



**City of Naperville**

City of Naperville  
Executive Summary

**September 30, 2019**



## Total Fund Composite

## Manager Status

Market Value: \$153.2 Million and 100.0% of Fund

Investment Manager	Asset Class	Status	Reason
BMO/TCH	Int. Govt. Fixed Income	In Compliance	---
PFM	Int. Govt. Fixed Income	In Compliance	---
City-Managed IMET	Cash & Equivalents	In Compliance	---
Concentration Account	Cash & Equivalents	In Compliance	---

### Investment Manager Evaluation Terminology

The following terminology has been developed by Marquette Associates to facilitate efficient communication among the Investment Manager, Investment Consultant, and the Plan Sponsor. Each term signifies a particular status with the Fund and any conditions that may require improvement. In each case, communication is made only after consultation with the Trustees and/or the Investment Committee of the Plan.

**In Compliance** – The investment manager states it is acting in accordance with the Investment Policy Guidelines.

**Alert** – The investment manager is notified of a problem in performance (usually related to a benchmark or volatility measure), a change in investment characteristics, an alteration in management style or key investment professionals, and/or any other irregularities.

**On Notice** – The investment manager is notified of continued concern with one or more Alert issues. Failure to improve upon stated issues within a specific time frame justifies termination.

**Termination** – The Trustees have decided to terminate the investment manager. The investment manager is notified and transition plans are in place.

## Total Fund Composite

## Market Values

Market Value: \$153.2 Million and 100.0% of Fund

**Ending September 30, 2019**

	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio
<b>Total Fund Composite</b>		<b>153,220,086</b>	<b>18,222,420</b>	<b>100.0</b>
<b>Fixed Income Composite</b>		<b>102,171,355</b>	<b>-3,760</b>	<b>66.7</b>
BMO/TCH	Int. Govt. Fixed Income	50,647,834	-1,863	33.1
PFM	Int. Govt. Fixed Income	51,523,521	-1,897	33.6
<b>Cash Equivalents Composite</b>		<b>51,048,731</b>	<b>18,226,180</b>	<b>33.3</b>
City-Managed IMET	Cash & Equivalents	13,287	0	0.0
Concentration Account	Cash & Equivalents	51,035,444	18,226,180	33.3

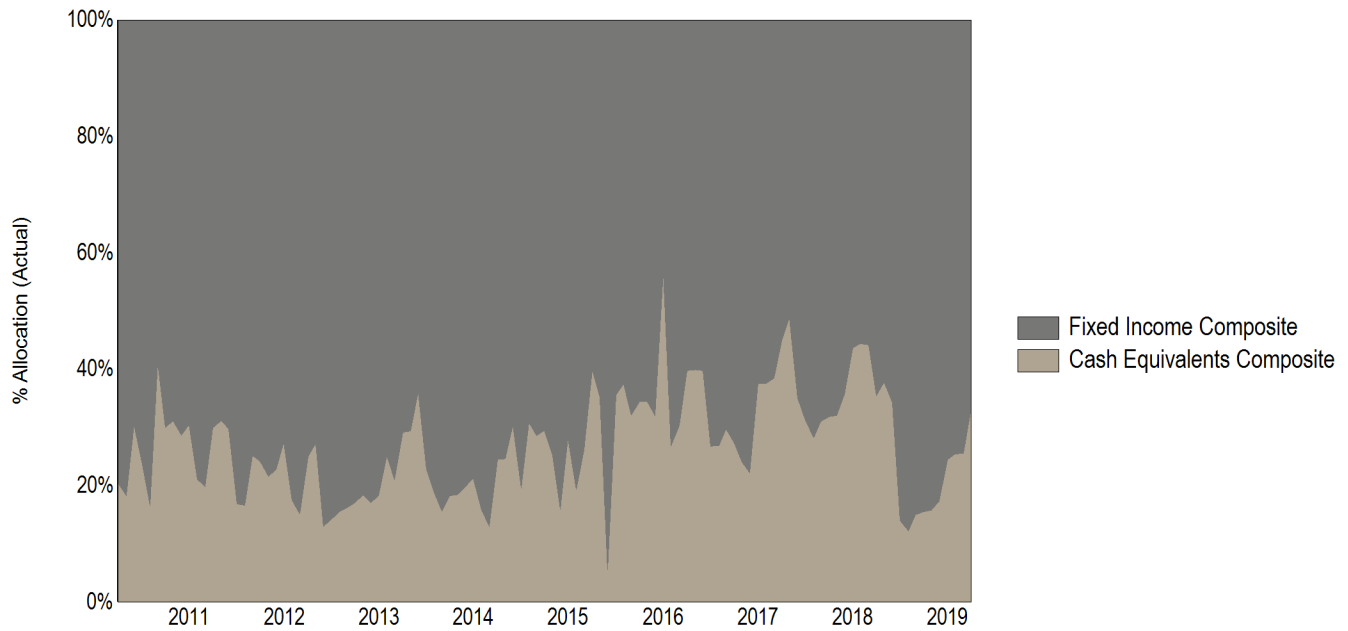
The average market value of the portfolio over the past 9 years ending September 30, 2019 is \$88,592,701.55.

## Total Fund Composite

## Asset Allocation

Market Value: \$153.2 Million and 100.0% of Fund

### Historic Asset Allocation



## Total Fund Composite

## Market Value History

Market Value: \$153.2 Million and 100.0% of Fund

### Summary of Cash Flows

	Third Quarter	Year-To-Date	One Year	Three Years	Five Years	Nine Years
<b>Beginning Market Value</b>	<b>\$133,653,846.43</b>	<b>\$112,294,151.26</b>	<b>\$116,756,352.59</b>	<b>\$88,030,455.85</b>	<b>\$103,933,628.42</b>	<b>\$107,216,265.83</b>
Net Cash Flow	\$18,222,420.20	\$35,172,919.63	\$29,335,727.68	\$58,741,709.79	\$40,212,997.72	\$31,753,271.55
Net Investment Change	\$1,343,819.30	\$5,753,015.04	\$7,128,005.66	\$6,447,920.29	\$9,073,459.79	\$14,250,548.55
<b>Ending Market Value</b>	<b>\$153,220,085.93</b>	<b>\$153,220,085.93</b>	<b>\$153,220,085.93</b>	<b>\$153,220,085.93</b>	<b>\$153,220,085.93</b>	<b>\$153,220,085.93</b>

## Total Fund Composite

## Annualized Performance (Gross of Fees)

Market Value: \$153.2 Million and 100.0% of Fund

Ending September 30, 2019

	3 Mo	YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs
<b>Total Fund Composite</b>	<b>1.0</b>	<b>4.9</b>	<b>6.1</b>	<b>2.8</b>	<b>1.8</b>	<b>1.8</b>	<b>1.8</b>	<b>1.4</b>	<b>2.2</b>
<i>Policy Benchmark</i>	1.1	4.7	6.7	2.9	1.8	1.9	2.0	1.5	2.1
<b>Fixed Income Composite</b>	<b>1.3</b>	<b>5.9</b>	<b>7.4</b>	<b>3.3</b>	<b>2.0</b>	<b>2.2</b>	<b>2.3</b>	<b>1.8</b>	<b>2.6</b>
<i>BBgBarc US Govt Int TR</i>	1.2	5.2	7.5	3.1	1.8	2.0	2.2	1.6	2.3
<i>BBgBarc US Govt/Credit Int TR</i>	1.4	6.4	8.2	3.5	2.4	2.7	2.7	2.1	3.0
<i>BBgBarc US Credit Int TR</i>	1.7	8.5	9.3	4.2	3.3	3.8	3.5	3.1	4.3
<b>Cash Equivalents Composite</b>	<b>0.2</b>	<b>0.4</b>	<b>0.7</b>	<b>0.3</b>	<b>0.2</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>
<i>91 Day T-Bills</i>	0.5	1.7	2.3	2.0	1.5	1.2	1.0	0.7	0.5

## Total Fund Composite

## Calendar Performance (Gross of Fees)

Market Value: \$153.2 Million and 100.0% of Fund

	Calendar Year								
	2018	2017	2016	2015	2014	2013	2012	2011	2010
<b>Total Fund Composite</b>	<b>0.8</b>	<b>1.2</b>	<b>0.7</b>	<b>0.9</b>	<b>2.2</b>	<b>-0.9</b>	<b>1.8</b>	<b>5.3</b>	<b>5.3</b>
<i>Policy Benchmark</i>	1.5	1.1	0.9	1.0	2.1	-1.1	1.5	5.2	4.2
<b>Fixed Income Composite</b>	<b>0.9</b>	<b>1.6</b>	<b>1.3</b>	<b>1.2</b>	<b>2.9</b>	<b>-1.2</b>	<b>2.3</b>	<b>6.2</b>	<b>5.7</b>
<i>BBgBarc US Govt Int TR</i>	1.4	1.1	1.1	1.2	2.5	-1.2	1.7	6.1	5.0
<i>BBgBarc US Govt/Credit Int TR</i>	0.9	2.1	2.1	1.1	3.1	-0.9	3.9	5.8	5.9
<i>BBgBarc US Credit Int TR</i>	0.0	3.7	3.7	0.9	4.2	-0.2	8.1	5.4	7.8
<b>Cash Equivalents Composite</b>	<b>0.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>
<i>91 Day T-Bills</i>	1.9	0.9	0.3	0.0	0.0	0.0	0.1	0.0	0.1

## Total Fund Composite

## Calendar Performance (Gross of Fees)

Market Value: \$153.2 Million and 100.0% of Fund

### Fiscal Year

	YTD	2018	2017	2016	5/1/15 - 12/31/15	Fiscal 2015	Fiscal 2014	Fiscal 2013	Fiscal 2012	Fiscal 2011	Fiscal 2010
<b>Total Fund Composite</b>	<b>4.9</b>	<b>0.8</b>	<b>1.2</b>	<b>0.7</b>	<b>0.0</b>	<b>2.1</b>	<b>-0.5</b>	<b>1.6</b>	<b>4.9</b>	<b>4.4</b>	<b>3.2</b>
<i>Policy Benchmark</i>	4.7	1.5	1.1	0.9	0.0	2.3	-0.7	1.5	4.7	3.5	2.0
<b>Fixed Income Composite</b>	<b>5.9</b>	<b>0.9</b>	<b>1.6</b>	<b>1.3</b>	<b>0.1</b>	<b>2.8</b>	<b>-0.7</b>	<b>2.1</b>	<b>5.8</b>	<b>4.7</b>	<b>--</b>
<i>BBgBarc US Govt Int TR</i>	5.2	1.4	1.1	1.1	0.0	2.7	-0.8	1.8	5.6	4.1	2.3
<i>BBgBarc US Govt/Credit Int TR</i>	6.4	0.9	2.1	2.1	-0.3	3.0	-0.2	3.2	5.9	4.9	7.4
<i>BBgBarc US Credit Int TR</i>	8.5	0.0	3.7	3.7	-0.9	3.6	0.8	6.0	6.4	6.6	17.0
<b>Cash Equivalents Composite</b>	<b>0.4</b>	<b>0.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>--</b>
<i>91 Day T-Bills</i>	1.7	1.9	0.9	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.1

Please note that the above table reflects a May 1 fiscal year for all but the first four columns, which reflect the newly implemented January 1 fiscal year.

# Investment Manager

# Annualized Performance (Gross of Fees)

Market Value: \$153.2 Million and 100.0% of Fund

Ending September 30, 2019

	3 Mo	YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs
<b>Total Fund Composite</b>	<b>1.0</b>	<b>4.9</b>	<b>6.1</b>	<b>2.8</b>	<b>1.8</b>	<b>1.8</b>	<b>1.8</b>	<b>1.4</b>	<b>2.2</b>
<i>Policy Benchmark</i>	1.1	4.7	6.7	2.9	1.8	1.9	2.0	1.5	2.1
<b>Fixed Income Composite</b>	<b>1.3</b>	<b>5.9</b>	<b>7.4</b>	<b>3.3</b>	<b>2.0</b>	<b>2.2</b>	<b>2.3</b>	<b>1.8</b>	<b>2.6</b>
<i>BBgBarc US Govt Int TR</i>	1.2	5.2	7.5	3.1	1.8	2.0	2.2	1.6	2.3
<i>BBgBarc US Govt/Credit Int TR</i>	1.4	6.4	8.2	3.5	2.4	2.7	2.7	2.1	3.0
<i>BBgBarc US Credit Int TR</i>	1.7	8.5	9.3	4.2	3.3	3.8	3.5	3.1	4.3
<b>BMO/TCH</b>	<b>1.3</b>	<b>5.9</b>	<b>7.5</b>	<b>3.3</b>	<b>1.9</b>	<b>2.3</b>	<b>2.3</b>	<b>1.7</b>	<b>2.6</b>
<i>BBgBarc US Govt Int TR</i>	1.2	5.2	7.5	3.1	1.8	2.0	2.2	1.6	2.3
<i>BBgBarc US Govt/Credit Int TR</i>	1.4	6.4	8.2	3.5	2.4	2.7	2.7	2.1	3.0
<i>BBgBarc US Govt Int TR</i>	1.2	5.2	7.5	3.1	1.8	2.0	2.2	1.6	2.3
<b>PFM</b>	<b>1.2</b>	<b>5.8</b>	<b>7.6</b>	<b>3.4</b>	--	--	--	--	--
<i>BBgBarc US Govt Int TR</i>	1.2	5.2	7.5	3.1	1.8	2.0	2.2	1.6	2.3
<i>BBgBarc US Govt/Credit Int TR</i>	1.4	6.4	8.2	3.5	2.4	2.7	2.7	2.1	3.0
<i>BBgBarc US Credit Int TR</i>	1.7	8.5	9.3	4.2	3.3	3.8	3.5	3.1	4.3
<b>Cash Equivalents Composite</b>	<b>0.2</b>	<b>0.4</b>	<b>0.7</b>	<b>0.3</b>	<b>0.2</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>
<i>91 Day T-Bills</i>	0.5	1.7	2.3	2.0	1.5	1.2	1.0	0.7	0.5
<b>City-Managed IMET</b>	<b>0.5</b>	<b>1.7</b>	<b>2.2</b>	<b>1.9</b>	<b>1.6</b>	<b>1.3</b>	<b>1.1</b>	<b>0.9</b>	--
<i>91 Day T-Bills</i>	0.5	1.7	2.3	2.0	1.5	1.2	1.0	0.7	0.5
<b>Concentration Account</b>	<b>0.2</b>	<b>0.4</b>	<b>0.7</b>	<b>0.3</b>	<b>0.2</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	--
<i>91 Day T-Bills</i>	0.5	1.7	2.3	2.0	1.5	1.2	1.0	0.7	0.5

# Investment Manager

# Calendar Performance (Gross of Fees)

Market Value: \$153.2 Million and 100.0% of Fund

	Calendar Year								
	2018	2017	2016	2015	2014	2013	2012	2011	2010
<b>Total Fund Composite</b>	<b>0.8</b>	<b>1.2</b>	<b>0.7</b>	<b>0.9</b>	<b>2.2</b>	<b>-0.9</b>	<b>1.8</b>	<b>5.3</b>	<b>5.3</b>
<i>Policy Benchmark</i>	1.5	1.1	0.9	1.0	2.1	-1.1	1.5	5.2	4.2
<b>Fixed Income Composite</b>	<b>0.9</b>	<b>1.6</b>	<b>1.3</b>	<b>1.2</b>	<b>2.9</b>	<b>-1.2</b>	<b>2.3</b>	<b>6.2</b>	<b>5.7</b>
<i>BBgBarc US Govt Int TR</i>	1.4	1.1	1.1	1.2	2.5	-1.2	1.7	6.1	5.0
<i>BBgBarc US Govt/Credit Int TR</i>	0.9	2.1	2.1	1.1	3.1	-0.9	3.9	5.8	5.9
<i>BBgBarc US Credit Int TR</i>	0.0	3.7	3.7	0.9	4.2	-0.2	8.1	5.4	7.8
<b>BMO/TCH</b>	<b>0.8</b>	<b>1.7</b>	<b>1.1</b>	<b>1.2</b>	<b>2.9</b>	<b>-1.5</b>	<b>2.2</b>	<b>6.3</b>	<b>5.3</b>
<i>BBgBarc US Govt Int TR</i>	1.4	1.1	1.1	1.2	2.5	-1.2	1.7	6.1	5.0
<i>BBgBarc US Govt/Credit Int TR</i>	0.9	2.1	2.1	1.1	3.1	-0.9	3.9	5.8	5.9
<i>BBgBarc US Govt Int TR</i>	1.4	1.1	1.1	1.2	2.5	-1.2	1.7	6.1	5.0
<b>PFM</b>	<b>1.2</b>	<b>1.4</b>	--	--	--	--	--	--	--
<i>BBgBarc US Govt Int TR</i>	1.4	1.1	1.1	1.2	2.5	-1.2	1.7	6.1	5.0
<i>BBgBarc US Govt/Credit Int TR</i>	0.9	2.1	2.1	1.1	3.1	-0.9	3.9	5.8	5.9
<i>BBgBarc US Credit Int TR</i>	0.0	3.7	3.7	0.9	4.2	-0.2	8.1	5.4	7.8
<b>Cash Equivalents Composite</b>	<b>0.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>
<i>91 Day T-Bills</i>	1.9	0.9	0.3	0.0	0.0	0.0	0.1	0.0	0.1
<b>City-Managed IMET</b>	<b>1.8</b>	<b>1.0</b>	<b>0.5</b>	<b>0.3</b>	<b>0.4</b>	<b>0.3</b>	<b>0.3</b>	--	--
<i>91 Day T-Bills</i>	1.9	0.9	0.3	0.0	0.0	0.0	0.1	0.0	0.1
<b>Concentration Account</b>	<b>0.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	--
<i>91 Day T-Bills</i>	1.9	0.9	0.3	0.0	0.0	0.0	0.1	0.0	0.1

## Total Fund Composite

## Annualized Performance (Net of Fees)

Market Value: \$153.2 Million and 100.0% of Fund

Ending September 30, 2019

	3 Mo	YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs
<b>Total Fund Composite</b>	<b>1.0</b>	<b>4.8</b>	<b>6.0</b>	<b>2.7</b>	<b>1.7</b>	<b>1.7</b>	<b>1.7</b>	<b>1.3</b>	<b>2.1</b>
<i>Policy Benchmark</i>	1.1	4.7	6.7	2.9	1.8	1.9	2.0	1.5	2.1
<b>Fixed Income Composite</b>	<b>1.2</b>	<b>5.8</b>	<b>7.3</b>	<b>3.1</b>	<b>1.9</b>	<b>2.1</b>	<b>2.2</b>	<b>1.6</b>	<b>2.5</b>
<i>BBgBarc US Govt Int TR</i>	1.2	5.2	7.5	3.1	1.8	2.0	2.2	1.6	2.3
<i>BBgBarc US Govt/Credit Int TR</i>	1.4	6.4	8.2	3.5	2.4	2.7	2.7	2.1	3.0
<i>BBgBarc US Credit Int TR</i>	1.7	8.5	9.3	4.2	3.3	3.8	3.5	3.1	4.3
<i>InvMetrics Public DB US Fix Inc Net Rank</i>	--	--	--	--	--	--	--	--	--
<b>Cash Equivalents Composite</b>	<b>0.2</b>	<b>0.4</b>	<b>0.7</b>	<b>0.3</b>	<b>0.2</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>
<i>91 Day T-Bills</i>	0.5	1.7	2.3	2.0	1.5	1.2	1.0	0.7	0.5

## Total Fund Composite

## Calendar Performance (Net of Fees)

Market Value: \$153.2 Million and 100.0% of Fund

	Calendar Year								
	2018	2017	2016	2015	2014	2013	2012	2011	2010
<b>Total Fund Composite</b>	<b>0.7</b>	<b>1.1</b>	<b>0.6</b>	<b>0.7</b>	<b>2.1</b>	<b>-1.0</b>	<b>1.7</b>	<b>5.2</b>	<b>5.2</b>
<i>Policy Benchmark</i>	1.5	1.1	0.9	1.0	2.1	-1.1	1.5	5.2	4.2
<b>Fixed Income Composite</b>	<b>0.8</b>	<b>1.4</b>	<b>1.1</b>	<b>1.1</b>	<b>2.7</b>	<b>-1.4</b>	<b>2.2</b>	<b>6.1</b>	<b>5.5</b>
<i>BBgBarc US Govt Int TR</i>	1.4	1.1	1.1	1.2	2.5	-1.2	1.7	6.1	5.0
<i>BBgBarc US Govt/Credit Int TR</i>	0.9	2.1	2.1	1.1	3.1	-0.9	3.9	5.8	5.9
<i>BBgBarc US Credit Int TR</i>	0.0	3.7	3.7	0.9	4.2	-0.2	8.1	5.4	7.8
<i>InvMetrics Public DB US Fix Inc Net Rank</i>	31	97	97	14	85	62	92	52	60
<b>Cash Equivalents Composite</b>	<b>0.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>
<i>91 Day T-Bills</i>	1.9	0.9	0.3	0.0	0.0	0.0	0.1	0.0	0.1

## Total Fund Composite

## Calendar Performance (Net of Fees)

Market Value: \$153.2 Million and 100.0% of Fund

### Fiscal Year

	YTD	2018	2017	2016	5/1/15 - 12/31/15	Fiscal 2015	Fiscal 2014	Fiscal 2013	Fiscal 2012	Fiscal 2011	Fiscal 2010
<b>Total Fund Composite</b>	<b>4.8</b>	<b>0.7</b>	<b>1.1</b>	<b>0.6</b>	<b>0.0</b>	<b>2.0</b>	<b>-0.6</b>	<b>1.5</b>	<b>4.8</b>	<b>4.2</b>	<b>3.0</b>
<i>Policy Benchmark</i>	4.7	1.5	1.1	0.9	0.0	2.3	-0.7	1.5	4.7	3.5	2.0
<b>Fixed Income Composite</b>	<b>5.8</b>	<b>0.8</b>	<b>1.4</b>	<b>1.1</b>	<b>0.0</b>	<b>2.6</b>	<b>-0.8</b>	<b>1.9</b>	<b>5.7</b>	<b>4.5</b>	<b>--</b>
<i>BBgBarc US Govt Int TR</i>	5.2	1.4	1.1	1.1	0.0	2.7	-0.8	1.8	5.6	4.1	2.3
<i>BBgBarc US Govt/Credit Int TR</i>	6.4	0.9	2.1	2.1	-0.3	3.0	-0.2	3.2	5.9	4.9	7.4
<i>BBgBarc US Credit Int TR</i>	8.5	0.0	3.7	3.7	-0.9	3.6	0.8	6.0	6.4	6.6	17.0
<b>Cash Equivalents Composite</b>	<b>0.4</b>	<b>0.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>--</b>
<i>91 Day T-Bills</i>	1.7	1.9	0.9	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.1

Please note that the above table reflects a May 1 fiscal year for all but the first four columns, which reflect the newly implemented January 1 fiscal year.

## Investment Manager

## Annualized Performance (Net of Fees)

Market Value: \$153.2 Million and 100.0% of Fund

Ending September 30, 2019

	3 Mo	YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs
<b>Total Fund Composite</b>	<b>1.0</b>	<b>4.8</b>	<b>6.0</b>	<b>2.7</b>	<b>1.7</b>	<b>1.7</b>	<b>1.7</b>	<b>1.3</b>	<b>2.1</b>
<i>Policy Benchmark</i>	1.1	4.7	6.7	2.9	1.8	1.9	2.0	1.5	2.1
<b>Fixed Income Composite</b>	<b>1.2</b>	<b>5.8</b>	<b>7.3</b>	<b>3.1</b>	<b>1.9</b>	<b>2.1</b>	<b>2.2</b>	<b>1.6</b>	<b>2.5</b>
<i>BBgBarc US Govt Int TR</i>	1.2	5.2	7.5	3.1	1.8	2.0	2.2	1.6	2.3
<i>BBgBarc US Govt/Credit Int TR</i>	1.4	6.4	8.2	3.5	2.4	2.7	2.7	2.1	3.0
<i>BBgBarc US Credit Int TR</i>	1.7	8.5	9.3	4.2	3.3	3.8	3.5	3.1	4.3
<i>InvMetrics Public DB US Fix Inc Net Rank</i>	--	--	--	--	--	--	--	--	--
<b>BMO/TCH</b>	<b>1.3</b>	<b>5.8</b>	<b>7.4</b>	<b>3.1</b>	<b>1.8</b>	<b>2.1</b>	<b>2.2</b>	<b>1.6</b>	<b>2.4</b>
<i>BBgBarc US Govt Int TR</i>	1.2	5.2	7.5	3.1	1.8	2.0	2.2	1.6	2.3
<i>BBgBarc US Govt/Credit Int TR</i>	1.4	6.4	8.2	3.5	2.4	2.7	2.7	2.1	3.0
<i>BBgBarc US Govt Int TR</i>	1.2	5.2	7.5	3.1	1.8	2.0	2.2	1.6	2.3
<i>eV US Government Fixed Inc Net Rank</i>	--	--	--	--	--	--	--	--	--
<b>PFM</b>	<b>1.2</b>	<b>5.8</b>	<b>7.5</b>	<b>3.3</b>	--	--	--	--	--
<i>BBgBarc US Govt Int TR</i>	1.2	5.2	7.5	3.1	1.8	2.0	2.2	1.6	2.3
<i>BBgBarc US Govt/Credit Int TR</i>	1.4	6.4	8.2	3.5	2.4	2.7	2.7	2.1	3.0
<i>BBgBarc US Credit Int TR</i>	1.7	8.5	9.3	4.2	3.3	3.8	3.5	3.1	4.3
<i>eV US Government Fixed Inc Net Rank</i>	--	--	--	--	--	--	--	--	--
<b>Cash Equivalents Composite</b>	<b>0.2</b>	<b>0.4</b>	<b>0.7</b>	<b>0.3</b>	<b>0.2</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>
<i>91 Day T-Bills</i>	0.5	1.7	2.3	2.0	1.5	1.2	1.0	0.7	0.5
<b>City-Managed IMET</b>	<b>0.5</b>	<b>1.7</b>	<b>2.2</b>	<b>1.9</b>	<b>1.6</b>	<b>1.3</b>	<b>1.1</b>	<b>0.9</b>	--
<i>91 Day T-Bills</i>	0.5	1.7	2.3	2.0	1.5	1.2	1.0	0.7	0.5
<b>Concentration Account</b>	<b>0.2</b>	<b>0.4</b>	<b>0.7</b>	<b>0.3</b>	<b>0.2</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	--
<i>91 Day T-Bills</i>	0.5	1.7	2.3	2.0	1.5	1.2	1.0	0.7	0.5

# Investment Manager

# Calendar Performance (Net of Fees)

Market Value: \$153.2 Million and 100.0% of Fund

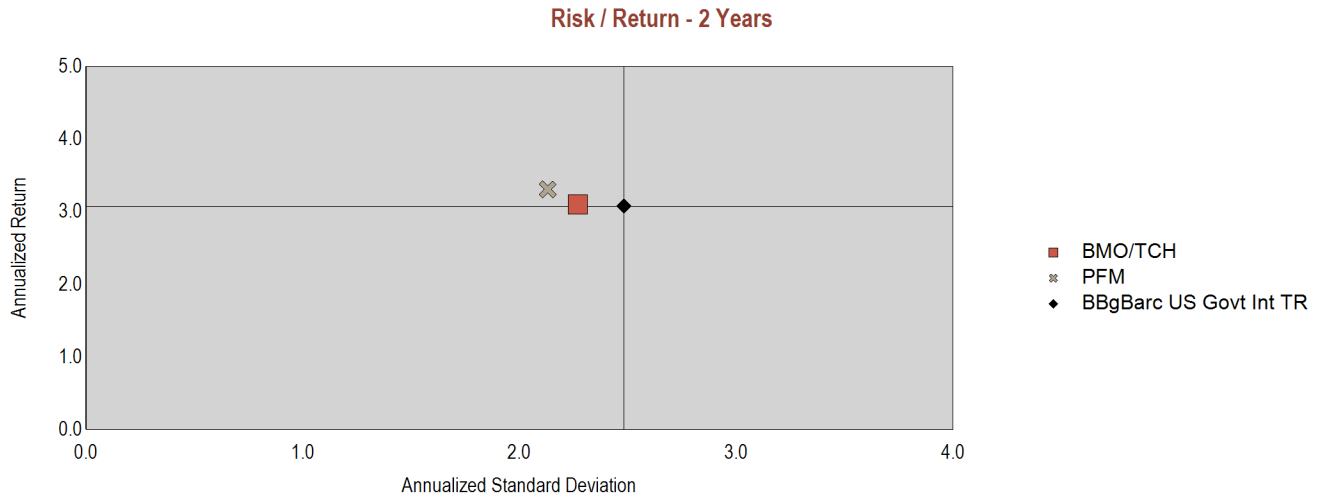
	Calendar Year								
	2018	2017	2016	2015	2014	2013	2012	2011	2010
<b>Total Fund Composite</b>	<b>0.7</b>	<b>1.1</b>	<b>0.6</b>	<b>0.7</b>	<b>2.1</b>	<b>-1.0</b>	<b>1.7</b>	<b>5.2</b>	<b>5.2</b>
<i>Policy Benchmark</i>	1.5	1.1	0.9	1.0	2.1	-1.1	1.5	5.2	4.2
<b>Fixed Income Composite</b>	<b>0.8</b>	<b>1.4</b>	<b>1.1</b>	<b>1.1</b>	<b>2.7</b>	<b>-1.4</b>	<b>2.2</b>	<b>6.1</b>	<b>5.5</b>
<i>BBgBarc US Govt Int TR</i>	1.4	1.1	1.1	1.2	2.5	-1.2	1.7	6.1	5.0
<i>BBgBarc US Govt/Credit Int TR</i>	0.9	2.1	2.1	1.1	3.1	-0.9	3.9	5.8	5.9
<i>BBgBarc US Credit Int TR</i>	0.0	3.7	3.7	0.9	4.2	-0.2	8.1	5.4	7.8
<i>InvMetrics Public DB US Fix Inc Net Rank</i>	31	97	97	14	85	62	92	52	60
<b>BMO/TCH</b>	<b>0.7</b>	<b>1.5</b>	<b>1.0</b>	<b>1.0</b>	<b>2.8</b>	<b>-1.7</b>	<b>2.1</b>	6.1	<b>5.2</b>
<i>BBgBarc US Govt Int TR</i>	1.4	1.1	1.1	1.2	2.5	-1.2	1.7	6.1	5.0
<i>BBgBarc US Govt/Credit Int TR</i>	0.9	2.1	2.1	1.1	3.1	-0.9	3.9	5.8	5.9
<i>BBgBarc US Govt Int TR</i>	1.4	1.1	1.1	1.2	2.5	-1.2	1.7	6.1	5.0
<i>eV US Government Fixed Inc Net Rank</i>	86	68	77	26	58	65	64	39	42
<b>PFM</b>	<b>1.2</b>	<b>1.3</b>	--	--	--	--	--	--	--
<i>BBgBarc US Govt Int TR</i>	1.4	1.1	1.1	1.2	2.5	-1.2	1.7	6.1	5.0
<i>BBgBarc US Govt/Credit Int TR</i>	0.9	2.1	2.1	1.1	3.1	-0.9	3.9	5.8	5.9
<i>BBgBarc US Credit Int TR</i>	0.0	3.7	3.7	0.9	4.2	-0.2	8.1	5.4	7.8
<i>eV US Government Fixed Inc Net Rank</i>	34	73	--	--	--	--	--	--	--
<b>Cash Equivalents Composite</b>	<b>0.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>
<i>91 Day T-Bills</i>	1.9	0.9	0.3	0.0	0.0	0.0	0.1	0.0	0.1
<b>City-Managed IMET</b>	<b>1.8</b>	<b>1.0</b>	<b>0.5</b>	<b>0.3</b>	<b>0.4</b>	<b>0.3</b>	<b>0.3</b>	--	--
<i>91 Day T-Bills</i>	1.9	0.9	0.3	0.0	0.0	0.0	0.1	0.0	0.1
<b>Concentration Account</b>	<b>0.3</b>	<b>0.0</b>	<b>0.0</b>	0.0	0.0	0.0	<b>0.0</b>	0.0	--
<i>91 Day T-Bills</i>	1.9	0.9	0.3	0.0	0.0	0.0	0.1	0.0	0.1

# Fixed Income Composite

As of September 30, 2019

## Characteristics

Market Value: \$102.2 Million and 66.7% of Fund



### Characteristics

	Portfolio	Index
	Q3-19	Q3-19
Yield to Maturity	2.0%	1.6%
Avg. Eff. Maturity	4.3 yrs.	4.1 yrs.
Avg. Duration	3.8 yrs.	3.8 yrs.
Avg. Quality	AA	--
Region	Number Of Assets	
North America ex U.S.	5	
United States	223	
United Kingdom	5	
Japan	2	
Emerging Markets	1	
Other	4	
<b>Total</b>	<b>240</b>	

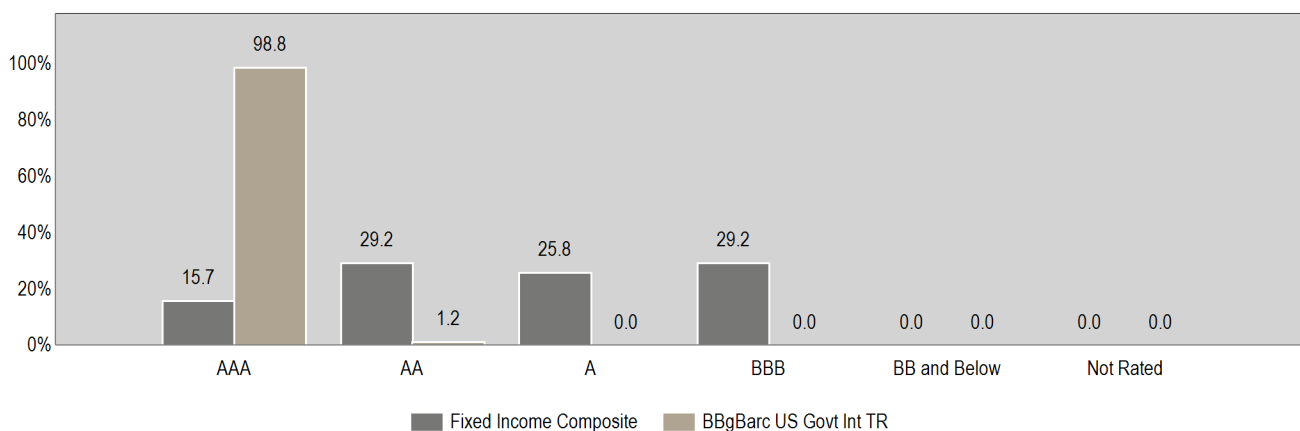
### Sector

	Portfolio	Index
	Q3-19	Q3-19
UST/Agency	46.3%	100.0%
Corporate	31.4%	--
MBS	17.0%	--
ABS	--	--
Foreign	5.3%	--
Muni	--	--
Other	-0.1%	--

### Maturity

	Q3-19
<1 Year	4.0%
1-3 Years	27.4%
3-5 Years	33.2%
5-7 Years	22.1%
7-10 Years	13.4%
10-15 Years	0.0%
15-20 Years	0.0%
>20 Years	0.0%
Not Rated/Cash	0.0%

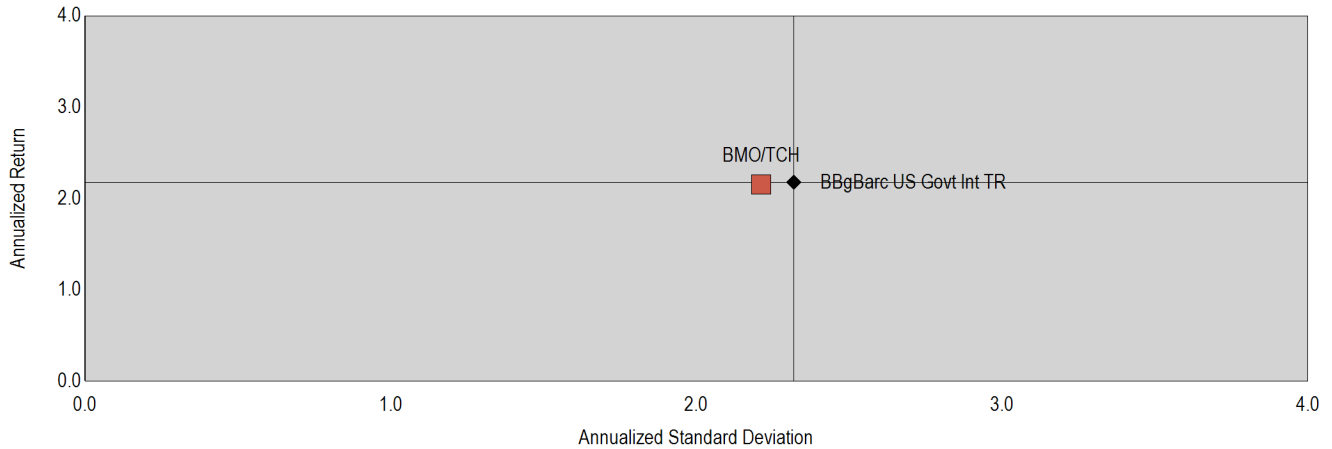
### Quality Distribution



As of September 30, 2019

Market Value: \$50.6 Million and 33.1% of Fund

## Risk / Return - 5 Years



## Characteristics

	Portfolio	Index
	Q3-19	Q3-19
Yield to Maturity	2.1%	1.6%
Avg. Eff. Maturity	4.5 yrs.	4.1 yrs.
Avg. Duration	3.9 yrs.	3.8 yrs.
Avg. Quality	AA	--

Region	Number Of Assets
North America ex U.S.	1
United States	77
United Kingdom	2
Japan	1
Other	1
<b>Total</b>	<b>82</b>

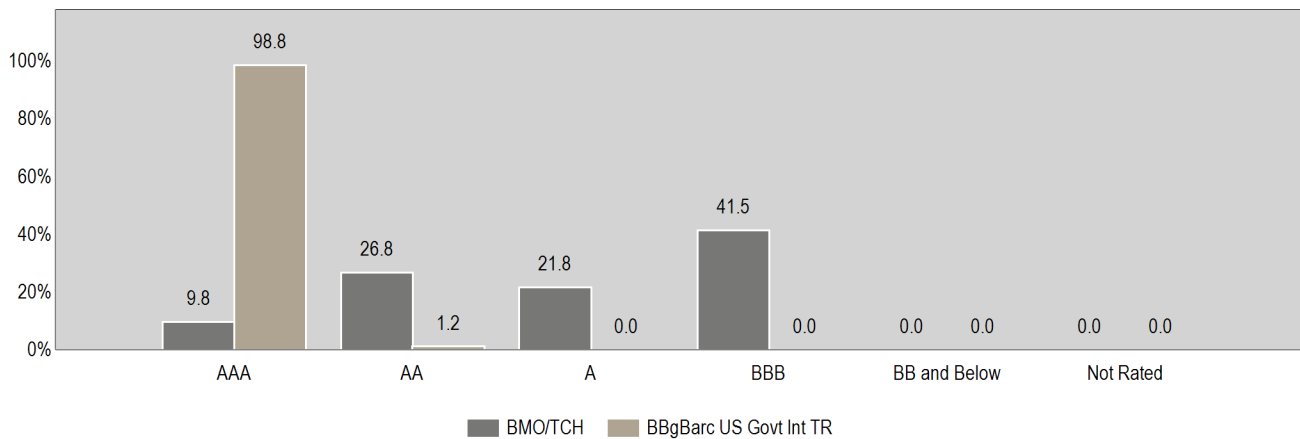
## Sector

	Portfolio	Index
	Q3-19	Q3-19
UST/Agency	53.8%	100.0%
Corporate	29.8%	--
MBS	15.9%	--
ABS	--	--
Foreign	0.5%	--
Muni	--	--
Other	-0.1%	--

## Maturity

	Q3-19
<1 Year	3.0%
1-3 Years	28.4%
3-5 Years	29.1%
5-7 Years	17.2%
7-10 Years	22.3%
10-15 Years	0.0%
15-20 Years	0.0%
>20 Years	0.0%
Not Rated/Cash	0.0%

## Quality Distribution



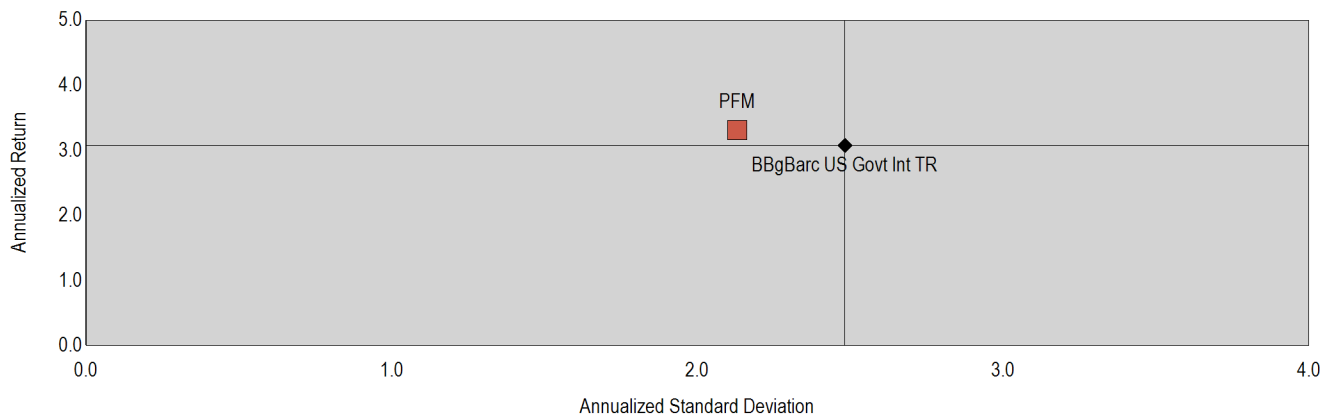
# PFM

As of September 30, 2019

## Characteristics

Market Value: \$51.5 Million and 33.6% of Fund

### Risk / Return - 2 Years



### Characteristics

	Portfolio	Index
	Q3-19	Q3-19
Yield to Maturity	2.0%	1.6%
Avg. Eff. Maturity	4.1 yrs.	4.1 yrs.
Avg. Duration	3.7 yrs.	3.8 yrs.
Avg. Quality	AA	--
Region	Number Of Assets	
North America ex U.S.	4	
United States	149	
United Kingdom	3	
Japan	1	
Emerging Markets	1	
Other	3	
<b>Total</b>	<b>161</b>	

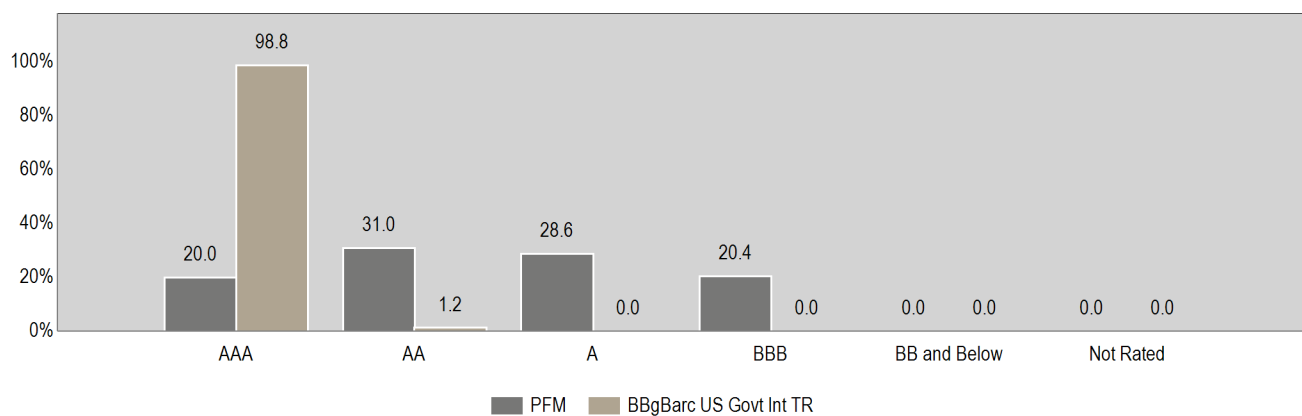
### Sector

	Portfolio	Index
	Q3-19	Q3-19
UST/Agency	37.6%	100.0%
Corporate	33.3%	--
MBS	18.2%	--
ABS	--	--
Foreign	10.9%	--
Muni	--	--
Other	--	--

### Maturity

	Q3-19
<1 Year	4.9%
1-3 Years	26.4%
3-5 Years	37.2%
5-7 Years	26.9%
7-10 Years	4.6%
10-15 Years	0.0%
15-20 Years	0.0%
>20 Years	0.0%
Not Rated/Cash	0.0%

### Quality Distribution



## Total Fund Composite

## Fee Schedule

Market Value: \$153.2 Million and 100.0% of Fund

Asset Class	Investment Manager	Fee Schedule	Expense Ratio & Estimated Annual Fee <sup>1</sup>	Industry Median <sup>2</sup>
Int. Govt. Fixed Income	BMO/TCH	0.15% on the Balance	0.15% \$75,972	0.25%
Int. Govt. Fixed Income	PFM	0.10% on the first \$25 million 0.08% on the next \$25 million 0.07% on the next \$50 million 0.06% on the balance	0.09% \$46,066	0.25%
<b>Total Investment Management Fees</b>			<b>0.08%</b> <b>\$122,038</b>	<b>0.17%</b>
Investment Consultant	Marquette Associates, Inc.	\$25,000 Annual Fee	0.02% \$25,000	N/A
<b>Total Fund</b>			<b>0.10%</b> <b>\$147,038</b>	

<sup>1</sup> Expense Ratio & Estimated Annual Fee are Based on Market Value at Quarter End.

<sup>2</sup> Source: 2019 Marquette Associates Investment Management Fee Study.

## DISCLOSURE

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# City of Naperville

Q3 2019 Investment Review

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# Table of Contents

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- 
- I. Firm Overview
  - II. Market Update
  - III. Portfolio Review

# Firm Overview

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# Firm Profile

## Facts at a glance

**\$256 Billion AUM<sup>1</sup>**

Investing since **1925<sup>2</sup>**

**20** offices in **14** countries

**Top 100<sup>3</sup>** Money Managers

## What sets us apart

### Global presence

Part of the BMO Financial Group — one of North America's largest financial institutions

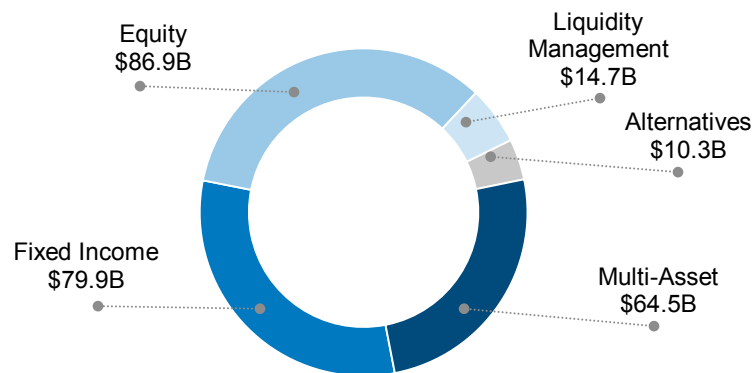
### Specialized investment teams

Independent teams that are empowered to deliver strong, consistent results while minimizing unnecessary risk

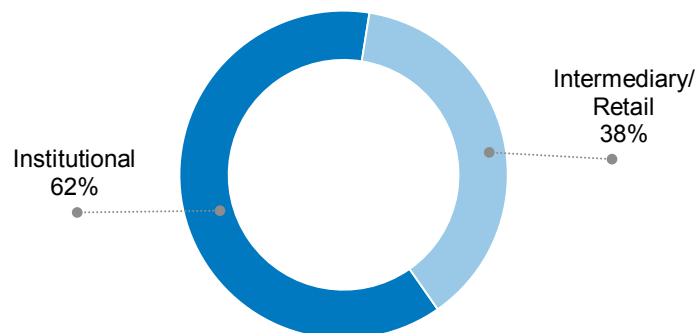
### Culture of partnership and innovation

Working in partnership with clients to create and deliver innovative solutions

## Capabilities across asset classes



## Client breakdown



<sup>1</sup>Assets under management reported as of March 31, 2019 and includes BMO Global Asset Management (Canada), BMO Global Asset Management (U.S.), BMO Global Asset Management (EMEA) along with three investment teams: LGM Investments, Pyrford International and Taplin, Canida & Habacht. AUM includes discretionary and non-discretionary AUM. All figures are in U.S. dollars.

<sup>2</sup>Our roots trace back to 1925, when the Bank of Montreal began offering investment services. BMO Financial Group is a part of the Bank of Montreal (NYSE, TSX:BMO), a Canadian-based organization founded in 1817.

<sup>3</sup>BMO Global Asset Management has been recognized by Pensions & Investments as one of the Top 100 Money Managers based on worldwide institutional assets under management as of December 31, 2018.

# Market Update

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# Overview

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## YIELD CURVE ANALYSIS

- The U.S. term structure suggests a persistent gap between market outlook and Fed policy implementation
- Exogenous factors, such as trade and persistently negative global rates continue blurring term structure relationships
- Factors weighing on inflation are systemic and continue evading the central bank, suggesting more than a “mid-cycle adjust” is warranted

## SECTOR OUTLOOK

- Credit spreads continue to price a Fed that reverses policy swiftly and meaningfully
- Following the underperformance of U.S. agency MBS, spreads have settled toward their widest levels in 5 years and are structurally attractive

## QUALITY DECISIONS

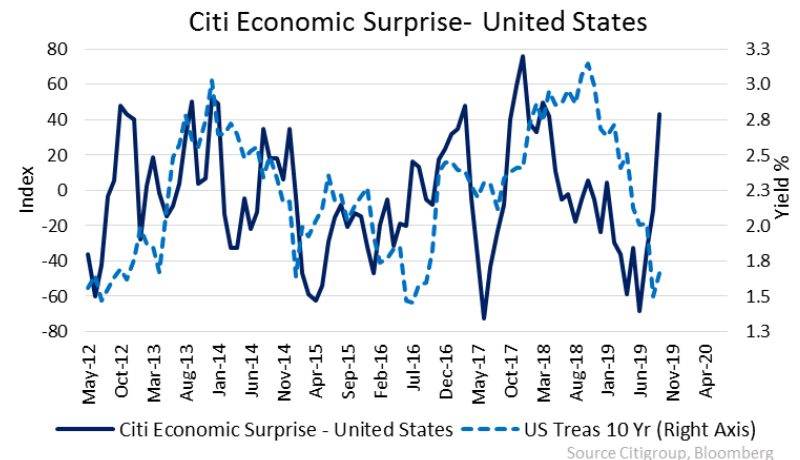
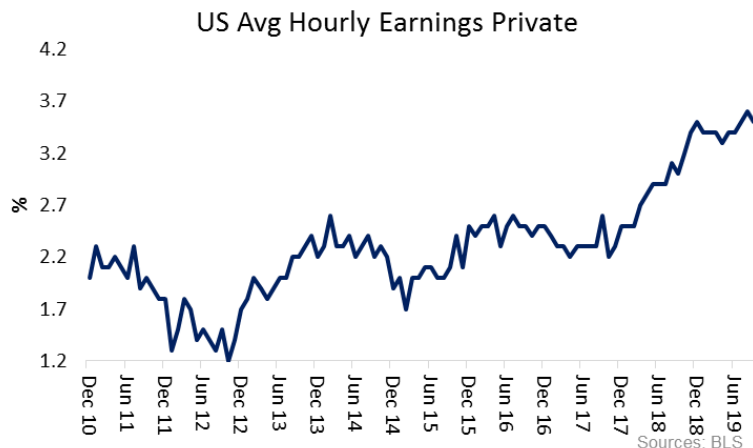
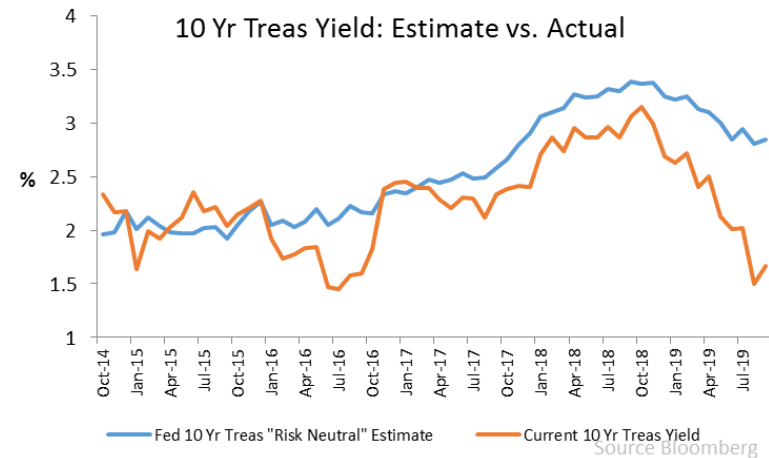
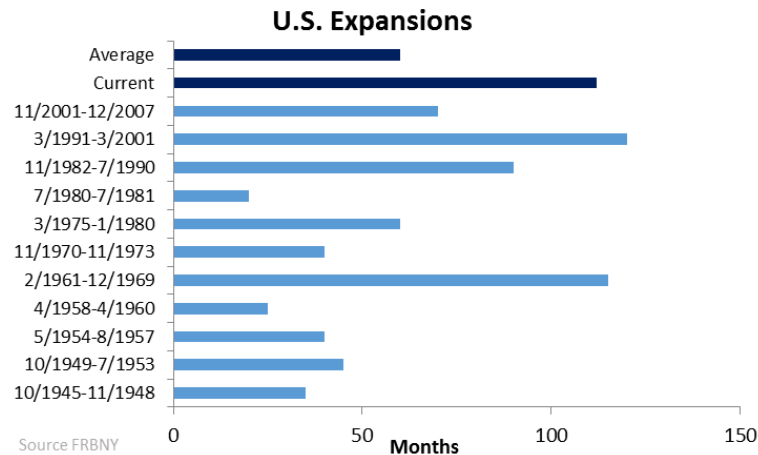
- Quality curves are off their steepest point, but remains reasonable as intermediate credit spreads of narrowed significantly
- Given the cycles maturity and oscillating volatility, lower quality positioning is more attractive towards the belly, where risks seem better balanced

## SECURITY SELECTION

- Reasonably stable credit fundamentals continue to grapple with concerns over BBB rated debt and a robust M&A cycle

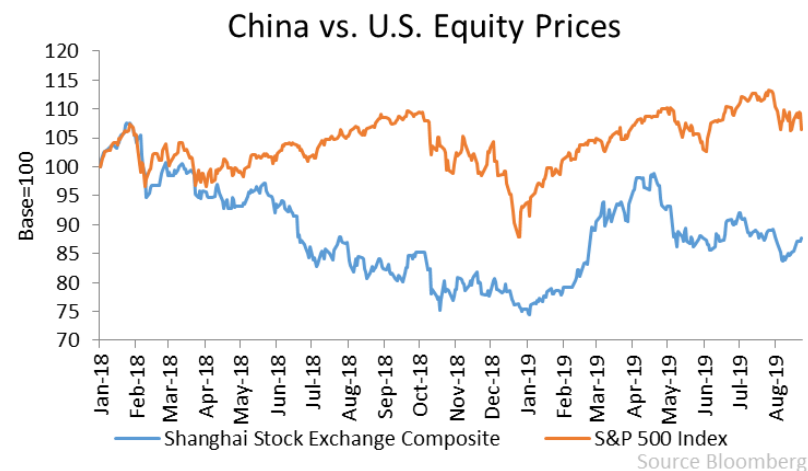
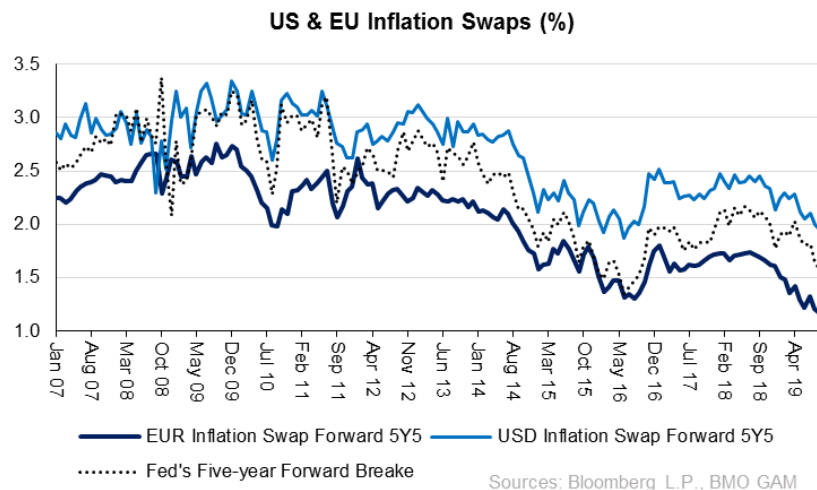
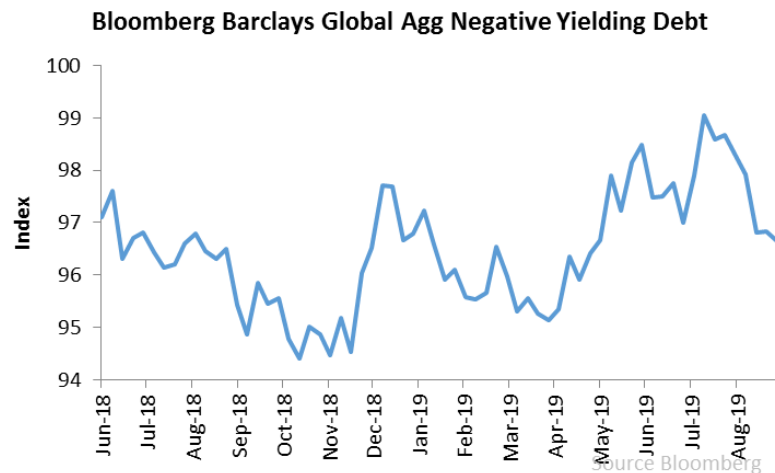
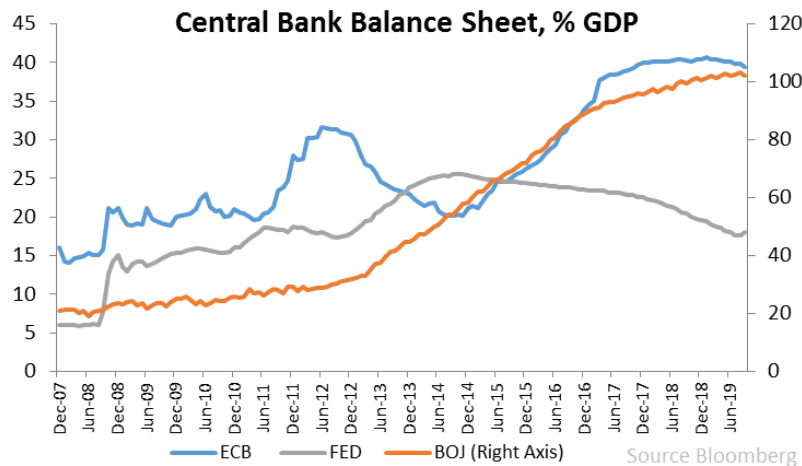
# U.S. Economic and Policy Outlook

Treasury yields reflect concerns beyond U.S. data and age of current expansion



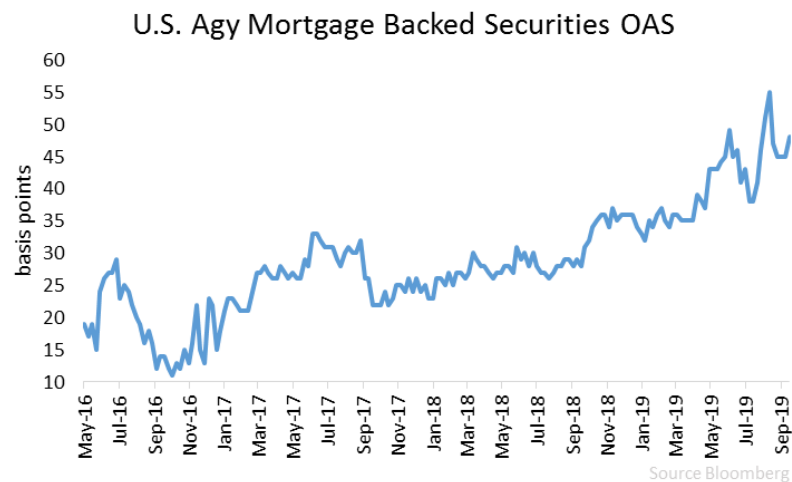
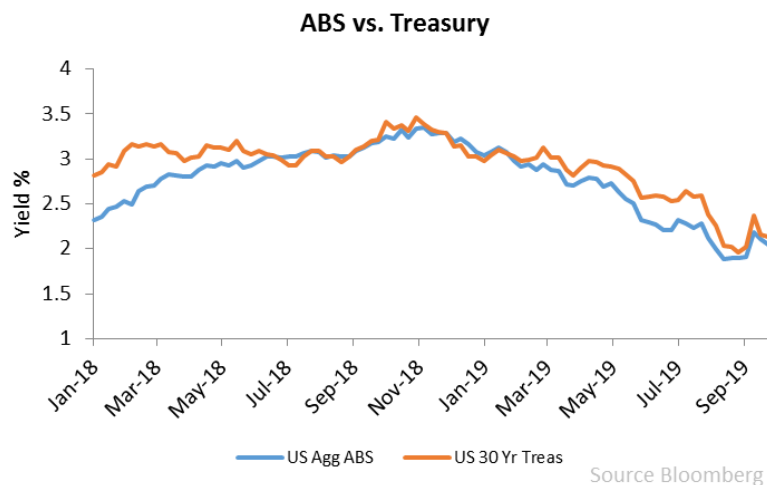
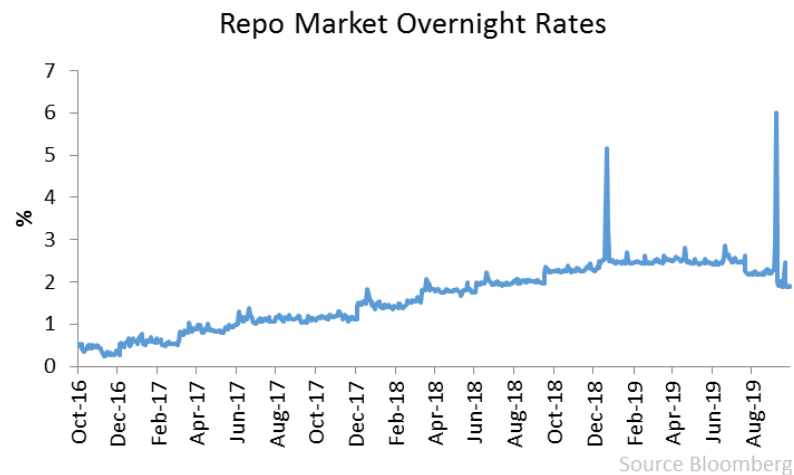
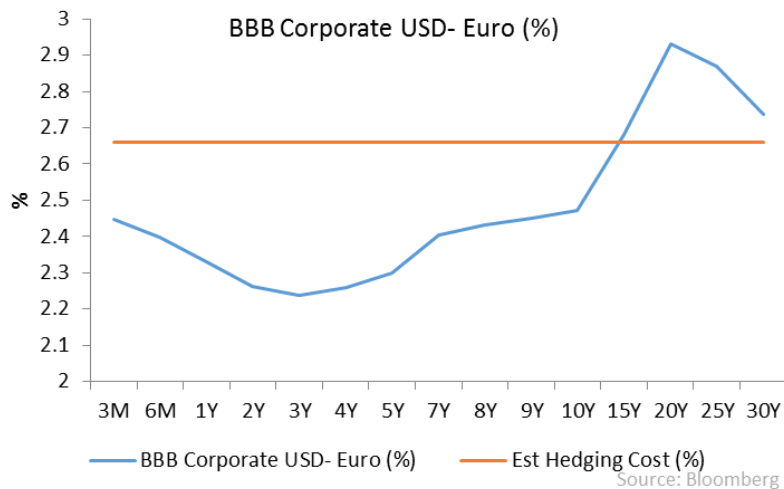
# Global Economic Outlook

Any benefits of negative interest rate policies are being offset by broader challenges



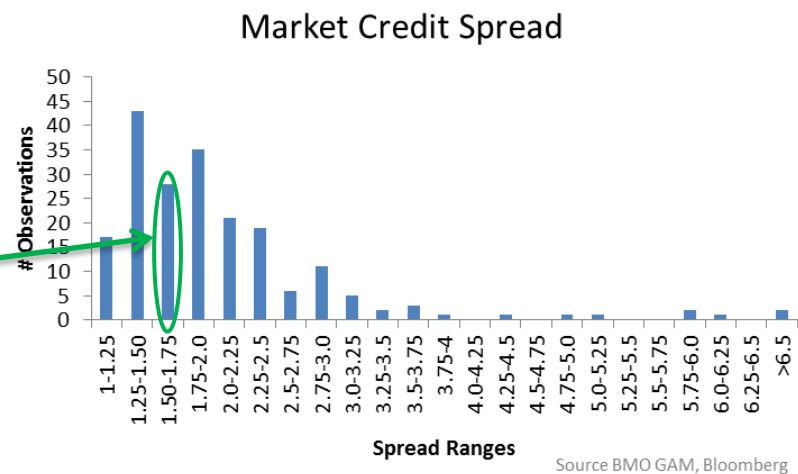
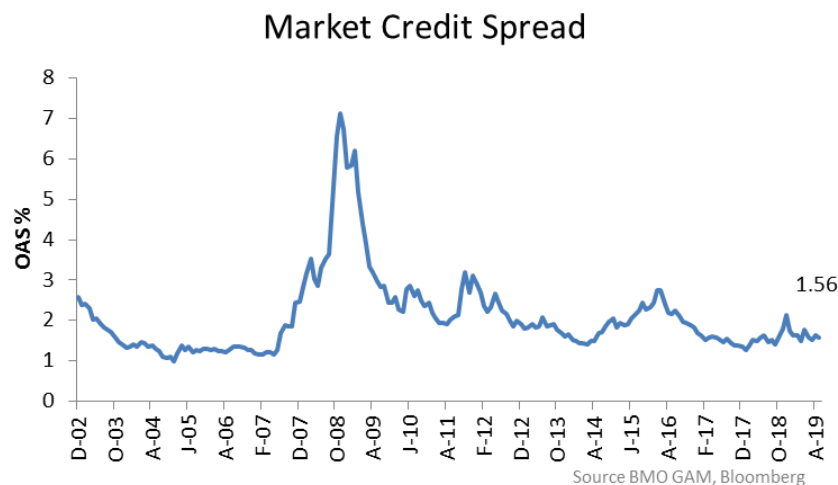
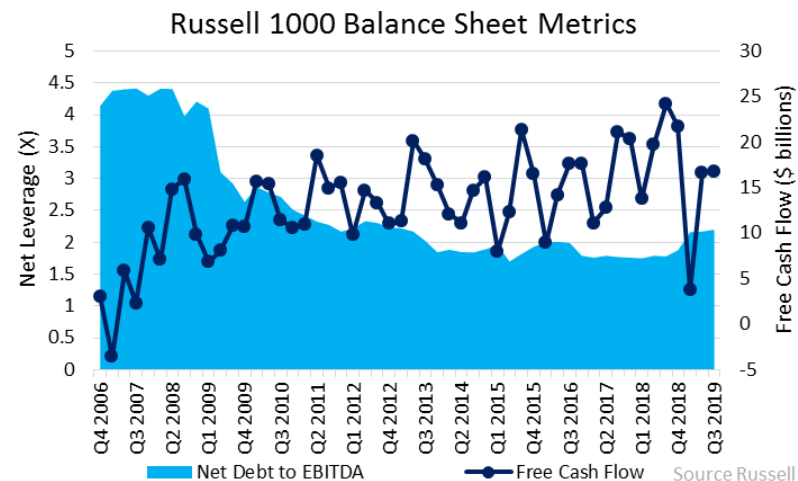
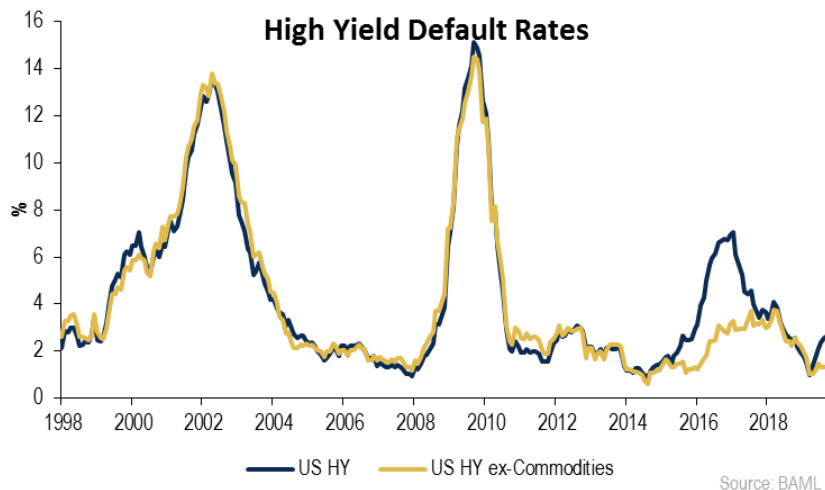
# Spread Sector Outlook

Repo markets do not pose an immediate threat to spread sectors, but warrant monitoring



# Credit Market Outlook

## Credit fundamentals remain on reasonably solid footing



# Portfolio Review

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# City of Naperville: Q3 Activity

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Market Value Reconciliation: Q3 2019		
<b>Ending Market Value: June 30, 2019*</b>	<b>\$</b>	<b>49,990,886.47</b>
Contributions/Withdrawals	\$	-
Net Invested Funds	\$	49,990,886.47
Net Income	\$	308,717.01
Unrealized Gain/Loss	\$	301,609.89
Net Realized Gain/Loss	\$	38,705.00
<b>Ending Market Value: September 30, 2019*</b>	<b>\$</b>	<b>50,639,918.37</b>

*\* Market values include accrued income*

# Performance & Market Value as of September 30, 2019

	QTD	YTD	1 Year	3 Years	5 Years	Since Inception*
Portfolio (Gross)	1.30%	5.90%	7.47%	1.94%	2.33%	2.58%
Portfolio (Net)	1.26%	5.78%	7.31%	1.79%	2.18%	2.42%
<i>Barclays Govt Int</i>	1.18%	5.19%	7.52%	1.82%	2.18%	2.34%

## Market Value (including accruals)

\$50,639,918

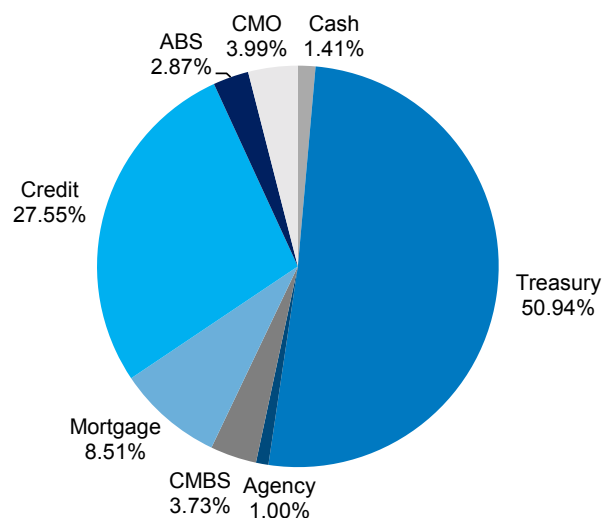
\* Inception Date: October 1, 2009

# Fixed Income Profile as of June 30, 2019

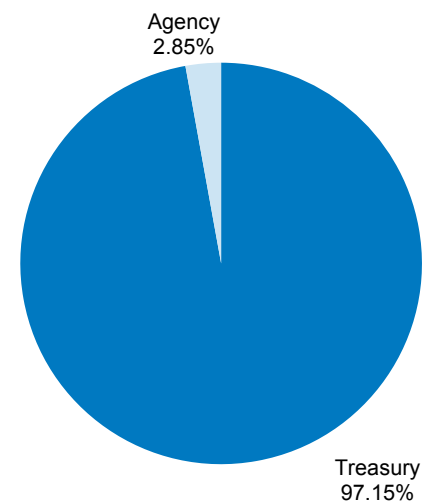
	Avg. Coupon	Yield to Maturity	Avg. Quality	Avg. Duration	Avg. Maturity
City of Naperville	2.59%	2.25%	Aa3	3.68 yrs	4.39 yrs
Barclays Intermediate Government	2.25%	1.81%	Aaa	3.79 yrs	4.07 yrs

## Market Value Diversification

**City of Naperville**



**Barclays Intermediate Government**



Source: BondEdge

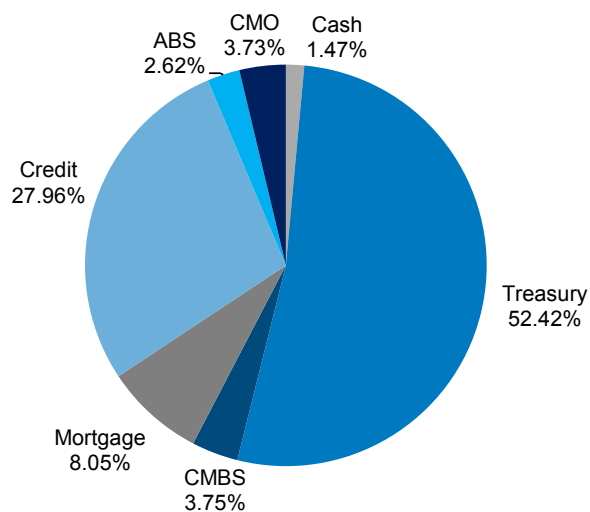
Note: Totals may not be exact due to rounding.

# Fixed Income Profile as of September 30, 2019

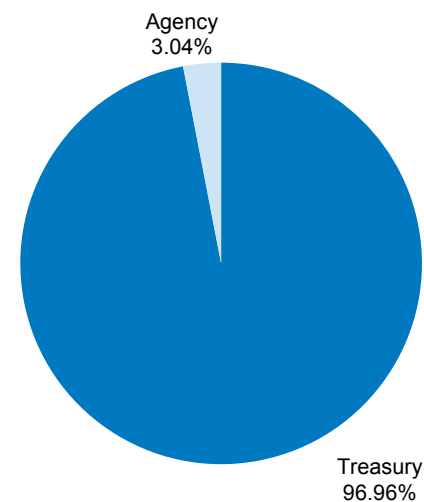
	Avg. Coupon	Yield to Maturity	Avg. Quality	Avg. Duration	Avg. Maturity
City of Naperville	2.57%	2.07%	Aa3	3.73 yrs	4.45 yrs
Barclays Intermediate Government	2.22%	1.64%	Aaa	3.79 yrs	4.06 yrs

## Market Value Diversification

**City of Naperville**



**Barclays Intermediate Government**



Source: BondEdge

Note: Totals may not be exact due to rounding.

# Mortgage Allocation as of September 30, 2019

Issuer	% Held	Type
FNMA 2010-025- ND	0.01	FIXED
FHLMC 4182- VB	1.13	FIXED
FNMA 2011-027- DB	1.69	FIXED
FHLMC K062- A2	1.08	FIXED
FHLMC K-066- A2	1.06	FIXED
FHLMC K-068- A2	1.07	FIXED
FNMA UMBS POOL - AP7831	1.04	FIXED
FHLMC GOLD POOL - G14713	0.69	FIXED
FHLMC 2973- EB	0.08	FIXED
FNMA 2012-021- PJ	0.65	FIXED
FNMA 2012-028- PT	0.17	FIXED
GNMA2 POOL - MA1996	0.13	FIXED
GNMA2 POOL - MA2149	0.27	FIXED
GNMA2 POOL - 626912	0.85	FIXED
FNMA UMBS POOL - AY6521	0.22	FIXED
FNMA UMBS POOL - AS5444	0.67	FIXED
FNMA UMBS POOL - AS6815	0.32	FIXED
FNMA UMBS POOL - MA2771	0.55	FIXED
FNMA UMBS POOL - MA2806	0.39	FIXED
FNMA UMBS POOL - AS8483	0.41	FIXED
FHLMC GOLD POOL - G08775	1.10	FIXED
FNMA UMBS POOL - MA3644	1.43	FIXED
CITIGROUP MTG 2018-B2- A4	0.55	FIXED
<b>Total</b>	<b>15.54%</b>	

Source: BondEdge

Note: Totals may not be exact due to rounding.

# Maturity Breakdown – Sector Type as of September 30, 2019

Maturity/Sector	Treasury	Financial	Industrial	MBS	CMBS	ABS	Cash	Total
<1.00	--	--	2.18	0.01	--	0.60	1.47	4.26
1.00 - 2.99	16.81	3.09	3.37	2.90	--	1.20	--	27.37
3.00 - 4.99	19.32	2.90	3.92	3.48	--	0.82	--	30.44
5.00 - 6.99	6.11	2.49	3.06	3.38	--	--	--	15.04
7.00 - 9.99	10.18	3.48	3.46	2.02	3.75	--	--	22.89
Total	52.42	11.96	15.99	11.79	3.75	2.62	1.47	100.00

Source: BondEdge

Note: Totals may not be exact due to rounding.

## Q3 Commentary

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During the third quarter, we made minor adjustments to the portfolio, while keeping overall portfolio structure in place. The portfolio had previously converged duration to the benchmark and we added nominally to duration positioning. While not adjusting overall credit exposure, within the sector we trimmed lower quality investment grade exposure (BBB) by 1%. This positioning reflects our desire to balance risks from a slowing, but resilient U.S. economy, with the support for fixed income sectors from increased monetary accommodation delivered by the Fed in the third quarter. Overall yields declined in the period as interest rates moved lower and spreads were unchanged, but the portfolio maintained a healthy 40 basis point yield advantage versus the benchmark.

# Appendix

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# PORTFOLIO APPRAISAL

City of Naperville

130

September 30, 2019

Quantity	Security	Unit Cost	Total Cost	Price	Market Value	Pct. Assets	Unit Income	Annual Income	Cur. Yield
<b>CORPORATE BONDS</b>									
150,000	IBM CREDIT CORP 3.450% Due 11-30-20	99.92	149,882	101.74	152,616	0.3	3.450	5,175	3.4
400,000	ANHEUSER-BUSCH INBEV FIN 2.650% Due 02-01-21	98.45	393,804	100.95	403,791	0.8	2.650	10,600	2.6
250,000	AMERICAN EXPRESS CO. 2.500% Due 08-01-22	96.59	241,485	101.00	252,510	0.5	2.500	6,250	2.5
500,000	JP MORGAN CHASE & CO. 3.375% Due 05-01-23	98.06	490,285	103.42	517,114	1.0	3.375	16,875	3.3
300,000	ABBVIE, INC. 2.850% Due 05-14-23	97.10	291,294	101.74	305,221	0.6	2.850	8,550	2.8
400,000	MORGAN STANLEY 4.100% Due 05-22-23	100.67	402,660	105.31	421,228	0.8	4.100	16,400	3.9
400,000	FISERV INC 3.800% Due 10-01-23	99.95	399,816	105.83	423,302	0.8	3.800	15,200	3.6
100,000	ABBVIE, INC. 3.750% Due 11-14-23	99.87	99,872	105.17	105,166	0.2	3.750	3,750	3.6
500,000	WAL-MART INC 2.850% Due 07-08-24	99.88	499,390	103.92	519,596	1.0	2.850	14,250	2.7
250,000	CBS CORP. 3.700% Due 08-15-24	96.84	242,098	104.60	261,501	0.5	3.700	9,250	3.5
400,000	ENTERPRISE PRODUCTS 3.750% Due 02-15-25	99.00	396,000	106.55	426,184	0.8	3.750	15,000	3.5
300,000	ACTAVIS FUNDING SCS 3.800% Due 03-15-25	98.33	294,981	104.71	314,139	0.6	3.800	11,400	3.6
450,000	CITIGROUP, INC. 3.875% Due 03-26-25	104.96	472,316	105.23	473,528	0.9	3.875	17,438	3.7
750,000	MICROSOFT CORP. 3.125% Due 11-03-25	101.85	763,898	106.33	797,460	1.6	3.125	23,438	2.9
250,000	GE CAPITAL INTL FUNDING 3.373% Due 11-15-25	96.59	241,468	102.02	255,046	0.5	3.373	8,433	3.3

# PORTFOLIO APPRAISAL

## City of Naperville

130

September 30, 2019

Quantity	Security	Unit Cost	Total Cost	Price	Market Value	Pct. Assets	Unit Income	Annual Income	Cur. Yield
500,000	LINCOLN NATIONAL CORP. 3.625% Due 12-12-26	98.38	491,905	105.17	525,873	1.0	3.625	18,125	3.4
250,000	KIMCO REALTY CORP. 3.800% Due 04-01-27	97.66	244,143	106.21	265,524	0.5	3.800	9,500	3.6
300,000	MID-AMERICA APARTMENTS 3.600% Due 06-01-27	97.56	292,674	105.77	317,324	0.6	3.600	10,800	3.4
400,000	BANK OF AMERICA CORP. 3.824% Due 01-20-28	97.92	391,668	107.34	429,377	0.8	3.824	15,296	3.6
250,000	MPLX LP 4.000% Due 03-15-28	98.41	246,023	104.26	260,643	0.5	4.000	10,000	3.8
300,000	NUCOR CORP 3.950% Due 05-01-28	99.19	297,579	109.12	327,364	0.6	3.950	11,850	3.6
300,000	ENABLE MIDSTREAM PARTNER 4.950% Due 05-15-28	101.10	303,300	103.86	311,574	0.6	4.950	14,850	4.8
300,000	MARVELL TECHNOLOGY G 4.875% Due 06-22-28	100.78	302,346	111.06	333,184	0.7	4.875	14,625	4.4
450,000	UNUM GROUP 4.000% Due 06-15-29	99.63	448,349	103.94	467,750	0.9	4.000	18,000	3.8
175,000	OCCIDENTAL PETROLEUM 3.500% Due 08-15-29	99.51	174,136	101.42	177,485	0.4	3.500	6,125	3.5
325,000	EXXON MOBIL CORPORATION 2.440% Due 08-16-29	100.00	325,000	100.64	327,080	0.6	2.440	7,930	2.4
	Accrued Interest				83,434	0.2			
			8,896,368		9,455,015	18.7		319,109	3.4
<b>CORPORATE BONDS--FLOATING RATE</b>									
500,000	ENBRIDGE, INC. 2.819% Due 06-15-20	99.82	499,080	100.18	500,886	1.0	2.819	14,093	2.8
250,000	IBM CREDIT CORP 2.447% Due 02-05-21	100.07	250,185	100.05	250,129	0.5	2.447	6,117	2.4

# PORTFOLIO APPRAISAL

City of Naperville

130

September 30, 2019

Quantity	Security	Unit Cost	Total Cost	Price	Market Value	Pct. Assets	Unit Income	Annual Income	Cur. Yield
200,000	CVS HEALTH CORP. 2.822% Due 03-09-21	99.39	198,785	100.48	200,965	0.4	2.822	5,644	2.8
300,000	LLOYDS BANK PLC 2.699% Due 05-07-21	100.00	300,000	99.99	299,969	0.6	2.699	8,097	2.7
200,000	GLAXOSMITHKLINE CAPITAL 2.525% Due 05-14-21	100.00	200,000	100.14	200,273	0.4	2.525	5,051	2.5
600,000	HP ENTERPRISE CO. 3.009% Due 10-05-21	99.15	594,888	100.01	600,055	1.2	3.009	18,051	3.0
500,000	WELLS FARGO & CO. 3.111% Due 02-11-22	99.71	498,570	100.61	503,062	1.0	3.111	15,555	3.1
500,000	MIZUHO FINANCIAL GROUP 3.084% Due 02-28-22	99.95	499,757	100.68	503,388	1.0	3.084	15,422	3.1
500,000	FORD MOTOR CREDIT CO. LLC 3.374% Due 03-28-22	98.81	494,039	98.63	493,149	1.0	3.374	16,872	3.4
500,000	GOLDMAN SACHS GROUP 3.717% Due 11-29-23	100.08	500,422	103.00	515,000	1.0	3.717	18,587	3.6
350,000	COMCAST CORP 2.933% Due 04-15-24	100.00	350,000	100.62	352,169	0.7	2.933	10,267	2.9
250,000	WELLS FARGO & COMPANY 3.584% Due 05-22-28	105.76	264,398	105.94	264,844	0.5	3.584	8,960	3.4
	Accrued Interest				18,669	0.0			
			4,650,122		4,702,555	9.3		142,715	3.0
<b>U.S. GOVERNMENT AND AGENCY BONDS</b>									
945,000	U.S. TREASURY 2.625% Due 11-15-20	95.92	906,400	100.90	953,490	1.9	2.625	24,806	2.6
750,000	U.S. TREASURY NOTES 2.000% Due 11-30-20	101.64	762,307	100.22	751,641	1.5	2.000	15,000	2.0
1,000,000	U.S. TREASURY 1.625% Due 11-30-20	99.90	999,027	99.80	997,969	2.0	1.625	16,250	1.6

# PORTFOLIO APPRAISAL

## City of Naperville

130

September 30, 2019

Quantity	Security	Unit Cost	Total Cost	Price	Market Value	Pct. Assets	Unit Income	Annual Income	Cur. Yield
2,300,000	U.S. TREASURY 1.375% Due 01-31-21	101.29	2,329,726	99.48	2,287,962	4.5	1.375	31,625	1.4
3,500,000	U.S. TREASURY 1.375% Due 05-31-21	99.19	3,471,765	99.44	3,480,313	6.9	1.375	48,125	1.4
3,850,000	U.S. TREASURY 1.500% Due 02-28-23	95.80	3,688,109	99.74	3,839,925	7.6	1.500	57,750	1.5
1,750,000	U.S. TREASURY NOTES 2.500% Due 03-31-23	100.07	1,751,162	103.14	1,805,029	3.6	2.500	43,750	2.4
4,000,000	U.S. TREASURY 2.250% Due 12-31-23	98.30	3,932,188	102.77	4,110,780	8.1	2.250	90,000	2.2
1,200,000	U.S. TREASURY 2.000% Due 02-15-25	100.16	1,201,953	102.11	1,225,266	2.4	2.000	24,000	2.0
500,000	U.S. TREASURY 2.000% Due 08-15-25	94.86	474,318	102.22	511,094	1.0	2.000	10,000	2.0
1,350,000	U.S. TREASURY 1.625% Due 02-15-26	101.07	1,364,455	100.04	1,350,528	2.7	1.625	21,938	1.6
1,600,000	U.S. TREASURY NOTES 2.250% Due 08-15-27	103.49	1,655,859	104.54	1,672,688	3.3	2.250	36,000	2.2
500,000	U.S. TREASURY NOTES 2.875% Due 05-15-28	99.29	496,465	109.76	548,789	1.1	2.875	14,375	2.6
2,200,000	U.S. TREASURY NOTES 2.625% Due 02-15-29	103.96	2,287,215	108.23	2,381,071	4.7	2.625	57,750	2.4
500,000	U.S. TREASURY NOTES 2.375% Due 05-15-29	106.64	533,223	106.20	530,977	1.0	2.375	11,875	2.2
	Accrued Interest				96,817	0.2			
			25,854,172		26,544,337	52.4		503,244	1.9
<b>MORTGAGE-BACKED SECURITIES</b>									
522,253.69	FNCI POOL #AP7831 2.500% Due 09-01-27	103.84	542,328	100.99	527,429	1.0	2.500	13,056	2.5
344,174.72	FGLMC POOL #G14713 2.500% Due 04-01-28	103.45	356,060	101.29	348,608	0.7	2.500	8,604	2.5

# PORTFOLIO APPRAISAL

## City of Naperville

130

September 30, 2019

Quantity	Security	Unit Cost	Total Cost	Price	Market Value	Pct. Assets	Unit Income	Annual Income	Cur. Yield
60,377.88	G2SF POOL #MA1996 4.000% Due 06-20-44	106.05	64,029	106.58	64,353	0.1	4.000	2,415	3.8
125,928.73	G2SF POOL #MA2149 4.000% Due 08-20-44	106.90	134,616	106.50	134,110	0.3	4.000	5,037	3.8
415,792.31	GNSF POOL #626912 3.000% Due 02-20-45	103.09	428,656	102.76	427,252	0.8	3.000	12,474	2.9
106,131.51	FNCL POOL #AY6521 3.500% Due 04-01-45	104.05	110,427	103.44	109,783	0.2	3.500	3,715	3.4
327,234.28	FNCL POOL #AS4720 3.000% Due 07-01-45	99.44	325,394	102.77	336,286	0.7	3.000	9,817	2.9
158,237.84	FNCL POOL #AS6815 3.000% Due 03-01-46	101.91	161,254	102.41	162,056	0.3	3.000	4,747	2.9
269,607.39	FNCL POOL #MA2771 3.000% Due 10-01-46	104.20	280,929	102.43	276,153	0.5	3.000	8,088	2.9
194,222.08	FNCL POOL #MA2806 3.000% Due 11-01-46	100.58	195,345	102.43	198,932	0.4	3.000	5,827	2.9
203,262.86	FNCL POOL #AS8483 3.000% Due 12-01-46	99.84	202,929	102.43	208,200	0.4	3.000	6,098	2.9
527,569.00	FGLMC POOL #G08775 4.000% Due 08-01-47	104.89	553,370	104.86	553,193	1.1	4.000	21,103	3.8
710,399.95	FNCL POOL #MA3644 3.000% Due 04-01-49	99.09	703,906	101.53	721,234	1.4	3.000	21,312	3.0
	Accrued Interest				9,851	0.0			
			4,059,242		4,077,440	8.1		122,293	3.0
<b>COMMERCIAL MORTGAGE-BACKED SECURITIES</b>									
500,000.00	FHLMC MULTIFAMILY STRUCTURED PASSTHROUGH SERIES K062 CLASS A2 3.413% Due 12-25-26	103.00	514,989	108.75	543,760	1.1	3.413	17,065	3.1

# PORTFOLIO APPRAISAL

City of Naperville

130

September 30, 2019

Quantity	Security	Unit Cost	Total Cost	Price	Market Value	Pct. Assets	Unit Income	Annual Income	Cur. Yield
500,000.00	FHLMC MULTIFAMILY STRUCTURED PASSTHROUGH SERIES K063 CLASS A2 3.117% Due 06-25-27	103.00	514,976	106.96	534,820	1.1	3.117	15,585	2.9
500,000.00	FHLMC MULTIFAMILY STRUCTURED PASSTHROUGH SERIES K068 CLASS A2 3.244% Due 08-25-27	103.00	514,984	107.90	539,500	1.1	3.244	16,220	3.0
	Accrued Interest				3,937	0.0			
			1,544,948		1,622,017	3.2		48,870	3.0
<b>ASSET-BACKED SECURITIES</b>									
67,886.70	HONDA AUTO RECEIVABLES OWNER TRUST SERIES 2018-2 CLASS A2 2.660% Due 12-18-20	100.00	67,887	100.11	67,963	0.1	2.660	1,806	2.7
236,440.53	CARMAX AUTO OWNER TRUST SERIES 2017-1 CLASS A3 1.980% Due 11-15-21	99.46	235,157	99.95	236,327	0.5	1.980	4,682	2.0
300,000.00	ALLY AUTO RECEIVABLES TRUST SERIES 2018-3 CLASS A3 3.000% Due 01-17-23	99.99	299,979	100.89	302,670	0.6	3.000	9,000	3.0
300,000.00	CARMAX AUTO OWNER TRUST SERIES 2018-2 CLASS A3 2.980% Due 01-17-23	100.00	299,988	101.21	303,621	0.6	2.980	8,940	2.9

# PORTFOLIO APPRAISAL

City of Naperville

130

September 30, 2019

Quantity	Security	Unit Cost	Total Cost	Price	Market Value	Pct. Assets	Unit Income	Annual Income	Cur. Yield
400,000.00	HONDA AUTO RECEIVABLES OWNER TRUST SERIES 2018-4 CLASS A4 3.300% Due 07-15-25 Accrued Interest	99.97	399,887	103.41	413,620	0.8	3.300	13,200	3.2
					1,553	0.0			
			1,302,898		1,325,754	2.6		37,627	2.8
<b>CMO'S</b>									
3,127.55	FNMA REMIC TRUST 2010-25 3.500% Due 03-25-25	107.25	3,354	99.69	3,118	0.0	3.500	109	3.5
556,101.66	FGHL SERIES 4182 CLASS VB 3.500% Due 03-15-26	104.80	582,777	102.22	568,453	1.1	3.500	19,464	3.4
838,728.18	FNMA REMIC TRUST 2011-27 3.000% Due 04-25-26	105.25	882,761	101.99	855,419	1.7	3.000	25,162	2.9
39,366.96	FHLMC REMIC SERIES 2973 5.500% Due 04-15-35	100.49	39,559	104.88	41,286	0.1	5.500	2,165	5.2
313,941.92	FNR 2012-21 PJ 4 4.000% Due 03-25-41	105.19	330,228	104.66	328,575	0.6	4.000	12,558	3.8
82,044.47	FANNIE MAE SERIES 2012-28 CLASS PT 4.000% Due 03-25-42	103.94	85,275	105.14	86,264	0.2	4.000	3,282	3.8
250,000.00	CGCMT 2018-B2 A4 4.009% Due 03-10-51 Accrued Interest	101.84	254,600	111.85	279,618	0.6	4.009	10,023	3.6
					5,861	0.0			
			2,178,554		2,168,594	4.3		72,762	3.4
<b>CASH AND EQUIVALENTS</b>									
	MONEY-MARKET ACCRUAL		1,455		1,455	0.0	0.163	2	0.2
	MONEY-MARKET FUNDS		742,751		742,751	1.5	0.163	1,211	0.2
			744,207		744,207	1.5		1,214	0.2

**PORTFOLIO APPRAISAL**

**City of Naperville**

**130**

September 30, 2019

<u>Quantity</u>	<u>Security</u>	<u>Unit Cost</u>	<u>Total Cost</u>	<u>Price</u>	<u>Market Value</u>	<u>Pct. Assets</u>	<u>Unit Income</u>	<u>Annual Income</u>	<u>Cur. Yield</u>
<b>TOTAL PORTFOLIO</b>			<b>49,230,510</b>		<b>50,639,918</b>	<b>100.0</b>		<b>1,247,833</b>	<b>2.5</b>

# Disclosure

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BMO Asset Management Corp. (BMO AM) is a registered investment adviser and wholly owned subsidiary of BMO Financial Corp, which is a wholly owned subsidiary of Bank of Montreal. The firm provides separate account investment management services for institutional and private clients, securities lending, proprietary and sub-advised mutual funds and common/collective trust funds. Prior to November 1989, the firm was known as Harris Investment Management Group, which was operated as part of Harris Trust and Savings Bank. Prior to June 1, 2012 the firm was known as Harris Investment Management, Inc. On July 6, 2011 Bank of Montreal (BMO), the parent company of Harris Investment Management, Inc., purchased Marshall & Ilsley Corporation. M&I Investment Management Corp. merged into BMO Asset Management Corp. (formerly Harris Investment Management, Inc.) on June 1, 2012. The firm maintains a complete list and description of composites, which is available upon request.

The **BMO Disciplined Large-Cap Equity Composite** includes all institutional portfolios invested in large-cap equity securities with our large-cap equity strategy. The strategy strives to maintain a moderate amount of tracking error to the benchmark (4 - 6%). The strategy is designed to outperform the benchmark over full market cycles while maintaining moderate risk controls. The benchmark is the S&P 500® Index. The composite was created October 1, 1985. Prior to February 14, 2006 the composite was named the Large-Cap Core Value Equity Composite. Prior to December 31, 2011 the composite was named the Large-Cap Equity – Institutional.

The **S&P 500® Index** consists of 500 stocks chosen for market size, liquidity, and industry group representation. It is a market-value weighted index (stock price times number of shares outstanding), with each stock's weight in the Index proportionate to its market value. Investments cannot be made in an index.

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**Past performance does not guarantee future results.**



# CITY OF NAPERVILLE

## Investment Performance Review For the Quarter Ended September 30, 2019

Client Management Team

Michelle Binns, Senior Managing Consultant  
Jeffrey K. Schroeder, Managing Director  
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## Q3 2019 Commentary

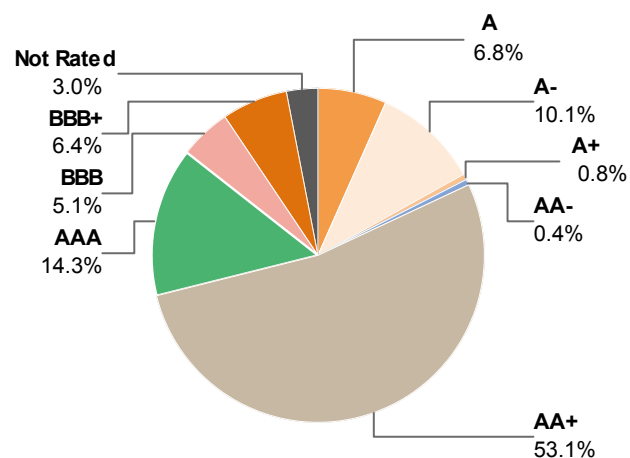
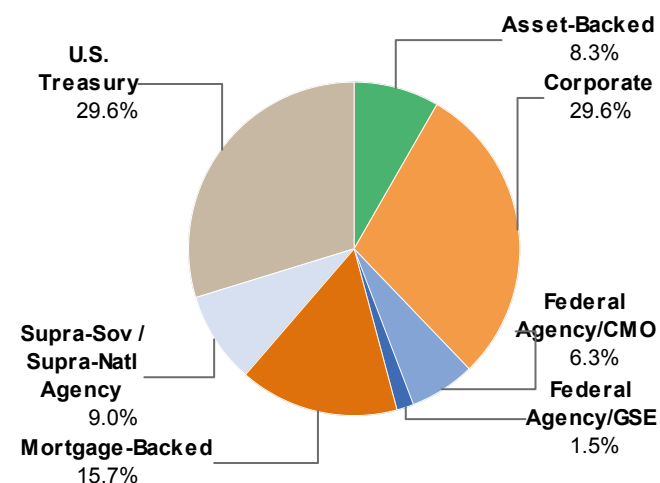
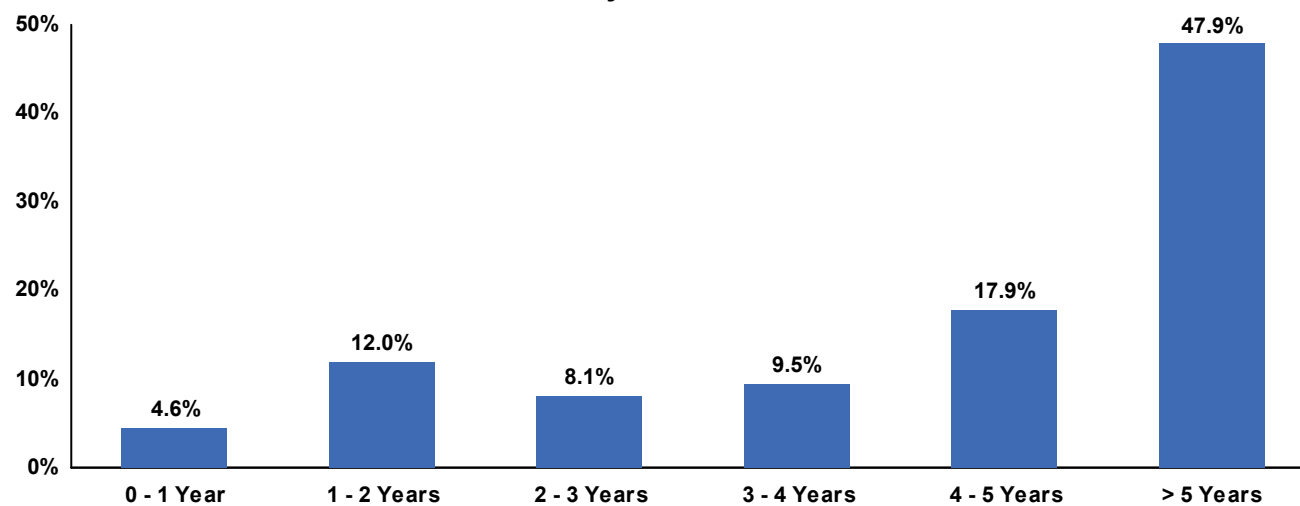
Propelled primarily by the escalating trade war with China, U.S. economic slowdown concerns were heightened during the third quarter. Correspondingly, the Federal Reserve lowered the Federal funds rate 50 basis points through two 25 basis point cuts in the quarter. In addition, the Treasury market rallied and the yield curve flattened. As a result, our slightly short duration position and our underweighting of the 7-yr. to 10-yr. part of the curve modestly detracted from performance. Despite the market turbulence, non-Treasury sectors generally outperformed during the quarter. Therefore, the portfolio benefitted from our allocations to corporates, MBS, and supranationals, as those sectors exceeded Treasuries on a duration-neutral basis by 36, 6, and 11 basis points, respectively.

The City's portfolio had a 29.6% allocation to corporate notes as of the end of the quarter. The sector returned approximately 1.56% for the City's portfolio over the 3 month period ended September 30, 2019.

**Portfolio Statistics**

As of September 30, 2019

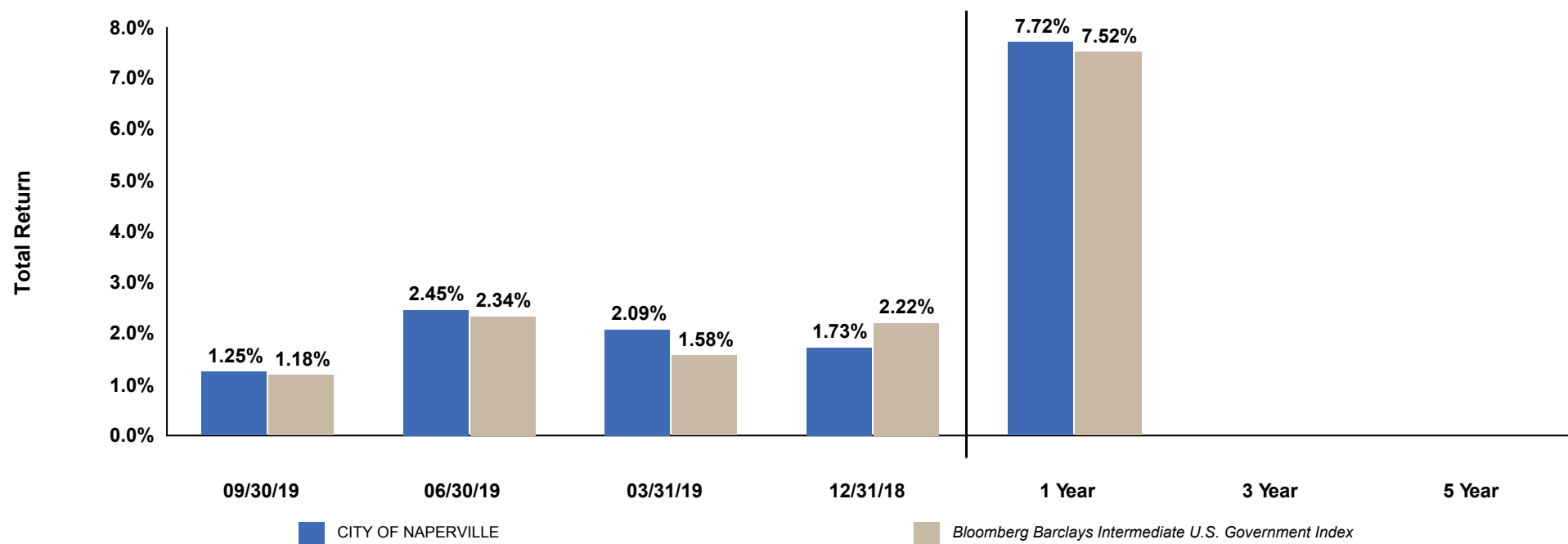
<b>Par Value:</b>	\$49,593,590
<b>Total Market Value:</b>	\$50,760,946
<b>Security Market Value:</b>	\$50,560,758
<b>Accrued Interest:</b>	\$200,188
<b>Cash:</b>	-
<b>Amortized Cost:</b>	\$49,412,995
<b>Yield at Market:</b>	2.10%
<b>Yield at Cost:</b>	2.76%
<b>Effective Duration:</b>	3.63 Years
<b>Duration to Worst:</b>	3.88 Years
<b>Average Maturity:</b>	6.81 Years
<b>Average Credit: *</b>	AA

**Credit Quality (S&P Ratings)****Sector Allocation****Maturity Distribution**

\* An average of each security's credit rating assigned a numeric value and adjusted for its relative weighting in the portfolio.

## Portfolio Performance (Total Return)

Portfolio/Benchmark	Effective Duration	Quarter Ended				Annualized Return		
		09/30/19	06/30/19	03/31/19	12/31/18	1 Year	3 Year	5 Year
CITY OF NAPERVILLE	3.63	1.25%	2.45%	2.09%	1.73%	7.72%	-	-
Net of Fees **	-	1.23%	2.43%	2.07%	1.71%	7.63%	-	-
Bloomberg Barclays Intermediate U.S. Government Index	3.78	1.18%	2.34%	1.58%	2.22%	7.52%	-	-
Difference (Gross)		0.07%	0.11%	0.51%	-0.49%	0.20%	-	-
Difference (Net)		0.05%	0.09%	0.49%	-0.51%	0.11%	-	-



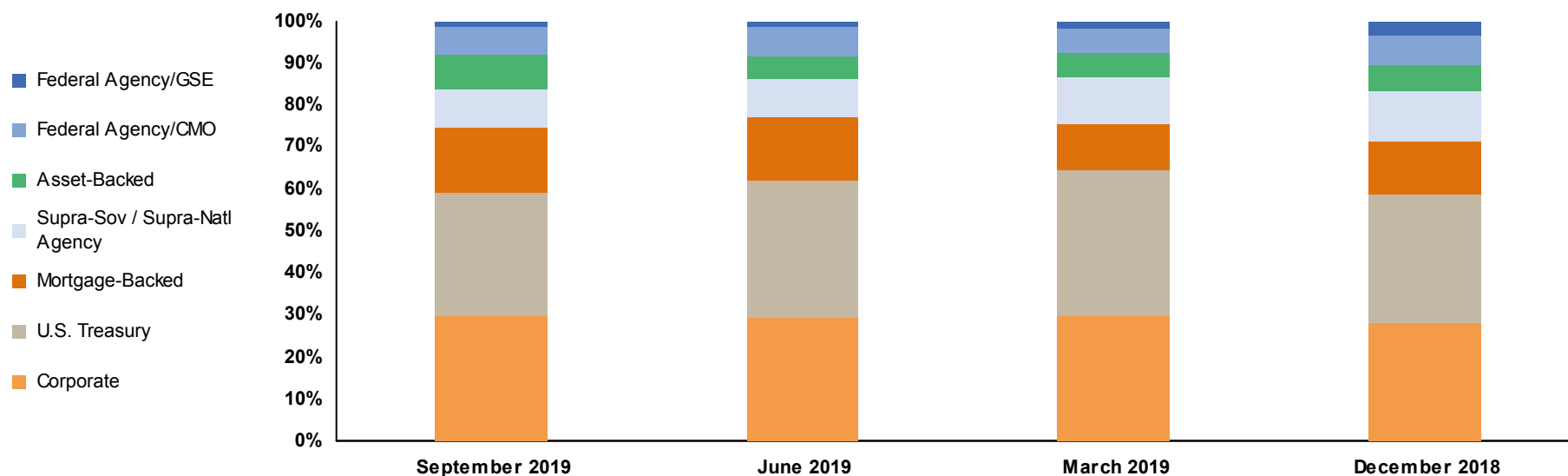
Portfolio performance is gross of fees unless otherwise indicated. \*\* Fees were calculated based on average assets during the period at the contractual rate.

**Portfolio Earnings**  
**Quarter-Ended September 30, 2019**

	<b>Market Value Basis</b>	<b>Accrual (Amortized Cost) Basis</b>
<b>Beginning Value (06/30/2019)</b>	\$50,360,869.90	\$49,347,283.31
<b>Net Purchases/Sales</b>	(\$111,877.62)	(\$111,877.62)
<b>Change in Value</b>	\$311,765.71	\$177,588.84
<b>Ending Value (09/30/2019)</b>	\$50,560,757.99	\$49,412,994.53
<b>Interest Earned</b>	\$316,834.59	\$316,834.59
<b>Portfolio Earnings</b>	\$628,600.30	\$494,423.43

## Sector Allocation

Sector	September 30, 2019		June 30, 2019		March 31, 2019		December 31, 2018	
	MV (\$MM)	% of Total	MV (\$MM)	% of Total	MV (\$MM)	% of Total	MV (\$MM)	% of Total
Corporate	15.0	29.6%	14.8	29.4%	14.3	29.8%	12.4	28.3%
U.S. Treasury	15.0	29.6%	16.3	32.4%	16.5	34.5%	13.2	30.2%
Mortgage-Backed	7.9	15.7%	7.8	15.5%	5.4	11.3%	5.6	12.8%
Supra-Sov / Supra-Natl Agency	4.6	9.0%	4.5	9.0%	5.3	11.1%	5.3	12.1%
Asset-Backed	4.2	8.3%	2.7	5.4%	2.7	5.6%	2.6	6.1%
Federal Agency/CMO	3.2	6.3%	3.4	6.8%	2.9	6.1%	3.1	7.1%
Federal Agency/GSE	0.8	1.5%	0.8	1.5%	0.8	1.6%	1.5	3.4%
<b>Total</b>	<b>\$50.6</b>	<b>100.0%</b>	<b>\$50.4</b>	<b>100.0%</b>	<b>\$48.0</b>	<b>100.0%</b>	<b>\$43.7</b>	<b>100.0%</b>

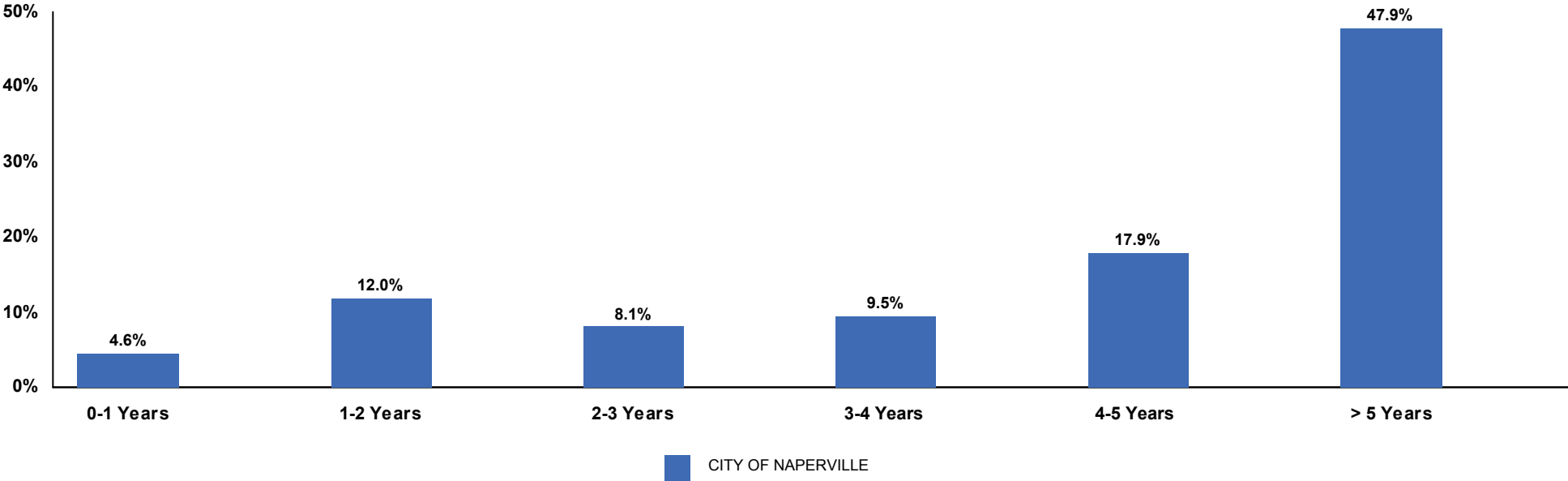


Detail may not add to total due to rounding.

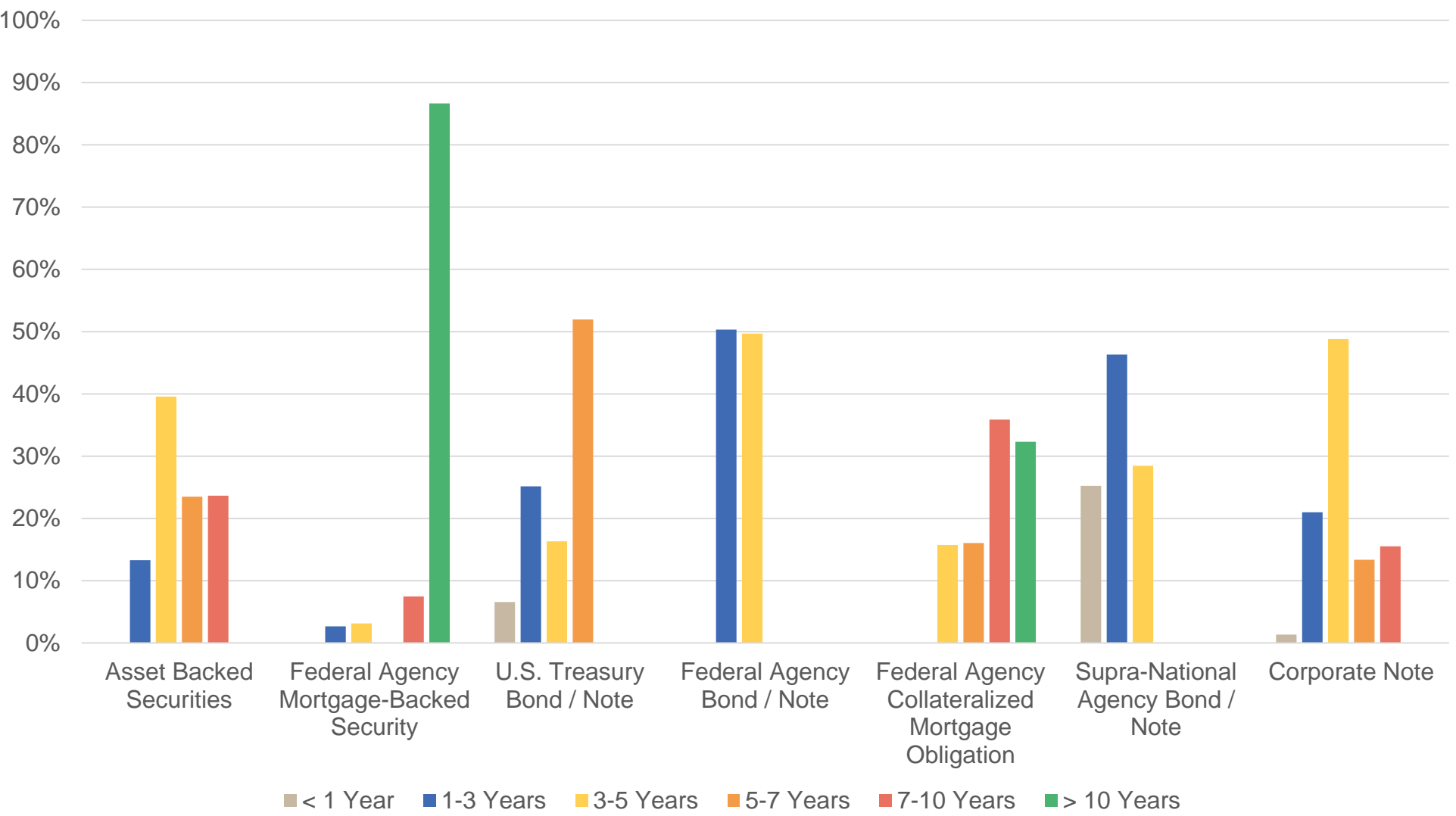
Maturity Distribution

As of September 30, 2019

Portfolio/Benchmark	Yield at Market	Average Maturity	0-1 Years	1-2 Years	2-3 Years	3-4 Years	4-5 Years	>5 Years
CITY OF NAPERVILLE	2.10%	6.81 yrs	4.6%	12.0%	8.1%	9.5%	17.9%	47.9%

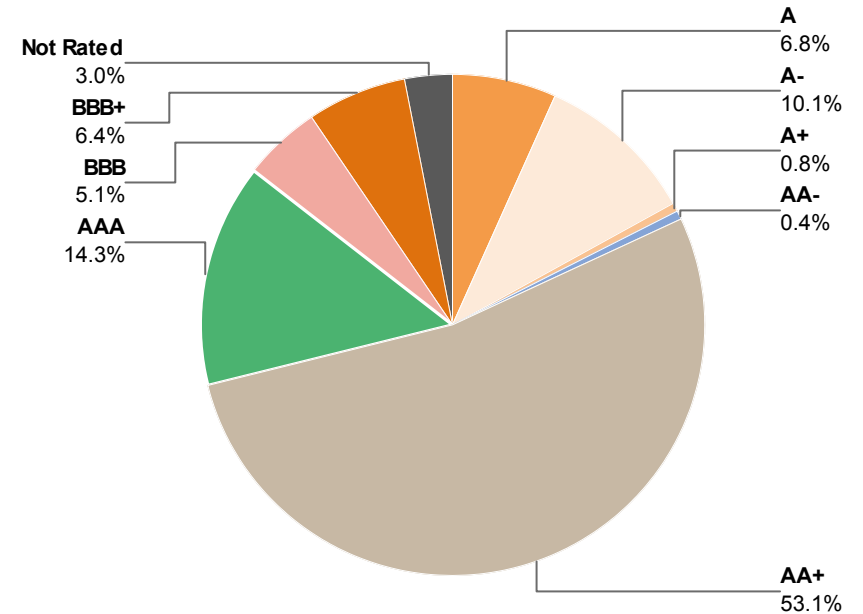


Maturity Distribution By Sector



**Credit Quality****As of September 30, 2019**

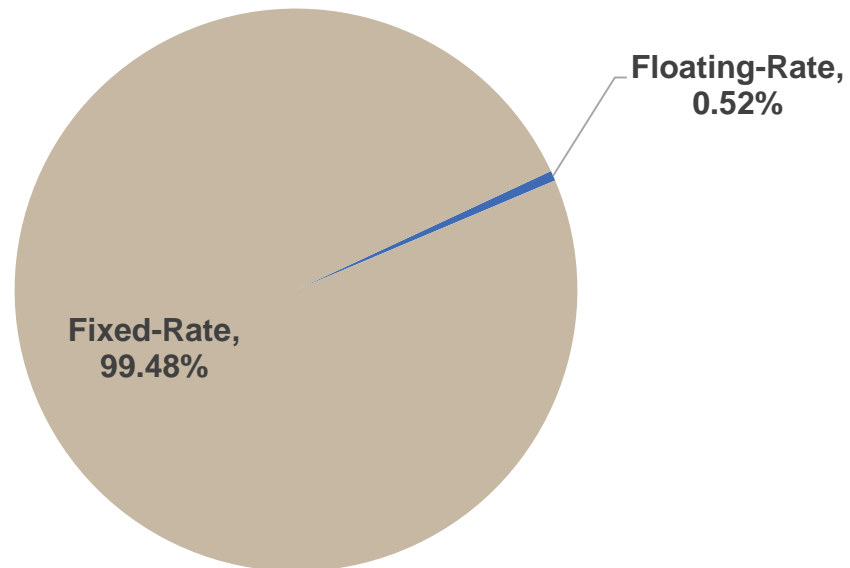
S&P Rating	Market Value (\$)	% of Portfolio
AA+	\$26,838,355	53.1%
AAA	\$7,241,825	14.3%
A-	\$5,092,570	10.1%
A	\$3,434,530	6.8%
BBB+	\$3,244,223	6.4%
BBB	\$2,596,170	5.1%
Not Rated	\$1,512,028	3.0%
A+	\$386,867	0.8%
AA-	\$214,189	0.4%
<b>Totals</b>	<b>\$50,560,758</b>	<b>100.0%</b>



Detail may not add to total due to rounding.

## Mortgage Sector Overview

Type	Market Value	%
Fixed-Rate	\$10,928,853	99.48%
Floating-Rate	\$56,584	0.52%
Total	\$10,985,437	100.00%



## Sector/Issuer Distribution

As of September 30, 2019

Sector / Issuer	Market Value (\$)	% of Sector	% of Total Portfolio
<b>Asset-Backed</b>			
CAPITAL ONE FINANCIAL CORP	994,043	23.7%	2.0%
CARMAX AUTO OWNER TRUST	691,480	16.5%	1.4%
CITIGROUP INC	312,516	7.4%	0.6%
CNH EQUIPMENT TRUST	750,231	17.9%	1.5%
FORD CREDIT AUTO LEASE TRUST	279,623	6.7%	0.6%
GM FINANCIAL AUTO LEASING TRUST	278,694	6.6%	0.6%
GM FINANCIAL SECURITIZED TERM	415,953	9.9%	0.8%
JOHN DEERE OWNER TRUST	169,658	4.0%	0.3%
WORLD OMNI AUTO REC TRUST	310,144	7.4%	0.6%
<b>Sector Total</b>	<b>4,202,342</b>	<b>100.0%</b>	<b>8.3%</b>
<b>Corporate</b>			
ABBVIE INC	289,205	1.9%	0.6%
AIR LEASE CORP	200,815	1.3%	0.4%
AMERICAN EXPRESS CO	493,762	3.3%	1.0%
AMERICAN INTERNATIONAL GROUP	213,742	1.4%	0.4%
AMGEN INC	206,905	1.4%	0.4%
ANTHEM INC	224,152	1.5%	0.4%
AT&T	200,475	1.3%	0.4%
BANCO SANTANDER SA	305,204	2.0%	0.6%

Sector / Issuer	Market Value (\$)	% of Sector	% of Total Portfolio
BANK OF AMERICA CO	468,947	3.1%	0.9%
BANK OF MONTREAL	656,898	4.4%	1.3%
BANK OF NOVA SCOTIA	678,766	4.5%	1.3%
BARCLAYS PLC	285,573	1.9%	0.6%
BB&T CORPORATION	504,012	3.4%	1.0%
BLACKROCK INC	214,189	1.4%	0.4%
BOEING COMPANY	330,493	2.2%	0.7%
CANADIAN IMPERIAL BANK OF COMMERCE	669,861	4.5%	1.3%
CAPITAL ONE FINANCIAL CORP	369,776	2.5%	0.7%
CATERPILLAR INC	303,932	2.0%	0.6%
CHARLES SCHWAB	178,609	1.2%	0.4%
CITIGROUP INC	316,989	2.1%	0.6%
CVS HEALTH CORP	200,889	1.3%	0.4%
DEERE & COMPANY	303,888	2.0%	0.6%
FEDEX CORP	358,862	2.4%	0.7%
FORD MOTOR COMPANY	200,263	1.3%	0.4%
GATX CORP	294,138	2.0%	0.6%
GENERAL MOTORS CORP	203,457	1.4%	0.4%
GOLDMAN SACHS GROUP INC	293,046	2.0%	0.6%
HOME DEPOT INC	524,719	3.5%	1.0%
HP ENTERPRISE CO	281,920	1.9%	0.6%
JP MORGAN CHASE & CO	890,338	5.9%	1.8%
LLOYDS BANKING GROUP PLC	351,096	2.3%	0.7%
MCDONALD'S CORPORATION	114,802	0.8%	0.2%
mitsubishi UFJ Financial Group Inc	494,499	3.3%	1.0%

Sector / Issuer	Market Value (\$)	% of Sector	% of Total Portfolio
MORGAN STANLEY	292,553	2.0%	0.6%
NATIONAL RURAL UTILITIES CO FINANCE CORP	221,046	1.5%	0.4%
SIMON PROPERTY GROUP LP	371,352	2.5%	0.7%
THE BANK OF NEW YORK MELLON CORPORATION	209,515	1.4%	0.4%
TORONTO-DOMINION BANK	254,713	1.7%	0.5%
UNION PACIFIC CORP	215,395	1.4%	0.4%
UNITEDHEALTH GROUP INC	209,721	1.4%	0.4%
US BANCORP	692,410	4.6%	1.4%
VERIZON COMMUNICATIONS	205,765	1.4%	0.4%
WASTE MANAGEMENT INC	155,215	1.0%	0.3%
WELLS FARGO & COMPANY	516,639	3.5%	1.0%
<b>Sector Total</b>	<b>14,968,549</b>	<b>100.0%</b>	<b>29.6%</b>
<b>Federal Agency/CMO</b>			
FANNIE MAE	1,233,902	38.9%	2.4%
FREDDIE MAC	1,602,873	50.6%	3.2%
GOVERNMENT NATIONAL MORTGAGE ASSOCIATION	333,147	10.5%	0.7%
<b>Sector Total</b>	<b>3,169,922</b>	<b>100.0%</b>	<b>6.3%</b>
<b>Federal Agency/GSE</b>			
FANNIE MAE	169,564	21.9%	0.3%
FEDERAL FARM CREDIT BANKS	208,252	26.9%	0.4%
FEDERAL HOME LOAN BANKS	396,361	51.2%	0.8%

Sector / Issuer	Market Value (\$)	% of Sector	% of Total Portfolio
<b>Sector Total</b>	<b>774,177</b>	<b>100.0%</b>	<b>1.5%</b>
<b>Mortgage-Backed</b>			
FANNIE MAE	5,450,500	68.7%	10.8%
FREDDIE MAC	2,388,406	30.1%	4.7%
GOVERNMENT NATIONAL MORTGAGE ASSOCIATION	95,178	1.2%	0.2%
<b>Sector Total</b>	<b>7,934,083</b>	<b>100.0%</b>	<b>15.7%</b>
<b>Supra-Sov / Supra-Natl Agency</b>			
AFRICAN DEVELOPMENT BANK	1,944,522	42.7%	3.8%
ASIAN DEVELOPMENT BANK	352,749	7.8%	0.7%
INTER-AMERICAN DEVELOPMENT BANK	1,755,341	38.6%	3.5%
INTL BANK OF RECONSTRUCTION AND DEV	498,899	11.0%	1.0%
<b>Sector Total</b>	<b>4,551,512</b>	<b>100.0%</b>	<b>9.0%</b>
<b>U.S. Treasury</b>			
UNITED STATES TREASURY	14,960,172	100.0%	29.6%
<b>Sector Total</b>	<b>14,960,172</b>	<b>100.0%</b>	<b>29.6%</b>
<b>Portfolio Total</b>	<b>50,560,758</b>	<b>100.0%</b>	<b>100.0%</b>

## Managed Account Detail of Securities Held

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
<b>U.S. Treasury Bond / Note</b>											
US TREASURY STRIPS DTD 08/15/1990 0.000% 08/15/2020	912833LA6	100,000.00	AA+	Aaa	9/15/2011	9/15/2011	83,106.00	2.09	0.00	98,205.80	98,402.00
US TREASURY STRIPS DTD 08/15/1990 0.000% 08/15/2020	912833LA6	100,000.00	AA+	Aaa	10/14/2011	10/14/2011	81,996.00	2.26	0.00	98,059.71	98,402.00
US TREASURY STRIPS DTD 08/15/1990 0.000% 08/15/2020	912833LA6	400,000.00	AA+	Aaa	8/17/2011	8/17/2011	328,560.00	2.20	0.00	392,440.30	393,608.00
US TREASURY STRIPS DTD 08/15/1990 0.000% 08/15/2020	912833LA6	400,000.00	AA+	Aaa	9/3/2014	9/3/2014	355,416.00	2.00	0.00	393,127.90	393,608.00
US TSY INFL IX BONDS DTD 01/31/2011 1.125% 01/15/2021	912828PP9	385,052.50	AA+	Aaa	11/17/2011	11/17/2011	488,271.91	0.12	1,076.84	457,427.46	452,868.52
US TREASURY STRIPS DTD 05/15/1991 0.000% 05/15/2021	912833LD0	150,000.00	AA+	Aaa	11/29/2016	11/30/2016	138,060.00	1.87	0.00	145,540.50	145,871.40
US TREASURY NOTES DTD 05/31/2016 1.375% 05/31/2021	912828R77	2,675,000.00	AA+	Aaa	12/28/2018	12/31/2018	2,604,885.74	2.50	12,360.91	2,626,269.90	2,659,953.13
US TREASURY NOTES DTD 05/01/2017 1.875% 04/30/2022	912828X47	500,000.00	AA+	Aaa	9/13/2018	9/14/2018	483,476.56	2.84	3,923.23	488,076.27	503,379.00
US TREASURY STRIPS (I) DTD 11/16/1992 0.000% 11/15/2022	912833LK4	650,000.00	AA+	Aaa	7/12/2016	7/12/2016	598,360.51	1.31	0.00	624,044.26	618,132.45
US TREASURY STRIPS DTD 02/15/1993 0.000% 02/15/2023	912833LL2	850,000.00	AA+	Aaa	7/12/2016	7/12/2016	778,209.00	1.34	0.00	812,490.51	805,049.45
US TREASURY STRIPS DTD 08/15/1994 0.000% 05/15/2023	912833LN8	100,000.00	AA+	Aaa	6/11/2014	6/11/2014	78,826.00	2.68	0.00	90,796.72	94,335.40
US TREASURY STRIPS DTD 08/15/1994 0.000% 05/15/2023	912833LN8	50,000.00	AA+	Aaa	5/29/2014	5/29/2014	40,100.00	2.48	0.00	45,733.96	47,167.70
US TREASURY STRIPS DTD 08/15/1994 0.000% 05/15/2023	912833LN8	500,000.00	AA+	Aaa	6/12/2014	6/12/2014	393,915.00	2.69	0.00	453,869.70	471,677.00
US TREASURY STRIPS DTD 08/15/1994 0.000% 05/15/2023	912833LN8	50,000.00	AA+	Aaa	6/16/2014	6/16/2014	39,542.00	2.65	0.00	45,452.00	47,167.70
US TREASURY N/B NOTES DTD 05/01/2017 2.000% 04/30/2024	912828X70	350,000.00	AA+	Aaa	9/13/2018	9/14/2018	334,003.91	2.89	2,929.35	336,791.05	356,658.05

## Managed Account Detail of Securities Held

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
<b>U.S. Treasury Bond / Note</b>											
US TREASURY STRIPS DTD 08/15/1994 0.000% 11/15/2024	912833LT5	500,000.00	AA+	Aaa	11/23/2015	11/23/2015	404,520.00	2.37	0.00	443,061.08	460,411.00
US TREASURY STRIPS DTD 08/15/1994 0.000% 11/15/2024	912833LT5	250,000.00	AA+	Aaa	12/3/2015	12/3/2015	201,375.00	2.43	0.00	220,893.30	230,205.50
US TREASURY STRIPS DTD 08/15/1994 0.000% 11/15/2024	912833LT5	250,000.00	AA+	Aaa	12/9/2015	12/9/2015	203,357.50	2.32	0.00	222,086.79	230,205.50
US TREASURY NOTES DTD 08/17/2015 2.000% 08/15/2025	912828K74	1,450,000.00	AA+	Aaa	3/6/2019	3/8/2019	1,398,060.55	2.61	3,703.80	1,402,326.02	1,482,172.60
US TREASURY NOTES DTD 08/17/2015 2.000% 08/15/2025	912828K74	2,800,000.00	AA+	Aaa	1/10/2019	1/15/2019	2,694,890.63	2.62	7,152.17	2,705,438.06	2,862,126.40
US TREASURY STRIPS DTD 08/15/1995 0.000% 08/15/2025	912833LW8	250,000.00	AA+	Aaa	8/31/2016	8/31/2016	216,430.00	1.62	0.00	227,447.92	226,971.75
US TREASURY STRIPS DTD 08/15/1995 0.000% 08/15/2025	912833LW8	250,000.00	AA+	Aaa	4/4/2016	4/4/2016	209,415.00	1.90	0.00	223,718.54	226,971.75
US TREASURY STRIPS DTD 08/15/1995 0.000% 08/15/2025	912833LW8	250,000.00	AA+	Aaa	7/6/2016	7/6/2016	218,980.00	1.46	0.00	229,536.78	226,971.75
US TREASURY STRIPS DTD 08/15/1995 0.000% 08/15/2025	912833LW8	1,000,000.00	AA+	Aaa	7/12/2016	7/12/2016	867,730.00	1.57	0.00	912,452.79	907,887.00
US TREASURY NOTES DTD 08/17/2015 2.000% 08/15/2025	912828K74	900,000.00	AA+	Aaa	5/2/2019	5/6/2019	879,152.34	2.40	2,298.91	880,424.45	919,969.20
<b>Security Type Sub-Total</b>		<b>15,160,052.50</b>					<b>14,120,639.65</b>	<b>2.24</b>	<b>33,445.21</b>	<b>14,575,711.77</b>	<b>14,960,172.25</b>
<b>Supra-National Agency Bond / Note</b>											
AFRICAN DEVELOPMENT BANK NOTE DTD 03/16/2017 1.875% 03/16/2020	00828ECA5	650,000.00	AAA	Aaa	3/8/2017	3/16/2017	649,038.00	1.93	507.81	649,849.49	649,469.60
INTL BANK OF RECONSTRUCTION AND DEV NOTE DTD 09/19/2017 1.561% 09/12/2020	45905UP32	500,000.00	AAA	Aaa	9/12/2017	9/19/2017	498,800.00	1.64	411.93	499,612.16	498,899.00

## Managed Account Detail of Securities Held

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
<b>Supra-National Agency Bond / Note</b>											
INTER-AMERICAN DEVELOPMENT BANK DTD 11/08/2013 2.125% 11/09/2020	4581X0CD8	1,000,000.00	AAA	Aaa	9/21/2018	9/25/2018	983,680.00	2.92	8,381.94	991,385.03	1,003,092.00
INTER-AMERICAN DEVELOPMENT BANK DTD 11/08/2013 2.125% 11/09/2020	4581X0CD8	250,000.00	AAA	Aaa	10/2/2017	10/10/2017	252,317.28	1.81	2,095.49	250,846.81	250,773.00
ASIAN DEVELOPMENT BANK NOTE DTD 02/16/2017 2.000% 02/16/2022	045167DX8	350,000.00	AAA	Aaa	2/9/2017	2/16/2017	348,019.00	2.12	875.00	349,033.16	352,749.25
INTER-AMERICAN DEVEL BANK DTD 09/14/2017 1.750% 09/14/2022	4581X0CZ9	500,000.00	AAA	Aaa	9/7/2017	9/14/2017	498,240.00	1.82	413.19	498,941.43	501,476.00
AFRICAN DEVELOPMENT BANK NOTE DTD 11/16/2017 2.125% 11/16/2022	00828ECW7	500,000.00	AAA	Aaa	11/9/2017	11/16/2017	498,725.00	2.18	3,984.38	499,187.14	506,835.00
AFRICAN DEVELOPMENT BANK BOND DTD 09/20/2018 3.000% 09/20/2023	00828EDC0	750,000.00	AAA	Aaa	9/14/2018	9/20/2018	748,582.50	3.04	687.50	748,857.49	788,217.75
<b>Security Type Sub-Total</b>		<b>4,500,000.00</b>					<b>4,477,401.78</b>	<b>2.33</b>	<b>17,357.24</b>	<b>4,487,712.71</b>	<b>4,551,511.60</b>
<b>Federal Agency Mortgage-Backed Security</b>											
FHLMC POOL #G11884 DTD 01/01/2006 5.500% 12/01/2020	31336WCU1	8,324.53	AA+	Aaa	2/17/2016	2/17/2016	8,842.01	2.86	38.15	8,462.31	8,402.66
FNMA POOL #468651 DTD 07/01/2011 3.990% 07/01/2021	31381RTG9	197,991.53	AA+	Aaa	8/11/2011	8/11/2011	210,716.10	2.63	658.32	199,468.43	203,303.69
FNMA POOL #555791 DTD 09/01/2003 6.500% 12/01/2022	31385XNG8	3,712.50	AA+	Aaa	9/8/2003	9/8/2003	3,934.97	5.70	20.11	3,772.25	4,136.10
FNMA POOL #AM4716 DTD 12/01/2013 3.380% 12/01/2023	3138L5G20	194,412.70	AA+	Aaa	10/6/2014	10/6/2014	202,371.48	2.43	547.60	197,613.22	205,279.94
GNMA SERIES #783490 DTD 12/01/2011 6.000% 02/01/2024	36241L2X3	25,772.37	AA+	Aaa	5/26/2016	5/26/2016	28,266.32	3.41	128.86	27,384.25	26,696.33
GNMA SERIES #378308 DTD 01/01/1995 5.500% 04/01/2024	36204SGR1	11,526.03	AA+	Aaa	2/28/2000	2/28/2000	11,526.03	5.48	52.83	11,526.03	12,415.13

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<b>Federal Agency Mortgage-Backed Security</b>											
GNMA POOL #8528 DTD 10/01/1994 4.125% 10/01/2024	36202KPM1	2,607.69	AA+	Aaa	1/2/1997	1/2/1997	2,693.76	1.74	8.96	2,627.67	2,669.21
GNMA POOL #2022 DTD 06/01/1995 9.000% 06/01/2025	36202CG72	646.07	AA+	Aaa	1/2/1997	1/2/1997	646.07	8.95	4.85	646.07	698.66
GNMA POOL #2285 DTD 09/01/1996 8.000% 09/01/2026	36202CRE5	1,587.14	AA+	Aaa	1/2/1997	1/2/1997	1,705.06	7.22	10.58	1,654.83	1,825.59
GNMA POOL #2324 DTD 11/01/1996 8.000% 11/01/2026	36202CSM6	2,038.90	AA+	Aaa	1/2/1997	1/2/1997	2,200.94	7.17	13.59	2,132.47	2,311.12
GNMA POOL #2549 DTD 02/01/1998 7.500% 02/01/2028	36202CZN6	1,032.46	AA+	Aaa	2/1/1998	2/1/1998	1,118.99	6.66	6.45	1,087.74	1,143.83
GNMA POOL #2647 DTD 09/01/1998 8.000% 09/01/2028	36202C5G4	2,057.20	AA+	Aaa	9/1/1998	9/1/1998	2,057.20	7.96	13.71	2,057.20	2,101.56
GNMA POOL #486631 DTD 10/01/1998 6.500% 10/01/2028	36210ASU2	5,397.74	AA+	Aaa	1/31/2000	1/31/2000	5,397.74	6.48	29.24	5,397.74	5,973.75
FNMA POOL #755973 DTD 12/01/2003 8.000% 11/01/2028	31403R2E7	13,574.88	AA+	Aaa	1/7/2004	1/7/2004	13,297.26	8.18	90.50	13,355.34	15,549.90
FNMA POOL #252211 DTD 12/01/1998 6.000% 01/01/2029	31371HDQ8	2,849.31	AA+	Aaa	5/16/2000	5/16/2000	2,849.31	5.96	14.25	2,849.31	3,201.45
FANNIE MAE POOL AS2235 DTD 03/01/2014 3.500% 04/25/2029	3138WBPV1	539,273.02	AA+	Aaa	11/20/2017	11/22/2017	560,001.32	2.38	1,572.88	557,985.75	562,382.77
GNMA SERIES #783964 DTD 02/01/2015 4.000% 01/01/2030	3622A2MM1	37,694.51	AA+	Aaa	1/20/2016	1/20/2016	41,036.42	2.66	125.65	40,389.25	39,343.15
FNMA POOL #598451 DTD 07/01/2001 8.000% 06/01/2030	31387YZQ9	2,302.16	AA+	Aaa	7/11/2001	7/11/2001	2,532.45	6.96	15.35	2,462.68	2,333.02
FNMA SERIES 2011-69 CB DTD 06/01/2011 3.500% 07/01/2030	3136A0BE6	91,967.23	AA+	Aaa	7/18/2016	7/18/2016	95,676.10	2.86	268.24	95,285.06	93,257.44
FNMA POOL #AL3209 DTD 03/01/2013 4.500% 09/01/2031	3138EKR72	117,927.55	AA+	Aaa	7/13/2016	7/13/2016	131,100.21	2.93	442.23	129,717.49	126,790.74
FHLMC POOL #G30628 DTD 02/01/2013 4.000% 10/01/2032	3128CUVV5	31,213.52	AA+	Aaa	2/8/2016	2/8/2016	33,952.78	2.87	104.05	33,708.83	33,081.08

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<b>Federal Agency Mortgage-Backed Security</b>											
FN BM5462 DTD 02/01/2019 3.000% 11/25/2032	3140JAB80	447,594.76	AA+	Aaa	6/21/2019	6/25/2019	457,735.57	2.45	1,118.99	457,457.60	460,739.11
FR ZK9110 DTD 09/01/2018 3.000% 12/25/2032	3131XDDP7	501,420.00	AA+	Aaa	8/19/2019	8/21/2019	515,365.74	2.18	1,253.55	515,274.37	513,852.05
FANNIE MAE POOL DTD 02/01/2018 4.000% 02/25/2033	3140Q8NB7	472,935.10	AA+	Aaa	5/20/2019	5/23/2019	492,000.29	2.73	1,576.45	491,483.76	494,963.46
FN CA1455 DTD 03/01/2018 4.000% 03/25/2033	3140Q8TM7	641,471.83	AA+	Aaa	12/20/2018	12/21/2018	658,160.13	3.29	2,138.24	656,892.02	680,336.09
FNMA POOL #254693 DTD 03/01/2003 5.500% 04/01/2033	31371K3A7	10,385.98	AA+	Aaa	11/3/2005	11/3/2005	9,920.53	5.91	47.60	9,950.67	11,642.75
FHLMC POOL #V70026 DTD 05/01/2013 3.500% 05/01/2033	3132KSA38	29,061.42	AA+	Aaa	4/27/2016	4/27/2016	30,758.39	2.75	84.76	30,617.50	30,252.78
FG J39377 DTD 08/01/2018 3.500% 08/15/2033	31307WM27	461,802.06	AA+	Aaa	4/17/2019	4/23/2019	474,140.83	2.79	1,346.92	473,577.85	481,530.33
FNMA POOL #770377 DTD 03/01/2004 4.377% 04/01/2034	31404J2J3	22,836.62	AA+	Aaa	10/11/2006	10/11/2006	21,865.40	2.90	83.30	22,389.03	23,715.54
FN BM5830 DTD 04/01/2019 3.500% 04/25/2034	3140JAPQ5	473,220.11	AA+	Aaa	6/5/2019	6/18/2019	490,965.85	2.54	1,380.23	490,270.73	496,637.83
FNMA SERIES 2005-68 PG DTD 07/01/2005 5.500% 08/01/2035	31394E7B8	39,424.86	AA+	Aaa	8/17/2005	8/17/2005	41,145.15	5.09	180.70	40,786.00	43,655.98
FHLMC POOL #H00105 DTD 12/01/2005 5.500% 12/01/2035	3128MSDJ6	82,134.31	AA+	Aaa	9/2/2011	9/2/2011	88,938.10	4.66	376.45	88,735.21	87,225.34
FNMA POOL #888481 DTD 06/01/2007 5.500% 12/01/2035	31410GCS0	42,249.49	AA+	Aaa	9/27/2010	9/27/2010	45,223.84	4.78	193.64	45,111.75	47,782.29
FNMA POOL #849215 DTD 01/01/2006 6.500% 01/01/2036	31408EN81	8,710.38	AA+	Aaa	10/24/2006	10/24/2006	9,566.59	5.57	47.18	9,376.27	9,578.97
FNMA POOL #888209 DTD 02/01/2007 5.500% 05/01/2036	31410FYE9	55,632.83	AA+	Aaa	8/9/2011	8/9/2011	61,263.57	4.49	254.98	61,024.21	62,914.75
FNMA POOL #886320 DTD 07/01/2006 6.500% 07/01/2036	31410DVM9	6,228.79	AA+	Aaa	10/24/2006	10/24/2006	6,228.79	6.46	33.74	6,228.79	6,624.18

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<b>Federal Agency Mortgage-Backed Security</b>											
FNMA POOL #898179 DTD 09/01/2006 3.897% 09/01/2036	31410U2L5	28,259.63	AA+	Aaa	7/17/2009	7/17/2009	30,556.69	1.62	91.77	30,250.37	29,005.63
FHLMC POOL #1B7163 DTD 10/01/2006 4.940% 10/01/2036	3128QPK35	1,388.67	AA+	Aaa	10/19/2006	10/19/2006	1,412.89	5.73	11.58	1,388.67	1,414.60
FHLMC POOL #C02641 DTD 10/01/2006 7.000% 10/01/2036	31292J5A4	5,707.94	AA+	Aaa	10/30/2006	10/30/2006	5,707.94	6.97	33.30	5,707.94	6,494.59
FHLMC POOL #C02660 DTD 11/01/2006 6.500% 11/01/2036	31292J5V8	12,480.25	AA+	Aaa	11/14/2006	11/14/2006	13,776.05	5.56	67.60	13,495.67	14,132.44
FNMA POOL #960150 DTD 11/01/2007 6.000% 11/01/2037	31414AEX6	30,501.96	AA+	Aaa	9/20/2011	9/20/2011	33,971.56	4.90	152.51	33,913.38	34,422.95
FNMA SERIES 2011-104 KH DTD 09/01/2011 2.000% 03/01/2039	3136A1DD4	73,688.14	AA+	Aaa	7/12/2016	7/12/2016	74,636.11	1.87	122.81	74,623.03	73,569.74
FHLMC SERIES 3804 PW DTD 02/01/2011 4.500% 03/01/2040	3137A7F39	102,610.45	AA+	Aaa	9/21/2015	9/21/2015	110,723.09	3.74	384.79	110,587.04	105,450.01
FHLMC SERIES 4011 DB DTD 03/01/2012 4.000% 09/01/2041	3137AMXK8	76,937.21	AA+	Aaa	7/15/2016	7/15/2016	85,400.39	3.02	256.46	85,227.21	83,262.03
FNMA SERIES 2012-57 JW DTD 05/01/2012 4.500% 10/01/2041	3136A6HC1	88,313.78	AA+	Aaa	7/22/2016	7/22/2016	95,528.61	3.73	331.18	95,478.02	93,561.99
FNMA POOL #AL1107 DTD 11/01/2011 4.500% 11/01/2041	3138EHGR7	115,192.79	AA+	Aaa	7/14/2016	7/14/2016	126,301.84	3.60	431.97	126,179.70	124,811.27
FNMA POOL #AK9382 DTD 04/01/2012 4.000% 04/01/2042	3138EEM89	96,864.58	AA+	Aaa	8/8/2016	8/8/2016	105,033.21	3.24	322.88	104,912.18	103,499.72
FNMA POOL #MA1125 DTD 06/01/2012 4.000% 07/01/2042	31418AHB7	121,029.20	AA+	Aaa	7/12/2016	7/12/2016	132,276.45	3.17	403.43	132,006.75	128,794.24
FNMA POOL #MA1213 DTD 09/01/2012 3.500% 10/01/2042	31418AK31	24,374.21	AA+	Aaa	6/21/2016	6/21/2016	25,918.34	2.94	71.09	25,877.72	25,540.67
FHLMC SERIES G07289 DTD 02/01/2013 3.000% 11/01/2042	3128M9NE8	45,558.95	AA+	Aaa	6/9/2016	6/9/2016	47,384.10	2.65	113.90	47,313.42	47,170.30
FNMA POOL #AP8813 DTD 11/01/2012 3.500% 11/01/2042	3138MCYK4	13,880.92	AA+	Aaa	7/8/2016	7/8/2016	14,870.84	2.88	40.49	14,841.82	14,547.97

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<b>Federal Agency Mortgage-Backed Security</b>											
FNMA SERIES 2015-72 PC DTD 09/01/2015 3.000% 10/01/2043	3136AQAP5	66,343.47	AA+	Aaa	7/12/2016	7/12/2016	68,752.31	2.68	165.86	68,574.18	66,716.12
FNMA POOL #AL6167 DTD 12/01/2014 3.500% 01/01/2044	3138ENZ93	42,307.48	AA+	Aaa	7/18/2016	7/18/2016	44,968.61	2.96	123.40	44,876.58	44,332.33
FANNIE MAE POOL AS5675 DTD 07/01/2015 4.500% 08/25/2045	3138WFJV9	355,616.95	AA+	Aaa	11/20/2017	11/22/2017	383,343.95	2.71	1,333.56	383,181.99	380,905.43
FNMA POOL #AL9274 DTD 10/01/2016 4.000% 09/01/2046	3138ERJU5	312,262.55	AA+	Aaa	11/29/2016	11/30/2016	331,608.20	3.49	1,040.88	329,124.30	329,719.29
FN BM5015 DTD 11/01/2018 4.500% 02/01/2047	3140J9SD4	415,871.96	AA+	Aaa	1/4/2019	1/14/2019	436,080.74	3.52	1,559.52	434,503.78	446,246.25
FG Q55747 DTD 04/01/2018 5.000% 05/01/2048	3132XYL54	447,240.29	AA+	Aaa	9/20/2018	9/25/2018	474,214.46	3.83	1,863.50	471,996.02	485,909.48
FREDDIE MAC MBS DTD 04/01/2019 4.500% 05/01/2049	31335CGA6	458,878.90	AA+	Aaa	6/7/2019	6/13/2019	486,053.12	4.01	1,720.80	485,852.24	490,227.84
<b>Security Type Sub-Total</b>		<b>7,524,327.86</b>					<b>7,893,720.79</b>	<b>3.07</b>	<b>24,926.41</b>	<b>7,858,671.69</b>	<b>7,934,083.46</b>
<b>Federal Agency Collateralized Mortgage Obligation</b>											
FNMA SERIES 1990-8 G DTD 01/01/1990 6.000% 01/01/2020	313603RN4	58.17	AA+	Aaa	2/28/2000	2/28/2000	58.17	5.95	0.29	58.17	58.18
FNMA SERIES 1190-106 J DTD 09/01/1990 8.500% 09/01/2020	31358E7X4	968.00	AA+	Aaa	7/18/2002	7/18/2002	1,175.74	5.73	6.86	991.18	986.31
FNMA SERIES 1993-25 J DTD 03/01/1993 7.500% 03/01/2023	31358TWE5	4,628.74	AA+	Aaa	9/9/2003	9/9/2003	5,241.42	5.83	28.93	4,890.17	4,908.07
FHLMC SERIES 2595 CD DTD 04/01/2003 5.000% 04/01/2023	31393PCJ1	35,892.97	AA+	Aaa	9/17/2015	9/17/2015	39,224.13	2.51	149.55	37,610.97	36,829.12
FHLMC SERIES 1671 L DTD 02/01/1994 7.000% 02/01/2024	3133T36F0	4,013.10	AA+	Aaa	12/14/2000	12/14/2000	4,044.43	6.88	23.41	4,023.83	4,479.96
FHLMC MULTIFAMILY STRUCTURED P POOL DTD 12/01/2017 2.951% 02/25/2024	3137FCM35	286,068.83	AA+	Aaa	12/15/2017	12/22/2017	291,780.19	2.24	703.49	290,080.61	292,822.43

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<b>Federal Agency Collateralized Mortgage Obligation</b>											
FHLMC SERIES 1694 PK DTD 03/01/1994 6.500% 03/01/2024	3133T4NE2	9,471.64	AA+	Aaa	7/7/2004	7/7/2004	9,471.64	6.47	51.30	9,471.64	10,057.74
FHMS K730 A1 DTD 03/01/2018 3.452% 09/25/2024	3137FEU99	144,679.34	AA+	Aaa	2/28/2018	3/13/2018	147,568.89	2.76	416.19	146,847.36	149,536.01
FNMA SERIES 2016-M12 A1 DTD 11/01/2016 2.132% 09/01/2026	3136AUKW0	428,840.26	AA+	Aaa	11/3/2016	11/30/2016	433,108.00	1.90	761.91	431,709.67	428,758.48
FNA 2016-M13 A1 DTD 12/01/2016 2.565% 09/25/2026	3136AUZB0	79,785.69	AA+	Aaa	12/7/2016	12/29/2016	79,834.06	2.43	170.54	79,816.17	79,972.17
FNA 2017-M8 A1 DTD 07/01/2017 2.654% 12/25/2026	3136AWZ91	169,766.01	AA+	Aaa	7/12/2017	7/28/2017	171,457.68	2.40	375.47	171,028.34	173,307.96
FANNIEMAE-ACES POOL DTD 06/01/2017 2.595% 12/25/2026	3136AV7F0	198,479.24	AA+	Aaa	6/9/2017	6/30/2017	200,462.44	2.34	429.21	199,947.25	202,773.89
FNA 2017-M15 ATS1 DTD 12/01/2017 2.987% 11/25/2027	3136AY6T5	196,197.63	AA+	Aaa	11/30/2017	12/29/2017	199,140.23	2.63	488.37	198,597.27	201,563.95
FHLMC MULTIFAMILY STRUCTURED P DTD 12/01/2018 3.671% 12/25/2027	3137FKSG2	146,607.80	AA+	Aaa	12/19/2018	12/28/2018	149,536.59	3.15	448.50	149,296.81	158,891.51
FHMS K084 A1 DTD 11/01/2018 3.780% 08/25/2028	3137FJZ85	368,617.38	AA+	Aaa	11/16/2018	11/27/2018	373,448.86	3.44	1,161.14	373,016.76	400,655.72
FNMA POOL #650236 DTD 12/01/2002 5.000% 12/01/2032	31390MLR3	593.64	AA+	Aaa	7/19/2005	7/19/2005	593.64	4.97	2.47	593.64	605.31
FNMA SERIES 2009-57 TP DTD 07/01/2009 4.500% 02/01/2037	31396QSZ3	52,067.85	AA+	Aaa	6/3/2016	6/3/2016	56,436.27	3.57	195.25	56,372.67	54,531.37
FHR 3558 GE DTD 08/01/2009 4.000% 08/15/2039	31398JAN3	445,707.21	AA+	Aaa	4/5/2019	4/10/2019	463,535.49	3.07	1,485.69	463,460.69	472,630.69
FNMA SERIES 2009-92 AD DTD 10/01/2009 6.000% 11/01/2039	31398FVM0	79,186.00	AA+	Aaa	8/9/2011	8/9/2011	87,918.24	4.98	395.93	87,670.33	86,436.29
GNMA SERIES 2010-158 CT DTD 12/01/2010 4.500% 12/01/2040	38377RFR1	106,168.49	AA+	Aaa	7/12/2016	7/12/2016	116,358.44	3.59	398.13	116,202.39	117,660.75
FHLMC SERIES T-54 2A DTD 02/01/2003 6.500% 02/01/2043	31393LFK4	64,048.77	AA+	Aaa	2/1/2003	2/1/2003	70,944.45	5.66	346.93	68,879.95	76,969.77

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<b>Federal Agency Collateralized Mortgage Obligation</b>											
GNR SERIES 2017-149 JA DTD 10/01/2017 2.500% 03/20/2046	38380HQL9	212,363.17	AA+	Aaa	11/6/2017	11/9/2017	212,180.65	2.49	442.42	212,180.67	215,486.65
<b>Security Type Sub-Total</b>		<b>3,034,209.93</b>					<b>3,113,519.65</b>	<b>2.86</b>	<b>8,481.98</b>	<b>3,102,746.54</b>	<b>3,169,922.33</b>
<b>Federal Agency Bond / Note</b>											
FHLB TAP BONDS DTD 11/09/2005 5.250% 12/11/2020	3133XDVS7	65,000.00	AA+	Aaa	7/12/2016	7/12/2016	76,428.95	1.15	1,042.71	68,149.53	67,593.18
FNMA (EX-CALLABLE) NOTES DTD 11/07/2012 1.600% 05/07/2021	3136G02F7	170,000.00	AA+	Aaa	7/12/2016	7/12/2016	172,896.80	1.23	1,088.00	170,981.00	169,563.61
FHLB NOTES DTD 08/10/2015 2.250% 09/09/2022	3130A6AP2	150,000.00	AA+	Aaa	9/28/2015	9/28/2015	151,782.00	2.07	206.25	150,785.28	152,426.25
FFCB NOTES DTD 06/26/2013 2.750% 06/26/2023	3133ECSY1	200,000.00	AA+	Aaa	9/28/2015	9/28/2015	207,530.00	2.22	1,451.39	203,794.55	208,252.40
FHLB NOTES DTD 05/08/2014 2.875% 06/14/2024	3130A1XJ2	60,000.00	AA+	Aaa	7/15/2016	7/15/2016	65,133.00	1.71	512.71	63,133.45	63,349.20
FHLB NOTES DTD 10/13/2009 4.375% 09/13/2024	3133XVDG3	100,000.00	AA+	Aaa	6/2/2016	6/2/2016	118,158.00	1.99	218.75	111,210.84	112,992.20
<b>Security Type Sub-Total</b>		<b>745,000.00</b>					<b>791,928.75</b>	<b>1.80</b>	<b>4,519.81</b>	<b>768,054.65</b>	<b>774,176.84</b>
<b>Corporate Note</b>											
AT&T CORPORATE (CALLABLE) NOTES DTD 05/04/2015 2.450% 06/30/2020	00206RCL4	200,000.00	BBB	Baa2	3/5/2018	3/7/2018	198,076.00	2.88	1,238.61	199,366.81	200,475.40
JOHN DEERE CAPITAL CORP NOTES DTD 03/13/2018 2.875% 03/12/2021	24422EUD9	300,000.00	A	A2	3/8/2018	3/13/2018	299,796.00	2.90	455.21	299,899.24	303,887.70
CATERPILLAR FINANCIAL SERVICES CORP NOTE DTD 03/15/2018 2.900% 03/15/2021	14913Q2G3	300,000.00	A	A3	3/12/2018	3/15/2018	299,838.00	2.92	386.67	299,919.66	303,932.40

## Managed Account Detail of Securities Held

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
<b>Corporate Note</b>											
CHARLES SCHWAB CORP NOTES DTD 05/22/2018 3.250% 05/21/2021	808513AW5	175,000.00	A	A2	5/17/2018	5/22/2018	174,994.75	3.25	2,053.82	174,997.00	178,609.38
SANTANDER UK PLC CORP NOTES DTD 06/01/2018 3.400% 06/01/2021	80283LAT0	300,000.00	A	Aa3	5/23/2018	6/1/2018	299,439.00	3.47	3,400.00	299,681.39	305,204.40
HP ENTERPRISE CO DTD 09/19/2018 3.500% 10/05/2021	42824CBC2	275,000.00	BBB	Baa2	9/13/2018	9/19/2018	275,052.25	3.49	4,705.56	275,032.87	281,920.38
FEDEX CORP CORP NOTES DTD 01/16/2019 3.400% 01/14/2022	31428XBU9	350,000.00	BBB	Baa2	1/14/2019	1/16/2019	349,594.00	3.44	2,545.28	349,686.04	358,862.00
US BANCORP (CALLABLE) NOTES DTD 01/24/2017 2.625% 01/24/2022	91159HHP8	175,000.00	A+	A1	12/20/2018	12/24/2018	171,676.75	3.28	854.95	172,478.12	177,146.38
VERIZON COMMUNICATIONS CORP NOTES DTD 03/16/2017 3.125% 03/16/2022	92343VDW1	200,000.00	BBB+	Baa1	3/5/2018	3/7/2018	198,622.00	3.31	260.42	199,137.71	205,764.80
FORD MOTOR CREDIT CO LLC (CALLABLE) NOTE DTD 03/31/2017 3.339% 03/28/2022	345397YL1	200,000.00	BBB	Ba1	3/5/2018	3/7/2018	196,796.00	3.77	55.65	197,977.79	200,263.20
GENERAL MOTORS FINL CO CORP NOTES DTD 04/10/2015 3.450% 04/10/2022	37045XAW6	200,000.00	BBB	Baa3	3/5/2018	3/7/2018	198,774.00	3.61	3,277.50	199,225.34	203,457.40
AMGEN INC CORP (CALLABLE) NOTES DTD 05/15/2012 3.625% 05/15/2022	031162BN9	200,000.00	A	Baa1	3/9/2018	3/13/2018	202,388.00	3.32	2,738.89	201,487.26	206,905.40
AMERICAN INTL GROUP CORP NOTES DTD 05/24/2012 4.875% 06/01/2022	026874CU9	200,000.00	BBB+	Baa1	3/5/2018	3/7/2018	211,514.00	3.40	3,250.00	207,447.43	213,741.60
AIR LEASE CORP (CALLABLE) NOTES DTD 06/12/2017 2.625% 07/01/2022	00912XAW4	200,000.00	BBB	NR	3/5/2018	3/7/2018	193,446.00	3.45	1,312.50	195,718.65	200,814.80
BARCLAYS PLC CORP NOTE DTD 11/15/2018 4.610% 02/15/2023	06738EBE4	275,000.00	BBB	Baa3	11/7/2018	11/15/2018	274,947.75	4.61	1,619.90	275,000.00	285,573.20
LLOYDS BANKING GROUP PLC CORP NOTES DTD 09/17/2019 2.858% 03/17/2023	53944YAK9	350,000.00	BBB+	A3	9/10/2019	9/17/2019	350,000.00	2.86	389.01	350,000.00	351,095.85

## Managed Account Detail of Securities Held

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
<b>Corporate Note</b>											
MCDONALD'S CORP DTD 03/16/2018 3.350% 04/01/2023	58013MFE9	110,000.00	BBB+	Baa1	3/14/2018	3/16/2018	109,958.20	3.36	1,842.50	109,969.41	114,802.49
BANK OF NY MELLON CORP DTD 04/30/2018 3.500% 04/28/2023	06406RAG2	200,000.00	A	A1	12/20/2018	12/24/2018	199,770.00	3.53	2,975.00	199,813.72	209,515.40
UNITEDHEALTH GROUP INC CORP NOTES DTD 06/19/2018 3.500% 06/15/2023	91324PDJ8	200,000.00	A+	A3	6/14/2018	6/19/2018	199,900.00	3.51	2,061.11	199,923.61	209,721.00
ABBVIE INC DTD 09/18/2018 3.750% 11/14/2023	00287YBC2	275,000.00	A-	Baa2	9/13/2018	9/18/2018	274,648.00	3.78	3,924.48	274,705.09	289,205.40
CAPITAL ONE FINANCIAL CORP NOTE DTD 01/29/2019 3.900% 01/29/2024	14040HCA1	350,000.00	BBB	Baa1	1/24/2019	1/29/2019	349,244.00	3.95	2,350.83	349,337.40	369,776.05
BANK OF NOVA SCOTIA DTD 02/11/2019 3.400% 02/11/2024	064159MK9	650,000.00	A-	A2	2/6/2019	2/11/2019	649,408.50	3.42	3,069.44	649,478.71	678,765.75
GATX CORP CORP NOTES DTD 11/05/2018 4.350% 02/15/2024	361448BD4	275,000.00	BBB	Baa2	11/1/2018	11/5/2018	274,824.00	4.36	1,528.54	274,854.12	294,138.08
GOLDMAN SACHS CORP NOTES DTD 03/03/2014 4.000% 03/03/2024	38141GVM3	275,000.00	BBB+	A3	3/6/2018	3/8/2018	280,117.75	3.65	855.56	278,886.30	293,046.33
MITSUBISHI UFJ FIN GRP NOTE DTD 03/07/2019 3.407% 03/07/2024	606822BD5	475,000.00	A-	A1	2/26/2019	3/7/2019	475,000.00	3.41	1,078.88	475,000.00	494,499.23
CANADIAN IMP BK COMM NY CORP NOTES DTD 04/02/2019 3.100% 04/02/2024	13607GAP9	650,000.00	BBB+	A2	4/2/2019	4/4/2019	646,516.00	3.22	10,019.03	646,835.67	669,861.40
MORGAN STANLEY CORP NOTES DTD 04/28/2014 3.875% 04/29/2024	61746BDQ6	275,000.00	BBB+	A3	3/6/2018	3/8/2018	278,049.75	3.67	4,499.31	277,343.87	292,553.25
CITIGROUP INC DTD 05/22/2018 4.044% 06/01/2024	172967LZ2	300,000.00	BBB+	A3	5/15/2018	5/22/2018	300,000.00	4.04	4,044.00	300,000.00	316,989.30
TORONTO-DOMINION BANK DTD 06/12/2019 2.650% 06/12/2024	89114QCA4	250,000.00	A	Aa3	6/5/2019	6/12/2019	249,965.00	2.65	2,005.90	249,967.00	254,712.75
WASTE MANAGEMENT INC CORP NOTES DTD 05/22/2019 2.950% 06/15/2024	94106LBF5	150,000.00	A-	Baa1	5/14/2019	5/22/2019	149,991.00	2.95	1,585.63	149,992.91	155,214.60

## Managed Account Detail of Securities Held

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
<b>Corporate Note</b>											
BANK OF MONTREAL CORP NOTES DTD 06/28/2019 2.500% 06/28/2024	06367WMQ3	650,000.00	A-	A2	6/25/2019	6/28/2019	649,909.00	2.50	4,197.92	649,913.45	656,897.80
BB&T CORPORATION CORP BONDS DTD 07/29/2019 2.500% 08/01/2024	05531FBH5	500,000.00	A-	A2	7/23/2019	7/29/2019	499,580.00	2.52	2,152.78	499,593.79	504,011.50
CVS HEALTH CORP DTD 08/15/2019 2.625% 08/15/2024	126650DE7	200,000.00	BBB	Baa2	8/8/2019	8/15/2019	198,970.00	2.74	670.83	198,994.74	200,889.20
JPMORGAN CHASE & CO BONDS DTD 09/10/2014 3.875% 09/10/2024	46625HJY7	275,000.00	BBB+	A3	3/6/2018	3/8/2018	276,966.25	3.75	621.61	276,536.32	292,606.88
SIMON PROPERTY GROUP LP DTD 09/13/2019 2.000% 09/13/2024	828807DG9	375,000.00	A	A2	9/4/2019	9/13/2019	374,628.75	2.02	375.00	374,632.30	371,352.00
ANTHEM INC DTD 09/09/2019 2.375% 01/15/2025	036752AJ2	225,000.00	A	Baa2	9/4/2019	9/9/2019	224,802.00	2.39	326.56	224,803.59	224,151.53
BANK OF AMERICA CORP CORP NOTES DTD 03/15/2019 3.458% 03/15/2025	06051GHR3	450,000.00	A-	A2	3/12/2019	3/15/2019	450,000.00	3.46	691.60	450,000.00	468,947.25
UNION PACIFIC CORP CORP NOTES DTD 06/08/2018 3.750% 07/15/2025	907818ES3	200,000.00	A-	Baa1	6/5/2018	6/8/2018	199,992.00	3.75	1,583.33	199,992.00	215,395.20
JPMORGAN CHASE & CO DTD 09/12/2019 2.301% 10/15/2025	46647PBF2	600,000.00	A-	A2	9/5/2019	9/12/2019	600,000.00	2.30	728.65	600,000.00	597,731.40
AMERICAN EXPRESS CO (CALLABLE) CORP NOTE DTD 05/20/2019 3.125% 05/20/2026	025816CF4	475,000.00	BBB+	A3	5/15/2019	5/20/2019	473,727.00	3.17	5,401.48	473,786.63	493,761.55
BOEING CO DTD 07/31/2019 2.700% 02/01/2027	097023CM5	325,000.00	A	A2	7/29/2019	7/31/2019	324,122.50	2.74	1,486.88	324,140.54	330,493.15
WELLS FARGO & COMPANY DTD 06/17/2019 3.196% 06/17/2027	95000U2F9	500,000.00	A-	A2	6/10/2019	6/17/2019	500,000.00	3.20	4,616.44	500,000.00	516,638.50
NATIONAL RURAL UTIL COOP CORP NOTES DTD 01/31/2019 3.700% 03/15/2029	637432NS0	200,000.00	A	A1	1/28/2019	1/31/2019	199,554.00	3.73	328.89	199,588.53	221,046.40
BLACKROCK INC DTD 04/29/2019 3.250% 04/30/2029	09247XAP6	200,000.00	AA-	Aa3	4/17/2019	4/29/2019	198,380.00	3.35	2,744.44	198,438.26	214,189.20

## Managed Account Detail of Securities Held

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
<b>Corporate Note</b>											
HOME DEPOT INC DTD 06/17/2019 2.950% 06/15/2029	437076BY7	500,000.00	A	A2	6/3/2019	6/17/2019	497,130.00	3.02	4,261.11	497,201.36	524,719.00
US BANCORP DTD 07/29/2019 3.000% 07/30/2029	91159HHW3	500,000.00	A-	A1	7/24/2019	7/29/2019	499,955.00	3.00	2,583.33	499,955.77	515,263.50
<b>Security Type Sub-Total</b>		<b>14,510,000.00</b>					<b>14,500,063.20</b>	<b>3.22</b>	<b>103,155.03</b>	<b>14,500,740.40</b>	<b>14,968,549.38</b>
<b>Asset-Backed Security</b>											
FORD CREDIT AUTO LEASE TRUST DTD 09/21/2018 3.300% 02/15/2022	34531LAE0	275,000.00	NR	Aaa	9/18/2018	9/21/2018	274,986.53	3.30	403.33	274,990.52	279,622.61
GMALT 2018-3 A4 DTD 09/26/2018 3.300% 07/20/2022	36256GAE9	275,000.00	AAA	Aaa	9/18/2018	9/26/2018	274,964.97	3.31	277.29	274,973.95	278,693.58
CARMAX AUTO OWNER TRUST DTD 07/25/2018 3.270% 03/15/2024	14313FAE9	180,000.00	AAA	NR	7/18/2018	7/25/2018	179,983.35	3.51	261.60	179,986.77	186,383.57
CNH 2018-B A4 DTD 09/26/2018 3.370% 05/15/2024	12596EAD6	725,000.00	NR	Aaa	9/18/2018	9/26/2018	724,942.51	3.37	1,085.89	724,949.47	750,231.45
GMCAR 2018-4 A4 DTD 10/10/2018 3.320% 06/16/2024	38013FAE1	400,000.00	AAA	Aaa	10/2/2018	10/10/2018	399,986.08	3.32	553.33	399,988.60	415,953.24
WORLD OMNI AUTO RECEIVABLES TR DTD 08/01/2018 3.270% 09/15/2024	98163EAE6	300,000.00	AAA	NR	7/24/2018	8/1/2018	299,981.34	3.27	436.00	299,985.06	310,143.81
CCCIT 2018-A6 A6 DTD 08/17/2018 3.210% 12/07/2024	17305EGR0	300,000.00	NR	Aaa	8/10/2018	8/17/2018	299,949.18	3.21	3,049.50	299,964.04	312,516.27
CARMX 2019-3 A4 DTD 07/30/2019 2.300% 04/15/2025	14315PAE5	500,000.00	AAA	NR	7/24/2019	7/30/2019	499,813.85	2.31	511.11	499,818.18	505,096.45
JDOT 2018-B A4 DTD 07/25/2018 3.230% 06/15/2025	47788EAD0	165,000.00	NR	Aaa	7/18/2018	7/25/2018	164,955.68	3.24	236.87	164,963.33	169,657.95
COMET 2019-A3 A DTD 09/05/2019 2.060% 08/15/2028	14041NFV8	1,000,000.00	AAA	NR	8/28/2019	9/5/2019	999,734.10	2.07	1,487.78	999,736.85	994,043.20
<b>Security Type Sub-Total</b>		<b>4,120,000.00</b>					<b>4,119,297.59</b>	<b>2.90</b>	<b>8,302.70</b>	<b>4,119,356.77</b>	<b>4,202,342.13</b>

Managed Account Detail of Securities Held

Security Type/Description			S&P	Moody's	Trade	Settle	Original	YTM	Accrued	Amortized	Market
Dated Date/Coupon/Maturity	CUSIP	Par	Rating	Rating	Date	Date	Cost	at Cost	Interest	Cost	Value
Managed Account Sub Total		49,593,590.29					49,016,571.41	2.76	200,188.38	49,412,994.53	50,560,757.99
Securities Sub-Total		\$49,593,590.29					\$49,016,571.41	2.76%	\$200,188.38	\$49,412,994.53	\$50,560,757.99
Accrued Interest											\$200,188.38
Total Investments											\$50,760,946.37

Bolded items are forward settling trades.

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**IMPORTANT DISCLOSURES**

This material is based on information obtained from sources generally believed to be reliable and available to the public; however, PFM Asset Management LLC cannot guarantee its accuracy, completeness or suitability. This material is for general information purposes only and is not intended to provide specific advice or a specific recommendation. All statements as to what will or may happen under certain circumstances are based on assumptions, some, but not all of which, are noted in the presentation. Assumptions may or may not be proven correct as actual events occur, and results may depend on events outside of your or our control. Changes in assumptions may have a material effect on results. Past performance does not necessarily reflect and is not a guaranty of future results. The information contained in this presentation is not an offer to purchase or sell any securities.

- Market values that include accrued interest are derived from closing bid prices as of the last business day of the month as supplied by Interactive Data, Bloomberg, or Telerate. Where prices are not available from generally recognized sources, the securities are priced using a yield based matrix system to arrive at an estimated market value.
- In accordance with generally accepted accounting principles, information is presented on a trade date basis; forward settling purchases are included in the monthly balances, and forward settling sales are excluded.
- Performance is presented in accordance with the CFA Institute's Global Investment Performance Standards (GIPS). Unless otherwise noted, performance is shown gross of fees. Quarterly returns are presented on an unannualized basis. Returns for periods greater than one year are presented on an annualized basis. Past performance is not indicative of future returns.
- Bank of America/Merrill Lynch Indices provided by Bloomberg Financial Markets.
- Money market fund/cash balances are included in performance and duration computations.
- Standard & Poor's is the source of the credit ratings. Distribution of credit rating is exclusive of money market fund/LGIP holdings.
- Callable securities in the portfolio are included in the maturity distribution analysis to their stated maturity date, although, they may be called prior to maturity.
- MBS maturities are represented by expected average life.

## GLOSSARY

- **ACCRUED INTEREST:** Interest that is due on a bond or other fixed income security since the last interest payment was made.
- **AGENCIES:** Federal agency securities and/or Government-sponsored enterprises.
- **AMORTIZED COST:** The original cost of the principal of the security is adjusted for the amount of the periodic reduction of any discount or premium from the purchase date until the date of the report. Discount or premium with respect to short-term securities (those with less than one year to maturity at time of issuance) is amortized on a straight line basis. Such discount or premium with respect to longer-term securities is amortized using the constant yield basis.
- **BANKERS' ACCEPTANCE:** A draft or bill or exchange accepted by a bank or trust company. The accepting institution guarantees payment of the bill as well as the insurer.
- **COMMERCIAL PAPER:** An unsecured obligation issued by a corporation or bank to finance its short-term credit needs, such as accounts receivable and inventory.
- **CONTRIBUTION TO DURATION:** Represents each sector or maturity range's relative contribution to the overall duration of the portfolio measured as a percentage weighting. Since duration is a key measure of interest rate sensitivity, the contribution to duration measures the relative amount or contribution of that sector or maturity range to the total rate sensitivity of the portfolio.
- **DURATION TO WORST:** A measure of the sensitivity of a security's price to a change in interest rates, stated in years, computed from cash flows to the maturity date or to the put date, whichever results in the highest yield to the investor.
- **EFFECTIVE DURATION:** A measure of the sensitivity of a security's price to a change in interest rates, stated in years.
- **EFFECTIVE YIELD:** The total yield an investor receives in relation to the nominal yield or coupon of a bond. Effective yield takes into account the power of compounding on investment returns, while nominal yield does not.
- **FDIC:** Federal Deposit Insurance Corporation. A federal agency that insures bank deposits to a specified amount.
- **INTEREST RATE:** Interest per year divided by principal amount and expressed as a percentage.
- **MARKET VALUE:** The value that would be received or paid for an investment in an orderly transaction between market participants at the measurement date.
- **MATURITY:** The date upon which the principal or stated value of an investment becomes due and payable.
- **NEGOTIABLE CERTIFICATES OF DEPOSIT:** A CD with a very large denomination, usually \$1 million or more, that can be traded in secondary markets.
- **PAR VALUE:** The nominal dollar face amount of a security.

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## GLOSSARY

- **PASS THROUGH SECURITY:** A security representing pooled debt obligations that passes income from debtors to its shareholders. The most common type is the mortgage-backed security.
- **REPURCHASE AGREEMENTS:** A holder of securities sells these securities to an investor with an agreement to repurchase them at a fixed price on a fixed date.
- **SETTLE DATE:** The date on which the transaction is settled and monies/securities are exchanged. If the settle date of the transaction (i.e., coupon payments and maturity proceeds) occurs on a non-business day, the funds are exchanged on the next business day.
- **TRADE DATE:** The date on which the transaction occurred; however, the final consummation of the security transaction and payment has not yet taken place.
- **UNSETTLED TRADE:** A trade which has been executed; however, the final consummation of the security transaction and payment has not yet taken place.
- **U.S. TREASURY:** The department of the U.S. government that issues Treasury securities.
- **YIELD:** The rate of return based on the current market value, the annual interest receipts, maturity value, and the time period remaining until maturity, stated as a percentage on an annualized basis.
- **YTM AT COST:** The yield to maturity at cost is the expected rate of return based on the original cost, the annual interest receipts, maturity value, and the time period from purchase date to maturity, stated as a percentage on an annualized basis.
- **YTM AT MARKET:** The yield to maturity at market is the rate of return based on the current market value, the annual interest receipts, maturity value, and the time period remaining until maturity, stated as a percentage on an annualized basis.