30, 2020

Actuary

Gabriel Roeder Smith & Company Francois Peterse and Mark Buis Southfield, MI

Financial Consultant

Fund Evaluation Group Robert P. Van Den Brink Cincinnati, OH **Independent Auditors**

Doug A. Ringler, C.P.A., C.I.A Auditor General State of Michigan Custodian

Rachael Eubanks State Treasurer State of Michigan

Legal Advisor

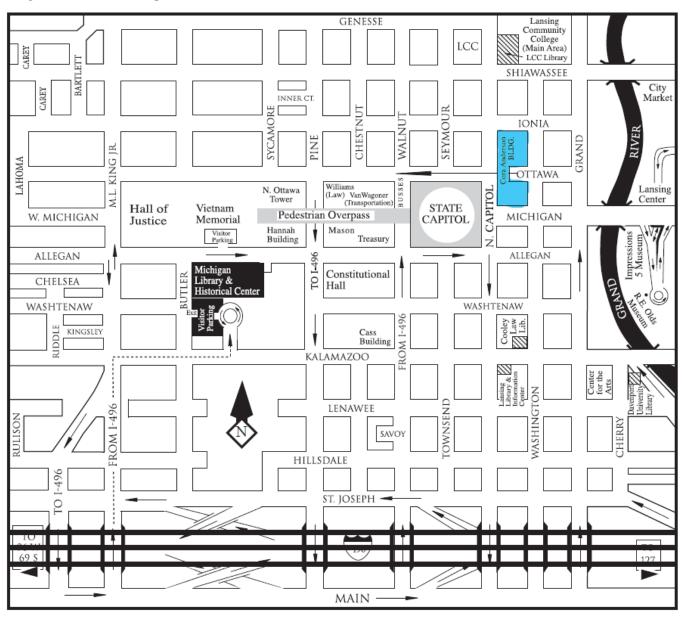
Dana Nessel Attorney General State of Michigan

Administrative Organization (Continued)

Office Location:

Michigan Legislative Retirement System Cora Anderson House Office Building 124 N. Capitol Avenue, Suite S0927 Lansing, MI 48933

Map of Downtown Lansing



Michigan Legislative Retirement System

Comprehensive Annual Financial Report for the Fiscal Year Ended September 30, 2020

FINANCIAL SECTION



Independent Auditor's Report
Management's Discussion and Analysis
Basic Financial Statements
Notes to Basic Financial Statements
Required Supplementary Information
Note to Required Supplementary Information
Supporting Schedules



Doug A. Ringler, CPA, CIA Auditor General

201 N. Washington Square, Sixth Floor • Lansing, Michigan 48913 • Phone (517) 334-8050 • audgen michigan gov

Independent Auditor's Report on the Financial Statements and Other Reporting Required by Government Auditing Standards

The Honorable R. Robert Geake, Chair Board of Trustees and Ms. Christine I. Hammond, Director Michigan Legislative Retirement System

Dear Mr. Geake and Ms. Hammond:

Report on the Financial Statements

We have audited the accompanying financial statements of the Michigan Legislative Retirement System as of and for the fiscal year ended September 30, 2020 and the related notes to the financial statements, which collectively comprise the System's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to in the first paragraph present fairly, in all material respects, the fiduciary net position of the Michigan Legislative Retirement System as of September 30, 2020 and the changes in fiduciary net position for the fiscal year then ended in accordance with accounting principles generally accepted in the United States of America.





The Honorable R. Robert Geake, Chair Ms. Christine I. Hammond, Director Page 2

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis, schedule of changes in net pension liability, schedule of changes in net OPEB liability, schedules of contributions, schedules of investment returns, and related note, as listed in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the System's basic financial statements. The supporting schedules and the introductory, investment, actuarial, and statistical sections are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The supporting schedules are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the supporting schedules are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory, investment, actuarial, and statistical sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on them.

Other Reporting Required by Government Auditing Standards

In accordance with Government Auditing Standards, we will also issue a report on our consideration of the System's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the System's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with Government Auditing Standards in considering the System's internal control over financial reporting and compliance.

Sincerely,

Doug Ringler Auditor General January 13, 2021

Dove Kingler

Management's Discussion and Analysis

The management's discussion and analysis (MD&A) of the System provides an overview of the financial activities and performance for the fiscal years ended September 30, 2020 and 2019. This should be read in conjunction with the financial statements and required supplemental information (RSI), which provides information for September 30, 2020.

THE STATEMENT OF NET POSITION AND THE STATEMENT OF CHANGES IN NET POSITION

This Comprehensive Annual Financial Report (CAFR) consists of two financial statements; Statement of Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position (page 20) and Statements of Changes in Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position (page 21). These financial statements report information about the System, as a whole, and about its financial condition that should help answer the question: Is the System, as a whole, better off or worse off as a result of this year's activities? These statements include all assets and liabilities using the economic resources measurement focus and the accrual basis of accounting. Under the accrual basis of accounting, all revenues and expenses are taken into account regardless of when cash is received or paid.

The Statement of Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position, presents all of the System's assets and liabilities, with the difference between the two reported as net position. Over time, increases and decreases in net position measure whether the System's financial position is improving or deteriorating. The Statement Changes in Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position, presents how the System's net position changed during the most recent fiscal year. These two financial statements should be reviewed along with the Schedule of Net Pension Liability (page 40), Schedule of Net OPEB Liability (page 42) and Schedules of Contributions (page 43) to determine whether the System is becoming financially stronger or weaker and to understand changes over time in the funded status of the System.

FINANCIAL ANALYSIS

The Statement of Pension Plan and Other Postemployment Benefit Plan Net Position, presents information on the System's assets and liabilities using the accrual basis of accounting. Over time, increases or decreases in net position may serve as a useful indicator of the System's financial strength or weakness. System's net position, for the fiscal year ending September 30, 2020, **decreased** by \$6.8 million or 4.5%, due to a decrease in the fair value of the System's investments.

Plan Fiduciary Net Position

As of September 30 (\$ in thousands)

	2020	2019	Increase (Decrease)
Assets:			
Equity in common cash	\$ 1,665	\$ 1,345	23.8 %
Receivables	269	245	9.7
Investments	143,614	150,693	(4.7)
Total assets	 145,548	152,282	(4.4)
Liabilities:			
Accounts payable	299	201	48.7
Total liabilities	299	201	48.7
Total net position	\$ 145,249	\$ 152,081	(4.5) %

Management's Discussion and Analysis (Continued)

ADDITIONS TO NET POSITION

The reserves needed to finance benefits provided by the System are accumulated through the collection of court fees, member and other contributions, State appropriations and through earnings on investments. Contributions and investment income/loss for fiscal year 2020 totaled \$14.2 million. Total Additions to Net Position **decreased** in fiscal year 2020 by 37.0% from the prior year, primarily due to decreased appropriations from the prior year.

DEDUCTIONS FROM NET POSITION

The primary deductions of the System include the payment of pension and life insurance benefits to members and beneficiaries, the payments for health, dental, and vision benefits, the refund or transfer of contributions to former members, and the cost of administering the System. Total expenses for fiscal year 2020 were \$21.0 million, an **increase** of 1.0% over 2019 expenses, primarily due to increased pension costs.

Changes in Plan Fiduciary Net Position

For Fiscal Year Ended September 30 (\$ in thousands)

			Increase
	 2020	 2019	(Decrease)
Additions			
Member contributions	\$ 1	\$ 4	(73.1)%
Employer contributions	4,878	17,508	(72.1)
Net Investment income/(loss)	8,217	3,946	108.3
Miscellaneous income	 1,068	 1,026	4.2
Total additions	14,165	22,484	(37.0)
Deductions			
Pension benefits	14,230	14,009	1.6
Health care benefits	5,836	6,164	(5.3)
Death benefits/life ins.	390	121	221.6
Refunds/qual. rollover	35	-	N/A
Administrative exp.	 506	486	4.1
Total deductions	20,997	20,780	1.0
Net increase (decrease)	(6,832)	1,704	(500.9)
Net position - Beginning of year	152,081	150,377	1.1
Net position - End of year	\$ 145,249	\$ 152,081	(4.5)%

Management's Discussion and Analysis (Continued)

Overall Financial Analysis

In accordance with its enabling statute, the MLRS Board of Trustees has fiduciary responsibility for the management of the system's funds, and it oversees its carefully structured and carefully monitored investment program to meet the system's financial goals, established through its Investment Policy Statement.

The Board seeks to achieve an optimal rate of return balanced with prudent levels of risk, to preserve capital and avoid large losses, to meet or exceed the system's 7% rate of return actuarial assumption over the long-term, to ensure that the portfolio investment managers meet or exceed their benchmarks over the long-term, and to ensure that the portfolio is invested in a cost-effective manner.

The eruption of risk-on tailwinds that started in late March prevailed during the third quarter, propelling risky asset prices higher, as investors braced for the looming November U.S. presidential election. Incoming U.S. economic data continued to surprise to the upside, sending economic surprise aggregates to their highest levels since early-2018, albeit with many measures continuing to reflect the challenging economic backdrop.

Global equity returns were generally positive, as U.S. large cap growth equities maintained their impressive performance streak. U.S. equities outpaced developed international markets but underperformed the emerging market region, due in part to the decline in the U.S. dollar (USD). Despite the bullish sentiment, core bond returns were modestly positive, although they trailed the more risk-oriented sectors: investment-grade corporates, high yield, and bank loans. In real assets, performance for the quarter was mixed, despite an increase in inflationary sentiment and weakness in the USD. REIT returns were essentially neutral, commodities returns were positive, and energy infrastructure performance was negative.

As with past practice, the Trustees of LRS continued their ongoing due diligence reviews, meeting on a regular basis to discuss markets, managers and portfolio positioning. Rather than shun risk or even attempt to predict it, the Trustees continue to diversify the portfolio in a way that avoids excess concentration in a single risk. By doing so they recognize long-term tendencies can help raise the probability of investment success by taking a smoother path. The Trustees further recognize that near-term price action can and will occasionally become unexpectedly detached from fair value and that a commitment to diversification can help stabilize returns over both the short and the long-term.

Detailed information regarding the MLRS investment program and performance can be found in the Investment Section of this report (beginning on page 49).

Financial Questions or Requests

This financial report is designed to provide a general overview of the System's financial position. Requests for additional information or questions about this report should be addressed to: Michigan Legislative Retirement System, P.O. Box 30014, Lansing, MI 48909.

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Statement of Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position As of September 30, 2020

	Pension Plan		OPEB			
				Plan		Total
ASSETS						
Equity in common cash	\$	1,471,619	\$	193,558	\$	1,665,177
Receivables						
Due from federal agencies				202,981		202,981
Interest and dividends		20,535				20,535
Sale of investments		45,028				45,028
Total receivables:		65,564		202,981		268,545
Investments						
Equities	2:	5,700,008		7,079,110		32,779,117
Alternative investments	1	1,413,636		3,143,905		14,557,541
Mutual funds	7:	5,485,180		20,792,517		96,277,697
Total investments:	112	2,598,824		31,015,532		143,614,356
Total assets:	114	4,136,007		31,412,071		145,548,077
LIABILITIES						
Accounts payable and other liabilities		251,692		17,200		268,892
Amount due to other funds		3,859				3,859
Unearned revenue				26,311		26,311
Total liabilities:		255,552		43,511		299,063
Net position restricted for						
pension benefits and OPEB	\$ 113	3,880,455	\$	31,368,559	\$	145,249,014

The accompanying notes are an integral part of these financial statements.

Statement of Changes in Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position For fiscal year ended September 30, 2020

or fiscal year ended September 30, 2020	Pe	ension	OPEB	
	1	Plan	 Plan	Total
ADDITIONS				
Member contributions:				
Other member contributions	\$	1,123	\$	\$ 1,123
Employer contributions			4,120,900	4,120,900
Court fees			516,899	516,899
Other governmental contributions			 240,272	240,272
Total contributions:		1,123	4,878,071	4,879,194
Investment Income (Loss):				
Net increase (decrease) in fair value of investments		4,463,009	1,086,830	5,549,839
Interest, dividends and other		2,465,404	 566,407	 3,031,811
Total investment income (loss)		6,928,413	1,653,237	8,581,650
Less investment expenses		(292,847)	(71,314)	 (364,161)
Net investment income (loss)		6,635,565	1,581,923	8,217,488
Miscellaneous income		6,733	1,061,764	1,068,497
Total additions:		6,643,422	7,521,757	14,165,179
DEDUCTIONS				
Benefits & refunds paid to plan members and beneficiaries:				
Retirement benefits		14,230,239		14,230,239
Health benefits			5,494,948	5,494,948
Dental benefits			341,390	341,390
Death benefits		390,000		390,000
Refund of contribution & interest		34,924		34,924
Administrative expenses		406,665	99,031	505,696
Total deductions:		15,061,829	5,935,369	20,997,197
Net increase (decrease) in net position		(8,418,407)	1,586,388	(6,832,019)
Net position restricted for				
pension benefits and OPEB:				
Beginning of year	1	22,298,862	 29,782,171	 152,081,033
End of year	\$ 1	13,880,455	\$ 31,368,559	\$ 145,249,014

The accompanying notes are an integral part of these financial statements.

Notes to Basic Financial Statements

NOTE 1 - PLAN DESCRIPTION

ORGANIZATION

The Michigan Legislative Retirement System (MLRS or System) is a single employer, public employee, defined benefit retirement pension plan and post-employment healthcare plan governed by the State of Michigan (the "State"). The System was created by Public Act 261 of 1957, as amended, and provides retirement and ancillary benefits to eligible current and former state legislators. The System's pension plan was established by the State to provide retirement, survivor and disability benefits to the Michigan Legislature, elected for the first time before March 31, 1997. In addition, the System's other postemployment benefit (OPEB) plan provides health care to eligible vested members, the option of receiving health, prescription, dental and vision coverage under the Michigan Legislative Retirement Act. Public Act 200 of 2011 amended the System's enabling statute and closed the OPEB Plan. The System's financial statements are included as a pension (and other employee benefit) trust fund in the combined financial statements of the State of Michigan.

The System operates within the legislative branch of state government. The System's Board of Trustees appoints the director who serves as executive secretary to the System's board, with whom the general oversight of the System resides. Public Act 486 of 1996 amended the System's enabling statute to mandate that persons elected to the Michigan Legislature after March 30, 1997, participate in a state-wide defined contribution pension plan administered by the State of Michigan Department of Technology, Management and Budget. Thus the defined benefit plan is a closed plan. The System's financial statements are included as a pension and other employee benefit trust fund of the State of Michigan Comprehensive Annual Financial Report. The defined contribution retirement plan operates as a 401(k) plan and is part of the State of Michigan 401K plan. The State of Michigan 401K plan annual financial report is issued separately.

The System shall be administered by a board of trustees, consisting of eleven (11) members, and composed as defined in Public Act 261 of 1957, as amended, and in the bylaws. Board members are appointed for a 4-year term. The board of trustees oversee the Systems investments, advisors and consultants. Complete information on the retirement board, advisors and consultants are included in the introductory section of this report.

MEMBERSHIP

At September 30, 2020, the System's pension plan membership consisted of the following:

Inactive plan members or their beneficiaries	
currently receiving benefits	2020
Regular benefits	194
Survivor benefits	57
Disability benefits	0
Total	251
Inactive plan members entitled to	
but not yet receiving benefits	5
Active plan members:	
Vested	0
Non-vested	0
Total	0
Total Plan Members	256

^{*}Includes 10 domestic relations orders (DRO) alternate payees for 2020

Notes to Basic Financial Statements (Continued)

MEMBERSHIP (continued)

The System provides life insurance benefits. The number of plan participants is as follows:

Life Insurance Plan	2020
Eligible active plan members	0
Eligible inactive vested plan members	5
Eligible retired plan members	140

Enrollment in the health plan is voluntary. The number of plan participants is as follows:

Health/Dental/Vision Plan	2020
Active participants	3
Deferred participants	67
Participants currently eligible for health benefits	381 **
Participants receiving health benefits	353 **

^{**}Includes 113 defined contribution (DC) participants at September 30, 2020 who are receiving health care insurance through System in accordance with state statute. At September 30, 2020, the number of DC participants who were eligible for health care insurance but declined to receive the benefits were 27.

BENEFIT PROVISIONS

Introduction

Public Act 261 of 1957, the Michigan Legislative Retirement System Act, as amended, establishes eligibility and benefit provisions for this defined benefit pension plan.

Michigan's constitutional term-limit amendment limits members of the House of Representatives to six (6) years in office and members of the Michigan Senate to eight (8) years in office. Effective March 31, 1997, Public Act 486 of 1996 closed the System to new legislators. The act provides certain re-elected former legislators the option to rejoin the system. All legislators who first take office after 1997 are automatically enrolled in the State of Michigan Defined Contribution Plan.

Benefit provisions of the post-employment healthcare plan are established by State statute, which may be amended. Public Act 261 of 1957, as amended, establishes eligibility and benefit provisions for the health plan. Eligible members may receive health, prescription, hearing, dental, and vision coverage.

Regular Retirement

A member may retire and receive retirement benefits based on age and service after: (1) attaining age 50, if age and years of credited service combined are equal to or greater than 70; or (2) attaining age 55 with 5 or more years of credited service if elected, qualified, and seated not less than (a) 3 full or partial terms in the House of Representatives, (b) 2 full or partial terms in the Senate, or (c) 1 term in the House of Representatives and 1 term in the Senate. Within 30 days after becoming 55 years of age, a deferred vested member may elect to defer receipt of the retirement allowance to which the member is entitled, not to exceed 70-1/2 years of age.

A member's retirement benefit is computed using a benefit formula prescribed by the enabling statute and described below. The benefit is paid on a monthly basis.

For those legislators who first became members on or before January 1, 1995, the retirement benefit is calculated by multiplying 20% of the highest salary earned for the first 5 years of service, plus 4% of highest salary for each of the next 11 years of service, plus 1% of the highest salary for each additional year.

Notes to Basic Financial Statements (Continued)

BENEFIT PROVISIONS (continued)

For those legislators who first became members after January 1, 1995, the retirement benefit is calculated by multiplying 3% of the highest salary for each year of service.

Post Retirement Benefit Adjustment

For those legislators who first became members on or before January 1, 1995, the annual retirement benefit payable to a retiree and/or his/her survivor is increased by 4% compounded annually. The adjustment is effective each January.

For those legislators who first became members after January 1, 1995, the annual retirement benefit payable to a retiree and/or his/her survivor is increased by 4%, but it is not compounded annually. The adjustment is effective each January.

Other Postemployment Benefits

Under Section 50a and 50b of the Legislative Retirement System Act, all retirees and their dependents and survivors receive health, dental, vision, and hearing insurance coverage. The System also provides health, dental, vision, and hearing insurance coverage for deferred vested members who were members on or before January 1, 1995, and for their survivors and dependents. In addition, in accordance with state law, the System provides health insurance coverage to eligible former legislators (and their dependents) who meet certain vesting requirements established by statute and who belong to the State's Defined Contribution Plan. Member enrollment to the System's health plan is voluntary. The System pays for health, dental, vision, and hearing benefits on a modified pay-as-you-go basis; however, the State has begun to advance fund for future System health insurance costs. Public Act 200 of 2011 amended the System's enabling statute and closed the OPEB Plan. All qualified participants must have completed six (6) years of service before January 1, 2013 to qualify for health insurance in the System.

Life Insurance Benefits

The System provides \$150,000 in life insurance coverage to active members. Deferred vested members are covered by varying amounts of life insurance, ranging from \$5,000 to \$150,000, depending on the member's date of deferral and, in some instances, the payment of an annual premium. Retirees are covered by varying amounts of life insurance, ranging from \$2,500 to \$75,000, depending on their retirement dates and, in some instances, the payment of an annual premium. The System prefunds life insurance benefits using the entry age actuarial cost method. The life insurance plan and the pension plan use the same actuarial assumptions, which are stated in the actuarial section.

Disability Benefit

A member or deferred vested member who becomes disabled as determined by at least (2) licensed physicians appointed by the board of trustees is eligible for a disability benefit computed in the same manner described under Regular Retirement.

Survivor Benefit

Upon the death of a vested member or deferred vested member who meets the service, but not the age requirements, for regular retirement (see Regular Retirement), or upon the death of a retiree, a surviving spouse shall be entitled to a benefit equal to 66 2/3% of the benefit the member would have received or was receiving at the time of death. Special provisions apply to surviving minor children and surviving spouses with minor children.

Refunds

A member who leaves legislative service may request a refund of his/her contributions from the Members' Saving Fund. A member who receives a refund of contributions forfeits all rights to any future System benefits. Members who return to legislative service and who previously received a refund of their contributions may reinstate their service through repayment of the refund plus interest in accordance with the statute.

Notes to Basic Financial Statements (Continued)

NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting and Presentation

The System's financial statements are prepared using the economic resources measurement focus and the accrual basis of accounting, as provided by generally accepted accounting principles for governments. Contributions are recognized as revenue when due, pursuant to formal commitments, as well as statutory requirements. Benefits and refunds are recognized when due and payable in accordance with the terms of the plan.

GASB Statement No. 67, which was adopted during the fiscal year ended September 30, 2014, addresses accounting and financial reporting requirements for pension plans. The requirements for GASB Statement No. 67 requires changes in presentation of the financial statements, notes to the financial statements, and required supplementary information. Significant changes include an actuarial calculation of total and net pension liability. It also includes comprehensive footnote disclosure regarding the pension liability, the sensitivity of the net pension liability to the discount rate, and increased investment activity disclosures. The implementation of GASB Statement No. 67 did not significantly impact the accounting for accounts receivables and investment balances. The total pension liability, determined in accordance with GASB Statement No. 67, is presented in Note 4 on page 28 and in the Required Supplementary Information on page 40.

GASB Statement No. 74, which was adopted during the fiscal year ended September 30, 2017, addresses accounting and financial reporting requirements for other postemployment benefit (OPEB) plans. The requirements for GASB Statement No. 74, are much like 67 addressed for pension plans, which requires changes in presentation of the financial statements, notes to the financial statements, and required supplementary information. Significant changes include an actuarial calculation of total and net OPEB liability. It also includes comprehensive footnote disclosure regarding the OPEB liability, the sensitivity of the net OPEB liability to the discount rate, and increased investment activity disclosures. The implementation of GASB Statement No. 74 did not significantly impact the accounting for accounts receivables and investment balances. The total OPEB liability, determined in accordance with GASB Statement No. 74, is presented in Note 5 on page 30 and in the Required Supplementary Information on page 42.

Contributions and Reserves

The Legislative Retirement System Act provides for several "reserves" or "funds." These funds and the contributions and other monies allocated to them are described below.

Members' Savings Fund (MSF) — A member who first becomes a member on or before January 1, 1995, with less than 20 years of experience, contributed approximately 7% of salary to MSF. A member who first becomes a member after January 1, 1995, contributed approximately 5% of salary to MSF. Beginning January 1, 1999, there were no member contributions allocated to MSF except for approximately 4% of salary for the period beginning on January 1, 1999 and ending on December 31, 2000, for members who first becomes a member after December 1, 1994 and on or before January 1, 1995, in accordance with legislation. Eligible members may make other contributions to the MSF to purchase special service credit or to repay previously refunded contributions. MSF represents active member contributions (and interest credited from the Income Fund) less amounts transferred to reserves for retirement and amounts refunded to terminated members. At September 30, 2020, the balance in this account was \$0.1 million.

Members' Retirement Fund (MRF) — The MRF represents the reserves for payment of retirement benefits. At retirement a member's accumulated contributions (with interest) are transferred to the MRF (from the MSF). Interest is credited to the MRF (from the Income Fund), and monthly allowances are debited. At each fiscal year end an actuarial valuation determines the 100% funding requirements for the MRF. Any amounts required to 100% fund the MRF are transferred in the next fiscal year. At September 30, 2020, the balance in this account was \$7.0 million.

Notes to Basic Financial Statements (Continued)

Contributions and Reserves (continued)

Survivors' Retirement Fund (SRF) — On and before January 1, 1999, all members with less than 20 years of service contributed 1/2% of salary to the SRF. After January 1, 1999, there are no member contributions allocated to the SRF. Interest is credited annually to the SRF (from the Income Fund), and member savings are transferred to the SRF from the MSF upon the death of a vested member, and additional state contributions may be made in order to make the SRF 100% funded. Survivors' monthly retirement allowances are paid from this fund upon the death of vested members, deferred vested members, and retirants. At September 30, 2020, the balance in this account was \$76.6 million.

<u>Insurance Revolving Fund (IRF)</u> — On and before January 1, 1999, all members contributed 1/2% of salary to the Insurance Revolving Fund. After January 1, 1999, there are no member contributions allocated to the IRF. State contributions, if any, member premiums, and interest from the Income Fund are credited to this fund. Life insurance benefits are paid from the IRF to beneficiaries of members, retirants, and deferred vested members. At September 30, 2020, the balance in this account was \$30.2 million.

Health Insurance Fund (HIF) — On and before January 1, 1999, all members contributed 1% of salary to this fund. After January 1, 1999, member contributions are made as follows: (1) members who first became members on or before January 1, 1995, contribute 9% to the HIF; (2) members who first became members after January 1, 1995, contribute 7% to the HIF. This fund is also credited with employer contributions, court fees, other governmental contributions and interest income. Funds from this reserve are used to pay health care expenses and are accumulated to fully fund the future health insurance liabilities for the System. At September 30, 2020, the balance in this account was \$31.4 million.

In July, 2011, the Michigan Legislature passed, and Governor Rick Snyder signed, a new law that provides for the use of the health insurance reserve funds to pay for the current costs associated with the retiree health insurance plan. Before the passage of the new law, Public Act 99 of 2011, the system statute prohibited the use of certain prefunding dollars maintained in the health insurance reserve, and their investment income, until the retiree health insurance (OPEB) liabilities in the system became 100% funded. Public Act 99 of 2011 removed the 100%-funding requirement, and thus allows for the immediate use of the funds for health insurance costs of the system. The system added \$1.6 million to the reserve after paying health insurance costs for fiscal year ending September 30, 2020.

<u>Income Fund (IF)</u> — The IF is credited with all investment earnings and other miscellaneous income. Interest transfers are made annually to the other reserves, based on beginning balance. This fund also accounts for investment and administrative expenses and interest on refunds and transfers.

Fair Value of Investments

System investments are presented at fair value, consistent with the provisions of GASB Statement No. 72, *Fair Value Measurement and Application*. Short-term, highly liquid debt instruments, including commercial paper, are reported at amortized cost. Additional disclosures describing investments are provided in Note 8.

Reporting Entity

The System is a pension and OPEB trust fund of the State of Michigan. As such, the System is considered part of the State and is included in the State's comprehensive annual financial report as a pension and OPEB trust fund. The System and the System's Board of Trustees are not financially accountable for any other entities. Accordingly, the System is the only entity included in this financial report.

Investment Income

Dividend income is recognized on the ex-dividend date, and interest income is recognized on the accrual basis as earned. Fair value changes are recorded as investment income or loss. Purchases and sales of investments are recorded as of the trade date.

Notes to Basic Financial Statements (Continued)

Cost of Administering the System

The retirement system shall pay the expenses for the administration of the retirement system, exclusive of amounts payable as retirement allowances and other benefits provided in this act, from the income fund.

Related Party Transactions

The cash account includes \$1.7 million on September 30, 2020, which represents funds deposited in a common cash investment pool maintained for various State operating funds. The participating funds in the common cash pool earn interest at various rates depending upon prevailing short-term interest rates. Earnings from these activities amounted to \$9,755 for the year ended September 30, 2020.

Excess Benefits

Internal Revenue Service (IRS) Code Section 415 requires that, for individuals who receive retirement benefits in excess of established limits, these benefits should be recorded and reported outside of the pension fund in order to keep the qualified status of the plan. This includes coordination of benefits issued where a retiree participates in more than one qualified plan. The System provided excess benefits to seven (7) retirees, for a total amount of \$236,076 as of September 30, 2020.

NOTE 3 - CONTRIBUTIONS

Member Contributions

On or before January 1, 1999, the following contributions were made by members of the System:

Members who first became members on or before January 1, 1995, contributed 9% of their salaries to the System. The contributions were placed in the following reserves created by the enabling statute: 7% to the Members' Savings Fund for the first 20 years of service; 0.5% to the Insurance Revolving Fund; 0.5% to the Survivors' Retirement Fund for the first 20 years of service; and 1% to the Health Insurance Fund.

Members who first became members on or after January 1, 1995, contributed 7% of their salaries to the System. The contributions were placed in the following reserves created by the enabling statute: 5% to the Members' Savings Fund; 0.5% to the Insurance Revolving Fund; 0.5% to the Survivors' Retirement Fund; and 1% to the Health Insurance Fund.

After January 1, 1999, the following contributions are made by the members of the System:

Members who first became members after December 1, 1994, contribute 9% of their salaries to the System. The contributions are placed in accordance with enabling statute to Health Insurance Fund.

Members who first became members after December 1, 1994 and on or before January 1, 1995, contributed 13% of their salaries to the System. The contributions were placed in the following reserves in accordance with the enabling statute: 9% to the Health Insurance Fund and 4% to the Members' Savings Fund until December 31, 2000. After December 31, 2000, these members contribute 9% of their salaries to the System. The contributions are placed in accordance with enabling statute to Health Insurance Fund.

Members who first became members after January 1, 1995, contribute 7% of their salaries to the System. The contributions are placed in the following reserve in accordance with the enabling statute: 7% to the Health Insurance Fund.

Member contributions are tax-deferred through the provisions of section 414(h)(2) of the Internal Revenue Code.

Notes to Basic Financial Statements (Continued)

State Contributions

State contributions are made on the basis of actuarial requirements as determined by the System actuary and approved by the Board of Trustees. Through the annual state budgetary process, the Legislature annually appropriates, and the Governor approves, the State contributions along with certain court fee revenues, which are paid to the System pursuant to state statute.

Pension plan State contributions are determined based on an actuarially determined contributions. Actual employer contributions for pension plan benefits were \$0.0 million for fiscal year 2020.

OPEB plan State contributions are determined based on an actuarially determined contributions. Actual employer contributions for OPEB were \$4.1 million for fiscal year 2020.

Schedules showing actuarially determined State contributions are presented in the Required Supplementary Information, in the financial section of this report. Also included in the Required Supplementary Information, are the actuarial assumptions used to determine the contribution rates.

NOTE 4 – NET PENSION LIABILITY

Measurement of the Net Pension Liability

The net pension liability is to be measured as the total pension liability, less the amount of the pension plan's fiduciary net position. In actuarial terms, this will be the accrued liability less the fair value of assets (not the smoothed actuarial value of assets that is often encountered in actuarial valuations performed to determine the employer's contribution requirement)

Net Pension Liability

Total Pension Liability \$ 284,062,466 Plan Fiduciary Net Position 113,880,455 Net Pension Liability \$ 170,182,011 Plan Fiduciary Net Position as a Percentage of Total Pension Liability 40.09% Net Pension Liability as a Percentage of Covered Payroll N/A Total Covered Payroll \$ -	·		
Net Pension Liability \$ 170,182,011 Plan Fiduciary Net Position as a Percentage of Total Pension Liability \$ 40.09% Net Pension Liability as a Percentage of Covered Payroll N/A	Total Pension Liability	\$	284,062,466
Plan Fiduciary Net Position as a Percentage of Total Pension Liability Net Pension Liability as a Percentage of Covered Payroll N/A	Plan Fiduciary Net Position		113,880,455
of Total Pension Liability 40.09% Net Pension Liability as a Percentage of Covered Payroll N/A	Net Pension Liability	\$	170,182,011
Net Pension Liability as a Percentage of Covered Payroll N/A	Plan Fiduciary Net Position as a Percentage	-	
of Covered Payroll N/A	of Total Pension Liability		40.09%
·	Net Pension Liability as a Percentage		
Total Covered Payroll \$ -	of Covered Payroll		N/A
	Total Covered Payroll	\$	-

Notes to Basic Financial Statements (Continued)

Long-Term Expected Return on Pension Plan Assets

The long-term expected rate of return on pension plan investments was determined using a building block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the pension plan's target asset allocation as of September 30, 2020, are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return*
Large Cap Equity	25.0 %	4.0 %
Small Cap Equity	10.0	5.5
International Equity	19.0	5.5
Emerging Markets	9.0	7.5
Fixed Income	20.0	(0.6)
Hedge Fund	10.0	3.3
Public Natural Resources	3.0	6.0
Real Assets	3.0	4.3
Cash	1.0	(1.5)
Total	100.0 %	

^{*}Real rate of return is based on investment manager inflation assumption of 2.00%.

Pension Plan Rate of Return

For the year ended September 30, 2020, the annual money-weighted rate of return on pension plan investments, net pension plan investment expense, was 5.39%. The money weighted rate of return expresses investment performances, net of investment expense, adjusted for the changing amounts actually invested.

Pension Plan Discount Rate

The single discount rate used to measure the total pension liability decreased to 3.10%, compared to the prior year's 3.69%. This single discount rate was based on an expected rate of return on pension plan investments of 7.0% and a municipal bond rate of 2.41% (based on the daily rate closest to but not later than measurement date of the Fidelity "20-Year Municipal GO AA Index"). The projection of cash flows used to determine this single discount rate assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the difference between actuarially determined contributions rates and the member rate. Based on these assumptions, the pension plan's fiduciary net position and future contributions were sufficient to finance the benefit payments through the year 2030. As a result, the long-term expected rate of return on pension plan investments was applied to projected benefit payments through the year 2030, and the municipal bond rate was applied to all benefit payments after that date.

Notes to Basic Financial Statements (Continued)

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

As required by GASB Statement No. 67, the following presents the plan's net pension liability, calculated using a single discount rate of 3.10%, as well as what the plan's net pension liability would be if it were calculated using a single discount rate that is 1-percentage-point lower or 1-percentage-point higher:

	Current Single Discount				
	1% Decrease	Rate Assumption	1% Increase		
_	2.10%	3.10%	4.10%		
Net Pension Liability/(Asset)	\$209,109,688	\$170,182,011	\$138,496,222		

Timing of the Valuation

An actuarial valuation to determine the total pension liability is required to be performed at least every two years. If the actuarial valuation is not calculated as of the plan's fiscal year end, the total pension liability is required to be rolled forward from the actuarial valuation date to the pension plan's fiscal year end. The total pension liability as of September 30, 2020, is based on the results of an actuarial valuation performed as of September 30, 2019 and rolled forward using generally accepted actuarial procedures.

NOTE 5 – NET OTHER POSTEMPLOYMENT BENEFIT LIABILITY

Measurement of the Net OPEB Liability

The net OPEB liability is to be measured as the total OPEB liability, less the amount of the OPEB plan's fiduciary net position. In actuarial terms, this will be the accrued liability less the fair value of assets (not the smoothed actuarial value of assets that is often encountered in the actuarial valuations performed to determine the employer's contribution requirement). The net OPEB liability should be measured as of the OPEB plan's most recent fiscal year end.

Net OPEB Liability

Total OPEB Liability	\$ 143,763,073
Plan Fiduciary Net Position	 31,368,559
Net OPEB Liability	\$ 112,394,514
Plan Fiduciary Net Position as a Percentage	
of Total OPEB Liability	21.82%

Notes to Basic Financial Statements (Continued)

Long-Term Expected Return on OPEB Plan Assets

The long-term expected rate of return on OPEB plan investments was determined using a building block method in which best-estimate ranges of expected future real rates of return (expected returns, net of OPEB investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the OPEB plan's target asset allocation as of September 30, 2020, are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return*
Large Cap Equity	25.0 %	4.0 %
Small Cap Equity	10.0	5.5
International Equity	19.0	5.5
Emerging Markets	9.0	7.5
Fixed Income	20.0	(0.6)
Hedge Fund	10.0	3.3
Public Natural Resources	3.0	6.0
Real Assets	3.0	4.3
Cash	1.0	(1.5)
Total	100.0 %	

^{*}The arithmetic rates of return were provided by the System's investment consultant along with a 2.0% price inflation assumption.

OPEB Plan Rate of Return

For the year ended September 30, 2020, the annual money-weighted rate of return on OPEB plan investments, net OPEB plan investment expense, was 8.6%. The money weighted rate of return expresses investment performances, net of investment expense, adjusted for the changing amounts actually invested.

OPEB Plan Discount Rate

The single discount rate of 3.88% was used to measure the total OPEB liability, compared to the prior year's 3.86%. This single discount rate was based on an expected rate of return on OPEB plan investments of 7.0% and a municipal bond rate of 2.41% (based on the daily rate closest to but not later than measurement date of the Fidelity "20-Year Municipal GO AA Index"). The projection of cash flows used to determine this single discount rate assumed that employer contributions will be made at rates equal to actuarially determined contributions rate. Based on these assumptions, the OPEB plan's fiduciary net position and future contributions were sufficient to finance the benefit payments through the year 2038. As a result, the long-term expected rate of return on pension plan investments was applied to projected benefit payments through the year 2038, and the municipal bond rate was applied to all benefit payments after that date.

Notes to Basic Financial Statements (Continued)

Sensitivity of the Net OPEB Liability to Changes in the Discount Rate

As required by GASB Statement No. 74, the following presents the plan's net OPEB liability, calculated using a single discount rate of 3.88%, as well as what the plan's net OPEB liability would be if it were calculated using a single discount rate that is 1-percentage-point lower or 1-percentage-point higher:

	Current Single Discount		
	1% Decrease	Rate Assumption	1% Increase
_	2.88%	3.88%	4.88%
Net OPEB Liability/(Asset)	\$134,450,178	\$112,394,514	\$94,768,210

Sensitivity of the Net OPEB Liability to the Healthcare Cost Trend Rate

Regarding the sensitivity of the net OPEB liability to changes in the healthcare cost trend rates, the following presents the plan's net OPEB liability, calculated using the assumed trend rates as well as what the plan's net OPEB liability would be if it were calculated using a trend rate that is one percent lower or one percent higher:

		Current Healthcare Cost	
	1% Decrease	Trend Rate Assumption	1% Increase
	(7.25% decreasing	(8.25 decreasing	(9.25% decreasing
	to 2.5%)	to 3.5%)	to 4.5%)
Net OPEB Liability/(Asset)	\$94,120,539	\$112,394,514	\$134,865,316

Timing of the Valuation

An actuarial valuation to determine the total OPEB liability is required to be performed at least every two years. If the actuarial valuation is not calculated as of the plan's fiscal year end, the total OPEB liability is required to be rolled forward from the actuarial valuation date to the OPEB plan's fiscal year end. The total OPEB liability as of September 30, 2020, is based on the results of an actuarial valuation performed as of September 30, 2019 and rolled forward using generally accepted actuarial procedures.

Notes to Basic Financial Statements (Continued)

NOTE 6 – PENSION PLAN

Actuarial Valuations and Assumptions

Actuarial valuations for pension plans involve estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment and mortality. Amounts determined regarding the net pension liability of the plan and the rate of return are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future.

The Schedule of Contributions in RSI present trend information about the amounts contributed to the plan by employers in comparison to an amount that is actuarially determined.

Projections of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the employer and plan members) and include the types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs between the employer and plan members to that point. The actuarial methods and assumptions used include techniques that are designed to reduce the effects of short-term volatility in actuarial accrued liabilities and the actuarial value of assets, consistent with the long-term perspective of the calculations.

The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows:

Summary of Actuarial Assumptions

Methods and assumptions used to determine Net Pension Liability as of September 30, 2020:

Valuation Date September 30, 2019
Actuarial Cost Method Entry-Age Normal

Asset Valuation Method Fair Value
Wage Inflation 4.00%
Salary Increases 4.00%

Investment Rate of Return 3.10% Single Discount Rate

Cost-of-living Adjustments 4% Annual Compounded (non-compounded for legislators

who first became members after 1/1/95)

Retirement Age Age-based table of rates with 100% probability of retirement

once a member is subject to term limits

Mortality RP-2014 Mortality Tables scaled by 100% and adjusted for

mortality improvements using projection scale MP-2017

from 2006.

Note: Actuarial assumptions are periodically reviewed and modified, if needed, upon the recommendation

of the actuary, and with approval of the board.

Notes to Basic Financial Statements (Continued)

NOTE 7 – OTHER POSTEMPLOYMENT BENEFITS PLAN

Actuarial Valuations and Assumptions

Actuarial valuations OPEB plans involve estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality and the healthcare cost trend. Amounts determined regarding the net OPEB liability of the plan and the rate of return are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future.

The Schedule of Contributions in RSI present trend information about the amounts contributed to the plans by employers in comparison to an amount that is actuarially determined.

Projections of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the employer and plan members) and include the types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs between the employer and plan members to that point. The actuarial methods and assumptions used include techniques that are designed to reduce the effects of short-term volatility in actuarial accrued liabilities and the actuarial value of assets, consistent with the long-term perspective of the calculations.

The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows:

Summary of Actuarial Assumptions

Methods and assumptions used to determine Net OPEB Liability as of September 30, 2020:

Valuation Date September 30, 2019
Actuarial Cost Method Entry-Age Normal
Asset Valuation Method Fair Value

Actuarial Assumptions:

Wage Inflation 4%

Investment Rate of Return 3.88% Single Discount Rate

Retirement Age Age-based table of rates with 100% probability of

retirement once a member is subject to term limits

Mortality RP-2014 Mortality Tables scaled by 100% and adjusted for

mortality improvements using projection scale MP-2017

from 2006.

Healthcare Cost Trend Rate 8.25% trend, gradually decreasing to 3.50% in 10 years

Excise Tax No load was applied to the health care liabilities of

current retirees or future retirees to approximate the cost for

future excise tax.

Aging factors Based on the 2013 SOA Study "Health Care Costs – From

Birth to Death"

Note: Actuarial assumptions are periodically reviewed and modified, if needed, upon the recommendation of the actuary, and with approval of the board.

Notes to Basic Financial Statements (Continued)

NOTE 8 - INVESTMENTS

Investment Authority

All investments made are subject to approval by the Board of Trustees, which has investment authority under the act. Investments made are subject to statutory regulations imposed under the Michigan Public Employee Retirement System Investment Act, Public Act 314 of 1965, as amended. The Public Employee Retirement System Investment Act authorizes, with certain restrictions, the investment of pension fund assets in stocks, corporate and governmental bonds and notes, mortgages, real estate, and certain short-term and alternative investments. The System also contracts with independent investment advisors.

Derivative Instruments

State investment statutes limits total derivative instrument exposure to 15% of a fund's total asset value and restricts uses to replication of returns and hedging of assets. The System Investment Policy Statement (IPS) has a target asset allocation of 5% for hedge funds, which may include derivative instruments. Systems investment in hedge funds has an exposure to derivative instruments of approximately 15-20%. The System invests in derivative instruments for investment purposes and not hedging purposes. As of September 30, 2020, total investments in hedge funds was 10.0%. The fair value of the hedge funds at September 30, 2020 was \$14,557,541.

Securities Lending

The System did not participate in any securities lending activities.

Risk

In accordance with GASB statement 40, investments require certain disclosure regarding policies and the risks associated with them. The credit risk, custodial credit risk, foreign currency risk and interest rate risk are discussed in the following paragraphs.

Credit risk

Credit risk is the risk that an issuer will not fulfill its obligations. The System has a policy to maintain an overall weighted average of "Aa" or better by Moody's Investors Service and "AA" or better by Standards & Poor's for active management of fixed income securities. Mutual fund fixed income investments are not subject to this constraint; they are governed by the terms of their prospectuses. GASB 40 states that governments should disclose the credit quality ratings of external investment pools, money market funds, bond mutual funds and other pooled investments of fixed income securities in which they invest.

Debt Securities As of September 30, 2020

Investment Type	Fair Value	Rating S & P	Moody's
Mutual Funds**	\$ 14,022,666	В	BB+
	\$ 14,263,818 28,286,484	NR	NR

^{**} Average Rating

Notes to Basic Financial Statements (Continued)

Custodial credit risk

The custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, the System's deposits may not be recovered. Deposits are exposed to custodial credit risk if they are not covered by depository insurance and the deposits are: a.) Uncollateralized, b.) Collateralized with securities held by the pledging financial institution, or c.) Collateralized with securities held by the pledging financial institution's trust department or agent but not in the depositor-government's name.

The common cash pool is managed by the State Treasurer and is authorized to invest surplus funds in depository accounts at financial institutions, bonds, notes, and other U.S. government debt, prime commercial paper, certificates of deposits, and special State investment programs. At September 30, 2020, the common cash pool held the majority of its funds in depository accounts 8.2% and prime commercial paper 88.2%. The State Treasurer's policy for common cash depository accounts requires financial institutions to secure State funds with collateral, to be organized under federal or State law, and to maintain an office in Michigan. The policy also restricts deposits to a maximum of 50% of the financial institution's net worth. At September 30, 2020, the carrying amount of deposits including time and demand deposits, was \$974.1 million. The deposits were reflected in the accounts of the banks at \$974.1 million. Of the bank balance, \$5.4 million was covered by federal depository insurance and \$965.5 million was collateralized with securities held by the State's agent in the State's name. There were demand deposits of \$3.2 million exposed to custodial credit risk that were uninsured and uncollateralized. Compensating balances kept in demand deposit accounts to avoid service charges totaled \$806.3 million at September 30, 2020. The State Treasurer's policy requires prime commercial paper to be rated "A-1" by S&P or "P-1" by Moody's or higher at purchase and places requirements and restrictions on the borrower. Additional details on the common cash pool policies and risk disclosures are described in the State of Michigan Comprehensive Annual Financial Report.

Concentration of Credit Risk

Concentration of credit risk is the risk of loss attributed to the magnitude of a government's investment in a single issuer.

System is prohibited by Public Act 314 of 1965, as amended, from investing in more than 5% of the outstanding stock or obligations of any one issuer or investing more than 5% of its assets in the stock or obligations of any one issuer.

At September 30, 2020, there were no investments in any one issuer that accounted for more than 5% of System's assets nor were there any investments totaling more than 5% of the stock or obligations of any one issuer.

Foreign currency risk

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of deposits. Public Act 35 of 1997 requires State deposits be held in a financial institution which maintains a principal office or branch office located in the State of Michigan. The System had no common cash deposits subject to foreign currency risk at September 30, 2020.

Custodial credit risk associated with investments

In accordance with GASB statement 40, investments also require certain disclosures regarding policies and procedures with respect to the risks associated with them. The custodial credit risk for investments is the risk that, in the event of a failure of the counterparty, the System will not be able to recover the value of the investment or collateral securities that are in the possession of an outside party.

Investment securities are exposed to custodial credit risk if the securities are uninsured, are not registered in the name of the government and are held by either: a.) the counterparty, or b.) the counterparty's trust department or agent but are not in the government's name. The State Treasurer does not have an investment policy for managing custodial credit risk. At September 30, 2020, the System's investments were not exposed to custodial credit risk.

Notes to Basic Financial Statements (Continued)

Interest rate risk associated with investments

Interest rate risk is the risk that changes in interest rates of debt investments will adversely affect the fair value of an investment. The System has an 18% target allocation of fixed income securities, which are affected by interest rates because they are a debt investment. At September 30, 2020, the fair value was \$28,286,484, with the investment activity for the year producing a total rate of return of 5.6%, and a rate of return since inception of 3.9%. The projected duration is 4.07 years. The System does not have a policy for controlling interest rate risk.

Foreign currency risk associated with investments

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of investments. The System invests in various foreign investments (including, but not limited to, equities, fixed income, and mutual funds), which are subject to various limitations in accordance with the System's Investment Policy Statement (or "IPS") (which incorporates the provisions of the Public Employee Retirement System Investment Act, or Public Act 314 of 1965, as amended). IPS foreign investment restrictions include a 20% limitation of the total assets of the system and, additionally, a 5% limitation in the outstanding foreign securities of a single issuer (allowances are made for the daily market pricing fluctuations of an investment). New investments in countries that have been identified by the United States Department of State as engaging in or sponsoring terrorism are prohibited, and existing investments in any such newly-identified country shall be quickly divested in accordance with the law. At September 30, 2020, the System held the following investments subject to foreign currency risk:

Foreign Currency Risk

As of September 30, 2020

(Value in US dollars) International Mutual Alt. Invest Funds **Equities TOTAL** Country Currency **PACIFIC** \$ \$ 142,874 China Renminbi 142,874 **WORLD-WIDE** Various Various 14,557,541 42,961,771 57,519,312 Total \$ 14,557,541 \$ 42,961,771 \$ 142,874 57,662,186

Significant Accounting Policies

As of September 30, 2016, the Retirement System applies Governmental Accounting Standards Board ("GASB") Statement No. 72, Fair Value Measurement and Application. GASB Statement No. 72 provides guidance for determining a fair value measurement for reporting purposes and applying fair value to certain investments and disclosures related to all fair value measurements.

Notes to Basic Financial Statements (Continued)

Fair Value Measurements

The MLRS categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Not all investments held by the MLRS are recorded at fair value. GASB 72 allows for certain investments to be recorded at cost (or amortized cost or any other valuation method), and therefore, they are not presented in the fair value hierarchy table. Equity and fixed income securities classified in Level 1 of the fair value hierarchy are valued using prices quoted in active markets for those securities. Equity Swaps and Fixed Income securities classified in Level 2 of the fair value hierarchy are valued using a matrix pricing technique and other significant observable inputs. Equity and fixed income securities classified as Level 3 of the fair value hierarchy are valued using a third party data and reports that are unobservable. Securities reported at Net Asset Value (NAV) are valued using the most recent third party statement adjusted for cash flows as of September 30, 2020. Investments that are measured at fair value using the Net Asset Value per share (or its equivalent) as a practical expedient are not classified in the fair value hierarchy below.

In instances where inputs used to measure fair value fall into different levels in the above fair value hierarchy, fair value measurements in their entirety are categorized based on the lowest level input that is significant to the valuation. The MLRS' assessment of the significance of particular inputs to these fair value measurements requires judgment and considers factors specific to each asset or liability.

Investment by Fair Value Level

As of September 30, 2020

	Level 1			
Total Cash and Cash Equivalents	\$	-		
Equity				
Depository Receipts		142,874		
Common Stocks		31,883,843		
Real Estate Investment Trusts		752,400		
Commingled Funds, ETF's		63,503,006		
Total Equity		96,282,124		
Fixed Income				
Commingled Funds and ETF's		32,774,690		
Total Fixed Income		32,774,690		
Total Investment by fair value level	\$	129,056,814		
Investments measured at the net asset value (NAV)				
Private Equity		14,557,541		
Total Investments measured at NAV		14,557,541		
Total Investments measured at fair value	\$	143,614,356		

Additional disclosures needed for fair value measurements of investments in certain entities that calculate the Net Asset Value per share (or its equivalent):

Alternative Investments

Total investments measured at the NAV \$14,557,541 Unfunded commitments \$0

There is one investment reported at NAV:

• The one investment is a hedge fund that requires 95 days' notice for redemption; generally redemptions are only allowed quarterly. A full redemption would require withholding 5% of the NAV retained until all costs are settled.

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Required Supplementary Information

Schedule of Changes in Net Pension Liability

Fiscal years ending September 30,		<u>2020</u>		<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>
Total pension liability							
Service Cost	\$	-	\$	38,955	\$ 77,125	\$ 85,889	\$ 73,996
Interest on the total pension liability		9,614,058		11,050,515	10,555,045	10,213,286	11,025,152
Benefit changes		-		-	-	-	-
Difference between expected and actual experience							
of the total pension liability		1,780,292		479,528	66,388	(1,617,292)	1,899,056
Assumption changes		19,452,109		30,744,212	(3,054,941)	(13,496,599)	18,936,985
Benefit payments and refunds		(14,655,163)		(14,129,965)	(14,521,128)	(14,282,224)	 (13,919,312)
Net changes in total pension liability		16,191,296		28,183,245	(6,877,511)	(19,096,940)	18,015,877
Total pension liability - beginning		267,871,170		239,687,925	 246,565,436	 265,662,376	 247,646,499
Total pension liability - ending (a)	\$	284,062,466	\$	267,871,170	\$ 239,687,925	\$ 246,565,436	\$ 265,662,376
Plan fiduciary net position							
Employer contributions	\$	-	\$	8,063,327	\$ -	\$ -	\$ -
Employee contributions		1,123		2,445	998	3,895	3,648
Pension plan net investment income		6,635,565		3,319,925	8,629,843	15,840,766	11,324,783
Benefit payments and refunds		(14,655,163)		(14,129,965)	(14,521,128)	(14,282,224)	(13,919,312)
Pension plan administrative expense		(406,665)		(405,319)	(398,871)	(391,937)	(405,381)
Other		6,733				6,649	
Net change in plan fiduciary net position		(8,418,407)		(3,149,587)	(6,289,158)	 1,177,149	 (2,996,262)
Plan fiduciary net position - beginning		122,298,862		125,448,449	131,737,607	130,560,458	133,556,720
Plan fiduciary net position - ording (b)	s	113,880,455	\$	122,298,862	\$ 125,448,449	\$ 131,737,607	\$ 130,560,458
The following (b)		112,000,122	Ψ	122,230,002	120,110,110	 151,757,007	 120,200,120
Net pension liability - (a) - (b)		170,182,011		145,572,308	114,239,476	114,827,829	135,101,918
Plan fiduciary net position as a percentage							
of total pension liability		40.09%		45.66%	52.34%	53.43%	49.15%
Covered payroll	\$	-	\$	71,685	\$ 71,685	\$ 71,685	\$ 71,685
Net pension liability as a percentage							
of covered payroll		N/A		203,072.20%	159,363.15%	160,183.90%	188,466.09%

⁽¹⁾ Schedule has been restated due to retroactively applying mortality assumption change.

Required Supplementary Information (Continued)

<u>2</u>	<u>015⁽¹⁾</u>	<u>2</u>	2014 ⁽¹⁾
\$	61,979	\$	56,715
	,839,056		1,297,018
11	-	•	-
	405,924		_
20	,079,527	2	4,547,477
(14	,495,307)	(1	3,550,106)
	,891,179		2,351,104
229	,755,320	20	7,404,216
	,646,499		9,755,320
\$	-	\$	-
	3,226		5,662
(6	5,545,332)	1	4,868,119
(14	,495,307)	(1	3,550,106)
	(362,431)		(430,200)
	_		-
(21	,399,844)		893,475
154	,956,564	15	4,063,089
\$133	,556,720		4,956,564
114	,089,779	7	4,798,756
	53.93%		67.44%
\$	71,685	\$	71,685
159	0,154.33%	10	4,343.66%

Required Supplementary Information (Continued)

Schedule of Changes in Net OPEB Liability

Fiscal years ending September 30,	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
Total OPEB liability				
Service Cost	\$ 154,932	\$ 1,147,517	\$ 1,482,175	\$ 797,000
Interest on the total OPEB liability	6,446,545	7,517,765	7,076,802	8,463,585
Changes in benefit terms	-	-	-	-
Difference between expected and actual experience	(26,458,278)	(25,628,961)	3,291,754	18,099
Changes of assumptions	(393,431)	4,385,679	(9,407,229)	66,226,054
Benefit payments, including refunds				
of employee contributions	 (5,836,338)	(6,163,773)	 (6,695,207)	(6,342,947)
Net changes in total OPEB liability	(26,086,570)	(18,741,773)	(4,251,705)	69,161,791
Total OPEB liability - beginning	169,849,643	188,591,416	192,843,121	123,681,330
Total OPEB liability - ending (a)	\$ 143,763,073	\$ 169,849,643	\$ 188,591,416	\$ 192,843,121
Plan fiduciary net position				
Employer contributions	\$ 4,637,799	\$ 9,091,371	\$ 4,657,040	\$ 4,571,636
Employee contributions	-	1,737	6,452	6,452
OPEB plan net investment income	1,581,923	625,677	1,573,478	2,754,692
Benefit payments, including refunds				
of employee contributions	(5,836,338)	(6,163,773)	(6,695,207)	(6,342,947)
OPEB plan administrative expense	(99,031)	(80,542)	(74,201)	(68,871)
Other	 1,302,035	 1,379,333	 953,927	643,981
Net change in plan fiduciary net position	1,586,388	4,853,803	421,489	1,564,943
Plan fiduciary net position - beginning	29,782,171	24,928,368	24,506,879	22,941,936
Plan fiduciary net position - ending (b)	\$ 31,368,559	\$ 29,782,171	\$ 24,928,368	\$ 24,506,879
Net OPEB liability - (a) - (b)	\$ 112,394,514	\$ 140,067,472	\$ 163,663,048	\$ 168,336,242
Plan fiduciary net position as a percentage	 			
of total OPEB liability	21.82%	17.53%	13.22%	12.71%

Note: Contributions to the OPEB plan are not based on a measure of pay. Therefore, in accordance with GASB Statement No. 85, covered payroll is not presented in this schedule.

Required Supplementary Information (Continued)

Schedules of Contributions

Pension Benefits

Fiscal Year Ended Sept. 30	Actuarially Determined Contribution	Actual Contribution Employer Deficiency Covered Contributions (Excess) Payroll			Actual Contribution as a % of Covered Payroll
2011	\$1,890,998	\$0	\$1,890,998	\$143,370	0.0 %
2011 (1)	2,915,182	0	2,915,182	143,370	0.0
2012	4,390,831	0	4,390,831	71,685	0.0
2013	5,993,209	0	5,993,209	71,685	0.0
2014	6,327,209	0	6,327,209	71,685	0.0
2015	7,843,450	0	7,843,450	71,685	0.0
2016	8,063,327	0	8,063,327	71,685	0.0
2017	7,878,170	0	7,878,170	71,685	0.0
2018	8,236,583	0	8,236,583	71,685	0.0
2019	9,348,433	8,063,327	1,285,106	17,921	N/A (2)
2020	9,291,507	0	9,291,507	0	N/A

⁽¹⁾ Under revised mortality assumptions.

Other Postemployment Benefits⁽¹⁾

Fiscal Year Ended Sept. 30	Actuarially Determined Contribution	Actual Employer Contributions	Contribution Deficiency Covered (Excess) Payroll		Actual Contribution as a % of Covered Payroll
2011	\$11,817,097	\$4,287,509	\$7,529,588	\$3,658,557	117.2 %
2012	9,674,141	7,840,322	1,833,819	3,586,872	218.6
2013	9,630,395	4,240,388	5,390,007	3,312,132	128.0
2014	9,381,877	4,323,381	5,058,496	2,497,497	173.1
2015	9,362,804	4,473,374	4,889,430	1,733,547	258.0
2016	10,464,110	4,537,633	5,926,477	1,661,862	273.0
2017	11,336,578	4,571,636	6,764,942	1,661,862	275.1
$2018^{(2)}$	11,631,582	4,657,040	6,974,542	N/A	N/A
2019	10,172,054	9,091,371	1,080,683	N/A	N/A
2020	7,907,429	4,637,799	3,269,630	N/A	N/A

⁽¹⁾ Includes members in both the defined benefit plan and the defined contribution plan

⁽²⁾ For the 2019 and later valuations, a contribution percentage is not computed because the Retirement System is closed.

⁽²⁾ Beginning FY2018, covered payroll is not disclosed

Required Supplementary Information (Continued)

Schedules of Investment Returns

Pension Benefits

Fiscal Years Ending September 30,	Annual Return*
2014	9.76 %
2015	(4.61)
2016	8.58
2017	12.44
2018	6.58
2019	2.30
2020	5.39

^{*} Annual money-weighted rate of return, net of investment expenses

Other Postemployment Benefits

Fiscal Years Ending	Annual
September 30,	Return*
	-
2017	14.87 %
2018	10.34
2019	6.74
2020	8.60

^{*} Annual money-weighted rate of return, net of investment expenses

NOTE A - DESCRIPTION

Ten-year historical trend information designed to provide information about the System's progress in accumulating sufficient assets to pay benefits when due is presented in the preceding schedules. Other ten-year historical trend information related to the System is presented in the Statistical and Actuarial sections of the report. This information is presented to enable the interested parties to assess the progress made by the System in accumulating sufficient assets to pay pension benefits and other postemployment benefits as they become due. In accordance with GASB Statement No. 67, seven years of historical trend information is provided. Also, in accordance with GASB 74, four years of historical trend information is provided.

The comparability of trend information is affected by changes in actuarial assumptions, benefit provisions, actuarial funding methods, accounting policies, and other changes. Those changes usually affect trends in contribution requirements and in ratios that use the pension benefit and OPEB obligations as a factor. A change in actuarial assumption, beginning with fiscal year ending September 30, 2018, was made to use the RP-2014 Mortality Table scaled by 100% and adjusted for mortality improvements using projection scale MP-2017 from 2006.

The Schedule of Contributions is reported as historical trend information. The schedule is presented to show the responsibility of the State in meeting the actuarial requirements to maintain the System on a sound financial basis.

The Schedule of Changes in Net Pension Liability, Schedule of Contributions, and Schedule of Investment Returns are schedules that are required in implementing GASB Statement No. 67. The Schedule of Changes in Net OPEB Liability, Schedule of Contributions, and Schedule of Investment Returns are schedules that are required in implementing GASB Statement No. 74. These schedules are required to show information for ten years. Additional years will be displayed as it becomes available. The Schedule of Changes in Net Pension Liability and the Schedule of Changes in Net OPEB Liability represents in actuarial terms, the accrued liability less the fair value of assets. The Schedule of Contributions is a comparison of the employer's contributions to the actuarially determined contributions. The Schedule of Investment Returns represents a money-weighted rate of return that expresses investment performances, net of investment expense, adjusted for the changing amounts actually invested.

Required Supplementary Information (Continued)

The information presented in the Schedule of Contributions was used in the actuarial valuation for the purposes of determining actuarially determined contribution rate. Additional information as of the latest actuarial valuation for the pension plan follows:

Valuation Date: Actuarially determined rates are calculated as of September 30, each year, which is 1 day prior to the beginning of the fiscal year in which contributions are reported.

Methods and Assumptions Used to Determine Pension Contribution Rates:

Valuation Date September 30, 2019
Actuarial Cost Method Entry-Age Normal
Amortization Method Level Dollar
Remaining Amortization Period 10-Years Open

Asset Valuation Method 5-Year Smoothed Market

Wage Inflation 4%

Actuarial Assumptions:

Investment Rate of Return 7% Projected Salary Increases 4%

Cost-of-living Adjustments 4% Annual Compounded (non-compounded for legislators

who first became members after 1/1/95)

Retirement Age Age-based table of rates with 100% probability of retirement

once a member is subject to term limits

Mortality The RP-2014 Healthy Annuitant Generational Mortality Tables, extended

via cubic spline. This table is adjusted backwards to 2006 with the MP-2014 scale, resulting in a base year of 2006 with future mortality

improvements assumed each year using scale MP-2017.

Methods and Assumptions Used to Determine Other Postemployment Contribution Rates:

Valuation Date September 30, 2019
Actuarial Cost Method Projected Unit Credit
Amortization Method Level Dollar Closed
Remaining Amortization Period 21 Years Closed
Asset Valuation Method Fair Value

Actuarial Assumptions:

Investment Rate of Return 4%
Wage Inflation 4%
Projected Salary Increases 4%

Healthcare Cost Trend Rate 8.25% in 2020, grading to 3.5% in 2029

Retirement Age Age-based table of rates with 100% probability of retirement

once a member is subject to term limits

Mortality The RP-2014 Healthy Annuitant Generational Mortality Tables, extended

via cubic spline. This table is adjusted backwards to 2006 with the MP-2014 scale, resulting in a base year of 2006 with future mortality

improvements assumed each year using scale MP-2017.

Excise Tax No load was applied to the health care liabilities of current retirees or

future retirees to approximate the cost for future excise tax

Aging Factors Based on the 2013 SOA Study "Health Care Costs – From Birth to Death"

Note: Actuarial assumptions are periodically reviewed and modified, if needed, upon the recommendation

of the actuary, and with approval of the board.

Supporting Schedules

Summary Schedule of Administrative Expenses For Year Ended September 30, 2020

Personnel services	\$	349,219
Actuarial services		68,710
Audit		31,000
Attorney & other professional services		173
Postage, telephone and other		56,595
	·	
Total Administrative Expenses	\$	505,696

Schedule of Investment Expenses* For Year Ended September 30, 2020

Management fees	\$ 251,287
State Treasurer and custody fees	20,108
Other investment expenses	 92,767
Total Investment Expenses	\$ 364,161

^{*}Mutual fund management fees are netted againt returns earned.

Schedule of Payments to Consultants For Year Ended September 30, 2020

Auditor General	\$ 31,000
Dykema Gossett	173
Fund Evaluation Group	92,767
Gabriel Roeder	 68,710
Total Payments to Consultants	\$ 192,650

Supporting Schedules (Continued)

Detail of Changes in Plan Fiduciary Net Position (Pension and Other Postemployment Benefits) For Year Ended September 30, 2020

	Member Savings Fund	Member Retirement Fund	Survivors Retirement Fund	Insurance Revolving Fund	Health Insurance Fund	Income Fund	Total
ADDITIONS					,		
Member contributions:							
Other member contributions	\$	\$	\$	\$ 1,123	\$	\$	\$ 1,123
Employer contributions					4,120,900		4,120,900
Court fees					516,899		516,899
Other governmental contributions					240,272		240,272
Total contributions:				1,123	4,878,071		4,879,194
Investment income (loss)							
Net increase (decrease) in fair							
value of investments					1,086,830	4,463,009	5,549,839
Interest, dividends and other			·		566,407	2,465,404	 3,031,811
Total investment income (loss)					1,653,237	6,928,413	8,581,650
Less investment expenses					(71,314)	(292,847)	(364,161)
Net investment income (loss)					1,581,923	6,635,565	8,217,488
Miscellaneous income			6,733		1,061,764		1,068,497
Total additions:			6,733	1,123	7,521,757	6,635,565	 14,165,179
DEDUCTIONS							
Benefits & refunds paid to plan membe	rs & beneficiaries:						
Retirement benefits		11,709,039	2,521,200				14,230,239
Health benefits					5,494,948		5,494,948
Dental benefits					341,390		341,390
Death benefits				390,000			390,000
Refund of contribution & interest			34,924				34,924
Administrative expenses					99,031	406,665	505,696
Total deductions:		11,709,039	2,556,124	390,000	5,935,369	406,665	 20,997,197
Net increase (decrease) in net position		(11,709,039)	(2,549,390)	(388,877)	1,586,388	6,228,900	(6,832,019)
Other changes in net position:							
Interest/loss allocations	3,492	906,160	3,838,639	1,480,610		(6,228,900)	
Total other changes in net position	3,492	906,160	3,838,639	1,480,610		(6,228,900)	
Net increase (decrease) after changes	3,492	(10,802,880)	1,289,249	1,091,732	1,586,388		(6,832,019)
Net position restricted for pension ben	efits and OPEB:						
Beginning of Year:	87,294	17,788,909	75,356,676	29,065,983	29,782,171		 152,081,033
End of Year:	\$ 90,786	\$ 6,986,029	\$ 76,645,925	\$ 30,157,715	\$ 31,368,559	\$	\$ 145,249,014



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Michigan Legislative Retirement System

Comprehensive Annual Financial Report for the Fiscal Year Ended September 30, 2020

INVESTMENT SECTION



Report on Investment Activity
Asset Allocation
Investment Summary
List of Largest Assets Held
Schedule of Investment Fees
Schedule of Fees and Commissions

Report on Investment Activity

INTRODUCTION

The System's Board of Trustees is the investment fiduciary for the system in accordance with the law. Investment decisions, including investment policies and procedures, are subject to statutory regulations imposed by the Michigan Public Employee Retirement System Investment Act, Public Act 314 of 1965, as amended.

As the investment fiduciary for the system, the board's responsibilities include, but are not limited to: (1) establishing an investment policy and asset allocation for the System pension fund; (2) prudently selecting investment managers and consultants for the system, and (3) conducting periodic reviews to ensure that its policies are followed and that its investment professionals perform satisfactorily in accordance with established standards and goals.

The State Treasurer for the State of Michigan acts as the custodian for the System funds pursuant to state law, and the board has also contracted with independent investment advisors to assist with investment decisions and to manage the pension fund assets.

Fund Evaluation Group (FEG) is the investment advisor for the System and they monitor all the investments and the performance of the investments for both the pension and OPEB funds. The market review is prepared in its entirety by FEG. While the rest of the report of investment activity is prepared by the System, using information from FEG.

INVESTMENT OBJECTIVES

The System's primary investment objective is to provide a real rate of return, net of inflation, administrative and investment expenses, sufficient to support the system's ability to meet its obligations to plan participants and beneficiaries without undue exposure to risk. In absolute terms, this return objective should approximate the System's actuarial assumed rate of return, which is currently 7%. The System seeks to attain investment results over a full market cycle. It does not expect that all investment objectives will be attained in each year and recognizes that over various periods of time the System investment results may produce significant "over" or "under" performance relative to broad markets. For this reason, the board of trustees takes a LONG-TERM perspective and will measure quantitative investment returns over a 5-year moving period. Managers and other parties are also expected to meet qualitative performance objectives (adherence to its investment philosophy and System policies, continuity of firm personnel and practices, etc.) as established by the board.

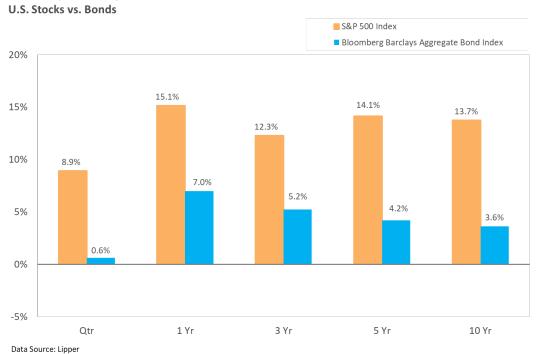
MARKET REVIEW

Twelve Months Ending September 30, 2020

The economy and markets experienced a roller coaster ride over the last 12 months. The global pandemic caused economies around the world to start shutting down during the first calendar quarter of 2020. In turn, the U.S. stock market entered a bear market in March, declining over 30% from its all-time high which represented one of the fastest bear market declines in history. With monetary and fiscal stimulus coming to the rescue, U.S. equity markets rebounded sharply during the second calendar quarter, marking one of the shortest bear markets in history. Performance for the Legislative Retirement System's (LRS) fiscal year (ended September 30, 2020) mirrored that of the global capital markets with extreme volatility. Within the equity markets, there were significant differences in returns as growth stocks outperformed value stocks, large capitalization stocks outperformed small capitalization stocks, and U.S. stocks outperformed non-U.S. stocks. LRS' large cap growth manager not only participated in this performance pattern but added value relative to its benchmark and peers. However, performance was offset by value and smaller capitalization equity managers. (See chart on top of page 51)

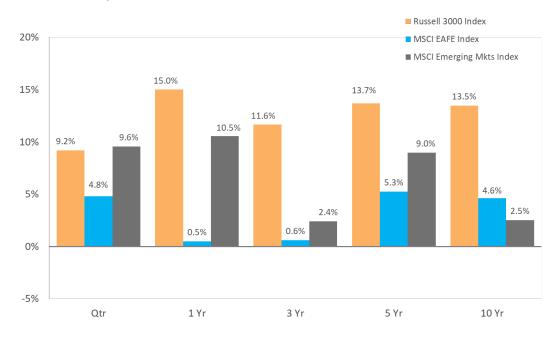
Report on Investment Activity (Continued)

MARKET REVIEW (continued)



International equity stocks, particularly those in developed markets, continued to lag U.S. stocks. Technology companies, which are more prominent in U.S. stock market indices, survived and even thrived during the economic shutdown, propelling U.S. growth stocks well above other parts of the global equity market. While most of the LRS international equity managers performed well on a relative basis during the fiscal year, they did not keep pace with the broad U.S. stock market.

U.S. and Non-U.S. Equities

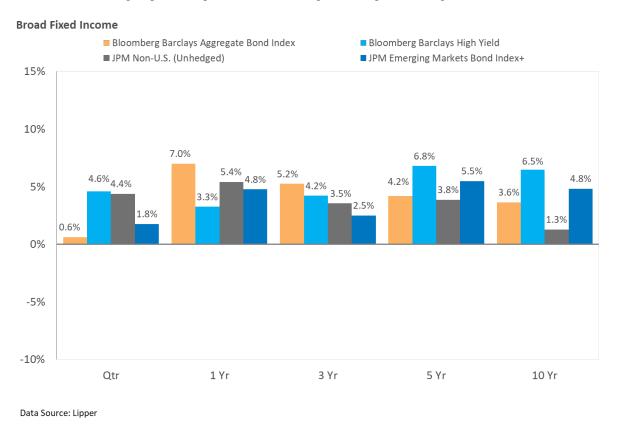


Data Source: Lipper

Report on Investment Activity (Continued)

MARKET REVIEW (continued)

Learning from the 2008 Global Financial Crisis, the Federal Reserve responded quickly to the market downturn and economic shutdown. In late March, the federal funds rate was quickly lowered to a range of 0.00%-0.25%, coupled with significant bond purchases by the Federal Reserve. This activity, along with other measures of quantitative easing, caused investment grade interest rates to decline and high quality bond prices to rise. (e.g., Bloomberg Barclays Aggregate Bond Index, see chart below). The LRS fixed income managers produced positive results during this time period, though mixed results on a relative basis.



During this volatile fiscal year ending September 30, 2020, including double digit losses in the second fiscal quarter, the Legislative Retirement System produced a positive return of 5.7% net-of-fees. Over longer time periods, the LRS portfolio returned 7.3% (net of fees) over five years and 7.5% (net of fees) over ten years. For comparison, the actuarially assumed rate-of-return is 7.0%. At the same time, the LRS portfolio has exceeded its market benchmark over several of the historical time periods.

The LRS portfolio remains well-diversified and positioned to generate results under a wide variety of economic scenarios. The largest allocations within the portfolio continue to be domestic and non-U.S. equity investments combined with investment grade fixed. The portfolio includes allocations to real asset investments to offer inflation protection as well as non-traditional exposures to provide diversification to the total portfolio.

The LRS Trustees continued to meet on a regular basis to discuss markets, investment managers, and portfolio positioning. The Trustees engaged in extra correspondence during the market downturn to discuss asset allocation and portfolio positioning. The portfolio was rebalanced using fixed income investments to fund benefit payments until the markets recovered. One equity manager was replaced during the last fiscal quarter. It is expected that modest changes will be implemented during fiscal year 2021 to further refine the portfolio.

Report on Investment Activity (Continued)

Schedule of Investment Results

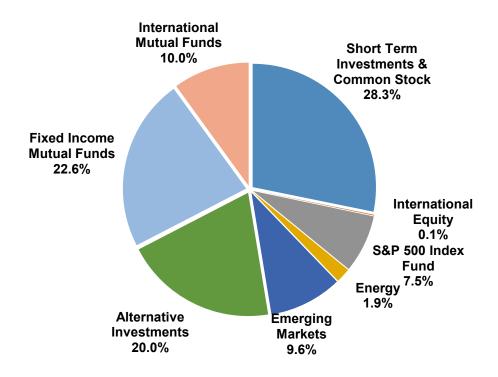
for period ending September 30, 2020

		Annualized Rate of Return ¹				
Investment Category	Current Year	3 years	5 years	7 years	10 years 7.5 %	
Total Portfolio	5.7 %	5.0 %	7.3 %	5.8 %		
Large Cap Equity Managers						
Wellington	43.0	27.1	22.9	19.6	18.5	
Russell 1000 Growth Index	37.5	21.7	20.1	17.4	17.3	
Barrow, Hanley, Mewhinney & Strauss	(8.9)	2.6	7.0	6.6	9.3	
Russell 1000 Value Index	(5.0)	2.6	7.7	7.4	9.9	
Fidelity 500 Index	15.1					
S&P 500 Index	15.1					
Small Cap Equity Managers						
Wasatch Core Growth Fund						
Russell 2000 Growth Index						
Cramer Rosenthal McGlynn	(23.9)	(7.2)	2.8	2.9	6.6	
Russell 1000 Value Index	(14.9)	(5.1)	4.1	3.3	7.1	
Russell 2000 Index	0.4	1.8	8.0	6.4	9.9	
International Equity Managers						
EuroPacific Growth	14.5	5.3	8.7	6.3	6.4	
Fidelity Total International Index	3.7					
MSCI AC World Index	3.0	1.2	6.2	3.2	4.0	
DFA Emerging Markets Fund	4.9					
RWC Emerging Markets Equity Fund	10.8					
MSCI Emerging Markets Index	10.5					
Fixed Income Managers						
Dodge & Cox Income Fund	7.7	5.5	5.2			
DoubleLine Total Return Bond Fund	3.5	3.8	3.3	3.7		
Bloomberg Barclays US Aggregate Ind	7.0	5.2	4.2	4.0		
Natural Resources Managers						
Tortoise MLP & Pipeline Fund	(41.2)					
Alerian MLP Index	(34.8)					
PIMCO Inflation Response	4.6					
PIMCO IRMAF Benchmark	3.1					
Hedge Fund Manager						
Ironwood International Ltd	9.6	6.0	5.2	5.8	6.3	
HFRI FOF: Conservative Index	2.1	2.3	2.4	2.6	2.6	
Bloomberg Barclays US Aggregate Inde	22 7.0	5.2	4.2	4.0	3.6	

¹ Calculations used a time-weighted net-of-fees total return based on the market rate of return in accordanace with industry standards

Asset Allocation

As of September 30, 2020



Investment Summary

As of September 30, 2020

Investment Category	Fair Value	Percentages of Fair Value	Percentages of Income/ (Loss)	Fiscal Year Income/(Loss)**	
Short Term Investments*					
& Common Stocks	\$ 41,067,545	28.3 %	60.8 %	\$ 5,218,171	
International Equity	142,874	0.1	1.2	104,627	
S&P 500 Index Fund	10,965,572	7.5	5.5	473,982	
Energy	2,809,540	1.9	2.2	190,250	
Emerging Markets	13,888,227	9.6	1.6	136,029	
Alternative Investments	29,073,544	20.0	12.3	1,052,999	
Fixed Income Mutual Funds	32,774,690	22.6	12.1	1,039,068	
International Mutual Funds	14,557,541	10.0	4.3	366,525	
Total Investments	\$ 145,279,533	100.0 %	100.0 %	\$ 8,581,650	

 $[\]boldsymbol{\ast}$ Short Term Investments are equity in the State Treasurer's Common Cash Fund.

^{**}Includes realized/unrealized gains and losses.

Largest Assets Held

Largest Stock Holdings (By Fair Value) September 30, 2020

Rank Shares		Stocks	Fair Value
1	11,480	APPLE INC	\$ 1,329,499
2	,	MICROSOFT CORP	1,314,983
3	372	AMAZON.COM INC	1,171,328
4	398	ALPHABET INC-CL C	584,901
5	1,683	UNITEDHEALTH GROUP	524,709
6	1,968	FACEBOOK INC-A	515,419
7	2,877	LOWE'S COS INC	477,179
8	2,297	PAYPAL HOLDINGS IN	452,578
9	1,330	MASTERCARD INC-CLA	449,766
10	2,761	ADVANCE AUTO PARTS	423,814

A complete list of stock holdings is available from the System.

Schedule of Investment Fees

Schedule of Investment Fees at September 30, 2020

Investment Managers Fees*:

	Assets under Management	<u>Fees</u>
Barrow Hanley Mewhinney & Strauss	\$12,200,449	\$ 84,376
Cramer Rosenthal McGlynn	5,938,750	62,869
Rice Hall James	0	22,282
Wellington	14,866,597	81,760
		251,287
Other Investment Fees		
State Treasurer		20,108
Fund Evaluation Group		92,767
		112,875
	TOTAL	\$ 364,161

^{*}Europacific Growth Fund, Fidelity, Ironwood International Ltd., PIMCO, DFA, RWC, Dodge & Cox, DoubleLine Tortoise and Wasatch management fees are netted against return earned by mutual fund money managers.

Schedule of Fees and Commissions

	Fiscal Year Ended September 30, 2020				
	Shares	Total Value	Average Commission		
Investment Broker Name	Traded	of Commissions	Per Share		
ABEL NOSER	14,293	571.72	0.04		
ABEL NOSER CORP	3,255	130.20	0.04		
ALLEN & COMPANY LLC	233	6.99	0.03		
BARCLAYS CAPITAL LE	10,971	380.58	0.03		
BMO CAPITAL MARKETS	4,320	129.60	0.03		
BOFA SECURITIES, INC.	20,686	693.66	0.03		
BTIG, LLC	6,460	162.47	0.03		
CANACCORD GENUITY INC.	371	11.13	0.03		
CANTOR FITZGERALD + CO.	9,135	228.29	0.02		
CITATION GROUP	5,752	133.64	0.02		
CITIGROUP GLOBAL MARKETS INC	7,452	288.55	0.04		
CJS SECURITIES INC	2,795	83.85	0.03		
CLSA AMERICAS	1,940	67.91	0.04		
CORNERSTONE MACRO LLC	1,521	53.25	0.04		
COWEN AND COMPANY, LLC	78,154	2,248.61	0.03		
CRAIG-HALLUM	848	25.44	0.03		
CREDIT SUISSE SECURITIES (USA) LLC	43,446	622.66	0.01		
DAIWA SECURITIES AMERICA INC	842	29.47	0.04		
DAVIDSON D.A. + COMPANY INC.	15,605	468.15	0.03		
DOUGHERTY & COMPANY LLC	3,380	101.40	0.03		
DOWLING & PARTNERS	164	5.74	0.04		
EVERCORE ISI	10,796	290.28	0.03		
FIRST ANALYSIS SECURITIES CORPORATION	1,300	39.00	0.03		
GOLDMAN SACHS + CO LLC	41,744	1,276.64	0.03		
GORDON HASKETT CAPITAL CORP	669	23.42	0.04		
HILLTOP SECURITIES INC	2,104	63.12	0.03		
INSTINET	17,886	291.43	0.02		
INVESTMENT TECHNOLOGY GROUP INC.	18,136	349.80	0.02		
J.P. MORGAN SECURITIES LLC	51,125	1,056.00	0.02		
JEFFERIES + COMPANY INC	10,415	276.37	0.03		
JMP SECURITIES	2,069	50.08	0.02		
JONEST RADING INSTITUTIONAL SERVICES LLC	36,395	982.30	0.03		
KEEFE BRUYETTE + WOODS INC	16,859	673.30	0.04		
KEYBANC CAPITAL MARKETS INC	7,461	241.53	0.03		
LIQUIDNET INC	93,857	2,620.09	0.03		
LUMINEX TRADING AND ANALYTICS LLC	1,497	7.50	0.01		
MACQUARIE SECURITIES (USA) INC	2,409	84.32	0.04		
MKM PARTNERS LLC	4,329	150.03	0.03		
MONNESS, CRESPI, HARDT & CO. INC	1,446	50.62	0.04		
MORGAN STANLEY CO INCORPORATED	27,094	641.81	0.02		
NATIONAL FINANCIAL SERVICES CORPORATION	5,389	161.67	0.03		
ATTENDED OF THE COLUMN AND A CO	42.00-	1 210 0 7	0.02		

43,995 1,319.85 0.03

NEEDHAM AND COMPANY LLC

Schedule of Fees and Commissions (Continued)

Fiscal	Year	Ended S	eptember	30, 2020
--------	------	---------	----------	----------

		Shares	Total Value	Average Commission
Investment Broker Name		Traded	of Commissions	Per Share
OPPENHEIMER + CO. INC.		3,935	155.31	0.04
PENSERRA SECURITIES		119,321	1,193.21	0.01
PERSHING LLC		654	19.62	0.03
PIPER JAFFRAY & CO.		81,134	1,389.15	0.02
RAYMOND JAMES AND ASSOCIATES INC		30,185	938.80	0.03
RBC CAPITAL MARKETS, LLC		70,098	806.52	0.01
ROBERT W. BAIRD CO.INCORPORATED		36,849	1,206.75	0.03
ROTH CAPITAL PARTNERS LLC		1,672	50.16	0.03
SANFORD C BERNSTEIN CO LLC		19,386	637.28	0.03
SCOTIA CAPITAL (USA) INC		912	18.66	0.02
SEAPORT GROUP SECURITIES, LLC		1,462	46.34	0.03
SIDOT I + COMPANY LLC		3,689	110.67	0.03
STATE STREET GLOBAL MARKETS, LLC		9,649	289.47	0.03
STEPHENSINC		492	18.64	0.04
STIFEL NICOLAUS + CO INC		73,941	2,224.43	0.03
STRATEGAS SECURITIES LLC		2,639	92.39	0.04
STUART FRANKEL + CO INC		120	1.20	0.01
SUNTRUST CAPITAL MARKETS, INC.		16,836	664.36	0.04
TELSEY ADVISORY GROUP		686	27.44	0.04
UBS SECURITIES LLC		27,602	866.01	0.03
VIRTU AMERICAS LLC		30,373	706.93	0.02
WALL STREET ACCESS		1,177	8.84	0.01
WEDBUSH MORGAN SECURITIES INC		3,545	109.37	0.03
WELLS FARGO SECURITIES, LLC		1,864	63.15	0.03
WILLIAM BLAIR & COMPANY L.L.C		14,152	434.11	0.03
WOLFE TRAHAN SECURITIES		7,312	230.78	0.03
	TOTALS	1,188,283	29,402.06	



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Michigan Legislative Retirement System

Comprehensive Annual Financial Report for the Fiscal Year Ended September 30, 2020

ACTUARIAL SECTION



Actuary's Certification
Summary of Actuarial Assumptions and Methods
Actuarial Valuation Data
Prioritized Solvency Test
Analysis of System Experience
Summary of Plan Provisions

Actuary's Certification



December 16, 2020

800.521.0498 | P: 248.799.9000 | www.grsconsulting.com

Board of Trustees Michigan Legislative Retirement System 124 North Capitol Avenue – Suite S0927 Lansing, Michigan 48933

Ladies and Gentlemen:

The basic financial objective of the Tier 1 Defined Benefit Plan of the Michigan Legislative Retirement System (MLRS) is to establish and receive contributions which, when combined with present assets and future investment return, will be sufficient to meet the financial obligations of the System to present and future benefit recipients.

The purpose of the September 30, 2019 annual actuarial valuations was to determine the contribution requirements for the fiscal year ending September 30, 2020 and to measure the System's funding progress. The valuations should not be relied upon for any other purpose. The valuation process develops employer contributions that are sufficient to fund any unfunded accrued liabilities over a reasonable period. The valuation was completed based upon population data, asset data and plan provisions in effect on September 30, 2019.

The valuation was based upon information provided by the System's administrative staff concerning System benefit provisions, financial transactions, and individual members, terminated members, retirees and beneficiaries. We checked the data for internal and year-to-year consistency, but did not audit the data. As a result, we do not assume responsibility for the accuracy or completeness of the data provided by the System's administrative staff. The accuracy summarizes and tabulates population data in order to analyze long-term trends. The System's external auditor audits the accuracial data annually.

Annual actuarial valuations are based upon assumptions regarding future activity in specific risk areas including the rate of investment return and payroll growth, eligibility for the various classes of benefits and longevity among retired lives. These assumptions are adopted by the Board of Trustees after considering the advice of the actuary and other professionals. Each actuarial valuation takes into account all prior differences between actual and assumed experience in each risk area and adjusts the contribution requirements as needed. Assets are valued according to a method that fully recognizes expected investment return, and recognizes unanticipated market return over a five-year period. The assumptions and the methods comply with the disclosure requirements of GASB Statement No. 67.

One Towne Square | Suite 800 | Southfield, Michigan 48076-3723

Actuary's Certification (Continued)

Board of Trustees Michigan Legislative Retirement System December 16, 2020 Page 2

The Michigan Legislative Retirement System is a closed plan consisting of only retired and inactive members. The primary assumptions which impact liabilities are the investment return and mortality assumptions. While there has not been a formal experience study performed in recent history, these assumptions are reviewed annually. All assumptions and methods comply with relevant actuarial standards of practice.

As of the valuation date, MLRS is 64.4% funded based upon the smoothed value of assets and 64.4% funded based upon market value.

The following schedules in the Actuarial Section of the CAFR were prepared based upon certain information presented in the previously mentioned funding valuation reports. MLRS Staff excerpted information from various schedules in the actuarial reports and tabulated it to produce the appropriate CAFR Schedule.

- Schedule of Active Member Pension Valuation Data
- Schedule of Changes in the Pension Retirement Rolls
- Priority Solvency Test Pension Benefits
- Analysis of System Experience Pension Benefits
- Schedule of Active Member OPEB Valuation Data
- Schedule of Changes in the OPEB Retirement Rolls
- Priority Solvency Test OPEB Benefits
- Analysis of System Experience OPEB Benefits

The current benefit structure is outlined in the Actuarial Section of the Comprehensive Annual Financial Report (CAFR). The following schedules in the Statistical Section were prepared based upon certain information presented in the previously mentioned funding valuation reports. MLRS Staff excerpted information from various schedules in the actuarial reports and tabulated it to produce the appropriate CAFR Schedule.

- Schedule of Funding Progress Pension Plan
- Schedule of Funding Progress Other Postemployment Benefit Plan

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.



Actuary's Certification (Continued)

Board of Trustees Michigan Legislative Retirement System December 16, 2020 Page 3

Based upon the results of the September 30, 2019 valuation, the actuarial liabilities are less than fully funded on a funding value of assets basis and market value of assets basis. It is most important that this plan receive contributions at least equal to the actuarial rates. Lower than recommended actual contributions will increase future required contributions or possibly lead to a depletion in fund assets.

The signing actuaries are independent of the plan sponsor.

The actuarial valuation of the Michigan Legislative Retirement System as of September 30, 2019 was performed by qualified actuaries in accordance with standards of practice prescribed by the Actuarial Standards Board and in compliance with applicable State statutes. The assumptions and methods used for funding and financial reporting purposes are in conformity with the Actuarial Standards of Practice issued by the Actuarial Standards Board. Mark Buis and Francois Pieterse are Members of the American Academy of Actuaries (MAAA), are independent of the plan sponsor and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. It is our opinion that the calculated employer contribution meets the financial objective of the Retirement System.

Respectfully submitted,

Mark Buis, FSA, EA, FCA, MAAA

Francois Pieterse, ASA, FCA, MAAA

MB/FP:ah



Summary of Actuarial Assumptions and Methods

- 1. The investment return rate used in making the valuations was 7% per year, compounded annually. This rate of return is not the assumed real rate of return. The real rate of return is the rate of investment return in excess of the inflation rate. Considering other financial assumptions, this 7% investment return rate translates to an assumed real rate of return of 3%. Adopted 1987.
- 2. The mortality table used in evaluating allowances to be paid was the RP-2014 tables, as extended, and includes a margin for future mortality improvement projected using a fully generational improvement scale. These rates were first used for the September 30, 2018 valuation.
- 3. Sample probabilities of retirement with an age and service allowance are shown in Schedule 1. Adopted 1987.
- 4. Sample probabilities of withdrawal from service and disability, together with individual pay increase assumptions, are shown in Schedule 2. Adopted 1993, 1979, and 1987, respectively.
- 5. Total active member payroll is assumed to increase 4% per year. This represents the portion of the individual pay increase assumptions attributable to inflation.
- 6. An individual entry age actuarial cost method of valuation was used in determining age and service allowance actuarial liabilities and normal cost. Adopted 1987. Unfunded actuarial accrued liabilities, including actuarial gains and losses, are financed over a period of 10 years.
- 7. Effective for the September 30, 1993 valuation, valuation assets were equal to valuation assets (prior method) as of September 30, 1992, with subsequent differences between total investment income (actuarial assumption) being spread over a five (5) year period.
- 8. Member data and asset information was furnished by the System's administrative staff. Although examined for general reasonableness, the data was not audited by the actuary.
- 9. The actuarial valuation computations were made by or under the supervision of a Member of the American Academy of Actuaries (MAAA). The assumptions used in the actuarial valuations were adopted by the board of trustees after consulting with the actuary.
- 10. Beginning fiscal year 2011, the System board approved using the prior year actuarial report for the System current year comprehensive annual financial report.

Summary of Actuarial Assumptions and Methods (Continued)

SCHEDULE 1

Retirement <u>Ages</u>	Percent of Eligible Active Members <u>Retiring Within Next Year</u>			
50	10 %			
52	10			
55	10			
58	10			
61	10			
64	10			
67	10			
70	100			

SCHEDULE 2

Separation From Active Employment Before Age & Service Retirement & Individual Pay Increase Assumptions

Years of Service#	Members V	of Active Vithdrawing <u>Next Year</u>	Sample <u>Ages</u>	Percent Members <u>Disabled Wi</u> t	Percent Increase In Pay During <u>Next Year</u>	
	House	Senate		<u>Men</u>	<u>Women</u>	
0	6 %	6 %	25	0.08 %	0.10 %	4 %
1	6	6	35	0.08	0.10	4
2	6	6	40	0.20	0.36	4
3	6	6	45	0.27	0.41	4
4	6	6	50	0.49	0.57	4
5	4	4	55	0.89	0.77	4
6	100	4	60	1.41	1.02	4
7		4	65	1.66	1.23	4
8		100				

[#] Years after 1992, for persons who were members on December 31, 1992

Actuarial Valuation Data

Schedule of Active Member Pension Valuation Data

Valuation Date		Reported Annual		Average Annual	% Increase	Average	Average
Sept. 30	Number		Payroll	Pay	(Decrease)	Age	Service
2010	14	\$	1,173,100	\$ 83,793	1.8%	59.6	14.6
2011	2		143,370	71,685	(14.4)	57.2	9.6
2012	1		71,685	71,685	0.0	52.3	9.8
2013	1		71,685	71,685	0.0	53.3	10.8
2014	1		71,685	71,685	0.0	54.3	11.8
2015	1		71,685	71,685	0.0	55.3	12.8
2016	1		71,685	71,685	0.0	56.3	13.8
2017	1		71,685	71,685	0.0	57.3	14.8
2018	1		71,685	71,685	0.0	58.3	15.8
2019	0		0	0	0.0	0	0

Schedule of Active Member OPEB Valuation Data

Valuation]	Reported	Average	%			
Date			Annual	Annual	Increase	Average	Average	
Sept. 30	Number		Payroll	Pay	(Decrease)	Age	Service	
2012	48	\$	3,515,187	\$ 73,233	%	52.6	7.7	
2013	44		3,240,447	73,647	0.6	52.9	8.6	
2014	34		2,497,497	73,456	(0.3)	53.4	10.2	
2015	24		1,733,547	72,231	(1.7)	52.2	10.5	
2016	23		1,661,862	72,255	0.0	53.7	11.4	
2017	23		1,661,862	72,255	0.0	54.7	12.4	
2018	24		1,733,547	72,231	0.0	56.3	13.2	
2019	3		215,055	71,685	(0.8)	57.6	10.1	

Actuarial Valuation Data (Continued)

Schedule of Changes in the Pension Retirement Rolls

Year Ended	Ended Annual			Removed from Rolls Annual		End of Year Annual	% Increase in Annual	Average Annual
<u>Sept. 30</u>	<u>No</u> .	Allowances	<u>No.</u>	<u>Allowances</u>	<u>No.</u>	Allowances	<u>Allowances</u>	Allowances
2010	8	\$ 629,090	8	\$ 286,285	288	\$11,195,853	3.2%	\$ 38,874
2011	22	1,279,764	10	300,085	300	12,175,532	8.8	40,585
2012	8	752,346	15	428,828	293	12,499,050	2.7	42,659
2013	5	631,881	8	278,216	290	12,852,715	2.8	44,320
2014	4	594,824	10	364,336	284	13,083,203	1.8	46,068
2015	5	723,413	10	391,953	279	13,414,663	2.5	48,081
2016	5	656,260	13	735,829	271	13,335,094	(0.6)	49,207
2017	13	803,468	15	540,339	269	13,598,223	2.0	50,551
2018	10	834,312	17	689,748	262	13,742,787	1.1	52,453
2019	5	729,809	8	386,757	259	14,085,839	2.5	54,385

Schedule of Changes in the OPEB Retirement Rolls

		ed to Rolls	Removed from Rolls		Rolls-	End of Year	% Increase	Average	
Ended Sept. 30	<u>No</u> .	Annual <u>Allowances</u>	<u>No.</u>	Annual <u>Allowances</u>	<u>No.</u>	Annual <u>Allowances</u>	in Annual <u>Allowances</u>	Annual <u>Allowances</u>	
2011					356	\$ 5,225,619			
2012	18	\$ 175,876	12	\$ 415,990	362	4,979,441	(4.6) %	\$ 13,755	
2013	16	381,825	9	61,892	369	5,299,374	6.4	14,361	
2014	8	71,424	15	149,945	362	5,220,853	(1.5)	14,422	
2015	16	514,854	14	163,980	364	5,571,727	6.7	15,307	
2016	8	162,321	13	159,096	359	5,574,952	0.1	15,529	
2017	16	904,549	17	247,893	358	6,231,608	11.8	17,407	
2018	11	226,851	16	129,730	356	6,328,729	1.6	17,778	
2019	17	157,370	13	485,372	360	6,000,727	(5.2)	16,669	

Prioritized Solvency Test

The System's funding objective is to meet long-term benefit promises through contributions that remain approximately level from year to year as a percent of member payroll. If the contributions to the System are level in concept and soundly executed, the System will pay all promised benefits when due -- the ultimate test of financial soundness. Testing for level contribution rates is the long-term solvency test.

A prioritized solvency test is another means of checking a system's progress under its funding program. In a short condition test, the plan's present assets (cash and investments) are compared with: (1) liability for active member contributions on deposit; (2) the liabilities for future benefits to present retired lives; and (3) the liabilities for service already rendered by active members. In a system that has been following the discipline of level percent of payroll financing, the liabilities for active member contributions on deposit (liability 1) and the liabilities for future benefits to present retired lives (liability 2) will be fully covered by present assets (except in rare circumstances). In addition, the liabilities for service already rendered by active members (liability 3) is normally partially covered by the remainder of present assets. Generally, if the System has been using level-cost financing, the funded portion of liability 3 will increase over time. Liability 3 being fully funded is not necessarily a byproduct of level percent of payroll funding methods.

The schedule below illustrates the history of the liabilities of the System and is indicative of the System's policy of following the discipline of level percent of payroll financing.

Pension Benefits (\$ in thousands)

		Actuarial Accrued Liability (AAL)										
		(1)		(2)		(3)						
Valuation Date	Active R Member Contributions Ben		Active Members Retirants (Employer and Financed		Va	aluation	Portic	on of AAL Co	overed by As	sets		
Sept. 30			Beneficiaries		Portion)			Assets	(1)	(2)	(3)	(4) ¹
2010	\$	1,280	\$	151,675	\$	19,739	\$	158,982	100 %	100 %	30 %	92 %
2011		659		171,022		10,165		149,940	100	87	0	83
2012		587		171,388		8,491		136,916	100	80	0	76
2013		500		172,877		7,532		134,932	100	78	0	75
2014		446		185,067		7,249		135,767	100	73	0	70
2015		284		186,103		6,255		134,049	100	72	0	70
2016		236		184,070		5,918		132,976	100	72	0	70
2017		152		184,169		4,450		128,919	100	70	0	68
2018		102		186,251		3,840		122,261	100	66	0	64
2019		87		187,284		2,412		122,266	100	65	0	64

¹percents funded on a total valuation asset and total actuarial accrued liability basis

Actuarial Accrued Liability (AAL)

Prioritized Solvency Test (Continued)

Other Postemployment Benefits (\$ in thousands)

		Actuar	ial A	ccrued Lia	bility	(AAL)							
		(1)		(2)		(3)							
Valuation Date	Active Member Contributions				Active Members (Employer Financed Portion)		Valuation Assets		Portion of AAL Covered by Assets				
Sept. 30									(1)	(2)	(3)	(4) ¹	
2010	\$	_	\$	86,786	\$	68,473	\$	15,886	0 %	18 %	0 %	10 %	
2011		-		92,385		48,311		15,179	0	16	0	11	
2012		-		98,511		46,650		20,825	0	21	0	14	
2013		-		103,824		49,842		22,806	0	22	0	15	
2014		-		109,400		49,169		23,625	0	22	0	15	
2015		_		123,962		50,602		21,840	0	18	0	13	
2016		-		132,404		51,821		22,942	0	17	0	13	
2017		-		136,308		52,683		24,507	0	18	0	13	
2018		-		119,220		46,311		24,928	0	21	0	15	
2019		-		106,669		34,865		29,782	0	28	0	21	

¹percents funded on a total valuation asset and total actuarial accrued liability basis

Analysis of System Experience

Pension Benefits

Gains/Losses in Accrued Liabilities During Year Ended September 30, 2019 Resulting from Differences Between Assumed Experience & Actual Experience

	Type of Activity	 Gain/(Loss)
1.	Retirements (including Disability Retirement). If members retire at older ages or with lower final average pay than assumed, there is a gain. If younger ages or higher average pays, a loss.	\$
2.	Withdrawals From Employment. (including death-in-service) If more liabilities are released by withdrawals and deaths than assumed, there is a gain. If smaller releases, a loss.	
3.	Pay Increases. If there are smaller pay increases than assumed, there is a gain. If greater increases, a loss.	
4.	Investment Income. If there is greater investment income than assumed, there is a gain. If less income, a loss.	(2,274,736)
5.	Death After Retirement. If retirants live longer than assumed, there is a loss. Of not as long, a gain.	(994,039)
6.	New Entrants/Rehires.	
7.	Other. Miscellaneous gains and losses resulting from data adjustments, timing of financial transactions, etc.	 92,104
8.	Composite Gain (or Loss) During Year	\$ (3,176,671)

Analysis of System Experience (Continued)

OPEB Benefits

Gains/Losses in Accrued Liabilities During Year Ended September 30, 2019
Resulting from Differences Between Assumed Experience & Actual Experience

A. Derivation of Actuarial Gain/(Loss):

	1. The first distribution of the latter (UAAT). Described Webster	¢	1.40.602.002
	1. Unfunded Actuarial Accrued Liability (UAAL) - Previous Valuation	\$	140,603,093
	2. Total Normal Cost (employer plus member) for Year Ending 9/30/2018		632,040
	3. Total Contributions (employer plus member) for Year Ending 9/30/2018		9,446,757
	4. Interest on:		
	a. UAAL: .04 x(1)		5,624,124
	b. Normal Cost and Contributions: .04 x [(2) - (3)]		(176,294)
	c. Net Total: (a) + (b)		5,447,830
	5. Change in UAAL due to Benefit Changes		-
	6. Change in UAAL due to Assumptions/Methods (i.e., Trend/Discount Rate)		(6,375,659)
	7. Expected UAAL Current Year:		
	(1) + (2) - (3) + (4c) + (5) + (6)		130,860,547
	8. Actual UAAL Current Year		111,751,418
	9. Experience Gain/(Loss): (7) - (8)		19,109,129
B.	Approximate Portion of Gain/(Loss) due to Investments		74,425
C.	Approximate Portion of Gain/(Loss) due to Liabilities: (A.9) - (B)		19,034,704

	Type of Activity	Gain/(Loss)		
1.	Premiums. Gains and losses resulting from actual premiums in valuation year versus that assumed from prior valuation	\$	19,181,599	
2.	Investment Income. If there is greater investment income than assumed, there is a gain. If less income, a loss.		74,425	
3.	Demographic and Other. Gains and losses resulting from demographic experience, data adjustments, timing of financial transactions, etc.		(146,895)	
4.	Composite Gain/(Loss) During Year.	\$	19,109,129	

Summary Of Plan Provisions

Membership

Legislators who first become legislators after March 30, 1997, will *not* be members of the Tier 1 defined benefit plan. This summary of benefits applies only to persons who first became legislators on or before March 30, 1997, and who did not elect to transfer to Tier 2, the defined contribution plan.

Term Limits

For terms of office beginning on or after January 1, 1993, no person shall be elected to the House of Representatives (House) more than three (3) times and no person shall be elected to the Senate more than two (2) times. With the exception of persons who fill vacancies for partial terms and persons who serve in both the House and the Senate, the normal service limits are:

House - 6 years (three 2-year terms) Senate - 8 years (two 4-year terms)

Regular Retirement

Eligibility - At least age 50 with age plus service equal to or exceeding 70; or at least age 55 with 5 or more years service if seated either: a) 3 times in the House or b) 2 times in the Senate or c) 1 time in the House and 1 time in the Senate.

Annual Amount - Persons who first became members on or before January 1, 1995: 20% of the highest salary earned for the first 5 years of service, plus 4% of highest salary for each of the next 11 years of service, plus 1% of highest salary for each additional year of service.

Persons who first became members after January 1, 1995: 3% of highest salary for each year of service.

Deferred Retirement (Vested Benefit)

Eligibility - 5 or more years of service if seated either: a) 3 times in the House or b) 2 times in the Senate or c) 1 time in the House and 1 time in the Senate. Benefit begins at age 55 (as early as age 50 if age plus service equals or exceeds 70). Member may delay commencement of benefits to an age not greater than age 70-1/2.

Annual Amount - Computed as regular retirement benefit based on service and highest salary at termination. For persons who first became members on or before January 1, 1995, the benefit is increased 4% annually (compounded) between termination of membership and the earlier of a) benefit commencement or b) age 55. Benefits delayed beyond age 55 are actuarially equivalent to the age 55 benefit.

Disability Retirement

Eligibility - Disability before becoming eligible to retire or during a benefit deferral period.

Annual Amount - Computed as a regular retirement benefit based on service and highest salary at time of disability.

Summary Of Plan Provisions (Continued)

Death Benefit

Eligibility - 5 or more years of service if seated either: a) 3 times in the House or b) 2 times in the Senate or c) 1 time in the House and 1 time in the Senate. Benefit is paid immediately.

Annual Amount - Surviving spouse receives 66 2/3% of the retirement allowance earned as of the date of death of the member. If there are eligible dependent children in his or her care, the surviving spouse receives 75% of the retirement allowance earned as of the date of death until the children are no longer dependent, at which time 66-2/3% then becomes payable. Special conditions apply if there is no surviving spouse, or if the eligible children are not under the care of the surviving spouse.

Post-Retirement Cost-of-Living Adjustments

The annual retirement allowance payable to a retirant or survivor is increased by 4% per year, compounded annually (non-compounded for persons first becoming members after January 1, 1995), each January 1.

Life Insurance

Life insurance coverage is provided from the Insurance Revolving Fund for active members, retirants, and deferred vested members. Coverage varies from \$2,500 to \$150,000 depending on premium payments, board policy, and statutory provisions in place at deferral and/or retirement.

Post-Retirement Health Insurance

Hospital, medical, and dental insurance shall be provided from the Health Insurance Fund for retirants, deferred vested members who first became members on or before January 1, 1995, and their survivors, and to the spouses and eligible children of retirants and of deferred vested members who first became members on or before January 1, 1995.

In addition, the System provides health insurance coverage to eligible former legislators who belong to the State's Defined Contribution Plan (Tier 2).

Member Contributions

For members who first became a member on or before January 1, 1995: 9% of annual salary to the Health Insurance Fund.

For members who first became a member after January 1, 1995: 7% of annual salary to the Health Insurance Fund.

Michigan Legislative Retirement System

Comprehensive Annual Financial Report for the Fiscal Year Ended September 30, 2020

STATISTICAL SECTION



Schedule of Revenue by Source
Schedule of Expenses by Type
Schedule of Benefit Expenses by Type
Schedules of Changes in Net Position
Schedules of Benefit and Refund Deductions from Net Position by Type
Schedule of Retired Members by Type of Benefit
Schedule of Funding Progress
Actuarial Value of Assets compared to Actuarial Accrued Liability
Schedule of Average Benefit Payments

Narrative Explanation to Statistical Section

The intention of this narrative description is to explain the System's financial and operating trends of the schedules in the statistical section. It is important that this section be written clearly and accurately to help improve the understandability and usefulness of the statistical information. The statistical section contains the following schedules:

Schedule of Revenue By Source - Pension Plan and Other Postemployment Benefit Plan (OPEB)

Schedule of Expenses By Type - Pension Plan and OPEB

Schedule of Benefit Expenses By Type - Pension Plan and OPEB

Schedule of Changes in Fiduciary Net Position - Pension Plan

Schedule of Changes in Fiduciary Net Position - OPEB

Schedule of Benefit and Refund Deductions from Net Position by Type – Pension Plan

Schedule of Benefit and Refund Deductions from Net Position by Type – OPEB

These schedules are a ten (10) year comparison of the Statement of Changes in Pension Plan and Postemployment Benefits Fiduciary Net Position found in the Financial Section of this report. This is to provide a longer time period for reference and show possible trends.

Schedule of Retired Members by Type of Benefit - Pension Plan

Schedule of Retired Members by Type of Benefit – OPEB

This schedule is to show the average amount of benefits. It is broken out by amount and type to show possible trends.

Schedule of Funding Progress – Pension Plan

Schedule of Funding Progress - OPEB Plan

This schedule is to show the System funding status on a going-concern basis. Analysis of this percentage over time indicates whether the system is becoming financially stronger or weaker. This schedule was in the financial section, but was replaced by the Net Pension Liability for the pension plan and Net OPEB Liability for the OPEB plan.

Actuarial Value of Pension Plan Assets compared to Actuarial Accrued Pension Plan Liability

Actuarial Value of OPEB Plan Assets compared to Actuarial Accrued OPEB Plan Liability

This is to show the trend of the actuarial value of assets compared to the actuarial accrued liability.

Schedule of Average Benefit Payments – Pension Plan

Schedule of Average Benefit Payments - OPEB

This schedule is to show the average amount of new benefits by years of service.

Schedule of Revenue By Source Pension Plan and Other Postemployment Benefit Plan

Fiscal Year Ended	Member Contributions	Employer Contributions	Other Governmental Contributions	Court Fees	Investment & Other Income(Loss)	Total
2011	\$114,663	\$3,287,900	\$880,159	\$999,609	\$ (1,160,783)	\$4,121,548
2012	99,322	6,887,400	255,590	952,922	29,197,705	37,392,939
2013	113,784	3,300,200	153,256	940,187	26,568,449	31,075,876
2014	123,791	3,451,900	167,078	871,481	17,256,085	21,870,335
2015	126,290	3,607,200	180,690	866,174	(6,908,086)	(2,127,732)
2016	135,739	3,733,500	207,065	804,133	13,785,524	18,665,961
2017	10,346	3,808,200	204,042	763,436	19,042,045	23,828,070
2018	7,450	3,884,400	270,673	772,640	10,886,576	15,821,738
2019	4,182	16,400,900	353,649	753,798	4,971,286	22,483,815
2020	1,123	4,120,900	240,272	516,899	9,285,985	14,165,179

Schedule of Expenses By Type Pension Plan and Other Postemployment Benefit Plan

Fiscal Year Ended	Benefits*	Refunds and Transfers	Administrative Expenses	Total
2011	\$17,819,328	\$11,496	\$510,858	\$18,341,682
2012	18,315,849	15,672	458,702	18,790,223
2013	18,704,799	11,700	439,791	19,156,290
2014	19,643,402	20,911	493,883	20,158,196
2015	19,905,147	724,352	427,768	21,057,267
2016	20,015,578	72,715	471,670	20,559,964
2017	20,589,553	35,618	460,807	21,085,978
2018	21,182,711	33,623	473,073	21,689,407
2019	20,293,738	-	485,861	20,779,600
2020	20,456,577	34,924	505,696	20,997,197

^{*} Includes health benefits

Schedule of Benefit Expenses by Type Pension Plan and Other Postemployment Benefit Plan

Fiscal Year Ended	Regular & Survivor Pension Benefits	Death Benefits	Dental Benefits	Health Benefits	Total
2011	\$11,974,289	\$140,000	\$448,263	\$5,256,776	\$17,819,328
2012	12,469,893	325,796	417,299	5,102,861	18,315,849
2013	12,757,228	134,000	417,115	5,396,456	18,704,799
2014	13,147,695	381,500	417,313	5,696,894	19,643,402
2015	13,394,276	376,678	409,246	5,724,946	19,905,147
2016	13,451,597	395,000	404,929	5,764,052	20,015,578
2017	13,639,606	607,000	390,630	5,952,317	20,589,553
2018	13,855,004	632,500	380,005	6,315,202	21,182,711
2019	14,008,685	121,280	371,898	5,791,875	20,293,738
2020	14,230,239	390,000	341,390	5,494,948	20,456,577

Schedule of Changes in Fiduciary Net Position - Pension Plan (Ten Years)

										Fisca	l Ye	ear								
		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020
Additions		· <u></u>																		
Member contributions	\$	10,343	\$	7,635	\$	6,527	\$	5,662	\$	3,226	\$	3,648	\$	3,895	\$	998	\$	2,445	\$	1,123
Employer contributions																		8,063,327		
Other Gov't contributions Court fees																				
Net Investment income		(1,001,060)		26,171,659		23,207,036		14,868,119		(6,545,332)		11,324,783		15,840,765		8,629,843		3,319,925		6,635,565
Other income		1		20,171,009		23,207,030		11,000,117		(0,0 10,002)		11,521,705		6,649		0,027,013		3,317,725		6,733
			_		_														_	
Total additions		(990,716)		26,179,294		23,213,563		14,873,781		(6,542,106)		11,328,431		15,851,309		8,630,841		11,385,697		6,643,422
Deductions																				
Benefit payments		12,114,289		12,795,689		12,891,228		13,529,195		13,770,955		13,846,597		14,246,606		14,487,504		14,129,965		14,620,239
Refunds		11,496		15,672		11,700		20,911		13,285		72,715		35,618		33,623				34,924
Qualified rollovers										711,067										
Administrative expenses		396,358		411,128		372,703		430,200	_	362,431		405,381		391,937		398,871		405,319		406,665
Total deductions		12,522,143		13,222,489	_	13,275,631		13,980,306	_	14,857,738		14,324,693		14,674,160		14,919,999		14,535,284	_	15,061,829
Changes in	e	(13,512,859)	•	12,956,805	¢	9,937,932	e	893,475	e	(21,399,844)	e	(2,996,262)	¢	1,177,149	e	(6,289,158)	¢	(3,149,587)	s	(8,418,407)
Net position	ð	(13,312,839)	3	12,930,803	2	7,932	3	093,473	3	(21,399,844)	Þ	(2,990,202)	Þ	1,1//,149	ð	(0,289,138)	\$	(3,149,387)	2	(0,410,407)

Schedule of Changes in Fiduciary Net Position - Other Postemployment Benefit Plan (Ten Years)

						Fisca	I Y (ear					
	2011	2012	2013		2014	2015		2016		2017	2018	2019	2020
Additions													
Member contributions	\$ 104,320	\$ 91,687	\$ 107,257	\$	118,129	\$ 123,064	\$	132,090	\$	6,452	\$ 6,452	\$ 1,737	\$
Employer contributions	3,287,900	6,887,400	3,300,200		3,451,900	3,607,200		3,733,500		3,808,200	3,884,400	8,337,573	4,120,900
Other Gov't contributions	880,159	255,590	153,256		167,078	180,690		207,065		204,042	270,673	353,649	240,272
Court fees	999,609	952,922	940,187		871,481	866,174		804,133		763,436	772,640	753,798	516,899
Net Investment income	(159,724)	3,026,046	3,361,413		2,187,276	(996,079)		1,834,640		2,754,692	1,573,479	625,677	1,581,923
Other income					200,690	 633,325		626,101		439,939	 683,254	 1,025,684	1,061,764
Total additions	5,112,264	11,213,645	7,862,313		6,996,554	4,414,374		7,337,530		7,976,761	7,190,898	11,098,118	7,521,757
i otai additions	 3,112,204	 11,213,043	 7,002,313	_	0,770,334	 4,414,574		7,337,330	_	7,970,701	 7,170,070	 11,070,110	 1,321,737
Deductions													
Benefit payments Refunds	5,705,039	5,520,160	5,813,571		6,114,207	6,134,192		6,168,981		6,342,947	6,695,207	6,163,773	5,836,338
Qualified rollovers													
Administrative expenses	114,500	 47,574	 67,088		63,683	65,337		66,289		68,871	 74,201	 80,543	99,031
Total deductions	5,819,539	5,567,734	5,880,659		6,177,890	6,199,529		6,235,271		6,411,818	6,769,408	6,244,315	5,935,369
Changes in													
Net position	\$ (707,275)	\$ 5,645,911	\$ 1,981,654	\$	818,664	\$ (1,785,155)	\$	1,102,259	\$	1,564,943	\$ 421,490	\$ 4,853,802	\$ 1,586,388

Schedule of Benefit and Refund Deductions from Net Position by Type Pension Plan (Ten Years)

							Fisca	lΥ	ear						
	<u>2011</u>	<u>2012</u>		<u>2013</u>		<u>2014</u>	<u>2015</u>		<u>2016</u>	<u>2017</u>		<u>2018</u>		<u>2019</u>	2020
Type of Benefit Age and service benefits: Retirees Survivors	\$ 10,178,018 1,796,271	\$ 10,669,077 1,800,816	\$	10,850,420 1,906,808	s	11,137,006 2,010,689	\$ 11,398,185 1,996,092	\$	11,398,950 2,052,647	\$ 11,502,955 2,136,651	\$	11,457,806 2,397,198	s	11,579,049 2,429,636	\$ 11,709,039 2,521,200
Death in service benefits	140,000	325,796		134,000		381,500	376,678		395,000	 607,000		632,500		121,280	390,000
Total benefits	\$ 12,114,289	\$ 12,795,689	\$	12,891,228	\$	13,529,195	\$ 13,770,955	\$	13,846,597	\$ 14,246,606	\$	14,487,504	\$	14,129,965	\$ 14,620,239
Type of refund Death Separation Other	\$ 11,098 398	\$ 15,672	s	11,700	\$	20,911	\$ 13,284 711,067	\$	61,780 10,935	\$ 35,618	s	33,623	\$		\$ 34,924
Total Refunds	\$ 11,496	\$ 15,672	\$	11,700	\$	20,911	\$ 724,352	\$	72,715	\$ 35,618	\$	33,623	\$		\$ 34,924

Schedule of Benefit and Refund Deductions from Net Position by Type Other Postemployment Benefit Plan (Ten Years)

							Fisca	l Ye	ear					
	<u>2011</u>	2012		<u>2013</u>		<u>2014</u>	<u>2015</u>		<u>2016</u>	<u>2017</u>	<u>2018</u>		<u>2019</u>	2020
Type of Benefit Heathcare benefits: Health benefits Dental benefits	\$ 5,256,776 448,263	\$ 5,102,861 417,299	s	5,396,456 417,115	s	5,696,894 417,313	\$ 5,724,946 409,246	\$	5,764,052 404,929	\$ 5,952,317 390,630	\$ 6,315,202 380,005	s	5,791,875 371,898	\$ 5,494,948 341,390
Total benefits	\$ 5,705,039	\$ 5,520,160	\$	5,813,571	\$	6,114,207	\$ 6,134,192	\$	6,168,981	\$ 6,342,947	\$ 6,695,207	\$	6,163,773	\$ 5,836,338

Schedule of Retired Members by Type of Benefit - Pension Plan As of September 30, 2020

Amount of	Number of Retired		Ty	pe of Retireme	ent*	
Monthly Benefit	Members	1	2	3	4	5
Deferred \$ 1 - \$ 500	5 1	1 1	4 0	0 0	0 0	0 0
501 - 1,000	3	3	0	0	0	0
1,001 - 1,500	10	4	2	2	2	0
1,501 - 2,000	22	5	3	14	0	0
2,001 - 2,500	16	11	4	1	0	0
2,501 - 3,000	24	21	0	3	0	0
3,001 - 3,500	26	21	0	5	0	0
3,501 - 4,000	15	5	2	8	0	0
4,001 - 4,500	15	11	2	2	0	0
4,501 - 5,000	15	9	0	6	0	0
Over 5,000	104	90	0	14	0	0
Total	256	182	17	55	2	0

Notes:

- 1 Regular retirement first became members on or before 1/1/95
- 2 Regular retirement first became members after 1/1/95
- 3 Survivor payment survivor of type 1 regular retiree
- 4 Survivor payment survivor of type 2 regular retiree
- 5 Disability Retirement

^{*}Type of Retirement

Schedule of Retired Members by Type of Benefit - Other Postemployment Benefits As of September 30, 2020

Amount of	Number of	Type of	Other Postemploy	yment Benefits
Monthly Pension Benefit	Eligible Members	Receiving Health*	Receiving Dental	Receiving Health and/or Dental
Defined Contribution	140	109	113	113
Deferred	1	1	1	1
\$ 1 - \$ 500	0	0	0	0
501 - 1,000	0	0	0	0
1,001 - 1,500	7	7	7	7
1,501 - 2,000	20	20	20	20
2,001 - 2,500	16	16	16	16
2,501 - 3,000	24	24	24	24
3,001 - 3,500	24	23	24	24
3,501 - 4,000	15	15	15	15
4,001 - 4,500	15	15	15	15
4,501 - 5,000	15	15	15	15
Over 5,000	104	102	103	103
Total	381	347	353	353

^{*}Health includes: health, prescription, hearing and vision insurance

Schedule of Funding Progress - Pension Plan

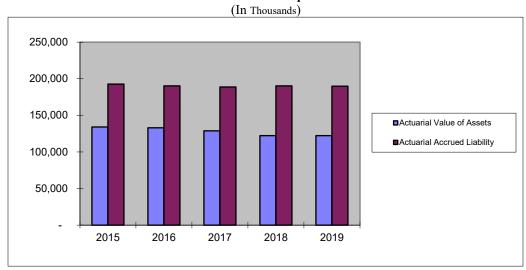
(in thousands)

Valuation Date Sept 30	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) Entry Age (b)	Unfunded (Overfunded) Accrued Liability (UAAL) (b-a)	Funded Ratio AAL (a/b)	Covered Payroll ⁽¹⁾ (c)	UAAL as a % of Covered Payroll ⁽²⁾ ((b-a)/c)
2010	\$ 158,952	\$ 172,693	\$ 13,741	92 %	\$ 1,173	N/A
2011	149,940	181,847	31,907	83	143	N/A
2012	136,916	180,466	43,550	76	72	N/A
2013	134,932	180,909	45,978	75	72	N/A
2014	135,767	192,762	56,995	70	72	N/A
2015	134,049	192,642	58,593	70	72	N/A
2016	132,976	190,224	57,248	70	72	N/A
2017	128,919	188,771	59,852	68	72	N/A
2018	122,261	190,193	67,932	64	72	N/A
2019	122,266	189,784	67,518	64	0	N/A

⁽¹⁾ October based payrolls

Actuarial Value of Pension Plan Assets compared to Actuarial Accrued Pension Plan Liability

Fiscal Years Ended September 30



⁽²⁾ Percentage of covered payroll is not applicable (N/A) as the System is closed.

Schedule of Funding Progress – Other Postemployment Benefit Plan⁽²⁾

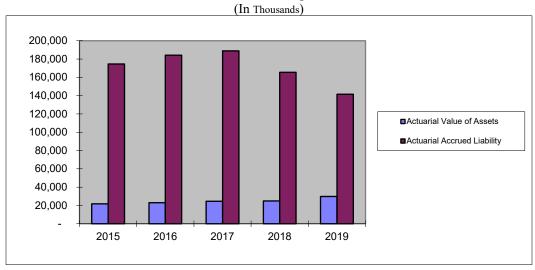
(in thousands)

Valuation Date Sept 30	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) Entry Age (b)	Unfunded (Overfunded) Accrued Liability (UAAL) (b-a)	Funded Ratio AAL (a/b)	Covered Payroll ⁽¹⁾ (c)	UAAL as a % of Covered Payroll ⁽²⁾ ((b-a)/c)
2010	\$ 15,886	\$ 155,259	\$ 139,373	10 %	\$ 11,598	1,202 %
2011	15,179	140,696	125,517	11	3,659	3,431
2012	20,825	145,161	124,337	14	3,587	3,466
2013	22,806	153,666	130,860	15	3,312	3,951
2014	23,625	158,568	134,943	15	2,497	5,404
2015	21,840	174,564	152,724	13	1,734	8,810
2016	22,942	184,225	161,283	12	1,662	9,705
2017	24,507	188,991	164,484	13	1,662	9,898
2018	24,928	165,531	140,603	15	1,734	8,111
2019	29,782	141,534	111,751	21	215	51,964

⁽¹⁾ October based payrolls

Actuarial Assets compared to Actuarial Accrued OPEB Plan Liability

Fiscal Years Ended September 30



 $^{^{\}left(2\right)}$ Includes members in both the defined benefit plan and the defined contribution plan

Schedule of Average Benefit Payments - Pension Plan (Ten Years)

Period 10/1/10 to 9/30/11 Average monthly benefit S1,884 S3,232 S4,431 S5,439 S5,624 Average final average salary S49,104 S42,906 S46,482 S65,409 S65,297 S1,000 S40,000 S40,482 S65,409 S65,297 S1,000 S40,000 S40,482 S65,409 S65,297 S1,000 S40,000	\$4,835 49,120 8
Period 10/1/10 to 9/30/11 Average monthly benefit	849,120
Average monthly benefit	849,120
Average final average salary Number of retired members 89 104 64 24 10 10 10 10 10 10 10 10 10 10 10 10 10	849,120
Number of retired members 89 104 64 24 10	8
Period 10/1/11 to 9/30/12 Average monthly benefit \$1,962 \$3,446 \$4,711 \$5,712 \$5,849 Average final average salary \$49,797 \$44,775 \$47,385 \$64,790 \$65,297 \$5 Number of retired members 91 99 62 23 10 Period 10/1/12 to 9/30/13 Average monthly benefit \$2,024 \$3,606 \$4,973 \$5,924 \$6,225 Average final average salary \$49,834 \$45,365 \$48,447 \$64,790 \$69,108 \$5 Average monthly benefit \$2,135 \$3,749 \$5,185 \$6,143 \$6,714 Average monthly benefit \$2,135 \$3,749 \$5,185 \$6,143 \$6,714 Average monthly benefit \$2,135 \$3,749 \$5,185 \$6,143 \$6,714 Average final average salary \$50,974 \$45,709 \$48,929 \$64,790 \$72,065 \$5 Number of retired members 92 96 57 23 8 Period 10/1/14 to 9/30/15 Average monthly benefit \$2,239 \$3,885 \$5,385 \$6,475 \$6,983 \$6	
Average monthly benefit Average final average salary S49,797 S44,775 S47,385 S64,790 S65,297 S47,385 S64,790 S65,297 S47,385 S64,790 S65,297 S65,297 S70 Number of retired members 91 99 62 23 10 Period 10/1/12 to 9/30/13 Average monthly benefit S2,024 S3,606 S4,973 S5,924 S6,225 Average final average salary S49,834 S45,365 S48,447 S64,790 S69,108 S90 Period 10/1/13 to 9/30/14 Average monthly benefit S2,135 S3,749 S5,185 S6,143 S6,714 Average final average salary S50,974 S45,709 S48,929 S64,790 S72,065 S70 Number of retired members 92 96 S70 S70 S69,83 Average monthly benefit S2,239 S3,885 S5,385 S6,475 S6,983 Average final average salary S51,004 S46,021 S48,929 S66,364 S72,065 S70 Number of retired members 90 94 S70 S69,83 Average final average salary S51,004 S46,021 S48,929 S66,364 S72,065 S70 Number of retired members 90 94 S70 S69,83 Average final average salary S51,004 S46,021 S48,929 S66,364 S72,065 S72	¢5 020
Average final average salary Number of retired members 91 99 62 23 10 Period 10/1/12 to 9/30/13 Average monthly benefit \$2,024 \$3,606 \$4,973 \$5,924 \$6,225 Average final average salary Number of retired members 92 99 59 23 99 Period 10/1/13 to 9/30/14 Average monthly benefit \$2,135 \$3,749 \$5,185 \$6,143 \$6,714 Average final average salary \$50,974 \$45,709 \$48,929 \$64,790 \$72,065 \$2 Number of retired members 92 96 57 23 8 Period 10/1/14 to 9/30/15 Average monthly benefit \$2,239 \$3,885 \$5,385 \$6,475 \$6,983 Average final average salary \$51,004 \$46,021 \$48,929 \$66,364 \$72,065 \$2 Number of retired members 90 94 57 23 8 Period 10/1/15 to 9/30/16 Average monthly benefit \$2,239 \$3,885 \$5,385 \$6,475 \$6,983 Average final average salary \$51,004 \$46,021 \$48,929 \$66,364 \$72,065 \$2 Average monthly benefit \$2,239 \$3,885 \$5,488 \$6,690 \$7,262 Average monthly benefit \$2,299 \$4,075 \$5,488 \$6,690 \$7,262 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$72,065 \$1 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$1 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$1 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$1 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$1 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$1 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$1 Average final average salary \$51,404 \$46,754 \$49,315 \$69,236 \$72,065 \$1 Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065	¢5 020
Number of retired members 91 99 62 23 10 Period 10/1/12 to 9/30/13 Average monthly benefit \$2,024 \$3,606 \$4,973 \$5,924 \$6,225 Average monthly benefit \$20,024 \$3,606 \$4,973 \$5,924 \$6,225 Average final average salary \$49,834 \$45,365 \$48,447 \$64,790 \$69,108 \$6,714 Number of retired members 92 99 59 23 9 Period 10/1/13 to 9/30/14 4	\$3,020
Period 10/1/12 to 9/30/13 Average monthly benefit \$2,024 \$3,606 \$4,973 \$5,924 \$6,225 Average final average salary \$49,834 \$45,365 \$48,447 \$64,790 \$69,108 \$20,000 \$101/13 to 9/30/14 Average monthly benefit \$2,135 \$3,749 \$5,185 \$6,143 \$6,714 \$2,005 \$20,000 \$101/14 to 9/30/15 Average final average salary \$50,974 \$45,709 \$48,929 \$64,790 \$72,065 \$20,000	49,120
Average monthly benefit \$2,024 \$3,606 \$4,973 \$5,924 \$6,225 Average final average salary \$44,834 \$45,365 \$48,447 \$64,790 \$69,108 \$50,000 \$100 \$100 \$101 \$10 \$9/30/14 \$10 \$9/30/14 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	8
Average final average salary Number of retired members 92 99 59 59 23 99 Period 10/1/13 to 9/30/14 Average monthly benefit Average final average salary Number of retired members 92 96 57 86,143 86,714 Average final average salary S50,974 S45,709 S48,929 S64,790 S72,065	
Number of retired members 92 99 59 23 9 Period 10/1/13 to 9/30/14 \$2,135 \$3,749 \$5,185 \$6,143 \$6,714 Average monthly benefit \$50,974 \$45,709 \$48,929 \$64,790 \$72,065 \$6,714 Average final average salary \$50,974 \$45,709 \$48,929 \$64,790 \$72,065 \$6,72,065 \$6,72,065 \$6,72,065 \$6,72,065 \$6,983 Average monthly benefit \$2,239 \$3,885 \$5,385 \$6,475 \$6,983 Average final average salary \$51,004 \$46,021 \$48,929 \$66,364 \$72,065 \$7,262 Number of retired members 90 94 57 23 8 Period 10/1/15 to 9/30/16 \$2,299 \$4,075 \$5,488 \$6,690 \$7,262 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$5 Number of retired members 91 90 55 21 8 Period 10/1/16 to 9/30/17 <t< td=""><td>\$5,229</td></t<>	\$5,229
Period 10/1/13 to 9/30/14 Average monthly benefit \$2,135 \$3,749 \$5,185 \$6,143 \$6,714 Average final average salary \$50,974 \$45,709 \$48,929 \$64,790 \$72,065 \$5 Number of retired members 92 96 57 23 8 Period 10/1/14 to 9/30/15 Average monthly benefit \$2,239 \$3,885 \$5,385 \$6,475 \$6,983 Average final average salary \$51,004 \$46,021 \$48,929 \$66,364 \$72,065 \$5 Number of retired members 90 94 57 23 8 Period 10/1/15 to 9/30/16 Average monthly benefit \$2,299 \$4,075 \$5,488 \$6,690 \$7,262 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$5 Number of retired members 91 90 55 21 8 Period 10/1/16 to 9/30/17 Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 \$69,236 \$72,065 \$5 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065 \$5	49,120
Average monthly benefit \$2,135 \$3,749 \$5,185 \$6,143 \$6,714 Average final average salary \$50,974 \$45,709 \$48,929 \$64,790 \$72,065 \$70 \$10 \$10 \$1/14 to 9/30/15 \$10 \$1/14 to 9/30/15 \$10 \$1/14 to 9/30/15 \$10 \$1/14 to 9/30/15 \$10 \$10 \$10 \$1/14 to 9/30/15 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	8
Average final average salary Number of retired members 92 96 57 23 8 Period 10/1/14 to 9/30/15 Average monthly benefit \$2,239 \$3,885 \$5,385 \$6,475 \$6,983 Average final average salary Number of retired members 90 94 57 23 8 Period 10/1/15 to 9/30/16 Average monthly benefit \$2,299 \$4,075 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$72,065 \$72,065 \$73 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$72,065 \$72,065 \$73 Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065	
Number of retired members 92 96 57 23 8 Period 10/1/14 to 9/30/15 Average monthly benefit \$2,239 \$3,885 \$5,385 \$6,475 \$6,983 Average final average salary \$51,004 \$46,021 \$48,929 \$66,364 \$72,065 \$5 Number of retired members 90 94 57 23 8 Period 10/1/15 to 9/30/16 Average monthly benefit \$2,299 \$4,075 \$5,488 \$6,690 \$7,262 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$5 Number of retired members 91 90 55 21 8 Period 10/1/16 to 9/30/17 Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065 \$5	\$5,439
Period 10/1/14 to 9/30/15 Average monthly benefit \$2,239 \$3,885 \$5,385 \$6,475 \$6,983 Average final average salary \$51,004 \$46,021 \$48,929 \$66,364 \$72,065 \$5 Number of retired members 90 94 57 23 8 Period 10/1/15 to 9/30/16 Average monthly benefit \$2,299 \$4,075 \$5,488 \$6,690 \$7,262 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$5 Number of retired members 91 90 55 21 8 Period 10/1/16 to 9/30/17 Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065 \$5	49,120
Average monthly benefit \$2,239 \$3,885 \$5,385 \$6,475 \$6,983 Average final average salary \$51,004 \$46,021 \$48,929 \$66,364 \$72,065 \$5 Number of retired members 90 94 57 23 8 Period 10/1/15 to 9/30/16 Average monthly benefit \$2,299 \$4,075 \$5,488 \$6,690 \$7,262 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$5 Number of retired members 91 90 55 21 8 Period 10/1/16 to 9/30/17 Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065 \$5	8
Average final average salary Number of retired members 90 94 57 23 8 Period 10/1/15 to 9/30/16 Average monthly benefit \$2,299 \$4,075 \$5,488 \$6,690 \$7,262 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$5 Number of retired members 91 90 55 21 8 Period 10/1/16 to 9/30/17 Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065	
Number of retired members 90 94 57 23 8 Period 10/1/15 to 9/30/16 Average monthly benefit \$2,299 \$4,075 \$5,488 \$6,690 \$7,262 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$5 Number of retired members 91 90 55 21 8 Period 10/1/16 to 9/30/17 Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065 \$5	\$5,648
Period 10/1/15 to 9/30/16 Average monthly benefit \$2,299 \$4,075 \$5,488 \$6,690 \$7,262 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$5 Number of retired members 91 90 55 21 8 Period 10/1/16 to 9/30/17 Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065 \$5	50,920
Average monthly benefit \$2,299 \$4,075 \$5,488 \$6,690 \$7,262 Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$5 Number of retired members 91 90 55 21 8 Period 10/1/16 to 9/30/17 Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065 \$5	7
Average final average salary \$51,404 \$46,754 \$49,315 \$67,415 \$72,065 \$8 Number of retired members 91 90 55 21 8 Period 10/1/16 to 9/30/17 Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065 \$8	
Number of retired members 91 90 55 21 8 Period 10/1/16 to 9/30/17 Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065 \$5	\$5,729
Period 10/1/16 to 9/30/17 Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065	44,966
Average monthly benefit \$2,309 \$4,264 \$5,719 \$6,916 \$7,553 Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065 \$72,065	6
Average final average salary \$52,796 \$48,174 \$49,731 \$69,236 \$72,065	
	\$5,958
Number of retired members 92 89 54 20 8	344,966
	6
Period 10/1/17 to 9/30/18	
Average monthly benefit \$2,358 \$4,457 \$6,133 \$7,566 \$7,527	\$6,197
Average final average salary \$53,786 \$48,770 \$51,735 \$72,880 \$72,065	344,966
Number of retired members 94 84 51 19 8	6
Period 10/1/18 to 9/30/19	
Average monthly benefit \$2,448 \$4,590 \$6,430 \$7,707 \$7,828	\$6,521
Average final average salary \$53,786 \$49,055 \$53,983 \$70,215 \$72,065	344,414
Number of retired members 94 84 49 19 8	5
Period 10/1/19 to 9/30/20	
Average monthly benefit \$2,573 \$4,772 \$6,719 \$7,965 \$7,062	\$6,328
	343,587
Number of retired members 93 83 48 17 6	,

Schedule of Average Benefit Payments - Other Postemployment Benefit Plan (Ten Years)

(Tell Teals)		W (0 % 10 %						
	<u>0-5</u>	<u>5-10</u>	Years 10-15	of Credited Ser	vices 20-25	25-30	<u>30+</u>	
Retirement Effective Dates	<u> </u>	_ _					<u> </u>	
Period 10/1/10 to 9/30/11								
Average monthly benefit		\$1,152	\$1,015	\$967	\$1,137	\$1,106	\$836	
Average final average salary		\$60,037	\$45,916	\$46,447	\$61,970	\$64,197	\$50,920	
Number of retired members		150	113	62	29	11	7	
Period 10/1/11 to 9/30/12								
Average monthly benefit		\$1,220	\$1,093	\$1,061	\$1,178	\$1,249	\$933	
Average final average salary		\$61,074	\$48,392	\$46,721	\$61,970	\$64,197	\$50,920	
Number of retired members		155	111	62	29	11	7	
Period 10/1/12 to 9/30/13								
Average monthly benefit		\$1,291	\$1,142	\$1,128	\$1,184	\$1,270	\$993	
Average final average salary		\$62,059	\$48,938	\$48,101	\$62,620	\$67,516	\$50,920	
Number of retired members		163	111	59	27	10	7	
Period 10/1/13 to 9/30/14								
Average monthly benefit		\$1,311	\$1,152	\$1,187	\$1,278	\$1,366	\$1,009	
Average final average salary		\$62,815	\$49,343	\$48,570	\$62,675	\$69,968	\$50,920	
Number of retired members		163	108	57	26	9	7	
Period 10/1/14 to 9/30/15								
Average monthly benefit		\$1,306	\$1,167	\$1,189	\$1,255	\$1,319	\$891	
Average final average salary		\$62,272	\$51,442	\$49,322	\$67,072	\$73,193	\$50,920	
Number of retired members		160	112	58	24	9	7	
Period 10/1/15 to 9/30/16						*****		
Average monthly benefit		\$1,321	\$1,215	\$1,209	\$1,301	\$1,411	\$849	
Average final average salary		\$62,719	\$52,238	\$48,947	\$65,248	\$69,968	\$44,966	
Number of retired members		163	108	55	22	9	6	
Period 10/1/16 to 9/30/17		01.444	#1.262	#1.252	#1.545	#1 (20	ф ол о	
Average monthly benefit		\$1,444	\$1,362	\$1,373	\$1,545	\$1,629	\$970	
Average final average salary Number of retired members		\$63,820	\$53,951	\$49,353	\$66,859	\$69,968	\$44,966	
Number of retired members		160	109	54	22	9	6	
Period 10/1/17 to 9/30/18		Φ1.520	Ø1 450	01.464	Φ1 C50	Φ1 C24	#1.02 6	
Average monthly benefit		\$1,529	\$1,459	\$1,464	\$1,659	\$1,624	\$1,036	
Average final average salary		\$63,911	\$54,948	\$51,335 51	\$66,859	\$69,968 9	\$44,966	
Number of retired members		162	105	51	22	9	6	
Period 10/1/18 to 9/30/19		\$1,362	¢1 227	¢1 242	¢1 557	¢1 515	0.5 6	
Average monthly benefit			\$1,337	\$1,342	\$1,557	\$1,515	\$856	
Average final average salary Number of retired members		\$63,614	\$57,108	\$53,566	\$66,613	\$69,968 9	\$44,414	
number of fettred members		159	114	49	23	9	5	
Period 10/1/19 to 9/30/20		\$1,338	\$1,304	\$1,273	\$1,343	\$1,392	\$816	
Average monthly benefit		\$64,052	\$57,540	\$53,627	\$65,371	\$72,088	\$43,587	
Average final average salary		159	114	48	21	7	4	
Number of retired members								