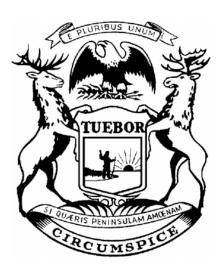
Michigan State Police Retirement System

a Pension and Other Employee Benefit Trust Fund of the State of Michigan

Comprehensive Annual Financial Report for the Fiscal Year Ended September 30, 2014



MSPRS

Prepared by:
Financial Services
for
Office of Retirement Services
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1-800-381-5111

Table of Contents

Introductory Section	
Certificate of Achievement	
Public Pension Standards Award	5
Letter of Transmittal	6
Retirement Board Members	10
Advisors and Consultants	10
Organization Chart	11
Financial Section	
Independent Auditor's Report	14
Management's Discussion and Analysis.	
Basic Financial Statements	
Statement of Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position	21
Statement of Changes in Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position	22
Notes to Basic Financial Statements	
Required Supplementary Information	
Schedule of Funding Progress – Other Postemployment Benefit Plan	42
Schedule of Changes in Net Pension Liability	
Schedule of Net Pension Liability	
Schedules of Contributions	44
Schedule of Investment Returns	
Note to Required Supplementary Information	
Supporting Schedules	
Summary Schedule of Administrative and Other Expenses	47
Schedule of Investment Expenses	
Schedule of Payments for Professional Services	
Detail of Changes in Plan Fiduciary Net Position (Pension and Other Postemployment Benefits)	50
Investment Section	
Report on Investment Activity	54
Asset Allocation	
Investment Results.	
List of Largest Stock Holdings	
List of Largest Bond Holdings	
Schedule of Investment Fees	
Schedule of Investment Commissions	
Investment Summary	
Actuarial Section	
Actuary's Certification	72
Summary of Actuarial Assumptions and Methods	75
Schedule of Active Member Valuation Data	77
Schedule of Changes in the Retirement Rolls	78
Prioritized Solvency Test	79
Analysis of System Experience	81
Summary of Plan Provisions	82
Statistical Section	
Schedules of Additions by Source	87
Schedules of Deductions by Type	
Schedules of Changes in Fiduciary Net Position	
Schedules of Benefits and Refunds by Type.	
Schedules of Retired Members by Type of Benefit	
Schedule of Funding Progress – Pension Plan	
Schedule of Other Postemployment Benefits	
Schedules of Average Benefit Payments	
Ten Year History of Membership	
Acknowledgements	100

INTRODUCTORY SECTION

Certificate of Achievement
Public Pension Standards Award
Letter of Transmittal
Retirement Board Members
Advisors and Consultants
Organization Chart

Introductory Section

Certificate of Achievement



Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

Michigan State Police Retirement System

For its Comprehensive Annual Financial Report for the Fiscal Year Ended

September 30, 2013

Executive Director/CEO

Introductory Section

Public Pension Standards Award



Public Pension Coordinating Council

Public Pension Standards Award For Funding and Administration 2014

Presented to

Michigan Office of Retirement Services

In recognition of meeting professional standards for plan funding and administration as set forth in the Public Pension Standards.

Presented by the Public Pension Coordinating Council, a confederation of

National Association of State Retirement Administrators (NASRA) National Conference on Public Employee Retirement Systems (NCPERS) National Council on Teacher Retirement (NCTR)

> Alan H. Winkle Program Administrator

alan Helinkle

Introductory Section Letter of Transmittal

State Police Retirement System P.O. Box 30171 Lansing, Michigan 48909-7671 Telephone 517-322-5103 Outside Lansing 1-800-381-5111

STATE OF MICHIGAN

RICK SNYDER, Governor

DEPARTMENT OF TECHNOLOGY, MANAGEMENT & BUDGET

January 16, 2015

The Honorable Rick Snyder 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 financial report of the Michigan State Police Retirement System (System) for fiscal year 2014.

INTRODUCTION TO REPORT

The System was established by legislation under Public Act 251 of 1935. It now operates under the provisions of Public Act 182 of 1986, as amended, and is administrated by the Office of Retirement Services (ORS). The number of active and retired members and beneficiaries of the System is presented in Note 1 of the financial statements in the Financial Section of this report. The purpose of the System is to provide benefits for all State Police officers. The services performed by the ORS staff provide 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 leadership team 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.

Internal Control Structure

The leadership team of the System is responsible for maintaining adequate internal accounting controls designed to provide reasonable assurance that transactions are executed in accordance with management's general or specific authorization, and are recorded as necessary to maintain accountability for assets and to permit preparation of financial statements in accordance with accounting principles generally accepted in the United States of America. The internal control structure 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. Discussion and

Introductory Section

Letter of Transmittal (continued)

analysis of net position and related additions and deductions are presented in the Management Discussion and Analysis which can be found immediately following the Independent Auditor's Report.

Independent Auditors and Actuary

The Office of the Auditor General (OAG), independent auditors, conducted an annual audit of the System. The independent auditor's report on the System's financial statements is included in the Financial Section of this report.

Statute requires that an annual actuarial valuation be conducted. The purpose of the valuation is to evaluate the mortality, service, compensation and other financial experience of the System and to recommend employer-funding rates for the subsequent year. The annual actuarial valuation was completed by Gabriel Roeder Smith & Company for the fiscal year ended September 30, 2013. Actuarial certification and supporting statistics are included in the Actuarial Section of this report.

Management's Discussion and Analysis (MD&A)

Generally Accepted Accounting Principles (GAAP) requires that management provide a narrative introduction, overview, and analysis to accompany the Basic Financial Statements in the form of MD&A. This letter of transmittal is intended to complement MD&A and should be read in conjunction with it. The MD&A can be found immediately following the Independent Auditor's Report.

PROFILE OF THE GOVERNMENT

The State Police Retirement System was created by Public Act 251 of 1935 and later superseded by Public Act 182 of 1986. A nine-member board, under the direction of a chairperson elected from the membership, administers the System to provide retirement benefits for State Police officers. Employee contributions, employer contributions, investment earnings, and an annual legislative appropriation provide financing for the System. All individuals hired on or after June 10, 2012 are members of the Pension Plus Plan with a combined Defined Benefit and Defined Contribution benefit structure.

ECONOMIC CONDITIONS AND OUTLOOK

Despite challenging economic times, the System continues to show steady performance over the long-term.

Investments

The State Treasurer is the investment fiduciary and custodian of all investments of the System pursuant to State law. The primary investment objective is to maximize the rate of return on the total investment portfolio, consistent with a high degree of prudence and sufficient diversity to eliminate inordinate risks and to meet the actuarial assumption for the investment return rate. The investment activity for the year produced a total rate of return on the portfolio of 15.5% for Pension and 15.0% for the Other Post-Employment Benefits (OPEB) Plans. For the last five years, the System has experienced an annualized rate of return of 11.2% for pension plan. A summary of asset allocation and rates of return can be found in the Investment Section of this report.

Accounting System

Transactions of the System are reported on the accrual basis of accounting. Additions are recorded when earned and deductions are recorded when incurred. Participants' benefits are recorded when payable by law. We believe the accounting and administrative internal controls established by the System provide reasonable assurance the System is carrying out its responsibilities in safeguarding its assets, in maintaining the reliability of the financial records for preparing financial statements, and in maintaining accountability for its assets.

Introductory Section Letter of Transmittal (continued)

Funding

Funds are derived from the excess of additions to plan net position over deductions from plan net position. Funds are accumulated by the System to meet future benefit obligations to retirees and beneficiaries. The percentage computed by dividing the actuarial value of assets by the actuarial accrued liability is referred to as the "funded ratio." This ratio provides an indication of the funding status of the System and generally, the greater this percentage, the stronger the System. Consistent with this approach, the most recent actuarial valuation was performed as of September 30, 2013.

Pension - The actuarial value of the assets and actuarial accrued liability of the System were \$1.1 billion and \$1.7 billion, respectively, resulting in a funded ratio of 62.0% at September 30, 2013. A historical perspective of funding levels for the Pension Plan is presented on the Schedule of Funding Progress in the Statistical Section of this report.

Postemployment Benefits – Prefunding for postemployment benefits began in fiscal year 2013. The actuarial value of the assets and actuarial accrued liability were \$52.2 million and \$603.0 million respectively resulting in a funded ratio of 8.7% at September 30, 2013. GASB Statement No. 43 (implemented in fiscal year 2007) does not require retroactive application of the reporting changes. Therefore, only eight valuation years are presented on the Schedule of Funding Progress in the Required Supplementary Information (RSI) of the Financial Section of this report.

MAJOR GOALS ACCOMPLISHED

Two major projects to improve processes

ORS began two long-term projects that will improve how we handle our financial and insurance processes. Business Process Reengineering will improve the processes for producing financial statements and this report. The Insurance Process Redesign will update ORS's insurance software and processes to allow us to adapt to the demands of a changing insurance market. One of the first changes eliminated approximately 6,500 forms being scanned, imaged, and processed by ORS, saving an estimated 1,083 hours of work.

Updates to websites and miAccount continue to improve online user experience

All websites and miAccount were upgraded with a new look and feel, which concludes the first phase of the miAccount redesign. The updates were based on recommendations from the Department of Technology, Management & Budget's User Experience Team and include enhancements like improved readability, more intentional use of color, and a unified ORS brand across all systems. To provide better customer service to our reporting units and human resource departments, the employer websites have been redesigned and made responsive, meaning the content changes based on the device it is viewed on.

Staff training in process mapping

As a process-based organization, ORS needs staff to be skilled at creating, editing, and using process mapping tools for analysis and improvement. To that end, a new program is in place to train and certify staff in using process mapping tools. The course introduces trainees to systems (process) thinking, and teaches how to construct and analyze process flow charts, as well as how to implement process change.

Get Fit initiative and indoor walking track

This year ORS saw the start of the Get Fit team, which encourages health and wellness for staff. Using an inset carpet design, ORS created a dedicated indoor walking track inside one of the office's wings. Data shows staff members are more productive and use less sick time. In addition, 25 percent of all staff lost weight in a weight loss challenge.

Communication initiative focused on retirement applications

ORS started a new communication approach to keep retirement applicants better informed during the application process. The goal of the project is to instill customer confidence in the process so applicants don't feel they need to call to check on their application. Comparing April through July 2014 with the same time period in 2013, ORS reduced calls from pending applicants by 31 percent with an overall decrease in contacts from this population of 17 percent.

Introductory Section

Letter of Transmittal (continued)

HONORS

Public Pension Standards Award: The Public Pension Coordinating Council awarded the retirement system with the 2014 Public Pension Standards Award for Funding and Administration.

Government Finance Officers Association Award: The Government Finance Officers Association of the United States and Canada awarded the retirement system with the Certificate of Achievement for Excellence in Financial Reporting for its fiscal year 2013 Comprehensive Annual Financial Report. This marks the 23rd consecutive year ORS has received this prestigious award.

Acknowledgements

The preparation of this report was accomplished with the dedication and cooperation of many people. 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, therefore, like to express our appreciation for the assistance given by staff, advisors and the many people who contributed to its preparation. We believe their combined efforts have produced a report that will enable employers and plan members to better evaluate and understand the Michigan State Police Retirement System. Their cooperation contributes significantly to the success of the System.

David B. Behen, Director

Department of Technology, Management & Budget

Phillip J. Stoddard, Director Office of Retirement Services

INTRODUCTORY SECTION Administrative Organization

Retirement Board Members*

Colonel Kriste Etue Director, Dept. of State Police

Statutory Member

Bernard Kent General Public

Term Expires December 31, 2015

Robert L. Brackenbury Representing State Treasurer Statutory Member

Molly Jason

Representing Attorney General

Statutory Member

Cheryl Schmittdiel

Representing Director, Office of State

Employer

Statutory Member

Captain Kevin P. McGaffigan,

Vice Chair Representing Lieutenants and Above

Term Expires December 31, 2016

Retired First Lieutenant Diane Garrison Chair

Retiree Member

Craig Murray

Statutory Member

Term Expires December 31, 2014

Detective Sergeant Mitchell Stevens

Representing Deputy Auditor General

Representing Sergeants and Below

Term Expires December 31, 2015

Administrative Organization

Department of Technology, Management & Budget **Office of Retirement Services** P.O. Box 30171 Lansing, Michigan 48909-7671 517-322-5103 1-800-381-5111

Advisors and Consultants

Actuaries

Gabriel Roeder Smith & Co. Mita D. Drazilov Southfield, Michigan

Legal Advisor

Bill Schuette Attorney General State of Michigan **Independent Auditors**

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

Investment Manager and Custodian

R. Kevin Clinton State Treasurer State of Michigan

Investment Performance

Measurement

State Street Corporation

State Street Investment Analytics

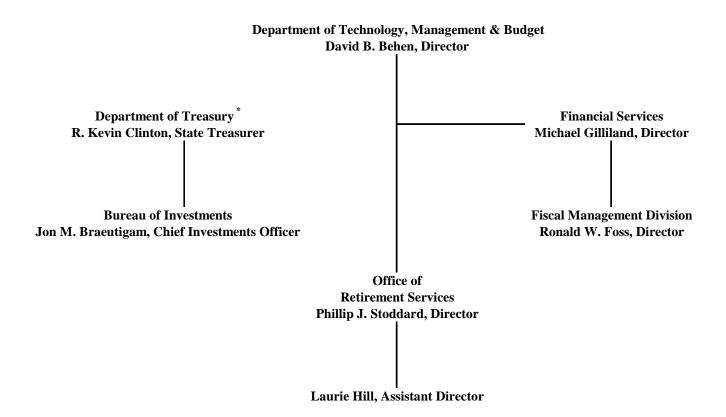
Boston, MA

^{*}upon expiration of a term a member may continue to serve, at the pleasure of the governor, until a successor is appointed.

Introductory Section

Administrative Organization (continued)

Organization Chart



^{*} The investments of the System are managed by the Michigan Department of Treasury. Information on the investments and the fiduciary, Michigan Department of Treasury, can be found in the Investment Section, Introduction. In addition, see the Investment Section, Schedule of Investment Fees and Schedule of Investment Commissions, for information regarding the investment fees and commissions paid as well as investment professionals utilized by the System.

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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, CIAAuditor General

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

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

Ms. Diane Garrison, Chair Michigan State Police Retirement System Board and Mr. David B. Behen, Director Department of Technology, Management, and Budget and Mr. Phillip J. Stoddard, Director Office of Retirement Services

Dear Ms. Garrison, Mr. Behen, and Mr. Stoddard:

Report on the Financial Statements

We have audited the accompanying financial statements of the Michigan State Police Retirement System as of and for the fiscal year ended September 30, 2014 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 State Police Retirement System as of September 30, 2014 and the changes in its fiduciary net position for the fiscal year then ended in accordance with accounting principles generally accepted in the United States of America.

Emphasis of Matter

As discussed in Note 6 to the financial statements, the Michigan State Police Retirement System adopted Governmental Accounting Standards Board (GASB) Statement No. 67, *Financial Reporting for Pension Plans - an amendment of GASB Statement No. 25*, for the fiscal year ended September 30, 2014. Our opinion is not modified with respect to this matter.





Ms. Diane Garrison, Chair Mr. David B. Behen, Director Mr. Phillip J. Stoddard, 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 on pages 16 through 20 and the schedule of funding progress - other postemployment benefit plan, schedule of changes in net pension liability, schedule of net pension liability, schedules of contributions, schedule of investment returns, and related note on pages 42 through 46 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by GASB 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 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 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 16, 2015

Doug Kingler

Management's Discussion and Analysis

Our discussion and analysis of the Michigan State Police Retirement System's (System) financial performance provides an overview of the System's financial activities for the fiscal year ended September 30, 2014. Please read it in conjunction with the transmittal letter in the Introductory Section on page 6 and the basic financial statements, which follow this discussion.

FINANCIAL HIGHLIGHTS

- System assets exceeded its liabilities at the close of fiscal year 2014 by \$1.3 billion (reported as *net position*). Net assets are restricted to meet future benefit payments.
- Additions for the year were \$292.9 million, which are comprised primarily of contributions of \$110.1 million and investment gains of \$182.7 million.
- Deductions increased over the prior year from \$143.1 million to \$144.0 million or 0.5%. This is largely due to increased aggregate retirement benefit payments and insurance benefit costs. The number of retirees also increased compared to last year.

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

This Comprehensive Annual Financial Report (CAFR) consists of two financial statements; *The Statement of Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position* (page 21) and *The Statement of Changes in Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position* (page 22). 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 additions and deductions 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 of 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 Changes in Net Pension Liability (page 43), Schedule of Funding Progress — Other Postemployment Benefit Plan (page 42), and Schedules of Contributions (page 44), to determine whether the System is becoming financially stronger or weaker.

Management's Discussion and Analysis (continued)

FINANCIAL ANALYSIS

System total assets as of September 30, 2014, were \$1.4 billion and were mostly comprised of cash, investments, and contributions due from employers. Total assets increased \$144.9 million or 11.3% between fiscal years 2013 and 2014 due primarily to an increase in investment income.

Total liabilities as of September 30, 2014, were \$93.6 million and were comprised of warrants outstanding, accounts payable and other accrued liabilities, and obligations under securities lending. Total liabilities decreased \$4.1 million or (4.2)% between fiscal years 2013 and 2014 due primarily to a decrease in obligations under securities lending.

System assets exceeded its liabilities at the close of fiscal year 2014 by \$1.3 billion. Total net position restricted for pension and OPEB increased \$148.9 million or 12.6% between fiscal years 2013 and 2014.

Net Position (in thousands)

		2014			2013	Increase (Decrease)
Assets		2017			2013	(Decrease)
Equity in Common Cash	\$	14,125		\$	25,721	(45.1) %
Receivables	Ψ	7,155		Ψ	6,150	16.3
Investments		1,311,794			1,169,961	12.1
Securities Lending Collateral		88,398			74,789	18.2
Total Assets		1,421,472	. ,		1,276,621	11.3
Liabilities						
Warrants outstanding		25			336	(92.6)
Accounts payable and						, ,
other accrued liabilities		2,134			2,237	(4.6)
Obligations under						
securities lending		91,481			95,164	(3.9)
Total Liabilities		93,640	. ,		97,737	(4.2)
Total Net Position	\$	1,327,832		\$	1,178,884	12.6 %

Management's Discussion and Analysis (continued)

ADDITIONS TO PLAN NET POSITION

The reserves needed to finance pension and other postemployment benefits are accumulated through the collection of employer contributions and through earnings on investments. Contributions and net investment gains for fiscal year 2014 totaled \$292.9 million.

Total additions increased \$56.3 million between fiscal years 2013 and 2014. This is due primarily to increased contributions and net investment gains. Total contributions increased between fiscal years 2013 and 2014 by \$12.9 million or 13.2%. This increase is due primarily to activity related to larger employer contributions from an increase in the contribution rate and larger employee contributions. Net investment gains increased between fiscal years 2013 and 2014, by \$43.4 million or 31.2%. The Investment Section of this report reviews the results of investment activity for fiscal year 2014.

DEDUCTIONS FROM PLAN NET POSITION

The expenses of the System include the payment of pension benefits to members and beneficiaries, payment for health, dental and vision benefits, refund of contributions to former members, and the cost of administering the System. Total deductions for fiscal year 2014 were \$143.9 million, an increase of 0.6% over fiscal year 2013 deductions.

The health, dental and vision care expenses to members and beneficiaries increased by \$0.8 million or 2.6% from \$30.6 million to \$31.4 million between fiscal years 2013 and 2014. Pension benefit payments decreased by \$0.2 million or 0.2% between fiscal years 2013 and 2014. The decrease in pension benefit deductions in 2014 is due primarily to the net effect of a decrease in DROP distributions (for more information on DROP, see note 1) and an increase in retirees of only (12). Administrative and other expenses increased by \$0.3 million or 15.8% from \$1.7 million in fiscal year 2013 to \$2.0 million in fiscal year 2014, due primarily to an increase in Health benefits and OPEB administrative fees paid to insurance carriers.

Management's Discussion and Analysis (continued)

Changes in Plan Net Position (in thousands)

	2014	2013	Increase (Decrease)
Additions			
Member contributions	\$ 3,373	\$ 2,608	29.3 %
Employer contributions	105,006	91,863	14.3
Other governmental contributions	1,758	2,801	(37.3)
Net investment income (loss)	182,722	139,275	31.2
Miscellaneous income	-	46	(100.0)
Total Additions	292,858	236,593	23.8
Deductions			
Pension benefits	110,543	110,782	(0.2)
Health care benefits	31,373	30,572	2.6
Refunds of contributions	8	19	(57.9)
Administrative and other expenses	1,985	1,714	15.8
Total Deductions	143,909	143,088	0.6
Net Increase (Decrease)	148,948	93,505	59.3
Net Position - Beginning of Year	1,178,884	1,085,378	8.6
Net Position - End of Year	\$ 1,327,832	\$ 1,178,884	12.6 %

Management's Discussion and Analysis (continued)

RETIREMENT SYSTEM AS A WHOLE

The System's combined net position experienced an increase in fiscal year 2014 after a decrease in fiscal year 2013. The System's rate of return increased 3.1% from a 12.4% return in fiscal year 2013 to a 15.5% return for the Pension Plan and increased 3.4% from a 11.6% return in fiscal year 2013 to a 15.0% return for the OPEB Plan during fiscal year 2014. Management believes that the system remains financially sound and positioned to meet its ongoing benefit obligations due, in part, to a prudent investment program, cost controls, and strategic planning.

CONTACTING SYSTEM FINANCIAL MANAGEMENT

This financial report is designed to provide the Retirement Board, our membership, taxpayers, investors, and creditors with a general overview of the System's finances and to demonstrate the System's accountability for the money it receives. If you have any questions about this report or need additional financial information, contact the Office of Retirement Services, P.O. Box 30171, Lansing, MI 48909-7671.

Statement of Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position As of September 30, 2014 (In Thousands)

Receivables: Amounts due from members 34 Amounts due from employers 2,751 2,133 4,8 Amounts due from ederal agencies 1,152 1,1 Amounts due from other 916 9 Interest and dividends 160 9 1 Total receivables 2,945 4,210 7,1 Investments: 35 4,210 7,1 Investments: 368,598 2,182 70,7 Fixed income pools 145,482 8,677 154,1 Domestic equity pools 370,466 22,236 392,7 Real estate and infrastructure pools 114,796 6,856 121,6 Absolute return pools 190,356 11,371 201,7 Abso		Pension Plan	OPEB Plan	Total
Receivables: Amounts due from members 34 Amounts due from employers 2,751 2,133 4,8 Amounts due from ederal agencies 1,152 1,1 Amounts due from other 916 9 Interest and dividends 160 9 1 Total receivables 2,945 4,210 7,1 Investments: 35 4,210 7,1 Investments: 368,598 2,182 70,7 Fixed income pools 145,482 8,677 154,1 Domestic equity pools 370,466 22,236 392,7 Real estate and infrastructure pools 114,796 6,856 121,6 Absolute return pools 190,356 11,371 201,7 Abso	Assets:	_		
Amounts due from members 34 Amounts due from employers 2,751 2,133 4,8 Amounts due from federal agencies 1,152 1,1 Amounts due from other 916 9 Interest and dividends 160 9 1 Total receivables 2,945 4,210 7,1 Investments: Short term investment pools 68,598 2,182 70,7 Fixed income pools 145,482 8,677 154,1 20,236 392,7 Real estate and infrastructure pools 114,796 6,856 121,4 22,236 392,7 Internative investment pools 114,796 6,856 11,371 201,7 201,7 Absolute return pools 190,356 11,371 201,7 201,7 201,7 Total investments 1,239,740 72,054 1,311,7 20,7 2,054 1,311,7 Securities lending collateral 83,652 4,746 88,3 Total assets 1,336,822 84,650 1,421,4 Liabilities: </td <td>* *</td> <td>\$ 10,485</td> <td>\$ 3,640</td> <td>\$ 14,125</td>	* *	\$ 10,485	\$ 3,640	\$ 14,125
Amounts due from employers 2,751 2,133 4,8 Amounts due from federal agencies 1,152 1,1 Amounts due from other 916 9 Interest and dividends 160 9 1 Total receivables 2,945 4,210 7,3 Investments: 35,294 4,210 7,3 Investments: 35,294 4,210 7,3 Investments: 35,295 4,210 7,3 Investments: 35,295 4,210 7,3 Investments: 35,295 4,210 7,3 Investments: 35,296 2,182 70,7 Internative investment pools 114,796 6,856 121,8 Alternative investment pools 114,796 6,856 121,8 International equity pools 190,356 11,371 201,7 Absolute return pools 135,299 7,979 143,2 Total investments 1,239,740 72,054 1,311,3 Securities lending collateral 83,652 4				
Amounts due from federal agencies	Amounts due from members			34
Amounts due from other Interest and dividends 160 9 Total receivables 2,945 4,210 7,1 Investments: Short term investment pools 68,598 2,182 70,7 Fixed income pools 145,482 8,677 154,1 Domestic equity pools 370,466 22,236 392,7 Real estate and infrastructure pools 114,796 6,856 121,6 Alternative investment pools 190,356 11,371 201,7 Absolute return pools 135,299 7,979 143,2 Total investments 1,239,740 72,054 1,311,7 Securities lending collateral 83,652 4,746 88,3 Total assets 1,336,822 84,650 1,421,4 Liabilities: Warrants outstanding 25 Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4		2,751		4,884
Interest and dividends 160 9 Total receivables 2,945 4,210 7,1 Investments: 3,245 4,210 7,1 Investments: 2,182 70,7 Short term investment pools 145,482 8,677 154,1 Domestic equity pools 370,466 22,236 392,7 Real estate and infrastructure pools 114,796 6,856 121,6 Alternative investment pools 214,743 12,752 227,4 International equity pools 190,356 11,371 201,7 Absolute return pools 135,299 7,979 143,2 Total investments 1,239,740 72,054 1,311,7 Securities lending collateral 83,652 4,746 88,3 Total assets 1,336,822 84,650 1,421,4 Liabilities: Warrants outstanding 25 Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4	•			1,152
Total receivables 2,945 4,210 7,3 Investments: Short term investment pools 68,598 2,182 70,7 Fixed income pools 145,482 8,677 154,1 Domestic equity pools 370,466 22,236 392,7 Real estate and infrastructure pools 114,796 6,856 121,6 Alternative investment pools 214,743 12,752 227,4 International equity pools 190,356 11,371 201,7 Absolute return pools 135,299 7,979 143,2 Total investments 1,239,740 72,054 1,311,7 Securities lending collateral 83,652 4,746 88,3 Total assets 1,336,822 84,650 1,421,4 Liabilities: Warrants outstanding 25 Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4			916	916
Investments: Short term investment pools Fixed income pools I 45,482 B,677 I 54,1 Domestic equity pools Real estate and infrastructure pools I 147,96 Alternative investment pools I 190,356 I 11,371 International equity pools I 190,356 I 11,371 Absolute return pools I 135,299 Total investments I 1,239,740 Total investments I 1,239,740 Total assets I 1,336,822 Liabilities: Warrants outstanding Accounts payable and other accrued liabilities Obligations under securities lending 86,569 86,569 4,912 91,4	Interest and dividends	 160	 9	 169
Short term investment pools 68,598 2,182 70,7 Fixed income pools 145,482 8,677 154,1 Domestic equity pools 370,466 22,236 392,7 Real estate and infrastructure pools 114,796 6,856 121,6 Alternative investment pools 214,743 12,752 227,4 International equity pools 190,356 11,371 201,7 Absolute return pools 135,299 7,979 143,2 Total investments 1,239,740 72,054 1,311,7 Securities lending collateral 83,652 4,746 88,3 Total assets 1,336,822 84,650 1,421,4 Liabilities: Warrants outstanding 25 2 Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4	Total receivables	 2,945	 4,210	 7,155
Fixed income pools 145,482 8,677 154,1 Domestic equity pools 370,466 22,236 392,7 Real estate and infrastructure pools 114,796 6,856 121,6 Alternative investment pools 214,743 12,752 227,4 International equity pools 190,356 11,371 201,7 Absolute return pools 135,299 7,979 143,2 Total investments 1,239,740 72,054 1,311,7 Securities lending collateral 83,652 4,746 88,3 Total assets 1,336,822 84,650 1,421,4 Liabilities: Warrants outstanding 25 4,746 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4 91,4	Investments:			
Domestic equity pools 370,466 22,236 392,7 Real estate and infrastructure pools 114,796 6,856 121,6 Alternative investment pools 214,743 12,752 227,4 International equity pools 190,356 11,371 201,7 Absolute return pools 135,299 7,979 143,2 Total investments 1,239,740 72,054 1,311,7 Securities lending collateral 83,652 4,746 88,3 Total assets 1,336,822 84,650 1,421,4 Liabilities: Warrants outstanding 25 Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4	Short term investment pools	68,598	2,182	70,781
Real estate and infrastructure pools 114,796 6,856 121,6 Alternative investment pools 214,743 12,752 227,4 International equity pools 190,356 11,371 201,7 Absolute return pools 135,299 7,979 143,2 Total investments 1,239,740 72,054 1,311,3 Securities lending collateral 83,652 4,746 88,3 Total assets 1,336,822 84,650 1,421,4 Liabilities: Warrants outstanding 25 2,074 2,1 Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4	Fixed income pools	145,482	8,677	154,159
Alternative investment pools 214,743 12,752 227,4 International equity pools 190,356 11,371 201,7 Absolute return pools 135,299 7,979 143,2 Total investments 1,239,740 72,054 1,311,3 Securities lending collateral 83,652 4,746 88,3 Total assets 1,336,822 84,650 1,421,4 Liabilities: Warrants outstanding 25 Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4	Domestic equity pools	370,466	22,236	392,702
International equity pools 190,356 11,371 201,7 Absolute return pools 135,299 7,979 143,2 Total investments 1,239,740 72,054 1,311,7 Securities lending collateral 83,652 4,746 88,3 Total assets 1,336,822 84,650 1,421,4 Liabilities: Warrants outstanding 25 Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4	Real estate and infrastructure pools	114,796	6,856	121,652
Absolute return pools 135,299 7,979 143,2 Total investments 1,239,740 72,054 1,311,3 Securities lending collateral 83,652 4,746 88,3 Total assets 1,336,822 84,650 1,421,4 Liabilities: Warrants outstanding 25 4,746 4,912 2,1 Obligations under securities lending 86,569 4,912 91,4 91,4	Alternative investment pools	214,743	12,752	227,494
Total investments 1,239,740 72,054 1,311,7 Securities lending collateral 83,652 4,746 88,3 Total assets 1,336,822 84,650 1,421,4 Liabilities: Warrants outstanding 25 Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4	International equity pools	190,356	11,371	201,727
Securities lending collateral 83,652 4,746 88,3 Total assets 1,336,822 84,650 1,421,4 Liabilities: Warrants outstanding 25 Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4	Absolute return pools	135,299	7,979	143,279
Total assets 1,336,822 84,650 1,421,4 Liabilities: Warrants outstanding 25 Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4	Total investments	1,239,740	72,054	1,311,794
Liabilities: Warrants outstanding 25 Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4	Securities lending collateral	83,652	4,746	88,398
Warrants outstanding Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4	Total assets	1,336,822	84,650	1,421,472
Accounts payable and other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4	Liabilities:			
other accrued liabilities 60 2,074 2,1 Obligations under securities lending 86,569 4,912 91,4	<u>C</u>	25		25
securities lending 86,569 4,912 91,4	other accrued liabilities	60	2,074	2,134
Total liabilities 86.654 6.986 93.6		86,569	4,912	91,481
	Total liabilities	86,654	6,986	93,640
Net Position Restricted for Pension Benefits and OPEB \$ 1,250,168 \$ 77,664 \$ 1,327,8		\$ 1,250,168	\$ 77,664	\$ 1,327,832

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, 2014 (In Thousands)

	Pension Plan	OPEB Plan	Total
Additions:			
Contributions:			
Member contributions	\$ 2,174	\$ 1,199	\$ 3,373
Employer contributions	58,391	46,615	105,006
Other governmental contributions		 1,758	 1,758
Total contributions	60,565	49,571	110,136
Investment income (loss):			
Net increase (decrease) in			
fair value of investments	153,425	7,589	161,015
Interest, dividends, and other	23,687	1,180	24,867
Investment expenses:	,	,	,
Real estate operating expenses	(50)	(2)	(53)
Other investment expenses	(3,669)	(169)	(3,837)
Securities lending activities:			
Securities lending income	2,109	119	2,228
Securities lending expenses	 (1,417)	 (81)	 (1,497)
Net investment income (loss)	174,085	8,637	182,722
Total additions	234,650	58,207	292,858
Deductions:			
Benefits paid to plan members			
and beneficiaries:			
Retirement benefits	110,543		110,543
Health benefits		28,749	28,749
Dental/vision benefits		2,625	2,625
Refunds of contributions	8		8
Administrative and other expenses	 575	 1,410	 1,985
Total deductions	111,126	 32,783	143,909
Net Increase (Decrease) in net position	123,524	25,424	148,948
Net Position Restricted for Pension Benefits and OPEB			
Beginning of Year	1,126,643	 52,240	1,178,884
End of Year	\$ 1,250,168	\$ 77,664	\$ 1,327,832

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

Notes to Basic Financial Statements September 30, 2014

NOTE 1 - PLAN DESCRIPTION

ORGANIZATION

The Michigan State Police Retirement System (System) is a single employer, state-wide, defined benefit public employee retirement plan governed by the State of Michigan (State), created under Public Act 251 of 1935, recodified and currently operating under Public Act 182 of 1986. Section 7 of this act establishes the board's authority to promulgate or amend the provisions of the System. The board consists of nine members. Four members are appointed by the governor and consist of one officer having rank of sergeant or below, one officer having rank of lieutenant or above, one retirant, and one member of the general public to meet requirements within the act. The System's pension plan was established by the State to provide retirement, survivor, and disability benefits to Michigan State Police. In addition, the System's OPEB plan provides retirees hired prior to June 10, 2012 with the option of receiving health, dental, and vision coverage under the State Police Retirement Act. The System is a qualified pension trust fund under section 401(a) of the Internal Revenue Code.

A hybrid defined benefit and defined contribution plan was introduced for troopers and sergeants who became a member of SPRS on or after June 10, 2012 - this plan is called the Pension Plus plan for Michigan State Police.

The System's financial statements are included as a pension and other employee benefit trust fund in the State of Michigan Comprehensive Annual Financial Report.

The System is administered by the Office of Retirement Services within the Michigan Department of Technology, Management & Budget (DTMB). The Department Director appoints the Office Director, with whom the general oversight of the System resides. The State Treasurer serves as the investment officer and custodian for the System.

MEMBERSHIP

At September 30, 2014 the System's membership consisted of the following:

Inactive plan members or beneficiaries	
currently receiving benefits:	2014
Regular benefits	2,289
Survivor benefits	483
Disability benefits	191
Total	2,963
Inactive plan members entitled to but not yet receiving benefits:	44
Active plan members:	
Vested	1,038
Non-vested	565
Total	1,603
DROP program participants	257
Total plan members	4,867

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

Health, Dental, and Vision Plans	2014
Eligible participants	2,771
Participants receiving benefits:	
Health	2,640
Dental	2,630
Vision	2.637

Notes to Basic Financial Statements (continued)

BENEFIT PROVISIONS -- PENSION

Introduction

Benefit provisions of the defined benefit pension plan are established by State statute, which may be amended. Public Act 182 of 1986, Michigan State Police Retirement Act, as amended, establishes eligibility and benefit provisions for the defined benefit pension plan and the Pension Plus plan. Retirement benefits for defined benefit plan members are determined by final average compensation. Defined benefit members are eligible to receive a monthly benefit when they meet certain age and service requirements. The retirement benefit component for Pension Plus plan members is determined by final average compensation and years of service. In addition, the Pension Plus members' savings component includes the employee contributions into any combination of a member's 401(k), 457, or Roth 401(k) accounts, and an employer match into their 401(k) account. The System also provides duty disability, non-duty disability, and survivor benefits.

A member who leaves Michigan State Police employment may request a refund of his or her member contribution account. Effective in 2012, the System is contributory except for command officers. A refund cancels a former member's rights to future benefits and there is no provision for repaying the refund of contributions to restore the service represented by the refund.

Pension Reform 2012

The State Troopers' union and the State of Michigan negotiated a new retirement plan for new State Troopers and Sergeants. As a result, a State Trooper who became a member of SPRS on or after June 10, 2012, is a Pension Plus member. The Pension Plus plan pairs a guaranteed retirement income (Defined Benefit pension) with a flexible and transferable retirement savings (Defined Contribution) account.

Regular Retirement

The retirement benefit is available if a member retires after 25 years of credited service (employment). The retirement benefit equals 60% of a member's final average compensation and is payable monthly over the lifetime of a member. Final average compensation is the average annual salary for a member's last two years of service with the Department of State Police.

For a Pension Plus member, who became a member of SPRS on or after June 10, 2012, the retirement benefit equals 2% of a five-year final average compensation (excluding overtime) multiplied by the total number of years of credited service, not to exceed 25 years. After 25 years of credited service, the benefit multiplier declines by 0.4% each year until reaching 0% at 30 years of service. The reduced benefit multiplier applies only to years 26 through 30, not the first 25 years. This benefit is paid monthly over the lifetime of a member. A Pension Plus Plan member who became a member of SPRS on or after June 10, 2012 may retire at age 55 with 25 years of service or age 60 with 10 or more years of service.

Deferred Retirement

Any member with 10 or more years of credited service who terminates employment but has not reached the age of 50 is a deferred member and is entitled to receive a monthly allowance upon reaching age 50, provided the member's accumulated contributions have not been refunded. The deferred benefit is equal to two percent of the final average compensation times the years and partial years of service credit.

A Pension Plus Plan member who became a member of SPRS on or after June 10, 2012, with 10 or more years of credited service who terminates employment but has not reached the age of 60 is a deferred member and is entitled to receive a monthly allowance upon reaching age 60, provided the member's accumulated contributions have not been refunded.

Notes to Basic Financial Statements (continued)

Non-Duty Disability Benefit

A member with 10 or more years of credited service who becomes totally and permanently disabled not due to performing duties as an employee of the Michigan State Police is eligible for a non-duty disability pension. The non-duty disability benefit is 2.4% of the final average compensation times years and partial years of credited service (but not more than 25 years).

Duty Disability Benefit

A member who becomes totally and permanently disabled from performing duties as a Michigan State Police Officer is eligible for a duty disability pension. The amount, payable monthly, is equal to 60% of the final average compensation.

Survivor Benefit

Upon the death of a member who completed at least 10 years of service, the surviving spouse receives a benefit based on 2.4% of the final average compensation for each year and partial year of credited service. If there is no spouse, surviving children are entitled to equally share the benefit until age 18. If death occurs in the line of duty, the surviving spouse receives a benefit of 60% of the final average compensation. Children receive \$100 each month until age 18. A \$1,500 funeral expense is also authorized by State statute.

Post Retirement Adjustments

Effective October 1, 1996, the monthly pension was increased 10% if certain requirements were met. This was a one-time increase.

Each October 1, the benefits of all pension recipients increase 2% (not to exceed \$500). This non-compounding increase is paid to persons who have been retired 12 months.

A Pension Plus member who became a member of SPRS on or after June 10, 2012, does not receive an annual post-retirement increase.

Contributions

Member Contributions - Command Officers currently participate on a noncontributory basis. Effective October 1, 2012, troopers and sergeants hired before June 10, 2012 began contributing 1% of their compensation. Troopers hired on or after June 10, 2012 contribute 4% of their compensation as described below. Under certain circumstances, members may contribute to the System for the purchase of creditable service, such as military, maternity or paternity leave, Peace Corps or VISTA service. If a member terminates employment before a retirement benefit is payable, the member's contribution and interest on deposit are available to be refunded. If the member dies before being vested, the member's contribution and interest are refunded to the designated beneficiaries.

Pension Plus members who became members of SPRS on or after June 10, 2012, contribute 4% of gross wages for the pension component of their plan. An additional, optional, 4% contribution of gross wages is withheld for the savings component of their plan. The first 2% employee contributions are identified as retirement savings and receive an employer match of 50% up to a maximum of 1%. The next 2% employee contributions are associated with the Personal Healthcare Fund at retirement and receive an employer match of 100%, up to a maximum of 2%. An additional maximum \$2,000 employer contribution is made into the Personal Healthcare Fund at retirement.

<u>Employer Contributions</u> - The statute requires that the employer contribute to finance the benefits of plan members. These employer contributions are determined annually by the System's actuary and are based upon level-percent-of-payroll funding principles so that the contribution rates do not have to increase over time. A chart showing the employer contribution rates is included on the Schedule of Additions by Source in the Statistical Section.

Notes to Basic Financial Statements (continued)

For a Pension Plus member who became a member of SPRS on or after June 10, 2012, there is an employer match for retirement of 50% of the first 2% of employee deferrals up to a maximum employer contribution of 1%. In addition, employers match for healthcare of 100% of the next 2% of employee deferrals up to a maximum employer contribution of 2%.

Deferred Retirement Option Plan

Public Act 83 of 2004 amended the State Police Retirement Act to create a Deferred Retirement Option Plan (DROP) for members with 25 years of service. This benefit program allows state police who are eligible to retire to defer their retirement and keep working for up to six years. The participant's pension amount is calculated on the day before the DROP period starts, and a percentage of the equivalent monthly pension is credited to an interest-bearing account in the participant's name. The DROP balance will be available at the time their DROP participation ends. At this time, only Defined Benefit members are eligible for DROP. The balance at the end of the fiscal year for the DROP accounts was \$34.9 million.

Banked Leave Time

Public Act 50 of 2004 amended the State Police Retirement Act to include Banked Leave Time (BLT) for members. BLT is an extension of the State's current annual leave program, which banks a predetermined number of hours per pay period. However, the BLT program will not have an effect on a member's Final Average Compensation calculation.

BENEFIT PROVISIONS - OTHER POSTEMPLOYMENT

Introduction

Benefit provisions of the postemployment benefit plan are established by State statute, which may be amended. Public Act 182 of 1986, as amended, establishes eligibility and benefit provisions for the OPEB plan. Defined members are eligible to receive health, prescription drug, dental, and vision coverage on the first day they start receiving pension benefits (this benefit does not apply to Pension Plus members). There are no ad hoc or automatic increases. The State Police Retirement Act requires joint authorization by DTMB and the Civil Service Commission to make changes to retiree medical benefit plans.

Under the Michigan State Police Retirement Act, all defined benefit retirees have the option of continuing health, dental, and vision coverage. Retirees with this coverage contribute 5%, 10%, and 10% of the monthly premium amount for the health, dental, and vision coverage, respectively. The State funds 95% of the health and 90% of the dental and vision insurance. The employer payroll contribution rate to provide these benefits was 40.67% for fiscal year 2014.

The State Health Plan PPO is by far the most often selected health care option. This plan includes comprehensive coverage traditionally referred to as basic and major medical, with full coverage for most services received in-network after an annual deductible is met. Preventive services are not subject to a deductible and are fully covered if received in-network subject to an annual maximum. Both retail and mail order prescription drug coverage is included. Retiree health, dental, and vision plan benefits have generally matched those in place for active employees.

Retirees are also provided with life insurance coverage equal to 25% of the active life insurance coverage, \$1,000 for spouse and \$1,000 for each dependent under the age of 23. Premiums are fully paid by the State.

Personal Healthcare Fund

A Pension Plus member who became a member of SPRS on or after June 10, 2012 will be enrolled into a Personal Healthcare Fund (PHF), which is a separate account within the State of Michigan 401(k) Plan. The optional second 2% of their contributions plus their employer match are directed into the PHF. These members will also receive a credit into a Health Reimbursement Account (HRA) at termination if they have at least 10 years of service at termination. The credit will be up to \$2,000 for participants.

Notes to Basic Financial Statements (continued)

The number of participants and other relevant financial information are as follows:

Health, Dental, and Vision Plans	2014
Eligible participants	2,771
Participants receiving benefits:	
Health	2,640
Dental	2,630
Vision	2,637
Expenses for the year	\$ 32,783,346
Employer payroll contribution rate	40.67%

NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting and Presentation

The System's financial statements are prepared using the accrual basis of accounting. Contributions from the State are recognized as revenue when due and payable. Benefits and refunds are recognized when due and payable in accordance with the terms of the System.

GASB Statement No. 67 which was adopted during the year ended September 30, 2014, addresses accounting and financial reporting requirements for pension plans. The requirements for GASB Statement No. 67 require 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 receivable and investment balances. The total pension liability, determined in accordance with GASB Statement No. 67, is presented in Note 4 on page 30 and in the Required Supplementary Information on page 42.

Reserves

Public Act 182 of 1986, as amended, created the Reserve for Employee Contributions, Reserve for Employer Contributions, Reserve for Retired Benefit Payments, Reserve for Undistributed Investment Income, and Reserve for Health (OPEB) Related Benefits. The financial transactions of the System are recorded in these reserves as required by Public Act 182 of 1986, as amended. The reserves are described below and details are provided in the supporting schedules.

Reserve for Employee Contributions - Command Officers currently participate on a noncontributory basis. Effective October 1, 2012, troopers and sergeants hired before June 10, 2012 began contributing 1% of their compensation. Troopers hired on or after June 10, 2012 contribute 4% of their compensation. This reserve represents active member contributions and interest less amounts transferred to the Reserve for Retired Benefit Payments for regular and disability retirement, amounts refunded to terminated members, and unclaimed amounts transferred to the income reserve. At September 30, 2014, the balance in this reserve was \$4.4 million.

<u>Reserve for Employer Contributions</u> - All employer contributions are credited to this reserve. Interest from the Reserve for Undistributed Investment Income is credited annually. Amounts are transferred annually from this reserve to the Reserve for Retired Benefit Payments to fund that reserve. At September 30, 2014, the balance in this reserve was \$49.6 million.

Notes to Basic Financial Statements (continued)

Reserve for Retired Benefit Payments - This represents the reserve for payment of future retirement benefits to current retirees. At retirement, a member's accumulated contributions plus interest are transferred into this reserve from the Reserve for Employee Contributions. Monthly benefits, which are paid to the retirees, reduce this reserve. At the end of each fiscal year, an amount is transferred from the Reserve for Employer Contributions to bring the reserve into balance with the actuarial present value of retirement allowances. Also included are reserves for casualty experience (injury or death of a member, or vested former member). The initial actuarial casualty valuation determined the full funding reserve requirements to be allocated from assets of the reserve. All retiree casualty payments are made from this reserve. At September 30, 2014, the balance in this reserve was \$1,217.5 million.

<u>Reserve for Undistributed Investment Income</u> - The net investment earnings (losses) are recorded in this reserve. Interest as authorized by the board is transferred annually to the other reserves. Administrative expenses are paid from this reserve. At September 30, 2014, the balance of this reserve was (\$21.3) million.

Reserve for Health (OPEB) Related Benefits - This reserve is credited with member and employer contributions for retirees' health (including prescription coverage), dental, and vision benefits. Starting in fiscal year 2012, the employer contribution is based on a prefunded basis and represents a level of funding that, if paid on an ongoing basis, is projected to cover normal cost each year and amortize any unfunded actuarial liability (or funding excess) over a period not to exceed thirty years. In addition, in fiscal year 2014, this reserve includes revenue from the federal government for retiree drug subsidy payment (RDS) pursuant to the provisions of Medicare Part D and for the Employee Group Waiver Plan (EGWP). Premiums for health, dental and vision benefits are paid from this reserve. At September 30, 2014, the balance in this reserve was \$77.7 million.

Reporting Entity

The System is a pension and other employee benefit trust fund of the State. 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 other employee benefit trust fund. The System and its Board are not financially accountable for any other entities or other organizations. Accordingly, the System is the only entity included in this financial report.

Benefit Protection

Public Act 100 of 2002 was passed by the Michigan Legislature to protect pension benefits of public employees from alienation (being transferred). Alienation is attachment, garnishment, levy, execution, bankruptcy or other legal process except for divorce orders or eligible domestic relation orders. The statutes governing the System contained an "antialienation" clause to provide for this protection; however, many smaller public pension systems did not have the benefit of this protection. Therefore, Public Act 100 of 2002 was passed to establish legal protection of pension assets that encompasses all public employees.

Fair Value of Investments

Plan investments are reported at fair value. Securities traded on a national or international exchange are valued at the last reported sales price at current exchange rates. Corporate bonds not traded on a national or international exchange are based on equivalent values of comparable securities with similar yield and risk. The fair value of private investments is based on the net assets value reported in the financial statements of the respective investment entity. The net asset value is determined in accordance with governing documents of the investment entity, and is subject to an independent annual audit. Securities purchased with cash collateral under securities lending activities are recorded at estimated fair value. Other investments not having an established market are recorded at estimated fair value.

Investment Income

Dividend and interest income are recognized on the accrual basis. Fair value changes are recorded as investment income or loss. Purchases and sales of investments are recorded as of the trade date (the date upon which the transaction is initiated), except for purchase and sale of mortgages, real estate, and alternative investments, which are recorded as of the settlement date (the date upon which the transaction is ultimately completed). The effect of recording such transactions as of the settlement date does not materially affect the financial statements.

Notes to Basic Financial Statements (continued)

Costs of Administering the System

Each year a restricted general fund appropriation is requested to fund the on-going business operations of the System. These administrative costs are ultimately funded by the System through the regular transfer of funds from the System to the State's general fund based on either a direct cost or allocation basis depending on the nature of the expense. Costs of administering the System are financed by undistributed investment income of the System.

Property and Equipment

Office space is leased from the State on a year to year basis. Office equipment is capitalized if the value exceeds \$5,000. These assets are recorded at cost and are reported net of depreciation in the Statement of Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position. Such assets are depreciated on a straight-line basis over 10 years. The System does not have equipment that falls within these parameters.

Related Party Transactions

<u>Leases and Services</u> - The System leases operating space and purchases certain administrative, data processing, legal and investment services from the State. The space and services are not otherwise available by competitive bid. The following summarizes costs incurred by the System for such services.

	2014
Building Rentals	\$ 8,525
Technological Support	111,898
Attorney General	18,937
Investment Services	353,646
Personnel Services	351,209

<u>Cash</u> - At September 30, 2014, the System had \$14.1 million 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 \$23 for the year ended September 30, 2014.

NOTE 3 – CONTRIBUTIONS AND FUNDED STATUS

Contributions

Command officers currently participate in the System on a noncontributory basis. Effective October 1, 2012, troopers and sergeants hired before June 10, 2012, began contributing 1% of their compensation. Effective October 1, 2013, they began contributing 2% of their compensation. Troopers hired on or after June 10, 2012 contribute 4% of their compensation. Under certain circumstances, members may contribute to the System for the purchase of creditable service, such as military service or maternity leave. The State is required by Public Act 182 of 1986, as amended, to contribute amounts necessary to finance the benefits of its employee and retiree OPEB. Contribution provisions are specified by State statute and may be amended only by action of the State Legislature.

Employer contributions to the System are determined on an actuarial basis using the entry age normal actuarial cost method. Under this method, the actuarial present value of the projected benefits of each individual included in the actuarial valuation is allocated on a level basis over the service of the individual between entry age and assumed exit age. The portion of this cost allocated to the current valuation year is called the normal cost. The remainder is called the actuarial accrued liability. Normal cost is funded on a current basis. For retirement and OPEB benefits, the unfunded (overfunded) actuarial accrued liability as of the September 30, 2014 valuation. The following schedule summarizes pension contribution rates in effect for fiscal year 2014.

Notes to Basic Financial Statements (continued)

Pension Contribution Rates

Benefit Structure	e Member		
Non Command Officers	2.00 %	51.36 %	
Command Officers	0.00	53.30	
Pension Plus	4.00	45.50	

Actual employer contributions for OPEB were \$46.6 million for fiscal year 2014. The fiscal year 2014 annual covered payroll is not yet available. Required employer contributions, based on previous year actuarial valuations, for OPEB included:

- 1. \$8.2 million for fiscal year 2014, for the normal cost of OPEB representing 7.4% (before reconciliation) of annual covered payroll for fiscal year 2013.
- 2. \$38.2 million for fiscal year 2014, for amortization of unfunded actuarial accrued liability representing 34.6% (before reconciliation) of annual covered payroll for fiscal year 2013.

The system is required to reconcile with actuarial requirements annually. Any funding excess or deficiency for pension benefits is smoothed over five years. One-fifth (20%) of the funding excess or deficiency is included in each of the subsequent year's contribution, and is not recognized as a payable or receivable in the accounting records.

Funded Status - Other Postemployment Benefits

For fiscal year 2013, the actuarial accrued liability (AAL) for OPEB was \$603.0 million, and the actuarial value of assets was \$52.2 million resulting in an unfunded actuarial accrued liability (UAAL) of \$550.8 million and a funded ratio of 8.7%. The covered payroll (annual payroll of active employees covered by the plan) was \$110.2 million, and the ratio of the UAAL to the covered payroll was 499.6%.

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 market 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 (In Thousands)

Total Pension Liability	\$ 1,805,551
Plan Fiduciary Net Position	1,250,168
Net Pension Liability	\$ 555,384
Plan Fiduciary Net Position as a Percentage	
of the Total Pension Liability	69.24%
Net Pension Liability as a Percentage	
of Covered Payroll	485.14%
Total Covered Payroll	\$ 114,480

Long-Term Expected Return on 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

Notes to Basic Financial Statements (continued)

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, 2014, are summarized in the following table:

Asset Allocation

Asset Class	Target Allocation	Long Term Expected Real Rate of Return*
Domestic Equity Pools	28.0 %	4.8 %
Alternative Investment Pools	18.0	8.5
International Equity Pools	16.0	6.1
Fixed Income Pools	10.5	1.5
Real Estate and Infrastructure Pools	10.0	5.3
Absolute Return Pools	15.5	6.3
Short Term Investment Pools	2.0	(0.2)
Total	100.0 %	

^{*} Rate of Return does not include 2.5% inflation.

Discount Rate

A discount rate of 8.0% was used to measure the total pension liability (7.0% for the Pension Plus Plan). This discount rate was based on the long term expected rate of return on pension plan investments of 8.0% (7.0% for the Pension Plus Plan). The projection of cash flows used to determine this 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 contribution rates and the member rate. Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the Net Pension Liability to the Discount Rate Assumption

As required by GASB Statement No. 67, the following presents the plan's net pension liability, in thousands, calculated using a discount rate of 8.0% (7.0% for Pension Plus Plan), as well as what the plan's net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower or 1-percentage-point higher:

	1% Decrease 7.0% / 6.0%		Rate	Assumption	1% Increase		
			8.0% / 7.0%		9.0% / 10.0%		
Net Pension Liability/(Asset)	\$	751,224	\$	555,384	\$	390,949	

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.

Notes to Basic Financial Statements (continued)

The total pension liability as of September 30, 2014, is based on the results of an actuarial valuation performed as of September 30, 2013, and rolled-forward using generally accepted actuarial procedures.

Actuarial Valuations and Assumptions

Actuarial valuations for both the pension and 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 trends. Amounts determined regarding the funded status of the plan and the annual required contributions (ARC) are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future.

The schedule of funding progress, presented as Required Supplementary Information (RSI) following the notes to the financial statements, present multi-year trend information about whether the actuarial value of plan net position for the OPEB plan is increasing or decreasing over time relative to the actuarial accrued liabilities for benefits.

The schedules of contributions in RSI present trend information about the amounts contributed to the plans by the employer in comparison to the ARC, 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.

Notes to Basic Financial Statements (continued)

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

Valuation Date 9/30/2013

Actuarial Cost Method Entry Age, Normal

Amortization Method - OPEB Level Percent of Payroll, Closed

Remaining Amortization Period - OPEB 23 years (1)

Asset Valuation Method - OPEB Market

Actuarial Assumptions:

Wage Inflation Rate 3.5%

Investment Rate of Return - Pension

Non Pension Plus Plan
Pension Plus Plan
Investment Rate of Return - OPEB
8.0%

Projected Salary Increases 4.02% - 93.50%, including wage inflation at 3.5% Cost-of-Living Pension Adjustments 2% Annual Non-Compounded with Maximum Annual

Increase of \$500 for those eligible (2)

Healthcare Cost Trend Rate 9.0% Year 1 graded to 3.5% Year 10

Mortality - Pension RP-2000 Male and Female Combined Healthy Life Mortality Table, adjusted for mortality

improvements to 2030 for males and to 2015 for females, using projection scale BB. For retirees, 100% of the table rates were used. For active members, the table is adjusted for mortality improvements to 2030 for males and to 2020 for females, 50% of the table rates were used.

Mortality - OPEB RP-2000 Male and Female Combined Healthy Life Mortality Table, adjusted for mortality

improvements to 2020 using projection scale AA (110% of the male rates were used for ages under 80 plus other adjustments for ages 80-100 and 105% of the female rates were used).

Other Assumptions OPEB only⁽²⁾:

Opt Out Assumption 6% of eligible participants are assumed to opt out of the retiree

health plan

Survivor Coverage 100% of male retirees and 100% of female retirees are assumed

to have coverage continuing after the retiree's death when 2-

person coverage was assumed to be elected

Coverage Election at Retirement 85% of male and 70% of female future retirees are assumed to

elect coverage for 1 or more dependents

Notes: Assumption changes as a result of an experience study for the period 2007 through 2012

have been adopted by the Retirement System for use in the pension annual valuations

beginning with the September 30, 2014 valuation.

⁽¹⁾ Based on the provisions of GASB Statement Nos. 43 and 45 when the actuarial accrued liability for an OPEB Plan is underfunded or overfunded, the difference should be amortized over a period not to exceed thirty years for the fiscal periods beginning on or after June 15, 2006.

⁽²⁾ Applies to individuals hired before June 10, 2012.

Notes to Basic Financial Statements (continued)

NOTE 5 - INVESTMENTS

Investment Authority

Under Public Act 380 of 1965, as amended, the authority for the purchase and the sale of investments resides with the State Treasurer. Investments are made subject to the 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 government bonds and notes, mortgages, real estate, and certain short-term and alternative investments. Investments must be made for the exclusive purposes of providing benefits to active members, retired members and beneficiaries, and for defraying the expenses of investing the assets.

Derivatives

The State Treasurer employs the use of derivatives in the investment of the pension and other employee benefit trust funds (the trust funds).

Derivatives are used in managing the trust fund portfolios, but uses do not include speculation or leverage of investments. Less than 12% of the total trust funds' portfolio has been invested from time to time in future contracts, swap agreements, structured notes, option and forward contracts. State investment statutes limit total derivative exposure to 15% of a fund's total asset value, and restrict uses to replication of returns and hedging of assets. Swap agreements represent the largest category of derivatives investments subject to this limitation. Option and Future contracts traded daily on an exchange and settling in cash daily or having a limited and fully defined risk profile at an identified, fixed cost are not subject to the derivative exposure limitation.

The derivative fair values are reported on the Statement of Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position as of September 30, 2014, in their respective investment pools fair value. Derivative net increases and decreases are reported on the Statement of Changes in Pension Plan and Other Postemployment Benefit Plan Fiduciary Net Position for fiscal year ended September 30, 2014, under "Investment income gain/(loss)", in "Net increase (decrease) in fair value of investments". Bond interest, swap payments, and dividends are reported under "Investment Income", in "Interest, Dividends, and other".

Derivative Investment Table as of September 30, 2014 (In Thousands):

	Net								
Investment and Investment Type	Percentage of Fair Value	Notional Value	Investments At Fair Value	Increase (Decrease) in Fair Value	Investment Income	Fair Value Subject to Credit Risk			
Structured Notes Abolute Return Investments	0.0%			\$ 964.5					
US Treasury Bond Future Contracts Fixed Income Investments	0.0%	\$ 39.2	\$ 0.1	(10.6)					
Option Contracts Equity Investments	0.0%	(111.2)	(0.7)	2,205.9					
Swap Agreements International Equity Investments	2.1%	33,073.4	28,234.9	1,556.4	\$ (27.6)	\$ 1,133.5			
Swap Agreements Equity Investments	0.1%	20,583.2	1,496.2	2,564.6	(74.9)	806.3			

Notes to Basic Financial Statements (continued)

To diversify the trust funds' portfolio, the State Treasurer has entered into international swap agreements with investment grade counterparties, which are tied to stock market indices in forty-five foreign countries. Generally, one quarter or less of the notional amount tied to foreign stock market indices is usually hedged against foreign currency fluctuations. The swap agreements provide that the System will pay quarterly over the term of the swap agreements, interest indexed to the three month London Inter-Bank Offer Rate (LIBOR), adjusted for an interest rate spread, on the notional amount stated in the agreements. International equity swap agreement maturity dates range from October 2014 to December 2015. The U.S. Domestic LIBOR based floating rate notes and other investments are held to correspond with the notional amount of the international swap agreements. The value of the international synthetic equity structures is a combination of the value of the swap agreements and the value of the notes and other investments. The book value represents the cost of the notes and other investments. The current value represents the current value of the notes and other investments and the change in the value of the underlying indices from the inception of the swap agreements. The current value is used as a representation of the fair value based on the intention to hold all swap agreements until maturity. At the maturity of the swap agreements, the trust funds will either receive the increase in the value of the equity indices from the level at the inception of the agreements, or pay the decrease in the value of the indices. The combined swap structure generally realizes gains and losses on a rolling basis.

Domestic Equity Pool swap agreements provide that the System will pay interest quarterly or annually over the term of the swap agreements, interest indexed to the LIBOR, adjusted for an interest rate spread, on the notional amount stated in the agreements. Domestic equity swap agreement maturity dates range from October 2014 to July 2015. Domestic equity swaps value is a combination of the value of the swap agreements and the value of short-term investments. Book value represents the cost of short-term and equity investments. Current value represents the fair value of the short-term investments and the change in the value of the underlying indices from the inception of the swap agreements. Domestic equity swaps' increase/(decrease) primarily reflects the net changes in the domestic indices and short-term investments.

Counterparty credit risk is the maximum loss amount that would be incurred if the counterparties to the derivative instrument failed to perform according to the terms of the contract, without respect to any collateral or other security, or netting arrangement.

To get enhanced passive exposure to the Dow Jones UBS Commodity Total Return Index, the State Treasurer purchased structured notes from investment grade counterparties for the Absolute Return Pools. These notes are fully collateralized and pay cash rates on the underlying collateral, as well as, providing the enhanced index return. Similar to a swap agreement with prices changing with the underlying index fluctuations, the notes differ due to their daily put option which allows the structure to end and settle before the note's maturity. As of September 30, 2014, all of the notes have been sold.

The State Treasurer traded U.S. Treasury bond future contracts to manage duration and yield curve exposure.

To provide downside protection and enhance current income, the State Treasurer traded covered equity options on single securities for the Absolute Return and Equity Investment pools. Put options are used to protect against large negative moves in single stocks, as well as, to express interest in a security that is trading well below its intrinsic value. Call options have been used to achieve current income on single equity securities that are trading near their intrinsic value. At year end, September 30, 2014, the Absolute Return Investment pool options had expired.

Securities Lending

State statutes allow the System to participate in securities lending transactions, and the System has, by way of an Agreement, authorized Credit Suisse, the agent bank, to lend the System's securities to broker-dealers and banks pursuant to a form of loan agreement.

During the fiscal years, the agent bank lent, at the direction of the State Treasurer, the System's securities and received cash (United States) as collateral. The types of securities lent were equity, and fixed income, which includes government and corporate bonds and notes. Borrowers were required to deliver collateral for each loan equal to (i) in

Notes to Basic Financial Statements (continued)

case of loaned securities denominated in United States dollars or whose primary trading market was located in the United States or sovereign debt issued by foreign governments, 102% of the fair value of the loaned securities; and (ii) in the case of loaned securities not denominated in United States dollars or whose primary trading market was not located in the United States, 105% of the fair value of the loaned securities.

The agent bank agreed to indemnify the System by purchasing replacement securities, or returning cash collateral in the event borrower failed to return the loaned security or pay distributions thereon, due to the borrower's insolvency.

Under Master Securities Lending Agreements between the System and each borrower, the System and the borrowers have the right to terminate all securities lending transactions on demand. The cash collateral received on each loan was invested in assets held in a collateral account dedicated to the System. As of September 30, 2014, such assets had an average weighted maturity to next reset of 3.1 years and an average weighted maturity of 11.9 years. Because the loans are terminable at will, their duration did not generally match the duration of the investments made with cash collateral. On September 30, 2014, the System had no credit risk exposure to borrowers. The cash received for securities on loan for the System as of September 30, 2014 was \$91,480,797. The fair value of assets held in the dedicated collateral account at the custodian for the System as of September 30, 2014 was \$88,398,179. The carrying amount, which is the fair value, of securities on loan for the System as of September 30, 2014 was \$89,874,091.

Risk

In accordance with GASB Statement No. 40, investments require certain disclosures regarding policies and practices, and the risks associated with them. Credit risk (including custodial credit risk and concentration of credit risk), interest rate risk, and foreign currency risk are discussed in the following paragraphs. Amounts represent the pro rata share of the underlying investments as required by GASB Statement No. 40. These are held in internal investment pools and reported as such in the financial statements.

<u>Credit Risk</u> - Credit risk is the risk that an issuer will not fulfill its obligations.

- Short-Term Fixed Income Investments Prime commercial paper investments must be rated A-1 or P-1 at the time of purchase as rated by the two national rating services as specified in Public Act 314. Borrowers must have at least \$400.0 million in commercial paper outstanding, and the State Treasurer may not invest in more than 10% of the borrowers' outstanding debt. The investments are further limited to \$200.0 million in any borrower, unless the borrower has an A-1+ rating in which case the investment is not to exceed \$300.0 million.
- Long-Term Fixed Income Investments Investment grade and non-investment grade securities may be acquired in compliance with parameters set for in Public Act 314 of 1965, as amended, and the State Treasurer's Investment Policy Statement for the System. Public Act 314 defines investment grade as investments in the top four major grades, rated by two national rating services, as specified in Public Act 314. At September 30, 2014, the System was in compliance with the Public Act 314 and the Investment Policy Statement in all material aspects.

Notes to Basic Financial Statements (continued)

Rated Debt Investments
(In thousands)
As of September 30, 2014

Investment Type	Fair Value	S&P	Fair Value	Moody's
Short Term	\$78,574	A-1	\$78,574	P-1
Government Securities				
U.S. Agencies - Sponsored	-	AAA	6,074	Aaa
	6,074	AA	-	Aa
Corporate Bonds & Notes				
	1,403	AAA	2,768	Aaa
	11,301	AA	9,121	Aa
	35,499	A	29,675	A
	37,080	BBB	43,351	Baa
	9,324	BB	10,243	Ba
	13,307	В	14,155	В
	2,341	CCC	2,319	Caa
	64	CC	1,025	Ca
	-	C	1	C
	722	D	-	D
	8,359	NR	6,742	NR
International ¹				
	3,853	AA	5,618	Aa
	9,726	A	6,716	A
	4,315	BBB	6,771	Baa
	2,291	NR	1,080	NR
Securities Lending Collateral				
Short Term	3,274	A-1	3,274	P-1
	8,793	AAA	12,446	Aaa
	8,019	AA	5,491	Aa
	1,125	A	-	A
		BBB	337	Baa
	337	BB	63,570	Ba
	3,277	CCC	2,940	Caa
	-	CC	337	Ca
	63,570	NR	-	NR
Total	\$312,628		\$312,628	

NR - not rated

<u>Custodial Credit Risk</u> - Custodial credit risk for investments is the risk that, in the event of a failure of the counterparty, the State 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:

- The counterparty; or
- The counterparty's trust department or agent but not in the government's name.

¹ International Investment types consist of domestic floating rate note used as part of a Swap strategy.

Notes to Basic Financial Statements (continued)

The State Treasurer does not have a policy for custodial credit risk. However, the State's custodial bank credit rating is A+ at September 30, 2014. As of September 30, 2014, no securities were exposed to custodial credit risk.

<u>Concentration of Credit Risk</u> - Concentration of credit risk is the risk of loss attributed to the magnitude of a government's investment in a single issuer.

Other than obligations issued, assumed or guaranteed by the United States, its agencies or United States government sponsored enterprises, the System is prohibited by Public Act 314 of 1965, as amended, from investing in more than 5% of the outstanding obligations of any one issuer or investing more than 5% of a System's assets in the obligations of any one issuer. When calculating the amount of outstanding obligations, the System includes publicly issued and privately held debt.

At September 30, 2014, the System was in compliance with these limitations on credit risk.

<u>Interest Rate Risk - Fixed Income Investments</u> - Interest rate risk is the risk that changes in interest rates of debt investments will adversely affect the fair value of an investment.

The State Treasurer's policy states that cash equivalents are invested in short-term fixed income securities with an average weighted maturity of less than one year to provide liquidity and safety of principal from capital market and default risk. At September 30, 2014, the fair value of the System's prime commercial paper was \$78.6 million with the weighted average maturity of 25 days.

The State Treasurer does not have a policy regarding interest rate risk for long-term debt investments. However, the trust funds are invested with a long-term strategy. The goal is to balance higher returns while accepting minimum risk for the return. Analyzing the yield curve on individual securities as compared to U.S. Treasuries determines, in part, what is an acceptable risk for the return. Therefore, market conditions such as lower interest rates result in shorter duration and higher interest rates result in longer duration.

Debt Securities (in thousands) As of September 30, 2014

	Fa	nir Value	Effective Duration in Years
Government			
U. S. Treasury	\$	25,153	4.0
U. S. Agencies - Backed		11,621	4.8
U. S. Agencies - Sponsored		6,074	5.1
Corporate		119,399	4.9
International*			
Corporate		20,185	0.2
Total	\$	182,432	

Debt Securities are exclusive of Securities Lending Collateral.

^{*}International contains Corporate Debt Securities as a part of their derivative strategies.

The interest rates reset on a quarterly basis for these securities.

Notes to Basic Financial Statements (continued)

<u>Foreign Currency Risk</u> - Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment or deposit.

The System invests in various securities denominated in foreign currencies. Authorized global securities include equities, fixed income, mutual funds, real estate, and limited partnerships. These investments are limited to 30% of the total assets of the System with additional limits of not more than 5% of the outstanding global securities of any one issuer and no more than 5% of the system's assets in the global securities of any one issuer. In additions to these limits, the State Treasurer cannot acquire securities in companies that have active business operations in state sponsors of terror as identified by the United States Secretary of State. At September 30, 2014, the total amount of foreign investment subject to foreign currency risk was \$225.6 million, which amounted to 17.0% of total investments (exclusive of securities lending collateral) of the System.

Notes to Basic Financial Statements (continued)

Foreign Currency Risk (in thousands) As of September 30, 2014

				Alt. Invest.,							
				Real Estate,				Fixed	Iı	nternational	
			8	& Infrastructure		Equity		Income	D	erivatives*	
				Fair Value	F	air Value	Fair Value]	Fair Value	
Region	Country	Currency		inUS\$	j	nUS.\$		inUS.\$		inUS.\$	
AMERICA											
	Argentina	Peso			\$	3					
	Brazil	Real				1	\$	284			
	Canada	Dollar				29			\$	32	
	Mexico	Peso				221	\$	2,342			
<u>CARIBBEAN</u>	Ī										
	Bernuda	Dollar				329					
	Cayman Islands	Dollar				318					
EUROPE											
	European Union	Euro	\$	22,431		2,162				(6)	
	Switzerland	Franc				1,008				15	
	Sweden	Krona				262					
	Denmark	Krone				80					
	Norway	Krone				727				5	
	U.K.	Sterling		229		1,660				(191)	
<u>PACIFIC</u>											
	Australia	Dollar				70				(48)	
	Hong Kong	Dollar				60				29	
	Japan	Yen				8				(7)	
	New Zealand	Dollar								(10)	
	Philippines	Peso						1,449			
	Singapore	Dollar				268				9	
	South Korea	Won				200				(38)	
MIDDLE EA	<u>ST</u>										
	Israel	Shekel				15					
<u>VARIOUS</u>				29,133		162,781				(228)	
	Total		\$	51,793	\$	170,203	\$	4,076	\$	(439)	

^{*} International derivatives' market value exposure to foreign currency risk is the net amount of unrealized gains and unrealized losses. Maturity dates on these investments range from October 2014 through December 2015 with an average maturity of 0.5 years.

Notes to Basic Financial Statements (continued)

NOTE 6 – ACCOUNTING CHANGES

GASB issued Statement No. 65, *Items Previously Reported as Assets and Liabilities*. This Statement establishes accounting and financial reporting standards that reclassify, as deferred outflows of resources or deferred inflows of resources, certain items that were previously reported as assets and liabilities and recognizes, as outflows of resources or inflows of resources, certain items that were previously reported as assets and liabilities. The provisions of this Statement are effective for financial statements for periods beginning after December 15, 2012. This Statement was implemented in fiscal year 2014.

The System implemented GASB Statement No. 67; Financial Reporting for Pension Plans an amendment of GASB Statement No. 25. The primary purpose of the valuation for financial reporting is to provide a consistent, standardized methodology that allows comparability of data and increased transparency of the pension liability across plans. To do so, GASB requires a different approach for determining the reported Net Pension Liability (NPL), as compared to the previously disclosed unfunded actuarial accrued liability (UAAL). The UAAL mirrored the unfunded actuarial obligation calculated by an external actuary for funding purposes and represented the excess of the actuarial accrued liability (AAL) over the actuarial value of assets (AVA). Under GASB Statement No. 67, the UAAL has been replaced by the NPL, which represents the excess of the total pension liability (TPL) over fiduciary net position. There are considerable differences between the two methods. Conceptually, the UAAL is the actuary's measure of the additional amount of assets needed to pay all benefits earned to date by current plan members, while the new NPL is a calculation of the actuarial present value of projected benefit payments to be provided through the pension plan to current active and inactive plan members that is attributed to those members' past periods of service in excess of the plan's fiduciary net position. The difference between the UAAL and NPL is reflected in the different methodologies used to calculate the TPL and AAL.

NOTE 7 – ACCOUNTING PRONOUNCEMENTS

GASB issued Statement No. 68, Accounting and Financial Reporting for Pensions - An Amendment of GASB Statement No. 27, Accounting for Pensions by State and Local Governmental Employers, as well as the requirements of Statement No. 50, Pension Disclosures, as they relate to pensions that are provided through pension plans administered as trusts or equivalent arrangements that meet certain criteria. The requirements of Statements 27 and 50 remain applicable for pensions that are not covered by the scope of this Statement. The objective of this Statement is to improve the decision-usefulness of information in employer and governmental nonemployer contributing entity financial reports and will enhance its value for assessing accountability and interperiod equity by requiring recognition of the entire net pension liability and a more comprehensive measure of pension expense. This Statement is effective for participating employers for their fiscal years beginning after June 15, 2014.

NOTE 8 – COMMITMENTS AND CONTINGENCIES

Under the Administrative Procedures Act, members may appeal a decision by the Board. Once the administrative procedure has been exhausted, the decision may be appealed in Michigan's court system. Various cases that have exhausted the administrative procedures have been appealed in the court system. These cases are in the normal course of business and the System does not anticipate any material loss as a result of the contingent liabilities.

Required Supplementary Information

Schedule of Funding Progress – Other Postemployment Benefit Plan

Expressing the actuarial value of assets as a percentage of the actuarial accrued liability provides one indication of the OPEB Plan's funding status. Analysis of this percentage over time indicates whether the Plan is becoming financially stronger or weaker. Generally, the greater this percentage, the stronger the Plan. Trends in unfunded actuarial accrued liability and annual covered payroll are both affected by inflation. Expressing the unfunded or overfunded actuarial accrued liability as a percentage of annual covered payroll approximately adjusts for the effects of inflation and aids analysis of progress made in accumulating sufficient assets to pay benefits when due. Generally, the smaller this percentage, the stronger the Plan.

Other Postemployment Benefits (\$ in millions)

Valuation Date Sept 30	Actua Value Asse (a)	e of ets	Actua Accru Liabi (AAL) En (b)	ied lity try Age	Unfun (Overfu Accrued I (UAA (b-a	nded) iability L)	Funded Ratio (a/b)	Pa	vered yroll (c)	UAAL as a % of Covered Pay ((b-a)/c)	-
2006			\$	944.4	\$	944.4	0.0 %	\$	115.9	814.	9 %
2007				918.1		918.1	0.0		118.2	776.	7
2008				963.0		963.0	0.0		120.7	797.	7
2009				882.3		882.3	0.0		123.2	715.	9
2010				1,055.9		1,055.9	0.0		118.6	890.	5
2011				994.7		994.7	0.0		110.3	902.	0
2012 1	\$	33.0		599.1		566.1	5.5		104.9	539.	8
2013		52.2		603.0		550.8	8.7		110.2	499.	6

¹ Revised investment rate of return from 4% to 8% due to prefunding

Required Supplementary Information (continued)

Schedule of Changes in Net Pension Liability (In Thousands)

	Fiscal Year		
		2014	
Total Pension Liability			
Service cost	\$	21,142	
Interest		134,317	
Changes of benefit terms		-	
Differences between expected and actual experience			
Changes of assumptions		36,683	
Benefit payments, including refunds of member contributions		(110,551)	
Net Change in Total Pension Liability		81,591	
Total Pension Liability - Beginning		1,723,960	
Total Pension Liability - Ending (a)	\$	1,805,551	
Plan Fiduciary Net Position			
Contributions - Employer	\$	58,391	
Contributions - Member		2,174	
Net Investment Income		174,085	
Benefit payments, including refunds of member contributions		(110,551)	
Administrative and Other Expense		(575)	
Net Change in Plan Fiduciary Net Position	\$	123,524	
Plan Fiduciary Net Position - Beginning	\$	1,126,643	
Plan Fiduciary Net Position - Ending (b)	\$	1,250,168	
Net Pension Liability (Assets) - Ending (a) - (b)	\$	555,384	
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability		69.24%	
Covered Employee Payroll	\$	114,480	
Net Pension Liability as a Percentage of Covered Employee Payroll		485.14%	

Required Supplementary Information (continued)

Schedule of Net Pension Liability

				Plan Net		Net Pension
				Position as		Liability as
	Total		Net	% of Total		% of
Year Ended	Pension	Plan Net	Pension	Pension	Covered	Covered
Sept. 30	Liability	Position	Liability	_Liability_	Payroll	Payroll
2014	\$ 1.805.551.309	\$ 1.250.167.799	\$ 555.383.510	69.24%	\$ 114.479.912	485.14%

Schedules of Contributions

Pension Benefits

Fiscal Year Ended Sept. 30	Annual Required Contribution (ARC) ¹	Actual Employer Contribution	Contribution Deficiency (Excess)	Covered Payroll	Actual Contribution as a % of Covered Payroll
2005	\$ 32,151,494	\$ 26,607,572	\$ 5,543,922	\$ 117,648,748	22.62 %
2006	36,063,260	26,103,923	9,959,337	115,894,652	22.52
2007	32,386,761	24,323,324	8,063,437	118,209,401	20.58
2008	33,669,820	34,364,943	(695,123)	120,723,943	28.47
2009	36,697,604	35,434,912	1,262,692	123,237,957	28.75
2010	41,607,229	37,897,934	3,709,295	118,570,985	31.96
2011	47,247,573	38,573,946	8,673,627	110,279,709	34.98
2012	52,275,891	40,686,857	11,589,034	104,875,847	38.80
2013	57,667,657	49,004,314	8,663,343	110,244,195	44.45
2014	61,400,958	58,391,310	3,009,648	114,479,912	51.01

¹ Pursuant to Public Act 22 of 2007, the System's assets were revalued to their actual market value as of September 30, 2006. The five-year smoothing began again in fiscal year 2008.

Other Postemployment Benefits

Fiscal Year Ended Sept. 30	Annual Required Contribution (ARC)	Actual Employer Contribution	Other Governmental Contribution	Percentage Contributed
2007	\$ 59,691,819	\$ 27,840,439		46.6 %
2008	59,027,965	29,131,474	\$ 277,601	49.8
2009	63,928,600	29,841,208	371,752	47.3
2010	60,004,401	32,890,501	321,844	55.3
2011	73,690,143	31,627,140	3,643,725	47.9
2012	68,335,401	46,190,655	1,061,040	69.1
2013^{-1}	46,803,163	42,858,381	2,800,949	97.6
2014	46,382,746	46,614,502	1,757,525	104.3

¹ Revised actuarial assumptions.

Required Supplementary Information (continued)

Schedule of Investment Returns

Fiscal Year	Annual Return ¹
2014	13.97%

¹ Annual money-weighted rate of return, net of investment expenses

Note to Required Supplementary Information

NOTE A - DESCRIPTION

Ten year historical trend information designed to provide information about the System's progress made 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 reader to assess the progress made by the System in accumulating sufficient assets to pay pension and other postemployment benefits as they become due. Because this is the eighth year the system is reporting other postemployment benefits in accordance with GASB Statement No. 43, only eight 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 and other postemployment benefit obligations as a factor.

The Schedule of Funding Progress and Schedules of Contributions are reported as historical trend information. The Schedule of Funding Progress is presented to measure the progress being made to accumulate sufficient assets to pay benefits when due. The Schedules of Contributions are presented to show the responsibility of the Employer in meeting the actuarial requirements to maintain the System on a sound financial basis.

The Schedule of Changes in Net Pension Liability, Schedule of Net Pension Liability, Schedule of Contributions, and Schedule of Investment returns are schedules that are required in implementing GASB Statement No. 67. The two schedules of the Net Pension Liability represents in actuarial terms, the accrued liability less the market 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 performance, net of pension plan investment expense, adjusted for the changing amounts actually invested.

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

Note to Required Supplementary Information (continued)

Valuation:

Actuarally determined contribution amounts are calculated as of September 30 each year, which is one day prior to the beginning of the fiscal year in which contributions are reported.

Methods and Assumptions Used to Determine Contributions for Fiscal Year 2014:

Actuarial Cost Method Entry Age, Normal

Amortization Method Level Percent of Payroll, Closed

Remaining Amortization Period 23 Years

Asset Valuation Method 5-Year Smoothed Market

Inflation 2.5%

Salary Increases 3.5% Wage Inflation

Investment Rate of Return

(net of investment and administrative expenses)

Non Pension Plus Plan
Pension Plus Plan
7.0%

Retirement Age Experience-based table of rates that are specific to the type of eligibility conditions.

Mortality RP-2000 Combined Healthy Life Mortality Table, adjusted for mortality improvements

to 2020 using projection scale AA (110% of the male rates were used for ages under 80

plus other adjustments for ages 80-100 and 105% of the female rates were used).

Supporting Schedules

Summary Schedule of Pension Plan Administrative and Other Expenses For Fiscal Year Ended September 30, 2014

	2014
Personnel Services:	
Staff Salaries	\$ 229,889
Retirement and Social Security	43,574
Other Fringe Benefits	15,052
Total	288,515
Professional Services:	
Accounting	14,103
Actuarial	42,127
Attorney General	18,937
Audit	47,695
Consulting	1,364
Medical	 9,711
Total	133,937
Building Equipment:	
Building Rentals	8,525
Equipment Purchase, Maintenance, and Rentals	 336
Total	8,862
Miscellaneous:	
Travel and Board Meetings	567
Office Supplies	382
Postage, Telephone, and Other	24,745
Printing	6,203
Technological Support	111,898
Total	143,794
Total Administrative and Other Expenses	\$ 575,108

Summary Schedule of OPEB Plan Administrative and Other Expenses For Fiscal Year Ended September 30, 2014

	 2014
Staff Salaries	\$ 62,694
Health Fees	1,246,354
Dental Fees	87,837
Vision Fees	12,978
Total Administrative and Other Expenses	\$ 1,409,863

Supporting Schedules (continued)

Schedule of Investment Expenses For Fiscal Year Ended September 30, 2014

	2014		
Real Estate Operating Expenses Securities Lending Expenses	\$	52,824 1,497,249	
Other Investment Expenses ¹ ORS-Investment Expenses ²		353,646	
Custody Fees		23,461	
Management Fees		3,394,336	
Research Fees		66,054	
Total Investment Expenses	\$	5,387,568	

¹Refer to Investment Section for fees paid to investment professionals.

Schedule of Payments for Professional Services For Fiscal Years Ended September 30, 2014

	2014	
Assessmenting	¢.	14 102
Accounting	\$	14,103
Actuary		42,127
Attorney General		18,937
Independent Auditors		47,695
Consulting		1,364
Medical		9,711
Total Payment to Consultants	\$	133,936

²Does not exclude Treasury Civil Service fees recorded as a pass through in the Schedule of Investment Fees - State Treasury. As of September 30, 2014 fees totaled \$4,596.

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Supporting Schedules (continued)

Detail of Changes in Plan Fiduciary Net Position (Pension and Other Postemployment Benefits)

For the Year Ended September 30, 2014 (In Thousands)

Contributions	For the Tear Ended September 50, 201	En	nployee tributions	Conti	ployee ributions ion Plus	mployer tributions	Cont	nployer tributions sion Plus
Total contributions	Member contributions Employer contributions	\$	1,604	\$	570	\$ 56,786	\$	1,606
Net increase (decrease) in fair value of investments Intreest, dividends, and other Investment expenses: Real estate operating expenses Other investment expenses Securities lending activities: Securities lending income Securities lending expenses Net investment income (loss) Total additions 1,604 570 56,786 1,606 Deductions: Benefits paid to plan members and beneficiaries: Retirement benefits Health benefits Dental/vision benefits Refunds of contributions Administrative and other expenses Total deductions Net Increase (Decrease) Before Other Changes Before Other Changes 1,604 570 56,778 1,606 Other Changes in Net Position: Interest allocation 45 Transfers upon retirement (107) Transfers of employer shares Total other changes in net position Net Increase (Decrease) in net position Net Position Restricted for Pension Benefits and OPEB: Beginning of Year 1,987 285 (11,506) 2,979			1,604		570	56,786		1,606
Deductions: Benefits paid to plan members and beneficiaries: Retirement benefits Health benefits Dental/vision benefits Refunds of contributions 8 Administrative and other expenses Total deductions - - 8 -	Net increase (decrease) in fair value of investments Interest, dividends, and other Investment expenses: Real estate operating expenses Other investment expenses Securities lending activities: Securities lending income Securities lending expenses				-			-
Benefits paid to plan members and beneficiaries: Retirement benefits Health benefits Dental/vision benefits Refunds of contributions 8 Administrative and other expenses - - 8 - Total deductions - - 8 - Net Increase (Decrease) Before Other Changes 1,604 570 56,778 1,606 Other Changes in Net Position:	Total additions		1,604		570	56,786		1,606
Before Other Changes 1,604 570 56,778 1,606 Other Changes in Net Position: Interest allocation 45 79 Transfers upon retirement (107) 1,495 (1,853) Total other changes in net position (63) - 1,495 (1,774) Net Increase (Decrease) in net position 1,541 570 58,272 (169) Net Position Restricted for Pension Benefits and OPEB: Beginning of Year 1,987 285 (11,506) 2,979	Benefits paid to plan members and beneficiaries: Retirement benefits Health benefits Dental/vision benefits Refunds of contributions Administrative and other expenses		<u>-</u>					
Interest allocation 45 79 Transfers upon retirement (107) 1,495 (1,853) Total other changes in net position (63) - 1,495 (1,774) Net Increase (Decrease) in net position 1,541 570 58,272 (169) Net Position Restricted for Pension Benefits and OPEB: 3,987 285 (11,506) 2,979			1,604	,	570	56,778		1,606
Net Position Restricted for Pension Benefits and OPEB: Beginning of Year 1,987 285 (11,506) 2,979	Interest allocation Transfers upon retirement Transfers of employer shares		(107)		<u> </u>			(1,853)
for Pension Benefits and OPEB: Beginning of Year 1,987 285 (11,506) 2,979	Net Increase (Decrease) in net position		1,541		570	58,272		(169)
End of Year \$ 3,528 \$ 855 \$ 46,766 \$ 2,811	for Pension Benefits and OPEB:		1,987		285	 (11,506)		2,979
	End of Year	\$	3,528	\$	855	\$ 46,766	\$	2,811

Supporting Schedules (continued)

Retired Benefit Payments	Retired Benefit Payments Pension Plus	Undistributed Investment Income	OPEB Related Benefits	Total
			\$ 1,199 46,615 1,758	\$ 3,373 105,006 1,758
			49,571	110,136
		\$ 153,425 23,687	7,589 1,180	161,015 24,867
		(50) (3,669)	(2) (169)	(53) (3,837)
		2,109	119	2,228
		(1,417) 174,085	(81) 8,637	(1,497) 182,752
		174,085	58,207	292,858
110.542				110.542
110,543			28,749	110,543 28,749
			2,625	2,625
		575	1,410	8 1,985
110,543		575	32,783	143,909
(110,543)		173,510	25,424	148,948
146,456 107		(146,580)		
358 146,922		(146,580)		
			25.424	140.040
36,379	-	26,930	25,424	148,948
1,181,099		(48,201)	52,240	1,178,884
\$ 1,217,478	\$ -	\$ (21,271)	\$ 77,664	\$ 1,327,832

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Prepared by Michigan Department of Treasury, Bureau of Investments

Jon M. Braeutigam, Chief Investment Officer

Report on Investment Activity
Asset Allocation
Investment Results
List of Largest Stock Holdings
List of Largest Bond Holdings
Schedule of Investment Fees
Schedule of Investment Commissions
Investment Summary

Report on Investment Activity

INTRODUCTION

The State Treasurer reports investment activity quarterly to the Investment Advisory Committee (Committee), which reviews the investments, goals, and objectives of the retirement funds and may submit recommendations regarding them to the State Treasurer. The Investment Advisory Committee may also, by a majority vote, direct the State Treasurer to dispose of any holdings that, in the Committee's judgment, are not suitable for the funds involved, and may, by unanimous vote, direct the State Treasurer to make specific investments.

The Investment Advisory Committee was created by Act 380 of the Public Acts of 1965. The three public members of the five-member committee are appointed by the Governor with the advice and consent of the Senate for three-year terms. The Director of the Department of Licensing and Regulatory Affairs and the Director of the Department of Technology, Management & Budget are ex-officio members. As of September 30, 2014, members of the Committee were as follows: Naif A. Khouri (public member), James B. Nicholson (public member), L. Erik Lundberg, CFA (public member), Mike Zimmer (ex-officio member), and David Behen (ex-officio member). The public members serve without pay, but may be paid actual and necessary travel and other expenses.

INVESTMENT POLICY & GOALS

Investment policy states that the fiduciary will operate within standard investment practices of the prudent person and in accordance with Public Employee Retirement System Investment Act 314 of 1965. The fiduciary is authorized to invest in government obligations, corporate obligations, various short-term obligations, corporate (domestic and international) stocks, private equity interests, mutual funds, real estate interests, and other investments subject to specific parameters. Above all, trust fund assets are to be invested for the exclusive benefit of the members of the System, in a fiduciary capacity.

The System's Proxy Voting Policy sets forth directives on various issues including: Boards of Directors, corporate governance, social issues, corporate restructurings and defenses. All proxies are reviewed and voted in accordance with the System's policy.

The primary function of the System is to provide retirement, survivor and disability benefits along with health and other postemployment benefits to its members. The State Treasurer is the sole investment fiduciary and custodian of the System's investments pursuant to State law. The goals of the System are:

- 1. Maintain sufficient liquidity to pay benefits.
- 2. Meet or exceed the actuarial assumption over the long term.
- 3. Perform in the top half of the public plan universe over the long term.
- 4. Diversify assets to preserve capital and avoid large losses.
- 5. Exceed individual asset class benchmarks over the long term.

The strategy for achieving these goals is carried out by investing the assets of the System according to a five-year asset allocation model. The System currently invests in seven different asset classes, which provides for a well-diversified portfolio.

Report on Investment Activity (continued)

Asset Allocation (Excludes Collateral on Loaned Securities)

Investment Category	As of 9/30/14 Actual %	Five-Year Target %
Domestic Equity Pools	29.6 %	31.0 %
International Equity Pools	15.2	16.0
Alternative Investment Pools	17.2	16.0
Real Estate and Infrastructure Pools	9.2	9.0
Fixed Income Pools	11.6	15.0
Absolute Return Pools	10.8	9.0
Short Term Investment Pools	6.4	4.0
TOTAL	100.0 %	100.0 %

INVESTMENT AUTHORITY

Pursuant to State Law (Section 91 of Act No. 380 of the Public Acts of 1965, as amended, and Section 12c of Act No. 314 of 1965 as amended), the State Treasurer, State of Michigan, is the investment fiduciary for the following four State sponsored retirement systems: Michigan Public School Employees' Retirement System, Michigan State Police Retirement System, and Michigan Judges' Retirement System.

Act No. 314 of the Public Acts of 1965, as amended, authorizes the investment of assets of public employee retirement systems or plans created and established by the State or any political subdivision.

INVESTMENT RESULTS

Total Portfolio Results

For the fiscal year ended September 30, 2014, the total System's rate of return was 15.5% for the Pension Plan and 15.0% for the OPEB Plan as compiled by State Street Investment Analytics. Annualized rates of return for the three, five, and ten year periods ending September 30, 2014 were: 13.7%, 11.2%, and 7.7% respectively for the Pension Plan.

In a repeat of the prior year, in fiscal year 2014 the U.S. stock market made another new all-time high, the U.S. economy continued to add jobs, interest rates remained historically low, and inflation was under control.

At its December 2013 meeting, the Federal Reserve Board decided to begin to reduce, or taper, the size of the Quantitative Easing (QE) policy from \$85 billion per month to \$75 billion. By September 2014, the Fed's monthly asset purchase was down to \$15 billion per month, and it is widely expected to end the program by October 2014.

In various statements, the Fed has tied stimulus programs such as QE to the rate of inflation and the health of the U.S. jobs market. Over the past 12 months, the rate of inflation has averaged just less than 1.6%. In May 2014, after more than 6 years, the jobs market finally recovered the number of jobs lost during the recession. By September of 2014, the unemployment rate fell below 6% for the first time since 2008, hitting 5.9%.

Report on Investment Activity (continued)

The past year did not pass without its share of notable events each having the potential strong enough to seriously destabilize global economies. First, a regional conflict between Russia and Ukraine was ignited in February 2014 as Russia began its quest to control and eventually annex Crimea. In response, a number of countries, including the United States, issued economic sanctions against Russia. As a consequence to the sanctions, Russian gas exports to Europe and Ukraine may become disrupted. Thirty percent of Europe's gas is imported from Russia, half of which flows through Ukrainian pipelines.

A second threat is due to the growing power of a terrorist organization called Islamic State of Iraq and the Levant, also known as ISIS. ISIS claims religious authority over all Muslims worldwide, and it wants to bring Muslim-inhabited regions of the world under its political control, beginning with the region of the Levant which approximately covers Syria, Jordan, Israel/Palestine, Lebanon, Cyprus, and part of southern Turkey.

A third threat is the spread of a deadly virus called Ebola from West Africa. The virus was first identified in the 1970's, but until recently it was contained to mostly remote locations in Africa. However, the number of infections due to the 2014 outbreak has surpassed all cases prior to this year in total. The virus has recently spread to Europe and the United States. With a fatality rate of approximately 70%, should the virus continue to spread to additional, more populous countries, Ebola has the potential to become a devastating global pandemic.

Domestic Equity Pools

The objective for investments made in domestic equities is to meet or exceed the total return of the S&P 1500 Super Composite for one, three, and five-year periods and a market cycle.

For active management strategies, the objective is to earn returns that exceed the most relevant S&P Index (or the most relevant Russell Index), adjusting for market capitalization and style, for one, three, and five-year periods and a market cycle. Rank above median in a universe of managers possessing a similar market cap and style characteristics.

For index, or passive return strategies, the objective is to return within 20 basis points of the S&P 500 Index, 50 basis points for the S&P 400 mid-cap, and 60 basis points for the S&P 600 small-cap over one, three, and five-year periods and a market cycle.

The pools are invested primarily in equities or equity-related securities of U.S. companies through internal and externally managed strategies. The goal is to build a portfolio of strategies that will provide excess returns relative to the S&P 1500 while providing minimal tracking error to the index. At times a portion of these pools may be invested in exchange traded funds (ETFs) and fixed-income short-term securities with maturities of less than one year.

The pools invest in equities and equity related securities that are listed on U.S. national securities exchanges, including American Depository Receipts (ADRs). They may also invest in stocks that are traded over-the-counter. The pools diversify their investments by allocating their equity strategies with consideration of the capitalization weightings of the S&P 1500 Index.

Report on Investment Activity (continued)

The following summarizes the weightings of the pools as of September 30, 2014:

Active	53.4 %
Passive	46.6
Total	100.0 %
	
Large Cap	67.5 %
Multi Cap	20.2
Mid Cap	10.5
Small Cap	1.8
Total	100.0 %

The System's Domestic Equity pools total rate of return was 20.3% for the Pension Plan and 20.5% for the OPEB Plan for fiscal year 2014. This compared with 18.6% for the S&P 1500 Index.

At the close of fiscal year 2014, the Domestic Equity pools represented 29.6% of total investments. The following summarizes the System's 2.3% ownership share of the Domestic Equity pools at September 30, 2014:

Domestic Equity Pools (in thousands)

Short Term Pooled Investments	\$ 3,039
Equities	388,346
Market Value of Equity Contracts	795
Long Term Obligations	111
Settlement Principal Payable	(990)
Settlement Proceeds Receivable	1,027
Accrued Dividends	374
Total	\$ 392,702

International Equity Pools

The objective for investments made in International Equity pools is to meet or exceed the total return of the MSCI ACWI Ex-US Net for one, three, and five-year periods and a market cycle.

For active management strategies, the objective is to earn returns that exceed the most relevant S&P Index (or the most relevant Russell Index), adjusting for market capitalization, style and geography for one, three, and five-year periods and a market cycle. Rank above median in a universe of managers possessing a similar market capitalization, style and geography characteristics.

For index, or passive return strategies, the objective is to return within 250 basis points of the S&P/Citigroup BMI-EPAC Index with 25% of the currency hedged for one, three, and five-year periods and a market cycle. Return within 400 basis points of the MSCI Emerging Markets Index, for one, three, and five-year periods and a market cycle.

Report on Investment Activity (continued)

Active exposure is invested primarily in equities or equity-related securities of non-U.S. companies through externally managed strategies.

Passive exposure to international equity returns is achieved primarily by investing in a combination of fixed income LIBOR notes, short-term fixed income investments, and equity swap agreements on foreign stock indices in developed markets. Interest on the dedicated notes and short-term fixed income investments is exchanged for international stock returns, and the total notional amount of the swap agreements is invested in the approximate proportions of the S&P Broad Market Index (BMI) Europe and Pacific Composite (EPAC) country weightings in related indices. Use of swap agreements for a core position began in 1993, an American Depository Receipts (ADR) and index-related security portfolio was added in June of 1999 to increase portfolio management flexibility, and a multiple country fund portfolio with smaller capitalization stocks was added in September of 2002 to improve exposure to the smallest companies in the BMI index. Use of futures as an investment to hedge cash flows and balances began in December of 2008, and this use is expected to continue in the future. The combined Swap agreements, notes and short-term investments together continue to perform like a stock index fund that realizes all gains and losses on a rolling three year basis.

The pools diversify their investments by allocating their equity strategies with consideration of the economic development status weightings of the S&P/Citigroup BMI -World ex-US Index.

The following summarizes the weightings of the pools as of September 30, 2014:

Active	46.9 %
Passive	53.1
Total	100.0 %
Developed	80.0 %
Emerging	20.0
Total	100.0 %

The System's International Equity pools total rate of return was 6.0% for fiscal year 2014. This compared with 5.1% for the MSCI ACWI Ex US Net.

At the close of fiscal year 2014, the International Equity pools represented 15.2% of total investments. The following summarizes the System's 2.2% ownership share of the International Equity Pools at September 30, 2014:

International Equity Pools (in thousands)

Short Term Pooled Investments	\$ 7,816
Equities	173,204
Fixed Income Securities	20,185
Market Value of Equity Contracts	475
Accrued Dividends and Interest	 47
Total	\$ 201,727

Report on Investment Activity (continued)

Alternative Investment Pools

The Alternative Investment pools objective is to meet or exceed the benchmark for all private equity investments over long time periods. The benchmark is a blend of the S&P 500 Index plus 300 basis points and the 10 Year Yield plus 300 basis points using ending weights of equity and fixed income holdings within the portfolio.

Alternative Investments are investments in the private equity market, primarily through limited partnerships. The following summarizes the weightings of the pools as of September 30, 2014:

57.4 %
22.2
11.3
4.6
2.8
1.7
100.0 %

The Alternative Investment pools had a return of 25.3% for the fiscal year ended September 30, 2014, versus the benchmark of 27.8%.

At the close of fiscal year 2014, the Alternative Investment pools represented 17.2% of total investments. The following summarizes the System's 2.5% ownership share of the Alternative Investment pools at September 30, 2014:

Alternative Investment Pools (in thousands)

Short Term Pooled Investments	\$ 3,009
Equities	 224,485
Total	\$ 227,494

Real Estate and Infrastructure Pools

The objective of the Real Estate and Infrastructure pools is to provide diversification and favorable risk adjusted returns primarily through income and appreciation of investments. Investments are typically held through investment entities, such as limited partnerships or limited liability companies, established for the specific purpose of owning, leasing, managing, financing, or developing real estate and infrastructure related investments.

The Real Estate and Infrastructure pools diversify its holdings by:

- Geography The pools are invested globally and are diversified geographically so that it is not concentrated in a limited number of cities or geographic areas.
- Size and Value The pools diversify its holdings by size so that it is not concentrated in a limited number of large investments.
- Investment Type The pools are diversified by investment type as summarized below.

Report on Investment Activity (continued)

Multi family anartments	29.3 %
Multi-family apartments	29.5 %
Hotel	16.7
Commercial office buildings	15.5
Infrastructure	9.4
Industrial warehouse buildings	7.5
Retail shopping centers	6.8
For Rent Homes	6.7
For Sale Homes	4.4
Land	2.6
Short Term Investments	1.1
Total	100.0 %

The Real Estate and Infrastructure pools generated a return of 19.8% for fiscal year 2014. The two benchmark returns from the National Council of Real Estate Investment Fiduciaries: the National Property Blended Index (less 130 basis points) was 9.8% and the Open-End Diversified Core Equity Index was 11.4%.

At the close of fiscal year 2014, the Real Estate and Infrastructure pools represented 9.2% of total investments. The following summarizes the System's 2.2% ownership share of the Real Estate and Infrastructure pools at September 30, 2014:

Real Estate and Infrastructure Pools (in thousands)

Short Term Pooled Investments	\$ 1,375
Real Estate Equities	109,204
Infrastructure Equities	11,073
Total	\$ 121,652

Fixed Income Pools

The objective for investments made in the Fixed Income pools is to meet or exceed the Barclays Aggregate Bond Index over one, three, and five-year periods and market cycles. Rank above median in a nationally recognized universe of managers possessing a similar style.

For fixed income sub-strategies, the objective return is to meet or exceed the most relevant Barclays benchmark index.

The pools are invested primarily in fixed income securities of U.S. companies through internal and externally managed strategies. The goal is to build a portfolio of strategies that will provide excess returns relative to the blended benchmark while providing minimal tracking error to the index. At times a portion of the pools may be invested in exchange traded funds (ETFs) and fixed-income short-term securities with maturities of less than one year.

The pools invest in fixed income and related securities in a diversified portfolio of investment grade corporate issues, treasuries, agencies, government sponsored enterprises and government guaranteed mortgages. The pools diversify their investments by allocating their strategies with consideration of credit risk.

Report on Investment Activity (continued)

The System's Fixed Income pools total rate of return was 4.6% for fiscal year 2014. This compared with 4.0% for the Barclays Aggregate Bond Index.

At the close of fiscal year 2014, the Fixed Income pools represented 11.6% of total investments. The following summarizes the System's 2.2% ownership share of the Fixed Income pools at September 30, 2014:

Fixed Income Pools (in thousands)

Short Term Pooled Investments	\$ 2,260
Fixed Income Securities	150,890
Settlement Proceeds Receivable	115
Accrued interest	 894
Total	\$ 154,159

Absolute Return Pools

The Absolute Return Pools consist of the Absolute Return Strategies Pool and the Real Return and Opportunistic Investment Pool.

The primary investment objective of the Absolute Return Strategies Pool is to generate a rate of return that meets or exceeds T-bills by 400 basis points net of fees over the one, three, and five-year periods and a market cycle. Also, exceed the appropriate HFN Fund of Funds median net of fees over one, three, and five-year periods and a market cycle.

The Absolute Return Strategies pool rate of return for the fiscal year was 9.2% versus the benchmark's 6.5%.

The primary investment objective of the Real Return and Opportunistic Pool is to generate a rate of return that meets or exceeds the increase in the CPI by at least five percent (5%) annually net of fees over one, three, and five-year periods and a market cycle. If a peer universe is available, rank above median in a nationally recognized universe of managers possessing a similar style.

For sub-strategies targeting a commodities index, the objective is to generate a rate of return that meets or exceeds the Dow Jones-AIG Total Return Commodities Index over one, three, and five year periods and a market cycle. Rank above median in a nationally recognized universe of managers possessing a similar style.

The Real Return and Opportunistic Investments pool rate for the fiscal year was 24.5% versus the benchmark's 7.4%.

At the close of fiscal year 2014, the Absolute Return pools represented 10.8% of total investments. The following summarizes the System's 2.2% ownership share of the Absolute Return Pools at September 30, 2014:

Report on Investment Activity (continued)

Absolute Return Pools (in thousands)

Short Term Pooled investments	\$ 1,227
Equities	138,513
Long Term Obligations	3,442
Accrued Interest and Dividends	97
Total	\$ 143,279

Short Term Investment Pools

The objective of the Short Term Investment pools is to closely match the return performance of its benchmark, the 30 day Treasury bill. The Short Term Investment pools return for the fiscal year was 0.2% for the Pension Plan and 0.2% for the OPEB Plan versus the benchmark's 0.0%.

Potential areas of investment are:

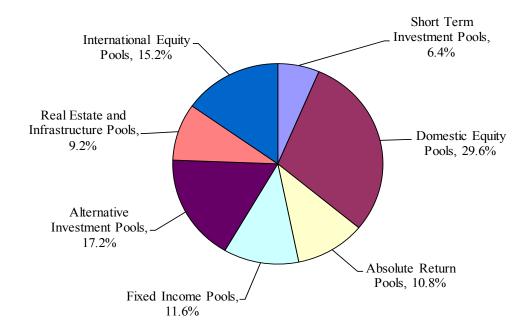
- Obligations of the United States or its agencies.
- Banker's acceptances, commercial accounts, certificates of deposit or depository receipts.
- Repurchase agreements for the purchase of securities issued by the US government or its agencies.
- Commercial paper rated at the time of purchase within the two highest classifications established by not less than two national rating services as determined by the State Treasurer.
- Short duration investment grade corporate issues.

At the close of fiscal year 2014, the Short Term Investment pools represented 6.4% of total investments. The following summarizes the System's 3.1% ownership share of the Short Term Investment pools at September 30, 2014:

Short Term Investment Pools (in thousands)

Short Term Pooled Investments	\$ 60,636
Fixed Income Securities	24,255
Accrued Interest	 14
Total	\$ 84,905

<u>Asset Allocation – Security Type Only</u>



Pension Plan Investment Results for the Period Ending September 30, 2014

		Annualized Rate of Return ¹						
Investment Category	Current Year	3 Years	5 Years	10 Years				
Total Portfolio	15.5 %	13.7 %	6 11.2 %	6 7.7 %				
Domestic Equity Pools	20.3	23.7	15.6	8.4				
S&P 1500 Index	18.6	23.0	15.8	8.3				
International Equity Pools	6.0	13.0	6.8	6.2				
International Blended Benchmark ²	5.1	12.3	5.8	5.8				
Alternative Investment Pools	25.3	14.4	18.4	14.4				
Alternative Blended Benchmark ³	27.8	19.7	20.9	12.3				
Real Estate and Infrastructure Pools	19.8	12.0	6.6	6.3				
NCREIF Property Blended Index ⁴	9.8	9.7	9.6	7.2				
Fixed Income Pools	4.6	3.6	5.0	5.4				
Barclays Aggregate Bond	4.0	2.4	4.1	4.6				
Absolute Return Pools								
Total Absolute Return	9.2	8.1	7.0					
HFRI Fund of Funds Cons 1 month lag	6.5	4.2	3.7					
Total Real Return and Opportunistic	24.5	12.2						
Real Return and Opportunistic Benchmark ⁵	7.4	7.3						
Short Term Investment Pools	0.2	0.3	0.4	1.3				
30 Day Treasury Bill	0.0	0.0	0.1	1.4				

¹ Calculations used a time-weighted rate of return based on the market rate of return in accordance with industry standards. Excludes income and investment gains and losses from securities lending.

² As of 7/1/14, index is MSCI ACWI Ex US Net. History 10/1/10 to 6/30/14 is MSCI ACWI Ex US Gross. History 1/1/10 to 9/30/10 is S&P Developed BMI EPAC Net 75/25. History prior to 1/1/10 is S&P Developed BMI EPAC Net 50/50.

³ As of 1/1/07, index is blend of S&P 500 plus 300 bps and 10 year yield plus 300 bps based on ending weights. History prior to 1/1/07 is S&P500 plus 300 bps.

⁴ As of 10/1/05, index is NCREIF less 130 bp. History prior to 10/1/05 reflects NCREIF less 75 bp.

⁵ Benchmark is 50% (CPI +5%) and 50% (actuarial rate 8%).

OPEB Investment Results for the Period Ending September 30, 2014

		Annualized	Rate of Return ¹
Investment Category	Current Year	3 Years	
Total Portfolio	15.0	13.1	%
Domestic Equity Pools	20.5	23.9	
S&P 1500 Index	18.6	23.0	
International Equity Pools	6.0	13.0	
International Blended Benchmark ²	5.1	12.3	
Alternative Investment Pools	25.3	14.4	
Alternative Blended Benchmark ³	27.8	19.7	
Real Estate and Intrastructure Pools	19.8	12.1	
NCREIF Property Blended Index ⁴	9.8	9.7	
Fixed Income Pools	4.6	3.6	
Barclays Aggregate Bond	4.0	2.4	
Absolute Return Pools			
Total Absolute Return	9.2	8.1	
HFRI Fund of Funds Cons 1 month lag	6.5	4.2	
Total Real Return and Opportunistic	24.5	12.2	
Real Return and Opportunistic Benchmark ⁵	7.4	7.3	
Short Term Investment Pools	0.2	0.3	
30 Day Treasury Bill	0.0	0.0	

¹ Calculations used a time-weighted rate of return based on the market rate of return in accordance with industry standards. Excludes income and investment gains and losses from securities lending.

² As of 7/1/14 index is MSCI ACWI Ex-US Net. History 10/01/10 to 6/30/14, index is MSCI ACWI Ex US Gross. History 1/1/10 to 9/30/10 is S&P Developed BMI EPAC Net 75/25. History prior to 1/1/10 is S&P Developed BMI EPAC Net 50/50.

³ As of 1/1/07, index is blend of S&P 500 plus 300 bps and 10 year yield plus 300 bps based on ending weights. History prior to 1/1/07 is S&P500 plus 300 bps.

⁴ As of 10/1/05, index is NCREIF less 130 bp. History prior to 10/1/05 reflects NCREIF less 75 bp.

⁵ Benchmark is 50% (CPI +5%) and 50% (actuarial rate 8%).

Largest Assets Held¹

Largest Stock Holdings (By Market Value) September 30, 2014

Rank	Shares	Stocks	 Market Value
1	132,793	Apple Inc.	\$ 13,378,888
2	136,326	Wal-Mart Stores Inc.	10,424,814
3	52,870	Goldman Sachs Group Inc.	9,705,305
4	184,989	Wells Fargo & Co	9,595,364
5	218,018	US Bancorp	9,119,684
6	74,623	Johnson & Johnson	7,954,103
7	386,598	Bank of America Corp	6,591,500
8	122,183	Microsoft Corp	5,664,421
9	28,453	Intl Business Machines Corp	5,401,217
10	50,037	Gilead Sciences Inc.	5,326,423

Largest Bond Holdings (By Market Value)² September 30, 2014

Rank Par Amount		Description	 Market Value
1	\$ 4,268,170	US Treasury N/B 1.625% Due 07-31-2019	\$ 4,241,494
2	3,283,208	US Treasury N/B 2.750% Due 11-15-2023	3,365,288
3	2,188,805	US Treasury N/B 2.750% Due 02-15-2024	2,240,277
4	2,198,694	Barclays Bank PLC .9416% FRN Due 01-22-2019	2,196,847
5	2,188,805	US Treasury N/B 1.625% Due 06-30-2019	2,177,178
6	1,385,177	Suntrust Banks Inc9341 FRN Due 04-29-2019	1,377,030
7	1,240,505	General Electric Cap Corp .4036% FRN Due 02-15-2017	1,240,210
8	1,094,403	Target Corp 5.375% Due 05-01-2017	1,209,419
9	1,099,347	Suntrust Banks Inc. 1.1361 FRN Due 07-30-2018	1,110,602
10	1,099,347	Bank of America Corp. 1.1046 FRN Due 04-01-2019	1,105,140

¹ A complete list of holdings is available from the Michigan Department of Treasury.

² Largest bond holdings are exclusive of securities lending collateral.

The System's assets are commingled in various pooled accounts. Amounts, par value and number of shares represents the System's pro-rata share based on its ownership of the investment pools.

Schedule of Investment Fees

The State Treasurer is the investment fiduciary and custodian of the System's funds pursuant to State law. Outside advisors are utilized to augment the State Treasurer's internal staff. 59.24% of the total investment portfolio is managed by fully discretionary outside advisors. The Michigan Department of Treasury's cost of operations applicable to the retirement system for the fiscal year amounted to \$361 thousand or six and seven tenths basis points (0.067%) of the fair value of the Assets under Management by the State Treasurer.

Act 380 of the Public Acts of 1965 created an Investment Advisory Committee (Committee) comprised of the directors of the Department of Licensing and Regulatory Affairs and the Department of Technology, Management & Budget, or their duly authorized representatives, and three public members appointed by the Governor with the advice and consent of the Senate. The public members serve without pay, but may be paid actual and necessary travel and other expenses. The Committee meets quarterly to review investments, goals and objectives and may submit recommendations to the State Treasurer. The Committee may also, by a majority vote, direct the State Treasurer to dispose of any holding, which in the Committee's judgment is not suitable for the fund involved, and may by unanimous vote direct the State Treasurer to make specific investments.

Schedule of Investment Fees

Investment Managers' Fees:

	As	ssets under				
	M	anagement		Fees	Basis	
	(in	thousands)	(in th	ousands)_	Points *	
State Treasurer	\$	540,490	\$	361	6.7	
Outside Advisors for						
Fixed Income		50,624		107	21.1	
Absolute Return		133,794		421	31.5	
International Equity		163,613		282	17.2	
Domestic Equity		88,252		341	38.6	
Alternative		227,494		1,593	70.0	
Real Estate/Infrastructure		121,652		649	53.3	
Total	\$	1,325,919	\$	3,754		
Other Investment Services Fees:						
Assets in Custody	\$	1,311,793	\$	90		
Securities on Loan		89,874		214		

^{*}Alternative Investment partnership agreements that define the management fees, the asset management fees range from 75 basis points on remaining assets under management to 250 basis points of the committed capital. For Real Estate/Infrastructure, the asset management fees range from 40 to 200 basis points. For Absolute Return, the asset management fees range from 0 to 200 basis points. These fees, in most cases, are netted against income.

Schedule of Investment Commissions

	Fiscal Year Ended September 30, 2014												
	Actual					Estir	nated	Esti	mated				
	Ac	ctual	Number of	Aver	age	Tr	ade	Res	earch	Est	imated	Esti	imated
	Commissions		Shares Comm		ission	Costs		C	osts	7	Trade	Research	
	Pa	aid ¹	Traded ¹	Per S	hare	Per	Share	Per	Share	(Costs	(Costs
Investment Brokerage Firms:		•											
Banc Of America Securities LLC	\$	2,534	77,598	\$	0.03	\$	0.01	\$	0.02	\$	776	\$	1,552
Barclays Capital Inc.		10,431	169,529		0.06		0.01		0.05		1,694		8,476
BNY Convergex Execution Solutions LLC		1,295	68,188		0.02		0.01		0.01		681		682
BIIGLLC		32,470	3,439,015		0.01		0.01		-		34,390		-
Cantor Fitzgerald & Co.		5	263		0.02		0.01		0.01		3		3
Capital Institutional Services Inc.		274	9,043		0.03		0.01		0.02		91		181
Citigroup Global Markets Inc.		1,255	62,740		0.02		0.01		0.01		628		628
Cowen & Company LLC		7,023	247,621		0.03		0.01		0.02		2,476		4,952
Credit Suisse Securities LLC		17,251	616,992		0.03		0.01		0.02		6,170		12,340
Deutsche Bank - Alex Brown		118	3,544		0.03		0.01		0.02		36		70
Deutsche Bank Securities Inc.		167	9,551		0.02		0.01		0.01		96		96
Drexel Hamilton		4,398	169,465		0.03		0.01		0.02		1,694		3,389
Goldman, Sachs & Co.		1,332	47,052		0.03		0.01		0.02		471		941
ISI Capital LLC		273	9,085		0.03		0.01		0.02		90		182
J. P. Morgan Securities Inc.		18,254	781,839		0.02		0.01		0.01		7,818		7,818
Merrill Lynch, Pierce, Fenner & Smith Inc.		4	396		0.01		0.01		-		4		-
Mischler Financial Group Inc.		2,927	101,715		0.03		0.01		0.02		1,017		2,035
Morgan Stanley & Co. Inc.		19,646	700,714		0.03		0.01		0.02		7,007		14,014
OTALLC		3,089	102,953		0.03		0.01		0.02		1,030		2,059
Pershing LLC		1	97		0.01		0.01		-		1		-
Piper Jaffray & Co.		8,111	811,082		0.01		0.01		-		8,111		-
RBC Capital Markets		92	2,319		0.04		0.01		0.03		23		69
Sanford C. Bernstein & Co. LLC		3,047	101,564		0.03		0.01		0.02		1,016		2,031
Stifel, Nicolaus & Co. Inc.		49	1,222		0.04		0.01		0.03		13		37
Total	\$	134,046	7,533,587	\$	0.02	\$	0.01	\$	0.02	\$	75,336	\$	61,555

Ommissions are included in purchase and sale prices of investments. The commissions and shares represent the System's pro-rata share based on ownership of commission and share transactions in the investment pools.

 $^{^{2}\,}$ The average commission per share for all brokerage firms.

Investment Summary

Fiscal Year Ended September 30, 2014

	Market Value ¹		Percent of Total Market Value		Investment & Interest Income ²		Percent of Total Investment & Interest Income
Fixed Income Pools	\$	154,159,007	11.6	%	\$	6,656,220	3.9 %
Domestic Equity Pools		392,701,851	29.6			65,482,712	38.8
Real Estate and Infrastructure Pools		121,652,043	9.2			22,416,840	13.3
Alternative Investment Pools		227,494,490	17.2			39,523,906	23.4
International Equities Pools		201,727,399	15.2			10,720,715	6.4
Absolute Return Pools		143,278,501	10.8			23,709,690	14.1
Short Term Investment Pools		84,905,415	6.4			78,877	0.1
Total	\$	1,325,918,706	100.0	%	\$	168,588,960	100.0 %

¹ Market value excludes \$88,398,179 in securities lending collateral for fiscal year 2014.

² Total Investment & Interest Income excludes net security lending income of \$730,615 and unrealized gain of \$17,292,158 for securities lending collateral.

³ Short term investment pools market value includes \$14,124,854 of equity in common cash.

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ACTUARIAL SECTION

Actuary's Certification
Summary of Actuarial Assumptions and Methods
Schedule of Active Member Valuation Data
Schedule of Changes in the Retirement Rolls
Prioritized Solvency Test
Analysis of System Experience
Summary of Plan Provisions

ACTUARIAL SECTION

Actuary's Certification

GRS

Gabriel Roeder Smith & Company Consultants & Actuaries

One Towne Square Suite 800 Southfield, MI 48076-3723 248.799.9000 phone 248.799.9020 fax www.gabrielroeder.com

October 27, 2014

Mr. David Behen, Director Department of Technology, Management and Budget and The Retirement Board Michigan State Police Retirement System P.O. Box 30171 Lansing, Michigan 48909

Ladies and Gentlemen:

The basic financial objective of the Michigan State Police Retirement System (SPRS) 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 progress towards meeting these financial objectives is illustrated in the Schedules of Funding Progress and the Schedules of Employer Contributions.

We performed actuarial valuations and issued actuarial reports for SPRS as of September 30, 2013. The purpose of the September 30, 2013 annual actuarial valuations was to determine the contribution requirements for the fiscal year ending September 30, 2014, to measure the System's funding progress, and to provide actuarial information in connection with applicable Governmental Accounting Standards Board statements. The valuations should not be relied upon for any other purpose. The valuation process develops employer contributions that are sufficient to fund the System's normal cost (i.e., the costs assigned by the valuation method to the year of service about to be rendered), as well as 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, 2013.

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 otherwise 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 actuary summarizes and tabulates population data in order to analyze long term trends. The System's external auditor audits the actuarial 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 and the Department after considering the advice of the actuary and other professionals. The assumptions and the methods comply with the disclosure requirements of the applicable GASB Statements. 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.

Actuary's Certification (continued)

Mr. David Behen October 27, 2014 Page 2

Our firm provided the following supporting schedules for use in the Comprehensive Annual Financial Report:

Financial Section

- Note 1 Table of System's Membership
- Note 3 Summary of Actuarial Assumptions
- Schedules of Funding Progress
- Schedules of Employer Contributions (Annual Required Contribution)

Actuarial Section

- Summary of Actuarial Assumptions and Methods
- Percent of Eligible Active Members Retiring Within Next Year
- Separation from Active Employment Before Age and Service Retirement and Individual Pay Increase Assumptions
- Schedule of Active Member Pension Valuation Data
- Schedule of Changes in the Retirement Rolls
- Prioritized Solvency Tests
- Analysis of System Experience
- Schedule of Active Member OPEB Valuation Data
- Schedule of Changes in OPEB Rolls

Statistical Section

- Schedule of Retired Members by Type of Pension Benefit (Retirement Type and Option)
- Schedule of Retired Members by Type of Health Benefit
- Schedules of Average Benefit Payments Pension, Medical, Dental, and Vision

Although our firm provided supporting schedules in connection with GASB Statement Nos. 43 and 45, we recommend consultation with legal counsel and the auditors to determine whether Statement No. 43 applies.

The September 30, 2013 valuations were based upon assumptions that were recommended in connection with a study of System experience covering the period from October 1, 2002 through September 30, 2007. Future actuarial measurements may differ significantly from those presented in the annual valuations due to such factors as experience differing from that anticipated by actuarial assumptions, or changes in plan provisions, actuarial assumption/methods or applicable law. Due to the limited scope of the assignment, we did not perform an analysis of the potential range of future measurements.

Gabriel Roeder Smith & Company

Actuary's Certification (continued)

Mr. David Behen October 27, 2014 Page 3

The signing actuaries are independent of the plan sponsor.

The actuarial valuations of SPRS as of September 30, 2013 were performed by qualified actuaries in accordance with standards of practice prescribed by the Actuarial Standards Board and in compliance with applicable State statutes. Louise Gates and Mita Drazilov are Members of the American Academy of Actuaries (MAAA) 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,

Louise M. Gates, ASA, MAAA

Louis Gates

LMG:MDD:mrb

Mita D. Drazilov, ASA, MAAA

Mita Drajilor

Gabriel Roeder Smith & Company

Summary of Actuarial Assumptions and Methods

- 1. The investment return rate used in the valuations was 8% per year net of expenses (7.0% for the Hybrid Plan), compounded annually. This rate of return is not the assumed real rate of return. Considering other financial assumptions, this 8% investment return rate translates to an assumed real rate of return of 4.5%. Adopted 2004.
- 2. The healthy life mortality table used in evaluating allowances to be paid was the RP-2000 Combined Healthy Mortality Table adjusted for mortality improvements to 2020 using projection scale AA. Adopted 2010.
- 3. Sample probabilities of retirement with an age and service allowance are shown in Schedule 1 on the next page. Adopted 2010.
- 4. Sample probabilities of withdrawal from service and disability, together with individual pay increase assumptions, are shown in Schedule 2 on the next page. Adopted 2010.
- 5. Total active member payroll is assumed to increase 3.5% per year. This represents the portion of the individual pay increase assumptions attributable to inflation. In effect, this assumes no change in the number of active members. Adopted 1998.
- 6. An individual entry age actuarial cost method of valuation was used in determining actuarial liabilities and normal cost. Unfunded actuarial accrued liabilities, including actuarial gains and losses, are financed over a declining 40-year period for years beginning October 1, 1986. Adopted or readopted 1996.
- 7. The Department of Technology, Management & Budget approved the use of market value of assets as of September 30, 2006, for actuarial valuation purposes. For investment gains and losses that occur after that date, a 5-year smoothing technique will be used. Specifically, the excess (shortfall) of actual investment income (including interest, dividends, realized and unrealized gains or losses) over the imputed income at the valuation interest rate is considered the gain (loss), which is spread over five years. Adopted 2007.
- 8. The data about persons now covered and about present assets 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 System's Board and the Department of Technology, Management & Budget after consulting with the actuary.
- 10. A 5-year experience investigation, covering the period from October 1, 2002 through September 30, 2007, was completed in 2010. The purpose of the study was to analyze the actual experience of the System versus that anticipated by the actuarial assumptions then in use. Adopted 2010.
- 11. Gabriel Roeder Smith & Co. was awarded the actuarial and consulting services contract beginning October 4, 2006.

Summary of Actuarial Assumptions and Methods (continued)

SCHEDULE 1

Percent of Eligible Active Members Retiring Within Next Year¹

Retirement After 25 or More Years of Service (Non Pension Plus Plan)

<u>Service</u>	<u>% Retiring</u>
25-27	50 %
28-44	35
45 and over	100

Retirement at or After Age 50 (55 for Pension Plus Plan)

10 Years of Service (25 for Pension Plus Plan)

Age 50 51-53 54-60 61-66	% Retiring
50	20 %
51-53	25
54-60	40
61-66	50
67 and over	100

¹ Of those Non Pension Plus Plan members assumed to retire with 25 or more years of service, based on the percents above, 80% are assumed to elect the DROP and 20% are assumed to retire without the DROP.

SCHEDULE 2

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

Sample Ages	Years of Service	Percent of Active Members Withdrawing Within Next Year (Men and Women)	Perce Active M Becoming Wit Next	Percent Increase In Pay During Next Year	
All	0	10.00 %			93.50 %
	1	8.00			21.50
			Duty	Non-duty	
20	2 & Over	1.35	0.27 %	0.00 %	9.92
25	"	1.10	0.27	0.00	9.40
30	"	0.88	0.27	0.02	6.60
35	"	0.62	0.27	0.04	5.26
40	"	0.47	0.27	0.10	4.54
45	"	0.42	0.27	0.22	4.28
50	"	0.34	0.27	0.38	4.22
55	"		0.27	0.54	4.02
60 & Over	"		0.27	0.76	4.02

Actuarial Valuation Data

Schedule of Active Member Pension Valuation Data

Valuation Date Sept. 30	Number	Reported Annual Number Payroll		% Increase (Decrease)	Average Age	Average Service
2004	1,831	\$ 119,721,613	\$ 65,386	6.7 %	38.1	11.8
2005	1,708	117,648,748	68,881	5.3	38.3	12.0
2006	1,678	115,894,652	69,067	0.3	39.2	12.9
2007	1,620	118,209,401	72,969	5.6	40.0	13.6
2008	1,660	120,723,943	72,725	(0.3)	40.1	13.8
2009	1,655	123,237,957	74,464	2.4	41.0	14.6
2010	1,556	118,570,985	76,202	2.3	41.8	15.5
2011	1,451	110,279,709	76,003	(0.3)	41.7	15.4
2012	1,426	104,875,847	73,545	(3.2)	41.2	14.9
2013	1,521	110,244,195	72,481	(1.4)	39.8	13.3

Excludes DROP program participants who are still actively employed.

Schedule of Active Member OPEB Valuation Data

Valuation Date Sept. 30	Number	 Reported Annual Payroll	Average Annual Pay	% Increase (Decrease)	Average Age	Average Service
2012	1,426	\$ 104,875,847	\$ 73,545		41.2	14.9
2013	1,521	110,244,195	72,481	(1.5) %	39.8	13.3

Actuarial Valuation Data (continued)

Schedule of Changes in the Retirement Rolls

Year	Year Added to Rolls ²		Rolls ²	Removed from Rolls ²			Rolls-End of Year			% Increase	A	verage
Ended		A	Annual	Annual		Annual		1	Annual	in Annual	A	Annual
Sept. 30	No.	All	owances ¹	No.	Allowances ¹ No. Allowances ¹ All		No. Allowances ¹		Allowances	All	owances	
2004	102			5.1			2 (07	¢	70.006	4.2.0/	¢	20.057
2004	102			54			2,697	\$	78,096	4.2 %	\$	28,957
2005	66			37			2,726		80,669	3.3		29,592
2006	67			81			2,712		82,255	2.0		30,330
2007	61			40			2,733		85,416	3.8		31,253
2008	62	\$	2,964	59	\$	1,317	2,736		87,063	1.9		31,821
2009	51		2,692	66		1,471	2,721		88,284	1.4		32,446
2010	110		5,572	69		1,586	2,762		92,270	4.5		33,407
2011	157		7,362	62		1,522	2,857		98,110	6.3		34,340
2012	93		5,115	37		972	2,913		102,253	4.2		35,102
2013	105		5,206	65		1,704	2,953		105,755	3.4		35,813
2007 2008 2009 2010 2011 2012	61 62 51 110 157 93	\$	2,692 5,572 7,362 5,115	40 59 66 69 62 37	\$	1,471 1,586 1,522 972	2,733 2,736 2,721 2,762 2,857 2,913		85,416 87,063 88,284 92,270 98,110 102,253	3.8 1.9 1.4 4.5 6.3 4.2		31,25, 31,82 32,440 33,40° 34,340 35,100

¹ In thousands of dollars.

Schedule of Changes in the OPEB Rolls

Year	Add	ed to R	tolls ²	Remove	moved from Rolls ²		Rolls-End of Year			% Increase	Average
Ended		An	nual		Annual			Annual		in Annual	Annual
Sept. 30	No.	Allov	vances1	No.	Allov	vances1	No.	All	lowances1	Allowances	Allowances
2011							2,566	\$	33,561		\$ 13,079
2012	86	\$	1,340	31	\$	976	2,621		33,926	1.1 %	12,944
2013	90		1,408	58		2,397	2,653		32,938	(2.9)	12,415

¹ In thousands of dollars.

Notes

No. Refers to the number of retiree health contracts.

Annual allowances added to rolls includes increases due to medical inflation and contract changes.

Annual allowances removed from rolls includes decreases due to contract changes.

² Annual allowance amounts are not avaiable for fiscal years 2007 and prior.

² Annual allowance amounts are not available for fiscal years 2011 and prior.

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 System's present assets (cash and investments) are compared with: (1) 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 and inactive 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) are 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 by-product 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)

	Actual	ri <u>al Accrued L</u>	iability (A <i>A</i>	<u>(L)</u>					
	(1)	(2)	(3				Portion		
Valuation	Active	Retirants	Active and	d Inactive			Cove	ered	
Date	Member	and	Members ((Employer	Valuation		by A	ssets	-
Sept. 30	Contributions	Beneficiaries	Financed	Portion) 5	Assets	(1)	(2)	(3)	$(4)^{-2}$
2									
2004^{-3}	\$ 217	\$ 894,962	\$	360,646	\$ 1,117,704	100 %	100 %	61.7 %	89.0 %
2005	295	909,741		390,307	1,090,327	100	100	46.2	83.8
2006	268	981,994		403,591	1,113,455	100	100	32.5	80.3
2006^{-1}	268	981,994		403,591	1,204,248	100	100	55.0	86.9
2007	398	995,714		447,619	1,259,129	100	100	58.8	87.2
2007 4	398	1,003,835		447,619	1,259,129	100	100	56.9	86.7
2008	453	1,010,206		485,638	1,265,725	100	100	52.5	84.6
2009	487	1,010,464		523,028	1,238,089	100	100	43.4	80.7
2010	485	1,047,318		517,379	1,201,968	100	100	29.8	76.8
2010 6	485	1,052,454		541,361	1,201,968	100	100	27.5	75.4
2011	451	1,111,282		516,192	1,318,129	100	100	5.1	69.9
2012	480	1,145,516		525,042	1,069,179	100	93	0.0	64.0
2013	1,549	1,173,048		549,362	1,069,106	100	91	0.0	62.0

¹ Revised asset valuation method.

² Percent funded on a total valuation asset and total actuarial accrued liability basis.

³ Change in assumptions and benefit provisions.

⁴ Revised benefit provisions.

⁵ Includes DROP members.

⁶ Revised actuarial assumptions.

Prioritized Solvency Test (continued)

Other Postemployment Benefits (\$ in thousands)

	Actua	r <u>ial Accrued L</u>	ia <u>bility (</u>	(AAL)							
	(1)	(2)		(3)				Portion of	of AAL		
Valuation	Active	Retirants	Active	and Inactive				Cove	red		
Date	Member	and	Memb	ers (Employer	Va	Valuation by Ass			sets	sets	
Sept. 30	Contributions	Beneficiaries	Finar	ced Portion) ²		Assets	(1)	(2)	(3)	(4) 1	
2007	-	\$ 584,668	\$	333,456		-	0 %	0 %	0 %	0 %	
2008	-	590,311		372,711		-	0	0	0	0	
2009	-	528,354		353,908		-	0	0	0	0	
2010	_	615,468		440,407		-	0	0	0	0	
2011	-	596,842		397,839		-	0	0	0	0	
2012	³ –	397,041		202,054	\$	32,996	0	8.3	0	5.5	
2013	_	395,655		207,311		52,240	0	13.2	0	8.7	

^{2013 - 395,655 207,311 52,240}Percent funded on a total valuation asset and total actuarial accrued liability basis.

² Includes DROP members.

³ Revised actuarial assumptions

Analysis of System Experience

Gains/(Losses) in Accrued Liabilities During Year Ended September 30, 2013 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.	\$ (1,799,774)
2.	Withdrawal 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.	356,409
3.	Pay Increases. If there are smaller pay increases than assumed, there is a gain. If greater increases, a loss.	(1,342,723)
4.	Investment Income. If there is greater investment income than assumed, there is a gain. If less income, a loss.	(22,718,952)
5.	Death After Retirement. If retirants live longer than assumed, there is a loss. If not as long, a gain.	(6,336,575)
6.	New entrants/Rehires. New entrants into the System will generally result in an actuarial loss.	-
7.	Other. Miscellaneous gains and losses resulting from data adjustments, timing of financial transactions, etc.	(4,200,741)
8.	Composite Gain (or Loss) During Year	\$ (36,042,356)

Summary of Plan Provisions

Our actuarial valuation of the System as of September 30, 2013, is based on the present provisions of Michigan State Police Retirement Act (Public Act 182 of 1986, as amended).

Regular Retirement

Eligibility - 25 years of credited service with no age requirement; or age 50 with 10 years credited service.

<u>Annual Amount</u> - If member has 25 or more years of credited service, 60% of final average compensation; if member has less than 25 years of credited service, total credited service times 2% of final average compensation.

<u>Type of Final Average Compensation</u> - Average of 2 final years.

Early Retirement

None.

Deferred Retirement (vested benefit)

Eligibility - 10 years of credited service. Benefit commences at age 50.

<u>Annual Amount</u> - Computed as Regular Retirement benefit based on credited service and final average compensation at termination.

Duty-Disability Retirement

Eligibility - No age or service requirement.

<u>Annual Amount</u> - 60% of final average compensation. Disability benefit plus workers' compensation benefit, if any, shall not exceed 100% of final average compensation.

Non-Duty Disability Retirement

Eligibility - 10 years of credited service.

<u>Annual Amount</u> - 2.4% of final average compensation times years of credited service, to a maximum of 60% of final average compensation.

Duty Death Before Retirement

Eligibility - No age or service requirement.

Annual Amount - 60% of final average compensation is payable to surviving spouse; additional \$1,200 per year for each child under 18 is also payable. If no surviving spouse, children under 18 share in 60% benefit until attainment of age 18. If no spouse or children, dependent parents are eligible for 60% benefit (plus \$1,200 per dependent sibling under 18). Retirement benefit plus workers' compensation, if any, shall not exceed 100% of final average compensation.

Lump Sum Payment - A \$1,500 funeral benefit is also payable.

Summary of Plan Provisions (continued)

Non-Duty Death Before Retirement

Eligibility - 10 years of credited service.

<u>Annual Amount</u> - 2.4% of final average compensation times years of credited service, to a maximum of 60% of final average compensation, payable to surviving spouse. If no surviving spouse, children under 18 share in benefit until attainment of age 18.

Death After Retirement

The retired member's benefit continues to the surviving spouse. If no surviving spouse, children under 18 share in the continued benefit until attainment of age 18.

DROP Program Provisions

DROP Eligibility - Any age with 25 years of service.

Maximum Years of DROP - 6 years.

Retirement Benefit - Monthly benefit frozen at date of DROP election.

<u>DROP Account - Amount credited</u> - 100% of the participant's Retirement Benefit if stay full six years (for all 6 years); 90% if stay 5 years; 80% if stay 4 years; 70% if stay 3 years; 60% if stay 2 years; 50% if stay 1 year; 30% if stay less than 1 year.

Interest Credit Rate - 3%

<u>COLA</u> - No COLA adjustment on Retirement Benefit until the end of the DROP period.

<u>Benefit Options</u> - At termination of DROP participation and commencement of retirement, options are lump sum of DROP account, partial lump sum, or maintain funds in account.

Post-Retirement Cost-of-Living Adjustments

All members retiring (or leaving employment with vested benefits), and their survivors, are eligible for automatic 2% annual (non-compounded) benefit increases, with a maximum annual increase of \$500.

Post-Retirement Health Insurance Coverage

Persons in receipt of retirement allowances (including members who did not retire directly from the System, but come from a vested deferred status), and their dependents, are eligible for 95% State-paid health insurance coverage and 90% State-paid dental and vision insurance.

Member Contributions

Command Officers currently participate on a noncontributory basis. Troopers hired on or after June 10, 2012 contribute 4% of their compensation. Effective October 1, 2012, troopers and sergeants hired before June 10, 2012 began contributing 1% of their compensation. These contributions are for the pension component of their plan.

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Schedules of Additions by Source Schedules of Deductions by Type Schedules of Changes in Fiduciary Net Position Schedules of Benefits and Refunds by Type Schedules of Retired Members by Type of Benefit Schedule of Funding Progress – Pension Plan Schedule of Other Postemployment Benefits Schedules of Average Benefit Payments Ten Year History of Membership

This part of the System's comprehensive annual financial report presents detailed information as a context for understanding what the information in the financial statements, note disclosures, and required supplementary information says about the System's overall financial health.

Contents

Financial Trends

These schedules contain trend information to help the reader understand how the System's financial performance and fiscal health has changed over time. The schedules are presented for the last ten fiscal years. Schedules included are:

- Schedule of Pension Plan Additions by Source
- Schedule of OPEB Plan Additions by Source
- Schedule of Pension Plan Deductions by Type
- Schedule of OPEB Plan Deductions by Type
- Schedule of Changes in Fiduciary Net Position Pension Plan
- Schedule of Changes in Fiduciary Net Position OPEB Plan
- Schedule of Pension Benefits and Refunds by Type
- Schedule of OPEB Benefits and Refunds by Type

Operating Information

These schedules contain contextual information to assist the reader's understanding of how the System's financial information relates to the combination of participating members and the benefits it provides. Schedules are presented for the last ten fiscal years, except where noted. Schedules included are:

- Schedule of Retired Members by Type of Pension Benefit
- Schedule of Retired Members by Type of Other Postemployment Benefits
- Schedule of Funding Progress Pension Plan
- Schedule of Other Postemployment Benefits
- Schedule of Average Benefit Payments Pension
- Schedule of Average Benefit Payments Health
- Schedule of Average Benefit Payments Dental
- Schedule of Average Benefit Payments Vision
- Ten Year History of Membership

Schedule of Pension Plan Additions by Source

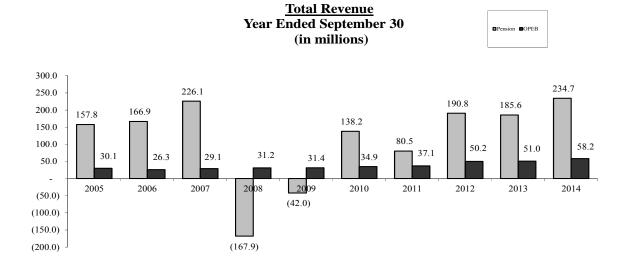
Last Ten Years

Fiscal Year				Employer Co	ontributions				
Ended Sept. 30	_	Member Contributions		Dollars	% of Annual Covered Payroll			t Investment & Other Income	Total
2005	\$	112,303	\$	26,607,572	22.6	%	\$	131,111,123	\$ 157,830,998
2006		252,805		26,103,923	22.5			140,565,537	166,922,265
2007		101,205		24,323,324	20.6			201,660,589	226,085,118
2008		95,904		34,364,943	28.5			(202,365,084)	(167,904,237)
2009		139,924		35,434,912	28.8			(77,524,873)	(41,950,037)
2010		172,387		37,897,934	32.0			100,179,113	138,249,434
2011		207,384		38,573,946	35.0			41,746,238	80,527,568
2012		229,085		40,686,857	38.8			149,844,852	190,760,794
2013		1,336,081		49,004,314	44.5			135,230,258	185,570,653
2014		2,174,031		58,391,310	N/A			174,085,069	234,650,410

Schedule of OPEB Plan Additions by Source

Last Ten Years

Fiscal Year		 Employer Co	ontributions				
Ended Sept. 30	Member Contributions	Dollars	% of Annual Covered Payroll		Net Investment & Other Income		Total
2005	\$ 1,566,646	\$ 28,488,384	24.2	%			\$ 30,055,030
2006	1,254,352	25,021,287	21.6		\$	4,319	26,279,958
2007	1,219,760	27,840,439	23.6				29,060,199
2008	1,274,189	29,131,474	24.1			747,263	31,152,926
2009	1,244,169	29,841,207	24.2			276,098	31,361,474
2010	1,157,358	32,890,501	27.7			813,870	34,861,729
2011	1,333,174	31,627,140	28.7			4,178,390	37,138,704
2012	1,337,205	46,190,655	44.0			2,671,348	50,199,208
2013	1,272,232	42,858,381	38.9			6,891,305	51,021,917
2014	1,198,890	46,614,502	N/A			10,394,057	58,207,450



Schedule of Pension Plan Deductions by Type

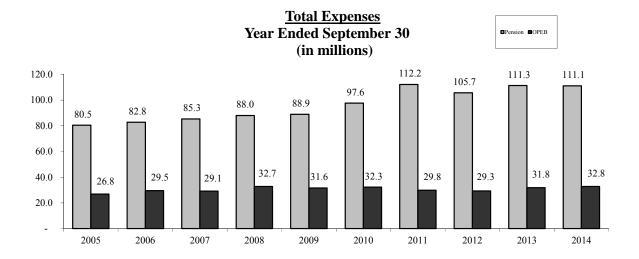
Last Ten Years

Fiscal Year Ended Sept. 30	Benefit Payments	Refunds and Transfers	Administrative and Other Expenses	<u>Total</u>
2005	\$ 80,169,608	\$ 358	\$ 294,183	\$ 80,464,149
2006	82,316,931	142,979	343,205	82,803,115
2007	84,930,044	1,087	401,570	85,332,701
2008	87,590,337		361,652	87,951,989
2009	88,492,159		386,146	88,878,305
2010	97,194,529	7,166	372,728	97,574,423
2011	111,809,981	5,177	361,611	112,176,769
2012	104,962,793		756,602	105,719,395
2013	110,782,367	19,489	508,118	111,309,974
2014	110,542,930	7,977	575,108	111,126,016

Schedule of OPEB Plan Deductions by Type

Last Ten Years

Fiscal Year Ended Sept. 30	Benefit Payments	Refunds and Transfers	Administrative and Other Expenses	Total
2005	\$ 26,842,248			\$ 26,842,248
2006	29,492,740			29,492,740
2007	29,060,199			29,060,199
2008	29,672,228	\$ 1,502,006	\$ 1,553,172	32,727,406
2009	30,007,135		1,624,795	31,631,930
2010	31,378,928		876,797	32,255,725
2011	28,954,352		875,530	29,829,882
2012	28,421,260		875,883	29,297,144
2013	30,571,508		1,205,738	31,777,247
2014	31,373,483		1,409,863	32,783,346



Schedule of Changes in Fiduciary Net Position - Pension Plan

Last Ten Years

(In Thousands)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Member contributions	\$ 112	\$ 253	\$ 101	\$ 96	\$ 140	\$ 172	\$ 207	\$ 229	\$ 1,336	\$ 2,174
Employer contributions	26,608	26,104	24,323	34,365	35,435	37,898	38,574	40,687	49,004	58,391
Net investment income	131,111	140,565	201,614	(202,388)	(77,536)	100,144	41,731	149,832	135,202	174,085
Miscellaneous income			47	23	11_	35	15	13	28	
Total Additions	157,831	166,922	226,085	(167,904)	(41,950)	138,249	80,528	190,761	185,571	234,650
Pension benefits Refunds of contributions Administrative and	80,170	82,317 143	84,930 1	87,590	88,492	97,194 7	111,810 5	104,963	110,782 19	110,543 8
other expenses	294	343	402	362	386	373	362	757	508	575
Total Deductions	80,464	82,803	85,333	87,952	88,878	97,574	112,177	105,719	111,310	111,126
Changes in										
net position	\$ 77,367	\$ 84,119	\$ 140,752	\$ (255,856)	\$ (130,828)	\$ 40,675	\$ (31,649)	\$ 85,041	\$ 74,261	\$ 123,524

Schedule of Changes in Fiduciary Net Position - OPEB Plan

Last Ten Years

(In Thousands)

	2005	2006	2007	2008	2009		2010		2011	2012		2013	2014
Member contributions	\$ 1,567 28,488	\$ 1,255	\$ 1,220 27,840	\$ 1,274 29,131	\$ 1,244 29,841	\$	1,157 32,891	\$	1,333 31,627	\$ 1,337 46,191	\$	1,272 42,858	\$ 1,199
Employer contributions Other governmental	20,400	25,021	27,040	29,131	29,041		32,891		31,027	40,191		42,030	46,615
contributions				278	372		322		3,644	1,061		2,801	1,758
Net investment income Transfer from other systems		4		(125) 551	(158)		480		527	1,594		4,073	8,637
Miscellaneous income				44	62		12		8	17		17	
Total Additions	30,055	26,280	29,060	31,153	31,361	_	34,862	_	37,139	50,199	_	51,022	58,207
Health care benefits Refunds of contributions	26,842	29,493	29,060	29,672	30,007		31,379		28,954	28,421		30,572	31,373
Transfer to other systems Administrative and				1,502									
other expenses				1,553	1,625		877		876	876		1,206	1,410
Total Deductions	26,842	29,493	29,060	32,727	31,632	_	32,256		29,830	29,297	_	31,777	32,783
Changes in													
net position	\$ 3,213	\$ (3,213)	\$ 	\$ (1,574)	\$ (271)	\$	2,606	\$	7,309	\$ 20,902	\$	19,245	\$ 25,424

Schedule of Pension Benefits and Refunds by Type

Last Ten Years

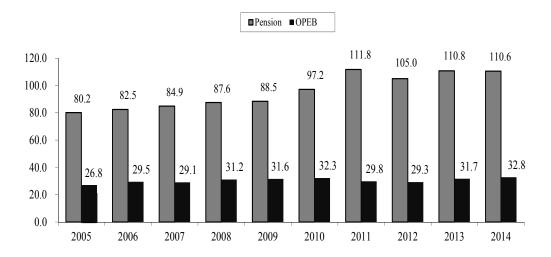
Fiscal Year						Refu	ınds	3	
Ended Sept. 30	 Regular Benefits	 Disability Benefits	 Survivor Benefits	_	uneral enefits	ployee ribution		Employer ontribution	 Total
2005	\$ 75,606,407	\$ 4,563,201				\$ 358			\$ 80,169,966
2006	71,830,448	3,993,123	\$ 6,493,360			802	\$	142,177	82,459,910
2007	72,275,182	4,100,010	8,554,852					1,087	84,931,131
2008	73,769,670	4,407,127	9,413,540						87,590,337
2009	74,051,305	4,452,564	9,988,290						88,492,159
2010	81,958,482	4,814,513	10,421,533			4,353		2,813	97,201,695
2011	95,613,346	5,226,631	10,968,504	\$	1,500			5,177	111,815,158
2012	87,999,851	5,370,427	11,592,515						104,962,793
2013	93,031,493	5,675,801	12,073,573		1,500	19,489			110,801,855
2014	91,805,601	5,804,476	12,932,853					7,977	110,550,907

Schedule of OPEB Benefits and Refunds by Type

Last Ten Years

Fiscal Year Ended Sept. 30	Health Benefits	Dental Benefits	Vision Benefits	 ministrative Expenses	Health Refunds	Total
2005	\$ 24,894,119	\$ 1,692,391	\$ 255,738			\$ 26,842,248
2006	27,090,226	2,091,393	311,121			29,492,740
2007	26,675,560	2,075,976	308,663			29,060,199
2008	27,093,222	2,324,543	254,463	\$ 1,553,172		31,225,400
2009	27,404,439	2,345,481	257,216	1,624,795		31,631,930
2010	28,398,257	2,568,972	411,698	876,797		32,255,725
2011	26,456,992	2,272,568	224,792	875,530		29,829,882
2012	26,071,869	2,282,682	66,709	875,883		29,297,144
2013	27,881,426	2,314,422	375,661	1,205,738		31,777,247
2014	28,748,890	2,440,060	184,533	1,409,863		32,783,346

Total Benefit Deductions For Year Ended September 30 (in millions)



Schedule of Retired Members by Type of Pension Benefit

September 30, 2013

Amount of			ŗ	Гуре of Ret	tirement *			Selected Option**
Monthly Pension Benefit	Number of Retirees	1	2	3	4	5	6	Life
\$ 1 - 400	30	23	-	2	1	4	-	30
401 - 800	116	98	5	2	2	-	9	116
801 - 1,200	95	68	10	4	6	-	7	95
1,201 - 1,600	248	98	96	32	5	15	2	248
1,601 - 2,000	237	116	73	23	14	6	5	237
2,001 - 2,400	171	111	37	8	7	3	5	171
2,401 - 2,800	155	103	24	16	8	1	3	155
2,801 - 3,200	367	271	61	22	7	1	5	367
3,201 - 3,600	532	473	26	23	5	2	3	532
3,601 - 4,000	498	455	23	15	2	1	2	498
Over 4,000	504	481	11	11			1	504
Totals	2,953	2,297	366	158	57	33	42	2,953

* Type of Retirement

- 1 Normal retirement for age & service
- 2 Survivor payment normal retirement
- 3 Duty disability retirement (incl. survivors)
- 4 Non-duty disability retirement (incl. survivors)
- 5 Survivor payment duty death in service
- 6 Survivor payment non-duty death in service

Source: Gabriel Roeder Smith & Co.

**Selected Option

Life - 100% joint and survivor

<u>Schedule of Retired Members by Type of Other Postemployment Benefits</u> September 30, 2013

		Type of Other	r Postemploymen	t Benefits
Amount of Monthly Pension Benefit	Number of Retirees	Health	Dental	Vision
\$ 1-400	30	3	3	3
401 - 800	116	50	49	49
801 - 1,200	95	35	36	36
1,201 - 1,600	248	199	195	194
1,601 - 2,000	237	204	199	199
2,001 - 2,400	171	155	150	152
2,401-2,800	155	150	149	150
2,801 - 3,200	367	361	361	361
3,201 - 3,600	532	522	523	524
3,601-4,000	498	480	483	484
Over 4,000	504	480	481	484
Totals	2,953	2,639	2,629	2,636

Schedules of Funding Progress - Pension Plan

Last Ten Years

Pension Benefits (\$ in millions)

Valuation Date Sept 30	Actuarial Value of Assets (a)	1	Actuarial Accrued Liability L) Entry Age (b)	,	Unfunded Overfunded) crued Liability (UAAL) (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as a % of Covered Payroll ((b-a)/c)
2004^{2}	\$ 1,117.7	\$	1,255.8	\$	138.1	89.0 %	\$ 119.7	115.4 %
2005	1,090.3		1,300.3		210.0	83.8	117.6	178.5
2006	1,113.5		1,385.9		272.4	80.3	115.9	235.0
2006^{1}	1,204.2		1,385.9		181.7	86.9	115.9	156.8
2007	1,259.1		1,443.7		184.6	87.2	118.2	156.2
2007^{3}	1,259.1		1,451.9		192.7	86.7	118.2	163.0
2008	1,265.7		1,496.3		230.6	84.6	120.7	191.0
2009	1,238.1		1,534.0		295.9	80.7	123.2	240.1
2010	1,202.0		1,565.2		363.2	76.8	118.6	306.3
2010 4	1,202.0		1,594.3		392.3	75.4	118.6	330.9
2011	1,138.1		1,627.9		489.8	69.9	110.3	444.1
2012^{3}	1,069.2		1,671.0		601.9	64.0	104.9	573.9
2013	1,069.1		1,724.0		654.9	62.0	110.2	594.0

¹ Change in asset valuation method.

 $^{{\}small 2\>\>\>\>} Revised\ actuarial\ assumptions\ and\ benefit\ provisions.$

³ Revised benefit provisions.

⁴ Revised actuarial assumptions and/or methods.

Schedule of Other Postemployment Benefits

For Year Ended September 30, 2014

	 2014
Claims	_
Health insurance	\$ 27,100,855
Vision insurance	176,832
Dental insurance	 2,385,414
Total Claims	29,663,102
Estimated Claims Liability	
Health insurance	1,648,035
Vision insurance	7,701
Dental insurance	54,645
Total Estimated Claims Liability	1,710,381
Administrative Fees	
Staff Salaries	62,694
Health insurance	1,246,354
Vision insurance	12,978
Dental insurance	87,837
Total Administrative Fees	1,409,863
Subtotal	32,783,346
Grand Total	\$ 32,783,346

Schedule of Average Benefit Payments - Pension

Last Ten Years

Payment Periods		Cr	edit	ed Servic	e (Y	Years) as	of S	September	r 3 0				
•	 0-5	5-10		10-15	,	15-20		20-25		25-30	30+	•	Total
Period 10/1/03 to 9/30/04: Average Monthly Benefit Average Final Average Salary Number of Active Retirants	\$ 860 1,192 165	\$ 1,613 32,786 30	\$	1,010 27,675 101	\$	1,425 30,487 77	\$	1,638 30,472 105	\$	2,642 46,696 1,940	\$ 2,896 52,623 279	\$	2,413 42,564 2,697
Period 10/1/04 to 9/30/05: Average Monthly Benefit Average Final Average Salary Number of Active Retirants	\$ 881 1,150 171	\$ 1,692 34,621 32	\$	1,023 28,069 103	\$	1,494 31,362 79	\$	1,688 30,799 105	\$	2,704 46,663 1,955	\$ 2,955 51,067 281	\$	2,466 42,364 2,726
Period 10/1/05 to 9/30/06: Average Monthly Benefit Average Final Average Salary Number of Active Retirants	\$ 1,074 7,023 28	\$ 1,803 36,079 33	\$	1,034 30,151 115	\$	1,534 33,407 83	\$	1,708 32,097 110	\$	2,672 48,479 2,048	\$ 2,908 53,890 295	\$	2,528 46,586 2,712
Period 10/1/06 to 9/30/07: Average Monthly Benefit Average Final Average Salary Number of Active Retirants	\$ 1,204 13,908 37	\$ 1,953 35,752 31	\$	1,090 31,922 123	\$	1,567 33,416 83	\$	1,812 33,727 113	\$	2,752 49,100 2,053	\$ 3,054 54,008 293	\$	2,604 47,113 2,733
Period 10/1/07 to 9/30/08: Average Monthly Benefit Average Final Average Salary Number of Active Retirants	\$ 1,409 25,371 32	\$ 1,958 36,598 33	\$	1,133 33,124 127	\$	1,618 33,774 88	\$	1,881 34,889 116	\$	2,801 49,530 2,046	\$ 3,094 54,550 294	\$	2,652 47,774 2,736
Period 10/1/08 to 9/30/09: Average Monthly Benefit Average Final Average Salary Number of Active Retirants	\$ 1,577 46,745 41	\$ 1,988 38,004 35	\$	1,164 33,515 127	\$	1,677 36,187 88	\$	2,004 37,184 117	\$	2,857 50,070 2,023	\$ 3,146 55,329 290	\$	2,704 48,649 2,721
Period 10/1/09 to 9/30/10: Average Monthly Benefit Average Final Average Salary Number of Active Retirants	\$ 1,934 48,354 50	\$ 2,139 37,160 33	\$	1,221 34,502 132	\$	1,704 36,152 88	\$	2,182 40,307 125	\$	2,936 51,475 2,040	\$ 3,226 56,908 294	\$	2,784 50,021 2,762
Period 10/1/10 to 9/30/11: Average Monthly Benefit Average Final Average Salary Number of Active Retirants	\$ 1,946 42,720 79	\$ 2,169 37,160 33	\$	1,307 35,669 135	\$	1,801 39,170 93	\$	2,525 47,658 143	\$	3,018 53,194 2,078	\$ 3,293 58,578 296	\$	2,862 51,716 2,857
Period 10/1/11 to 9/30/12: Average Monthly Benefit Average Final Average Salary Number of Active Retirants	\$ 2,232 40,154 178	\$ 2,181 37,217 31	\$	1,362 38,697 145	\$	1,851 40,877 94	\$	2,779 53,981 148	\$	3,111 54,808 2,033	\$ 3,340 59,266 284	\$	2,925 52,867 2,913
Period 10/1/12 to 9/30/13: Average Monthly Benefit Average Final Average Salary Number of Active Retirants	\$ 1,949 57,421 58	\$ 2,197 36,625 32	\$	1,389 39,204 150	\$	1,846 41,154 99	\$	2,803 54,177 165	\$	3,147 54,952 2,153	\$ 3,383 59,512 296	\$	2,984 53,953 2,953

<u>Schedule of Average Benefit Payments - Health</u> <u>Last Eight Years</u>

Payment Periods			Cro	edit	ed Servic	e (Y	ears) as	of S	eptembei	30		 	_	
	•	0-5	5-10		10-15		15-20		20-25		25-30	30 +	-	Total
Period 10/1/05 to 9/30/06														
Average Monthly Benefit	\$	1,426	\$ 1,992	\$	1,167	\$	1,577	\$	2,547	\$	2,821	\$ 3,018	\$	2,657
Average Final Average Salary		17,123	34,797		28,154		32,493		43,596		49,238	53,401		46,579
Number of Active Retirants		9	27		81		69		707		1,249	269		2,411
Period 10/1/06 to 9/30/07														
Average Monthly Benefit	\$	1,667	\$ 2,060	\$	1,231	\$	1,607	\$	2,621	\$	2,915	\$ 3,163	\$	2,741
Average Final Average Salary		21,265	33,615		31,012		32,504		44,052		50,004	53,445		47,112
Number of Active Retirants		14	25		89		69		711		1,253	267		2,428
Period 10/1/07 to 9/30/08														
Average Monthly Benefit	\$	2,109	\$ 2,173	\$	1,256	\$	1,666	\$	2,668	\$	2,974	\$ 3,216	\$	2,792
Average Final Average Salary		35,474	35,421		32,171		34,365		44,369		50,596	53,934		47,706
Number of Active Retirants		14	27		94		73		703		1,253	267		2,431
Period 10/1/08 to 9/30/09														
Average Monthly Benefit	\$	2,148	\$ 2,229	\$	1,276	\$	1,729	\$	2,733	\$	3,029	\$ 3,277	\$	2,845
Average Final Average Salary		41,318	35,421		32,572		35,861		45,021		51,038	54,550		48,236
Number of Active Retirants		17	27		97		74		697		1,248	260		2,420
Period 10/1/09 to 9/30/10														
Average Monthly Benefit	\$	2,774	\$ 2,266	\$	1,334	\$	1,756	\$	2,800	\$	3,120	\$ 3,364	\$	2,927
Average Final Average Salary		52,130	35,421		33,845		35,819		45,993		52,808	56,040		49,727
Number of Active Retirants		24	27		103		74		694		1,276	262		2,460
Period 10/1/10 to 9/30/11														
Average Monthly Benefit	\$	2,342	\$ 2,298	\$	1,406	\$	1,863	\$	2,906	\$	3,212	\$ 3,458	\$	3,011
Average Final Average Salary		36,454	35,421		34,597		39,393		47,821		54,685	58,042		51,289
Number of Active Retirants		51	27		105		79		696		1,328	264		2,550
Period 10/1/11 to 9/30/12														
Average Monthly Benefit	\$	2,423	\$ 2,319	\$	1,495	\$	1,940	\$	3,011	\$	3,316	\$ 3,519	\$	3,076
Average Final Average Salary		35,943	35,352		37,432		41,389		49,669		56,573	58,839		52,335
Number of Active Retirants		148	25		111		80		678		1,305	255		2,602
Period 10/1/12 to 9/30/13														
Average Monthly Benefit	\$	2,813	\$ 2,328	\$	1,521	\$	1,918	\$	3,040	\$	3,355	\$ 	\$	3,147
Average Final Average Salary		52,704	34,695		38,003		41,001		49,624		56,859	59,281		53,496
Number of Active Retirants		28	26		116		85		731		1,388	265		2,639

<u>Schedule of Average Benefit Payments - Dental</u> Last eight Years

Payment Periods	Credited Service (Years) as of September 30															
1 ayment 1 crious		0-5						15-20	20-25		25-30 30 +			- Total		
Period 10/1/05 to 9/30/06																
Average Monthly Benefit	\$	1,426	\$	1,992	\$	1,172	\$	1,575	\$	2,573	\$	2,836	\$	3,023	\$	2,675
Average Final Average Salary		17,123		34,797		28,084		32,097		44,239		49,573		53,502		46,970
Number of Active Retirants		9		27		79		68		695		1,248		268		2,394
Period 10/1/06 to 9/30/07																
Average Monthly Benefit	\$	1,667	\$	2,060	\$	1,237	\$	1,605	\$	2,644	\$	2,928	\$	3,171	\$	2,758
Average Final Average Salary		21,265		33,615		31,015		32,102		44,638		50,293		53,637		47,475
Number of Active Retirants		14		25		87		68		700		1,253		267		2,414
Period 10/1/07 to 9/30/08																
Average Monthly Benefit	\$	2,109	\$	2,173	\$	1,274	\$	1,659	\$	2,689	\$	2,987	\$	3,224	\$	2,810
Average Final Average Salary		35,474		35,421		32,475		33,454		44,915		50,915		54,126		48,072
Number of Active Retirants		14		27		92		71		692		1,252		267		2,415
Period 10/1/08 to 9/30/09																
Average Monthly Benefit	\$	2,148	\$	2,229	\$	1,293	\$	1,728	\$	2,747	\$	3,039	\$	3,284	\$	2,858
Average Final Average Salary		41,318		35,421		32,875		35,532		45,400		51,261		54,685		48,504
Number of Active Retirants		17		27		95		73		688		1,246		260		2,406
Period 10/1/09 to 9/30/10																
Average Monthly Benefit	\$	2,774	\$	2,266	\$	1,352	\$	1,755	\$	2,815	\$	3,124	\$	3,379	\$	2,938
Average Final Average Salary		52,130		35,421		34,155		35,490		46,395		52,910		56,366		49,958
Number of Active Retirants		24		27		101		73		687		1,272		263		2,447
Period 10/1/10 to 9/30/11																
Average Monthly Benefit	\$	2,342	\$	2,298	\$	1,446	\$	1,863	\$	2,921	\$	3,220	\$	3,472	\$	3,023
Average Final Average Salary		36,454		35,421		35,530		39,131		48,187		54,871		58,357		51,562
Number of Active Retirants		51		27		105		78		690		1,326		265		2,542
Period 10/1/11 to 9/30/12																
Average Monthly Benefit	\$	2,435	\$	2,319	\$	1,534	\$	1,940	\$	3,026	\$	3,327	\$	3,527	\$	3,089
Average Final Average Salary		36,182		35,352		38,315		41,155		50,071		56,833		59,026		52,642
Number of Active Retirants		148		25		111		79		674		1,304		256		2,597
Period 10/1/12 to 9/30/13																
Average Monthly Benefit	\$	2.813	\$	2,328	\$	1,549	\$	1,918	\$	3,048	\$	3,364	\$	3,578	\$	3,156
Average Final Average Salary	Ψ	52,704	Ψ	34,695	Ψ	38,683	Ψ	40,777	Ψ	49,851	Ψ	57,062	Ψ	59,413	Ψ	53,705
Number of Active Retirants		28		26		117		84		725		1,384		265		2,629
ramoor or retive remains		20		20		11/		07		123		1,504		203		2,02)

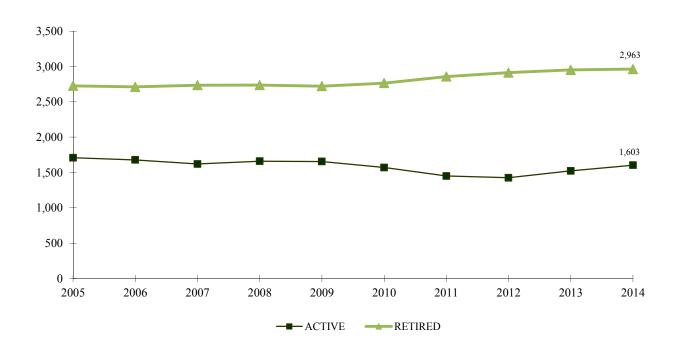
Schedule of Average Benefit Payments - Vision

Last Eight Years

Payment Periods	Credited Service (Years) as of September 30															
		0-5	0-5 5-10			10-15		15-20		20-25		25-30		30 +		Total
Period 10/1/05 to 9/30/06																
Average Monthly Benefit	\$	1,426	\$	1,992	\$	1,161	\$	1,561	\$	2,571	\$	2,836	\$	3,023	\$	2,673
Average Final Average Salary		17,123		34,797		28,418		31,669		44,168		49,574		53,502		46,936
Number of Active Retirants		9		27		80		69		696		1,250		268		2,399
Period 10/1/06 to 9/30/07																
Average Monthly Benefit	\$	1,667	\$	2,060	\$	1,226	\$	1,591	\$	2,643	\$	2,927	\$	3,171	\$	2,755
Average Final Average Salary		21,265		33,615		31,285		31,674		44,568		50,293		53,637		47,440
Number of Active Retirants		14		25		88		69		701		1,255		267		2,419
Period 10/1/07 to 9/30/08																
Average Monthly Benefit	\$	2,109	\$	2,173	\$	1,265	\$	1,645	\$	2,686	\$	2,987	\$	3,224	\$	2,807
Average Final Average Salary		35,474		35,421		32,576		33,025		44,813		50,914		54,126		48,027
Number of Active Retirants		14		27		92		72		694		1,254		267		2,420
Period 10/1/08 to 9/30/09																
Average Monthly Benefit	\$	2,148	\$	2,229	\$	1,284	\$	1,713	\$	2,746	\$	3,039	\$	3,284	\$	2,857
Average Final Average Salary		41,318		35,421		32,973		35,087		45,327		51,258		54,685		48,469
Number of Active Retirants		17		27		95		74		689		1,249		260		2,411
Period 10/1/09 to 9/30/10																
Average Monthly Benefit	\$	2,774	\$	2,266	\$	1,343	\$	1,740	\$	2,813	\$	3,125	\$	3,379	\$	2,937
Average Final Average Salary		52,130		35,421		34,248		35,045		46,321		52,929		56,366		49,936
Number of Active Retirants		24		27		101		74		688		1,277		263		2,454
Period 10/1/10 to 9/30/11																
Average Monthly Benefit	\$	2,342	\$	2,298	\$	1,438	\$	1,848	\$	2,919	\$	3,220	\$	3,472	\$,
Average Final Average Salary		36,454		35,421		35,619		38,668		48,110		54,882		58,357		51,537
Number of Active Retirants		51		27		105		79		691		1,331		265		2,549
Period 10/1/11 to 9/30/12																
Average Monthly Benefit	\$	2,435	\$	2,319	\$	1,525	\$	1,924	\$	3,026	\$	3,328	\$	3,527	\$	3,089
Average Final Average Salary		36,182		35,352		38,399		40,673		50,036		56,857		59,026		52,637
Number of Active Retirants		148		25		111		80		676		1,310		256		2,606
Period 10/1/12 to 9/30/13																
Average Monthly Benefit	\$,	\$	2,328	\$		\$		\$	3,048	\$	3,365	\$		\$,
Average Final Average Salary		52,704		34,695		38,928		40,777		49,820		57,084		59,413		53,729
Number of Active Retirants		28		26		116		84		727		1,390		265		2,636

Ten Year History of Membership

Fiscal Year Ended September 30



ACKNOWLEDGMENTS

The *Michigan State Police Retirement System Comprehensive Annual Financial Report* is prepared by Financial Services, Fiscal Management Division. Staff of the division for the fiscal year 2014 report included:

Management:

Ronald W. Foss, Director Aver Hamilton, Accounting Manager

Accountants:

Dan Harry Erik Simmer Paula Webb Carol Wheaton

Technical and Support Staff:

Cristine Berns Jamin Schroeder

Special thanks are also extended to the Office of Retirement Services personnel, accounting and support personnel throughout Financial Services, Investments Division of Treasury, Department of Community Health cashiering personnel, Office of the Auditor General, Gabriel Roeder Smith & Company and the staff at the Office of Financial Management. Preparation of this report would not have been possible without the efforts of these individuals.

The report may be viewed on-line at: www.michigan.gov/ors