

**MASSACHUSETTS HOUSING FINANCE AGENCY  
OPEB TRUST**

**FINANCIAL STATEMENTS  
AND  
REQUIRED SUPPLEMENTARY INFORMATION**

**JUNE 30, 2019 and 2018**



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**MASSACHUSETTS HOUSING FINANCE AGENCY OPEB TRUST  
FINANCIAL STATEMENTS AND REQUIRED SUPPLEMENTARY INFORMATION  
JUNE 30, 2019 and 2018**

**TABLE OF CONTENTS**

Independent Auditors' Report..... 1-2  
Management's Discussion and Analysis (Unaudited)..... 3-8

**FINANCIAL STATEMENTS**

Statements of Fiduciary Net Position..... 9  
Statements of Changes in Fiduciary Net Position..... 10  
Notes to Financial Statements..... 11-18

**REQUIRED SUPPLEMENTARY INFORMATION (UNAUDITED)**

Schedules of Changes in the Agency's Net OPEB Liability and Related Ratios..... 19  
Schedule of Agency Contributions..... 20  
Schedule of Investment Returns..... 21



## **Independent Auditors' Report**

To the Trustees of the  
Massachusetts Housing Finance Agency OPEB Trust

### **Report on the Financial Statements**

We have audited the accompanying financial statements of the Massachusetts Housing Finance Agency OPEB Trust (the Trust), as of and for the years ended June 30, 2019 and June 30, 2018, and the related notes to the 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 audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. 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.

To the Trustees of the  
Massachusetts Housing Finance Agency OPEB Trust


***Opinion***

In our opinion, the financial statements referred to above present fairly, in all material respects, the net position of the Trust as of June 30, 2019 and June 30, 2018, and the change in net position for the years then ended in accordance with accounting principles generally accepted in the United States of America.

**Other Matters**

***Required Supplementary Information***

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis (located on pages 3 through 8) and certain other postemployment benefits information (located on pages 19 through 21) be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.



**CliftonLarsonAllen LLP**

Boston, Massachusetts  
September 12, 2019

**Massachusetts Housing Finance Agency OPEB Trust**  
Annual Financial Report

Prepared by the  
Office of the Financial Director  
Charles C. Karimbakas, Financial Director  
Stephen E. Vickery, Comptroller

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**MANAGEMENT'S DISCUSSION AND ANALYSIS**

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**Overview of the Financial Statements**

The annual financial report of the Massachusetts Housing Finance Agency OPEB Trust (Trust) consists of four sections: (1) management's discussion and analysis; (2) the financial statements; (3) notes to the financial statements; and (4) required supplementary information (RSI).

The financial statements, notes to the financial statements and RSI were prepared in conformity with the accounting principles generally accepted in the United States of America (GAAP) using the accounting standards promulgated by the Governmental Accounting Standards Board (GASB).

**Management's Discussion and Analysis**

The following is an unaudited narrative overview of the results of the Trust's operations for the fiscal years ended June 30, 2019 (FY 2019) and June 30, 2018 (FY 2018), with selected comparative information for the fiscal year ended June 30, 2017 (FY 2017). Readers are encouraged to consider the information presented in this discussion and analysis in conjunction with the financial statements, notes to the financial statements and the RSI, all of which follow this narrative overview.

This discussion and analysis is designed (1) to assist the reader in focusing on significant financial matters and activities and (2) to identify any significant changes in the Trust's financial status during FY 2019 and FY 2018, with selected comparative information for FY 2017. The primary accounting policies followed by the Trust are outlined in Note B to the financial statements and are not repeated herein.

**The Financial Statements**

The two basic financial statements provide different views of the Trust.

- The statements of fiduciary net position provide information about the Trust's assets, liabilities, deferred outflows and inflows of resources, if any, and the resulting net position restricted for other postemployment benefits at the end of the Trust's fiscal year. It also provides information about the fair value and composition of fiduciary net position.
- The statements of changes in fiduciary net position include information about the additions to, deductions from, and net increase (or decrease) in fiduciary net position for the year.

## **The Notes to Financial Statements**

- The notes to financial statements provide information that is useful to the reader in understanding the Trust's financial statements, including a description of the Trust and the OPEB substantive plan it serves as well as its accounting methods and policies.
- The notes include details of the Trust's investments and cash equivalents and their related risks.
- The notes also provide information on contributions to the Trust and its funded status, as well as information taken from the two most recent actuarial valuations, including the methods and assumptions used.

## **Required Supplementary Information**

The RSI is presented in conformity with GAAP using the accounting standards promulgated by GASB. The three schedules provide additional information about the Trust's funding progress, employer contributions and investment returns.

## **Background**

The Massachusetts Housing Finance Agency OPEB substantive plan (the plan understood by the employer and the plan participants – “substantive plan”) is a single-employer contributory defined benefit healthcare plan, which is open to all regular full-time and certain regular part-time employees of Massachusetts Housing Finance Agency (“MassHousing” or the “Agency”). The substantive plan also provides \$5,000 of life insurance coverage to all eligible retirees and their beneficiaries. Benefit provisions and all other requirements are established by MassHousing and Chapter 32B of the General Laws of the Commonwealth of Massachusetts. Benefits vest after ten years of service either at MassHousing alone or in combination with certain other Massachusetts public employers.

On June 26, 2008, MassHousing established the Trust as an irrevocable trust dedicated solely to administering the investments of and providing the benefits under the terms of the substantive plan. Provision is made in the Massachusetts retirement law for the withholding of monthly premiums for continued coverage in a group health and life insurance program at the time of retirement. Continuation of insurance coverage for retirees is an optional benefit provided by governmental employers.

A committee comprised of key staff members of the Agency, one member designated by the Agency's Board and one member designated by the Agency's Executive Director, administers the Trust.

The Agency has transferred \$31.2 million from its Working Capital Fund to the Trust since the inception of the Trust. On June 11, 2019, the Members of MassHousing voted to transfer another \$3.0 million to the Trust for the fiscal year ending June 30, 2020. MassHousing anticipates funding the OPEB annual required contribution on a quarterly basis. On July 3, 2019, \$0.8 million was contributed to the Trust by MassHousing.

As of June 30, 2019, the substantive plan was partially funded. The Total OPEB liability for benefits was \$57.9 million as of that date and the plan fiduciary net position was \$34.4 million, resulting in a Net OPEB liability of \$23.5 million and a funded ratio of 59.4 percent.

## Financial Markets

The Trust relies on its ability to gain orderly access to financial markets to invest its assets. The Trust's assets and the long-term investment yield earned on investments are expected to be used to finance the payment of benefits. While the Trust believes that the financial impact of recent market events have not had a material adverse impact on its assets, no assurance can be given that future events will not have an adverse impact on the Trust's assets or its ability to access financial markets or to obtain financial products.

### Summarized Financial Information – Statements of Fiduciary Net Position (in thousands of dollars)

The table below represents summarized comparative statements of fiduciary net position at June 30, which were derived from the respective audited statements of fiduciary net position:

#### Statements of Plan Net Position

June 30, 2019 and 2018

(in thousands of dollars)

	June 30, 2019	Change from 2018		June 30, 2018	Change from 2017		June 30, 2017
		\$	%		\$	%	
<b>Assets</b>							
Cash and cash equivalents	\$ 203	\$ (34)	-14.3%	\$ 237	\$ 30	14.5%	\$ 207
Investments							
Bond mutual funds	14,715	1,756	13.6%	12,959	1,327	11.4%	11,632
Equity mutual funds	20,008	2,160	12.1%	17,848	2,175	13.9%	15,673
Total investments	<u>34,723</u>	<u>3,916</u>	<u>12.7%</u>	<u>30,807</u>	<u>3,502</u>	<u>12.8%</u>	<u>27,305</u>
Total assets	<u>34,926</u>	<u>3,882</u>	<u>12.5%</u>	<u>31,044</u>	<u>3,532</u>	<u>12.8%</u>	<u>27,512</u>
<b>Liabilities</b>							
Accounts payable	<u>537</u>	<u>24</u>	<u>4.7%</u>	<u>513</u>	<u>9</u>	<u>1.8%</u>	<u>504</u>
<b>Net position restricted for other poste employment benefits</b>	<u>\$ 34,389</u>	<u>\$ 3,858</u>	<u>12.6%</u>	<u>\$ 30,531</u>	<u>\$ 3,523</u>	<u>13.0%</u>	<u>\$ 27,008</u>

### Discussion of Net Position

#### Assets

#### Cash and Cash Equivalents

The FY 2019 decrease in cash and cash equivalents was the result of the Trust receiving \$2.9 million from MassHousing and \$928.4 thousand of net investment income (excluding net appreciation) less the \$2.9 million net purchase of mutual fund investments and \$982.9 thousand for the payment of expenses and fees. The FY 2018 increase in cash and cash equivalents was the result of the Trust receiving \$2.9 million from MassHousing and \$845 thousand of net investment income (excluding net appreciation) less the \$2.7 million net purchase of mutual fund investments and \$1 million for the payment of expenses and fees.

## **Investments**

The Trust's investments are invested in Vanguard Mutual Funds. The FY 2019 increase in investments was the result of the reinvestment of \$140.3 thousand of dividend income, the \$2.9 million net investment in Vanguard Mutual Funds and a \$1.0 million increase in the fair market value of investments. The FY 2018 increase in investments was the result of the reinvestment of \$6 thousand of dividend income, the \$2.7 million net investment in Vanguard Mutual Funds and a \$1.09 million gain on sale of investments less a \$310 thousand decrease in the fair market value of investments.

## **Liabilities**

### **Accounts Payable**

The FY 2019 accounts payable balance represents the following accrued expenses: healthcare premiums, investment fees, actuary fees and audit expenses for the audit of the Trust's financial statements. The FY 2018 accounts payable balance represents the following accrued expenses: healthcare premiums, investment fees, and audit expenses for the audit of the Trust's financial statements.

### **Net Position Restricted for Other Postemployment Benefits**

The Trust's net position restricted for other postemployment benefits consisted primarily of Vanguard Mutual Funds in FY 2019. The increase in FY 2019 was primarily the result the Trust receiving a \$2.9 million contribution from the Agency and recognizing a \$1.0 million increase in the fair value of investments, less actual healthcare premiums paid for retirees by the Trust. The Trust's net position restricted for other postemployment benefits consisted primarily of Vanguard Mutual Funds in FY 2018. The increase in FY 2018 was primarily the result the Trust receiving a \$2.9 million contribution from the Agency, less actual healthcare premiums paid for retirees by the Trust and recognizing a \$300 thousand decrease in the fair value of investments.



**Summarized Financial Information – Statements of Changes in Fiduciary Net Position (in thousands of dollars)**

The table below represents summarized comparative statements of changes in fiduciary net position at June 30, which were derived from the respective audited statements of changes in net position:

**Statements of Changes in Plan Net Position**

For the fiscal years ended June 30, 2019 and 2018

(in thousands of dollars)

	FY 2019	Change from 2018		FY 2018	Change from 2017		FY 2017
		\$	%		\$	%	
<b>Additions</b>							
<b>Contributions</b>							
Employer contributions	\$ 3,459	\$ 344	11.0%	\$ 3,115	\$ 61	2.0%	\$ 3,054
<b>Net investment income</b>							
Interest and dividends	953	96	11.2%	857	133	18.4%	724
Net appreciation (depreciation) in fair value of investments	1,040	264	34.0%	776	(1,249)	-61.7%	2,025
Total investment income	1,993	360	22.0%	1,633	(1,116)	-40.6%	2,749
Less investment expense	23	4	21.1%	19	4	26.7%	15
Net investment income	1,970	356	22.1%	1,614	(1,120)	-41.0%	2,734
Total additions	5,429	700	14.8%	4,729	(1,059)	-18.3%	5,788
<b>Deductions</b>							
Benefits	1,531	356	30.3%	1,175	(220)	-15.8%	1,395
Administrative expenses	40	9	29.0%	31	3	10.7%	28
Total deductions	1,571	365	30.3%	1,206	(217)	-15.2%	1,423
<b>Net increase</b>	3,858	335	9.5%	3,523	(842)	-19.3%	4,365
<b>Net position restricted for other postemployment benefits</b>							
Beginning of fiscal year	30,531	3,523	13.0%	27,008	4,365	19.3%	22,643
End of fiscal year	\$ 34,389	\$ 3,858	12.6%	\$ 30,531	\$ 3,523	13.0%	\$ 27,008

**Discussion of Changes in Fiduciary Net Position Restricted for Other Postemployment Benefits**

The increase in FY 2019 and the increase in FY 2018 were the result of several major items that positively or negatively affected the change in net position restricted for other postemployment benefits as described below:

**Employer Contributions**

The FY 2019 and FY2018 increase in Employer Contributions was primarily the result of an increase in the actuarial accrued liability per the actuarial valuations dated 1/1/17. The Employer Contribution for FY 2019 and FY 2018 includes an implicit subsidy of \$562 thousand and \$214 thousand, respectively, resulting from a uniform healthcare insurance premium rate being applied to both active and retired participants. The increase in employer contributions in both comparative periods was primarily the result of rising healthcare insurance premiums and changes in mortality projections.

MassHousing is required to contribute approximately 80% of the basic cost of group health insurance for retirees (and, in some cases, dependents) who retired after January 31, 2010, 85% for those who retired after July 1, 1994 and before February 1, 2010 and 90% for those retirees who retired prior to July 2, 1994; the remaining cost is withheld from the retiree's or beneficiary's monthly pension benefit, which is remitted directly to the group insurance commission and is not reflected in these financial statements. Active and Inactive Plan Members are not required to contribute to the plan.

### **Net Investment Income**

The FY 2019 and FY 2018 increase in interest and dividends was primarily the result of increases in investment balances. The FY 2019 increase in net investment income was primarily the result of the Trust's net increase in the fair value of investments of \$1 million as compared to the prior year increase of \$776 thousand. The FY 2018 increase in net investment income was primarily the result of gain on investment and investment income.

### **Benefits Expense**

The FY 2019 increase in benefits expense was primarily the result of the rising cost of healthcare insurance premiums and a higher implicit subsidy amount. The FY 2018 decrease in benefits expense was primarily related to a lower implicit subsidy which was calculated using a revised methodology. Benefits expense for FY 2019 and FY 2018 includes an implicit subsidy of \$562 thousand and \$214 thousand, respectively.

### **Administrative Expenses**

Administrative expenses increased slightly in FY 2019 and FY 2018. MassHousing does not allocate to the Trust the cost of any of the administrative services it provides to the Trust.

### **Request for Information**

This financial report is designed to provide a general overview of the Trust's finances for all those with an interest in its finances. Questions concerning any of the information provided in this report or requests for additional information should be addressed to:

MassHousing  
Office of the Financial Director  
One Beacon Street  
Boston, MA 02108-3106

## Massachusetts Housing Finance Agency OPEB Trust

### Statements of Fiduciary Net Position

June 30, 2019 and 2018

In thousands of dollars

	<b>June 30, 2019</b>	<b>June 30, 2018</b>
<b>Assets</b>		
Cash and cash equivalents	\$ 203	\$ 237
Investments		
Bond mutual funds	14,715	12,959
Equity mutual funds	20,008	17,848
Total investments	<u>34,723</u>	<u>30,807</u>
Total assets	<u>34,926</u>	<u>31,044</u>
<b>Liabilities</b>		
Accounts payable - administrative expenses	38	31
Accounts payable - insurance premiums	499	482
Total Accounts Payable	<u>537</u>	<u>513</u>
<b>Net position retriected for other posteemployment benefits</b>	<u>\$ 34,389</u>	<u>\$ 30,531</u>

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

## Massachusetts Housing Finance Agency OPEB Trust

### Statements of Changes in Fiduciary Net Position

For the fiscal years ended June 30, 2019 and 2018

In thousands of dollars

	<b>Fiscal 2019</b>	<b>Fiscal 2018</b>
<b>Additions</b>		
Contributions		
Employer contributions	\$ 3,459	\$ 3,115
Net investment income		
Interest and dividends	953	857
Net appreciation (depreciation) in fair value of investments	1,040	776
Total investment income	1,993	1,633
Less investment expense	23	19
Net investment income	1,970	1,614
Total additions	5,429	4,729
<b>Deductions</b>		
Benefits	1,531	1,175
Administrative expenses	40	31
Total deductions	1,571	1,206
<b>Net increase</b>	3,858	3,523
<b>Net position restricted for other poste mployment benefits</b>		
Beginning of fiscal year	30,531	27,008
End of fiscal year	\$ 34,389	\$ 30,531

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

**Massachusetts Housing Finance Agency OPEB Trust**  
**Notes to Financial Statements**  
**June 30, 2019**

**Note A. Plan Description and Trust**

**Plan Administration**

The Massachusetts Housing Finance Agency OPEB substantive plan (the plan understood by the employer and plan participants – “substantive plan”) is a single-employer contributory defined benefit healthcare plan, which is open to all regular full-time and certain regular part-time employees of the Massachusetts Housing Finance Agency (“MassHousing” or the “Agency”). The substantive plan also provides \$5,000 of life insurance coverage to all eligible retirees and their beneficiaries. Benefit provisions and all other requirements are established by MassHousing and Chapter 32B of the General Laws of the Commonwealth of Massachusetts. Benefits vest after 10 years of service either at MassHousing alone or in combination with certain other public employers. MassHousing is required to contribute approximately 80% of the basic cost of group health insurance for retirees (and, in some cases, dependents) who retired after January 31, 2010, 85% for those who retired after July 1, 1994 and before February 1, 2010 and 90% for those retirees who retired prior to July 2, 1994; the remaining cost is withheld from the retiree’s or beneficiary’s monthly pension benefit, which is remitted directly to the group insurance commission and is not reflected in these financial statements. Active and Inactive Plan Members are not required to contribute to the plan.

On June 26, 2008, MassHousing established the Massachusetts Housing Finance Agency OPEB Trust (Trust), an irrevocable trust dedicated solely to both administering the investments of and providing the benefits under the terms of the substantive plan. Provision is made in the Massachusetts retirement law for withholding monthly premiums for continued coverage in a group health and life insurance program at the time of retirement. Continuation of insurance coverage for retirees is an optional benefit provided by governmental employers. These financial statements reflect the operations of the Trust and do not reflect the financial position of MassHousing’s Retirement System.

A committee comprised of key staff members of the Agency, one member designated by the Agency’s Board and one member designated by the Agency’s Executive Director, administers the Trust.

**Plan Membership**

Membership of the substantive plan consisted of the following at June 30, 2019:

Retired, Disabled, Survivors and Beneficiaries receiving benefits	158
Inactive plan members entitled to but not yet receiving benefit payments	52
Active plan members	<u>325</u>
Total	<u>535</u>

**Note B. Summary of Significant Accounting Policies**

**Basis of Presentation**

The Trust's financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America.

**Basis of Accounting**

The Trust accounts for and reports its activities by applying Standards of Governmental Accounting and Financial Reporting, as promulgated by the Governmental Accounting Standards Board (GASB).

The Trust's financial statements have been prepared using the accrual basis of accounting in accordance with GASB Statement No. 74, "Financial Reporting for Postemployment Benefit Plans Other than Pension Plans". This statement establishes standards for the measurement, recognition, and display of the assets, liabilities, deferred outflows and inflows of resources, if any, and, where applicable, net position restricted for other postemployment benefits and changes in net position restricted for other postemployment benefits of the Trust and for related disclosures.

Employer contributions are recognized in the fiscal year to which they apply, as provided through MassHousing's annual budgeting process approved by MassHousing Members. Benefits, investment income and administrative expenses are all recognized on the accrual basis. Administrative expenses are financed by investment income.

**Cash and Cash Equivalents**

The Trust held no cash deposits as of June 30, 2019, and 2018.

The Trust's cash equivalents as of June 30, 2019, and 2018 were \$203 thousand and \$237 thousand, respectively. Cash equivalents include cash held in money market mutual funds. The Trust's cash equivalent is the JP Morgan US Government Money Market Fund.

**Investments**

Investments are reported at fair value. Quoted market prices for long-term investments are used to determine the fair value at the close of each reporting period.

The Securities Investor Protection Corporation (SIPC) is a nonprofit corporation established by the federal government that provides limited protection, in certain circumstances, for securities and cash held in a brokerage account. The coverage only applies when a firm shuts down because of financial circumstances and customer assets are missing or at risk because of the firm's failure. The Vanguard Group (Vanguard) is a member of SIPC. SIPC provides brokerage customers up to \$500,000 of coverage for cash and securities held by brokerage firms with cash coverage limited to \$250,000.

## Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America at times requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

### Note C. Investment Policy, Investments and Cash Equivalents

Massachusetts Housing Finance Agency OPEB Trust's Investment Policy is designed to ensure the prudent management of funds, and the availability of operating funds when required, while earning a competitive return within the policy framework. The primary objectives of investment activity, in order of priority, are safety, liquidity, and yield.

The Investment Policy regarding the allocation of invested OPEB Trust assets is established and may be amended by the OPEB Committee by a majority of its members. It is the policy of the OPEB Trust Committee to pursue an investment strategy that reduces risk through the prudent diversification of the portfolio across a broad selection of distinct asset classes. Based on these investment objectives, the OPEB Committee conducts an annual review of the asset allocations to obtain a targeted long-term rate of return.

On December 6, 2016, the OPEB Trust Committee voted to fund the annual required contribution on a quarterly basis.

The following was the Committee's adopted asset allocation policy as of June 30, 2019:

<b>Asset Class</b>	<b><u>Target Allocation</u></b>
Domestic Equity Assets	24%
International Developed Markets Equity (Large) Assets	16%
International Emerging Markets Equity Assets	15%
Investment Grade Bond Assets	20%
High Yield Bond Assets	15%
TIPS Assets	10%
Total	<u>100%</u>

As of June 30, 2019, and 2018, the Trust had the following investments and cash equivalents, at fair value (in thousands of dollars):

**June 30, 2019**

Investment Type	Fair Value	Investment Maturities (Years) (in Thousands of Dollars)		
		Less Than 1	1 - 5	6 - 10
<u>Debt Securities:</u>				
Money market mutual funds	\$ 203	\$ 203	\$ -	\$ -
Bond mutual funds	<u>14,715</u>	<u>-</u>	<u>4,752</u>	<u>9,963</u>
Total debt securities	<u>14,918</u>	<u>\$ 203</u>	<u>\$ 4,752</u>	<u>\$ 9,963</u>
<u>Other Investments:</u>				
Equity mutual funds	<u>20,008</u>			
Total investments	<u>\$ 34,926</u>			

**June 30, 2018**

Investment Type	Fair Value	Investment Maturities (Years) (in Thousands of Dollars)		
		Less Than 1	1 - 5	6 - 10
<u>Debt Securities:</u>				
Money market mutual funds	\$ 237	\$ 237	\$ -	\$ -
Bond mutual funds	<u>12,959</u>	<u>-</u>	<u>4,209</u>	<u>8,750</u>
Total debt securities	<u>13,196</u>	<u>\$ 237</u>	<u>\$ 4,209</u>	<u>\$ 8,750</u>
<u>Other Investments:</u>				
Equity mutual funds	<u>17,848</u>			
Total investments	<u>\$ 31,044</u>			

**Interest Rate Risk**

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. Investments in bonds are subject to the chance that bond prices will decline because of rising interest rates. Interest rate risk for cash equivalents is minimized by investing in U.S. Government money market funds. Interest rate risk for mutual funds is minimized by the selection of mutual funds that invest primarily in investment grade short-and intermediate-term bonds, whose prices are less sensitive to interest rate changes than are the prices of long-term bonds.



## Credit Risk and Custodial Credit Risk

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. Custodial credit risk is the risk that, in the event of the failure of the issuer or counterparty to a transaction, the Trust will not be able to recover the value of its investment. Credit risk and custodial risk are minimized by the selection of mutual funds that purchase bonds that are issued by the U.S. Treasury, or are of investment grade quality or, if below investment grade quality, constitute a diverse range of bond investments thereby mitigating any significant credit risk. At June 30, 2019 and June 30, 2018, the Trust was not exposed to custodial credit risk.

At June 30, 2019 and June 30, 2018, the credit quality ratings of the Trust's debt securities were as follows (in thousands of dollars):

<b>June 30, 2019</b>		<b><u>S&amp;P Ratings</u></b>	
<b><u>Investment Type</u></b>	<b><u>Fair Value</u></b>	<b><u>AAAm</u></b>	<b><u>Unrated</u></b>
Money market mutual funds	\$ 203	\$ 203	\$ -
Mutual bond funds	<u>14,715</u>	<u>-</u>	<u>14,715</u>
Total investments and cash equivalents	<u>\$ 14,918</u>	<u>\$ 203</u>	<u>\$ 14,715</u>

<b>June 30, 2018</b>		<b><u>S&amp;P Ratings</u></b>	
<b><u>Investment Type</u></b>	<b><u>Fair Value</u></b>	<b><u>AAAm</u></b>	<b><u>Unrated</u></b>
Money market mutual funds	\$ 237	\$ 237	\$ -
Mutual bond funds	<u>12,959</u>	<u>-</u>	<u>12,959</u>
Total investments and cash equivalents	<u>\$ 13,196</u>	<u>\$ 237</u>	<u>\$ 12,959</u>

## Concentration of Credit Risk

Concentration of credit risk is the risk of loss attributed to the magnitude of an investment in a single security. The Trust diversifies its investment portfolio to minimize the impact of potential losses from one type of security. At June 30, 2019 and June 30, 2018, The OPEB Trust was not exposed to concentration of credit risk.

## Rate of Return

For the year ended June 30, 2019, the annual money-weighted rate of return on investments, net of expenses was 6.09 percent. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

The long-term expected rate of return on the OPEB plan investments was determined using a building-block method in which best estimate ranges of expected future real rates of return (expected returns, net of investment expense and inflation) are developed for each major asset class. The ranges are combined to produce the long-term expected rate of return by weighting 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 target asset allocation as of June 30, 2019, are summarized in the following table:

<u>Asset Class</u>	<b>20 Year Expected Real Rate of Return (Geometric Average)</b>
Domestic Equity Assets	5.40%
International Developed Markets Equity (Large) Asset	5.80%
International Emerging Markets Equity Assets	7.60%
Investment Grade Bond Assets	1.30%
High Yield Bond Assets	3.80%
TIPS Assets	1.00%

#### **Foreign Currency Risk**

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment or a deposit. Foreign currency risk is minimized by the selection of mutual funds that employ an indexing investment approach designed to track the performance of the FTSE Developed All Cap ex US Index and the FTSE Emerging Markets All Cap China A Inclusion Index. The Funds invest by sampling the index, meaning that it holds a broadly diversified collection of securities that, in the aggregate, approximates the index in terms of key characteristics. The Trust is exposed (indirectly) to foreign currency risk. At June 30, 2019 and 2018, the Trust had foreign equity mutual funds of \$10.7 million and \$9.8 million, respectively.

#### **Note D. Fair Value Measurement**

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value hierarchy categorizes the inputs to valuation techniques used to measure fair value into the following three levels:

Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities at the measurement date.

Level 2 inputs are inputs, other than quoted prices included within Level 1, that are observable for an asset or liability, either directly or indirectly.

Level 3 inputs are significant unobservable inputs.

The Trust has the following recurring fair value measurements as of June 30, 2019:

Bond mutual funds and equity mutual funds of \$34.7 million are valued using quoted market prices (Level 1 inputs).

The Trust has the following recurring fair value measurements as of June 30, 2018:

Bond mutual funds and equity mutual funds of \$30.8 million are valued using quoted market prices (Level 1 inputs).

**Note E. Employer Contributions**

Contributions from MassHousing for healthcare benefits to retirees are provided through MassHousing’s annual budgeting process as approved by MassHousing Members. Employer contributions in fiscal years 2019 and 2018 were \$3.5 million and \$3.1 million, respectively. The fiscal year 2019 and 2018 employer contributions included an implicit subsidy of \$562 thousand and \$214 thousand, respectively. The implicit subsidy amounts were the result of applying a uniform healthcare premium rate to both active and retired participants.

On June 11, 2019, MassHousing members voted to transfer \$3.0 million to the Trust for fiscal year 2020. MassHousing anticipates funding the OPEB annual required contribution on a quarterly basis at the beginning on each quarter. On July 3, 2019, \$0.8 million was contributed to the Trust by MassHousing. Future contributions to be received depend on the funding schedule adopted by Agency Board vote and may be changed or eliminated by future votes of Agency Members.

**Note F. Net OPEB Liability**

The components of the net OPEB liability at June 30, 2019 and June 30, 2018, were as follows:

	<b>06/30/19</b>	<b>06/30/18</b>
Total OPEB Liability	\$ 57,901	\$ 53,610
Plan Fiduciary Net Position	<u>34,389</u>	<u>30,531</u>
Net OPEB Liability	<u>\$ 23,512</u>	<u>\$ 23,079</u>
Plan Fiduciary Net Position as a percentage of the total OPEB Liability	59.4%	57.0%

**Note G. Actuarial Assumptions**

The total OPEB liability was determined by an actuarial valuation as of January 1, 2019, using the following assumptions, applied to all periods including the measurement period:

Overall payroll increase rate 3.50%

Investment rate of return 7.25%, net of OPEB plan investment expense, including inflation

Healthcare cost trend rate 7 % to 9% initial graded down to 5% in 2046

Mortality rates:

Actives – The RP-2014 Mortality Tables at 2006, white collar, sex-distinct, for Employees projected using MP-2016.

Retirees – The RP-2014 Mortality Tables at 2006, white collar, sex-distinct, for Healthy Annuitants projected using MP-2016.

Disabled – The RP-2014 Mortality Tables at 2006, white collar, sex-distinct, for Healthy Annuitants projected using MP-2016. Set forward 2 years.

Update procedures were used to roll forward the total OPEB Liability to June 30, 2019.

**Discount rate**

The discount rate used to measure the total OPEB liability was 7.25 percent for the FY 2019 and FY 2017 actuarial valuations. The projection of cash flows used to determine the discount rate assumed that MassHousing contributions will be made at rates equal to the actuarially determined contribution rate. Based on those assumptions, the OPEB 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 OPEB plan investments was applied to all periods of projected benefit payments to determine the total OPEB liability.

**Sensitivity of the net OPEB liability to changes in the discount rate.**

The following presents the Agency’s net OPEB liability calculated using the discount rate of 7.25 percent, as well as what the Agency’s net OPEB liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.25 percent) or 1-percentage-point higher (8.25 percent) than the current rate (in thousands of dollars):

	1% Decrease (6.25%)	Discount Rate (7.25%)	1% Increase (8.25%)
Net OPEB liability \$	31,006	\$ 23,512	\$ 15,519

**Sensitivity of the net OPEB liability to changes in healthcare cost trend rates.**

The following presents the Agency’s net OPEB liability calculated using the healthcare cost trend rates that are 1-percentage-point lower (8 percent initial graded down to 4 percent in 2046) or 1-percentage-point higher (10 percent initial graded down to 6 percent in 2046) than the current healthcare trend rates (in thousands of dollars):

	1% decrease (8% initial graded down to 4% in 2046)	Healthcare Cost Trend Rates (9% initial graded down to 5% in 2046)	1% increase (10% initial graded down to 6% in 2046)
Net OPEB liability \$	14,447	\$ 23,512	\$ 32,445

**Massachusetts Housing Finance Agency OPEB Trust**  
**Required Supplementary Information**  
**Schedule 1**

**Schedule of Changes in the Agency's Net OPEB Liability and Related Ratios <sup>(1)</sup>**  
**(Dollar amounts in thousands)**

	<u>FY 2019</u>	<u>FY 2018</u>	<u>FY 2017</u>
<b>Total OPEB Liability</b>			
Service Cost	\$ 1,294	\$ 1,430	\$ 1,379
Interest	3,925	3,670	3,402
Differences between expected and actual experience	(326)	-	-
Changes of assumptions	929	-	-
Benefit payments	(1,531)	(1,175)	(1,264)
<b>Net change in total OPEB liability</b>	<u>4,291</u>	<u>3,925</u>	<u>3,517</u>
<b>Total OPEB liability - beginning</b>	<u>53,610</u>	<u>49,685</u>	<u>46,168</u>
<b>Total OPEB liability - ending (a)</b>	<u>\$ 57,901</u>	<u>\$ 53,610</u>	<u>\$ 49,685</u>
<b>Plan fiduciary net position</b>			
Contributions - employer	\$ 3,459	\$ 3,115	\$ 3,054
Net Investment Income	1,970	1,614	2,734
Benefit payments	(1,531)	(1,175)	(1,395)
Administrative expenses	(40)	(31)	(28)
<b>Net change in plan fiduciary net position</b>	<u>3,858</u>	<u>3,523</u>	<u>4,365</u>
<b>Plan fiduciary net position - beginning</b>	<u>30,531</u>	<u>27,008</u>	<u>22,643</u>
<b>Plan fiduciary net position - ending (b)</b>	<u>\$ 34,389</u>	<u>\$ 30,531</u>	<u>\$ 27,008</u>
<b>Net OPEB Liability - ending (a)-(b)</b>	<u>\$ 23,512</u>	<u>\$ 23,079</u>	<u>\$ 22,677</u>
<b>Plan fiduciary net position as a percentage of total OPEB liability</b>	59.4%	57.0%	54.4%

<sup>(1)</sup> Data is being accumulated annually to present 10 years of the reported information.

See accompanying independent auditors' report

**Massachusetts Housing Finance Agency OPEB Trust**  
**Required Supplementary Information**  
**Schedule 2**

**Schedule of Agency Contributions <sup>(1)</sup>**  
**(Dollar amounts in thousands)**

	FY 2019	FY 2018	FY 2017
Actuarial Determined Contribution	\$ 3,459	\$ 3,115	\$ 3,054
Contributions in relation to the Actuarially Determined Contribution	<u>3,459</u>	<u>3,115</u>	<u>3,054</u>
Contribution deficiency (excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

**Notes to Schedule**

**Actuarially determined contributions consist of:**

	FY 2019	FY 2018	FY 2017
Cash Contribution	\$ 2,897	\$ 2,901	\$ 2,597
Implicit Subsidy	<u>562</u>	<u>214</u>	<u>457</u>
Actuarial Determined Contribution	<u>\$ 3,459</u>	<u>\$ 3,115</u>	<u>\$ 3,054</u>

**Methods and assumption used to determine contribution rates:**

Actuarial cost method	Projected Unit Credit Level Dollar cost method
Amortization method	Level percentage of pay, closed basis
Remaining amortization period	18 years
Asset valuation method	Market value
Overall payroll increase rate	3.5 percent
Healthcare cost trend rates	7% to 9% initial graded down to 5% in 2046
Investment rate of return	7.25 percent, net of OPEB plan investment expense
Retirement Age	Based on Tier classification, gender and hire dates.
Mortality	RP2014 Mortality Table at 2006 White Collar, projected with MP-2016

<sup>(1)</sup> Data is being accumulated annually to present 10 years of the reported information.

See accompanying independent auditors' report

**Massachusetts Housing Finance Agency OPEB Trust**  
**Required Supplementary Information**  
**Schedule 3**

**Schedules of Investment Returns <sup>(1)</sup>**

	<u>FY 2019</u>	<u>FY 2018</u>	<u>FY 2017</u>
Annual money-weighted rate of return, net of investment expense	6.09%	7.52%	9.78%

<sup>(1)</sup> Data is being accumulated annually to present 10 years of the reported information.

See accompanying independent auditors' report

