AGENDA

REGULAR RETIREMENT COMMITTEE MEETING CITY OF DELRAY BEACH GENERAL EMPLOYEES' RETIREMENT PLAN THURSDAY, MAY 21, 2020 at 1:00 PM

Dial-in Number: (352) 448-9762 / Conference ID: 547 195 758#

This meeting will be conducted exclusively using electronic communications media technology in accordance with Executive Order 20-69. Participants, including the public, may join the meeting by telephone using the above Dial-in Number and Conference ID. You may submit a public comment via email (include your name, address, and comment) to the Pension Administrator at castronovol@mydelraybeach.com by no later than 5:00 p.m. Wednesday, May 20, 2020. NOTE: your full email will be reviewable by the Board of Trustees and will be made part of the record. For additional information or if you have difficulty accessing the virtual meeting, please send an email to the Pension Administrator. Backup material for Agenda items are available from the Pension Administrator via email if requested by no later than 5:00 p.m. Wednesday, May 20, 2020.

1. Call to Order, Roll Call, Meeting Instructions, Agenda Adoption

A. Agenda Adoption – May 21, 2020

2. Public Comments

3. Consent Agenda

- A. February 20, 2020 Regular Meeting Minutes
- B. Ratification of Plan Expenses and Termination Refunds
- C. Approval/Ratification of New Retirement/DROP/Vested/Death Annuities

4. Gabriel, Roeder, Smith & Company – Jeffrey Amrose

- A. Actuarial Valuation Report as of October 1, 2019
- B. Comparison of FRS vs. General Employees' Retirement Plan actuarial assumptions

5. AndCo Consulting – Brendon Vavrica

- A. Portfolio Performance Review Quarter End March 31, 2020
- B. Flash Report April 2020 and May 2020 Estimate
- C. Review Near Term Cash Requirements and possible Asset Rebalancing
- D. Primer on Infrastructure Investments
- E. Term Asset-backed Securities Loan Facility (TALF)

6. Pension Administrator Report – Lisa Castronovo

7. Other Business

A. September 30, 2019 Audit Report - provided by Caler, Donten, Levine, Cohen, Porter & Veil

8. Adjournment

IN ACCORDANCE WITH THE AMERICAN WITH DISABILITIES ACT OF 1990, PERSONS NEEDING A SPECIAL ACCOMMODATION TO PARTICIPATE IN THIS PROCEEDING SHOULD CONTACT THE PLAN ADMINISTRATOR NO LATER THAN TWO (2) DAYS PRIOR TO THE PROCEEDING, TELEPHONE (561) 243-4707 FOR ASSIS TANCE; IF HEARING IMPAIRED, TELEPHONE THE FLORIDA RELAY SERV IC E NUMBERS (800) 955-8771 (TDD) OR (800) 955-8770 (VOICE) FOR ASSISTANCE. NOTICE IS GIVEN TO ALL INTERESTED PARTIES THAT IF ANY PERSON DECIDES TO APPEAL ANY DECISION MADE AT THE FORTHCOMING MEETING OF THE CITY OF DELRAY BEACH GENERAL EMPLOYEES' RETIREMENT PLAN, SUCH PERSON WILL NEED A RECORD OF THE PROCEEDINGS CONDUCTED AT SUCH MEETING AND FOR SUCH PURPOSE, HE OR SHE MAY NEED TO ENSURE THAT A VERBATIM RECORD OF THE PROCEEDING IS MADE, WHICH RECORDS INCLUDE THE TESTIMONY AND EVIDENCE UPON WHICH ANY APPEAL MAY BE BASED. FLORIDA STATUTE, SECTION 286.0105.

STATE OF FLORIDA

OFFICE OF THE GOVERNOR EXECUTIVE ORDER NUMBER 20-69

(Emergency Management – COVID-19 – Local Government Public Meetings)

WHEREAS, on March 1, 2020, I issued Executive Order 20-51 directing the Florida Department of Health to issue a Public Health Emergency as a result of COVID-19; and

WHEREAS, on March 1, 2020, the State Surgeon General and State Health Officer declared a Public Health Emergency exists in the State of Florida as a result of COVID-19; and

WHEREAS, on March 9, 2020, I issued Executive Order 20-52 declaring a state of emergency for the entire State of Florida as a result of COVID-19; and

WHEREAS, on March 16, 2020, President Donald J. Trump and the Centers for Disease Control and Prevention ("CDC") issued the "15 Days to Slow the Spread" guidance advising individuals to adopt far-reaching social distancing measures, such as working from home and avoiding gatherings of more than 10 people; and

WHEREAS, on March 17, 2020, I wrote a letter to Attorney General Ashley Moody seeking an advisory opinion regarding concerns raised by local government bodies about their ability to hold meetings through teleconferencing and other technological means in order to protect the public and follow the CDC guidance regarding social distancing; and

WHEREAS, on March 19, 2020, Attorney General Ashley Moody delivered an opinion to me indicating that certain provisions of Florida law require a physical quorum be present for local government bodies to conduct official business, and that local government bodies may only conduct meetings by teleconferencing or other technological means if either a statute permits a quorum to be present by means other than in person, or that the in person requirement for constituting a quorum is lawfully suspended during the state of emergency; and

WHEREAS, it is necessary and appropriate to take action to ensure that COVID-19 remains controlled, and that residents and visitors in Florida remain safe and secure;

NOW, THEREFORE, I, RON DESANTIS, as Governor of Florida, by virtue of the authority vested in me by Article IV, Section (1)(a) of the Florida Constitution, Chapter 252, Florida Statutes, and all other applicable laws, promulgate the following Executive Order to take immediate effect:

Section 1. I hereby suspend any Florida Statute that requires a quorum to be present in person or requires a local government body to meet at a specific public place.

Section 2. Local government bodies may utilize communications media technology, such as telephonic and video conferencing, as provided in section 120.54(5)(b)2., Florida Statutes.

Section 3. This Executive Order does not waive any other requirement under the Florida Constitution and "Florida's Government in the Sunshine Laws," including Chapter 286, Florida Statutes.

Section 4. This Executive Order shall expire at the expiration of Executive Order 20-52, including any extension.



IN TESTIMONY WHEREOF, I have hereunto set my hand and caused the Great Seal of the State of Florida to be affixed, at Tallahassee, this 20th day of March, 2020

RON DESANTIS, GOVERNOR

ATTEST:

FAUTUM JUL ECRETARY OF STATE 2020 MAR 20 AM 9: 38

Item 1

Call to Order, Roll Call, Meeting Instructions, Agenda Adoption

AGENDA

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RON DESANTIS, GOVERNOR

ATTEST:

FAUTUM JUL ECRETARY OF STATE 2020 MAR 20 AM 9: 38

Item 2 Public Comments

(No backup for this Item)

Item 3 Consent Agenda

Item 3.A. February 20, 2020 Regular Meeting Minutes

MINUTES REGULAR RETIREMENT COMMITTEE MEETING CITY OF DELRAY BEACH GENERAL EMPLOYEES' RETIREMENT PLAN FEBRUARY 20, 2020

1. Call to Order

Chair James Smith called the meeting to order at 1:00 p.m.

The Retirement Committee ("Committee") reviewed the Committee's recently adopted electronic device participation policy and discussed if they would accept Mr. Frankel's attendance at the Committee meeting via telephone.

MOTION made by Mr. MacManus, seconded by Ms. Kalka, to allow Mr. Frankel to attend the February 20, 2020 Committee meeting via telephone. In a voice vote by the members present, **Motion** passed 4-0.

Roll Call

Committee Members present: Chair James Smith, William Ellingsworth, Adam Frankel (via telephone; departed at 2:00 p.m.), Marie Kalka, and Thomas MacManus (departed at 3:18 p.m.).

Also present: Brendon Vavrica (AndCo Consulting), Janice Rustin (Lewis, Longman & Walker), City of Delray Beach ("DB") Assistant City Attorney Kelly Brandon, Jeff Amrose (Gabriel, Roeder, Smith & Company ("GRS')), and Pension Administrator Lisa Castronovo.

Agenda Adoption

MOTION made by Mr. MacManus, seconded by Mr. Ellingsworth, to adopt the February 20, 2020 Agenda. In a roll call vote, **Motion** passed 5-0.

2. PUBLIC COMMENTS

There were no public comments.

3. CONSENT AGENDA

- A. November 21, 2019 Regular Meeting Minutes
- B. January 30, 2020 Workshop Minutes
- C. Investment Policy
- D. NFP Retirement, Inc. Agreement
- E. Information on SECURE Act
- F. Fiduciary Liability Insurance
- G. Ratification of Plan Expenses and Termination Refunds
- H. Approval/Ratification of New Retirement/DROP/Vested/Death Annuities
- I. Ratification of Bank Deposits

Agenda Item 3.C. Investment Policy was pulled and renumbered 3.1. Agenda Item 3.G. Ratification of Plan Expenses and Termination Refunds was pulled and renumbered 3.2.

MOTION made by Mr. Ellingsworth, seconded by Ms. Kalka, to approve the Consent Agenda as amended to remove Items 3.C. and 3.G. In a roll call vote, **Motion** passed 5-0.

3.1 Investment Policy

The Investment Policy was revised to permit out-of-state travel but limited to one U.S. continental trip per calendar year. There was a brief discussion regarding whether or not a dollar limit should be placed on the out-of-state travel. The Committee agreed that they would adopt the Investment Policy as presented but also wanted to adopt a travel policy.

MOTION made by Mr. Ellingsworth, seconded by Mr. MacManus, to adopt the Investment Policy. In a roll call vote, **Motion** passed 5-0.

MOTION made by Mr. Ellingsworth, seconded by Mr. Frankel, to have Ms. Castronovo present a travel policy to the Committee as its next regular meeting. In a roll call vote, **Motion** passed 5-0.

3.2 Ratification of Plan Expenses and Termination Refunds

Mr. MacManus questioned the calculation of the quarterly fee charged by Garcia Hamilton & Associates noting that it appeared to be calculated incorrectly.

MOTION made by Mr. MacManus, seconded by Mr. Ellingsworth, to have Ms. Castronovo confirm that the Garcia Hamilton & Associates charges are correct. In a roll call vote, **Motion** passed 5-0.

4. UPDATE ON PROPOSED STATE LAW - Adam Frankel

Mr. Frankel reported that during January's Palm Beach County Days in Tallahassee, he met with Florida State Representative Michael Caruso to discuss a proposed state law that would allow all municipal pension boards the option of buying and selling equities, fixed income, real estate and other alternative investments directly from in-house Florida Retirement System money managers. Mr. Caruso requested Mr. Frankel to put together a package for his review and consideration.

Chair Smith asked Mr. Frankel if he had the opportunity to meet with the Chairs of the Police Officers' and Firefighters' Boards of Trustees, Police Union Representative Vincent Gray, PBC League of Cities Executive Director Richard Radcliffe, and FPPTA's Dwight Mattingly & Peter Hapgood. Mr. Frankel said he was waiting for a bullet-point summary of the proposal. Ms. Kalka volunteered to work with Ms. Castronovo to draft a bullet-point package for delivery to Representative Caruso via his legislative aide, Beth Lerner.

Chair Smith thanked Mr. Frankel for his efforts, and in recognition of Mr. Frankel's busy schedule, offered to do the "grunt" work necessary to move the project forward. Mr. Frankel accepted Chair Smith's offer. Mr. Frankel said he would be happy to meet with anyone later in the process should such a meeting be needed.

5. PENSION ADMINISTRATOR REPORT - Lisa Castronovo

Ms. Castronovo provided information as shared by Salem Trust regarding their transition to TMI Trust Company. Ms. Castronovo also provided a monthly detail of actual administrative and investment-related expenses incurred in the current fiscal year through mid-February 2020.

Ms. Castronovo presented the idea of the Board acquiring a Board-specific credit card primarily for her use when registering the Committee members for conferences and making their travel arrangements (hotel reservations, flight reservations, etc.). Before proceeding, however, Ms. Castronovo said she wanted to discuss the idea further with the City's Assistant Finance Director and would provide a follow-up report at the Committee's next regular meeting.

MOTION made by Mr. Frankel, seconded by Mr. MacManus, to approve the acquisition of a Committee-specific credit card subject to approval by the Finance Department. In a roll call vote, **Motion** passed 5-0.

Ms. Castronovo said the idea of "paperless" meetings had been raised once again and so she wanted to know the Committee members' opinions regarding the idea. Two members noted they already used electronic devices, either their own or City-issued ones, to view the Committee meeting backup material so while they supported paperless meetings, they would not need Plan-purchased devices. Discussion continued as to who would pay for the devices, specifically the Plan or the City.

MOTION made by Mr. Frankel, seconded by Mr. MacManus, that a Committee member can request the Plan purchase a laptop/tablet for them but only to be used exclusively for Committee business. In a roll call vote, **Motion** passed 5-0.

Chair Smith noted that prior pension administrators were notaries, but Ms. Castronovo was not.

MOTION made by Mr. MacManus, seconded by Mr. Ellingsworth, that Ms. Castronovo acquire her notary certification with all notary fees paid for by the City. In a roll call vote, **Motion** passed 5-0.

6. GABRIEL, ROEDER, SMITH & COMPANY - Jeffrey Amrose

A. Actuarial Funding Policy

Mr. Amrose presented an updated draft actuarial funding policy based on information provided to him by the Committee at their November Committee meeting.

MOTION made by Mr. MacManus, seconded by Mr. Ellingsworth, to adopt the Actuarial Funding Policy as presented. In a voice vote by the members present, **Motion** passed 4-0.

B. New Mortality Tables

Mr. Amrose reported that the Florida Retirement System (FRS) changed its mortality table effective July 1, 2019. As mandated by State law, all local law pension funds must adopt the mortality table used by FRS. Therefore, the City's three plans could adopt the new mortality tables effective October 1, 2019 or October 1, 2020. Mr. Amrose expected use of the new mortality tables would result in very small gains for each plan.

7. ANDCO CONSULTING - Brendon Vavrica

A. Portfolio Performance Review – Quarter End December 31, 2019 Report made part of these Minutes.

Mr. Vavrica presented the Investment Performance Review Report for quarter end December 31, 2019 noting that the quarter was unequivocally phenomenal. The excellent returns were due in part to decreasing fears about a United States trade war with China. Mr. Vavrica continued that for the first time in 2019, the yield curve did not have a dip but rather had a steady incline. The Retirement System's rate of return, net of fees, for quarter end December 31, 2019 was 6.64% and for the twelve months ended December 31, 2019 was 23.33%. Mr. Vavrica cautioned that the optimism experienced in the fourth quarter of 2019 could turn to pessimism due to fears over the coronavirus influenza sweeping through China and entering the United States.

Mr. MacManus asked Mr. Vavrica if Garcia Hamilton had changed its outlook regarding future market returns to which Mr. Vavrica responded they had not. Mr. MacManus and Chair Smith both said they were not happy with Garcia Hamilton's (GH) outlook. Mr. Vavrica was asked to contact GH letting them know their performance was not in compliance with General's investment policy and that the Board would be monitoring their performance for future compliance.

Mr. Vavrica shared a chart showing annual asset class performances over the past 15 years which demonstrated quite clearly the reason for diversification since not one single asset class has consistently ever performed at the top, middle or bottom. Mr. Vavrica also shared a graph showing how markets perform in election years and the years immediately after election years.

B. Flash Report – January 2020

Report made part of these Minutes.

Mr. Vavrica reviewed the returns for January 2020 noting that they were quite poor for the markets in general. The Plan's overall return for January was -0.63% compared to the benchmark of 0.51%. Mr. Vavrica explained that the poor performance for January was not cause for alarm since it was only one month.

C. Review Near Term Cash Requirements and Possible Asset Rebalancing Mr. Vavrica said the Plan's cash needs for the next three months' worth of benefit payments, DROP deposits and invoices was approximately \$2M. However, since the necessary funds were already in the Vanguard Total Stock Market Index fund within the receipts and disbursements account, there was no need to transfer money into the account.

Chair Smith asked if an Accounts Payable Requirements Report could be generated by City staff. By generating an Accounts Payable Requirement Report, Chair Smith said the Committee would be able to minimize cash on hand. Ms. Kalka volunteered to take on the project.

D. Asset Allocation Discussion

Mr. Vavrica reported he discussed private equity and private debt investments with the Firefighters' Board with them being more interested in private debt investing rather than private equity investing. However, they did not want to move forward with any private debt investing until they knew how the General Employees' Committee or the Police Officers' Board wanted to proceed.

Mr. Vavrica provided a handout with various asset class mixes some of which included infrastructure investments. Mr. Vavrica explained that infrastructure investing was similar to real estate investing as they shared similar risk and return profiles and were less volatile than equity investments. Chair Smith said he liked the idea of infrastructure investing since it was a growth area of investing given the need for extensive infrastructure repair throughout the United States. Chair Smith asked Mr. Vavrica to prepare and provide a packet about infrastructure investments for the next meeting for the Committee's consideration and discussion at a future meeting.

8. OTHER BUSINESS

10. ADJOURNMENT

No other business was discussed.

9. AGENDA ITEM SUGGESTIONS FOR MAY 21, 2020 COMMITTEE MEETING

Chair Smith noted the following items will be on the May 21, 2020 meeting agenda: October 1, 2019 actuarial valuation report, new federal and state legislation affecting public pension plans, attendance policy, enhanced multiplier ordinance, complete pension ordinance revision, administrative travel policy, credit card and policy and the FiduciaryFirst Quarterly Reports for the periods ending December 31, 2019 and March 31, 2020.

The meeting adjourned at 3:20 p.m. James Smith, Chair Date

Item 3.B. Ratification of Plan Expenses & Termination Refunds

GENERAL EMPLOYEES' RETIREMENT PLAN Plan Expenses May 21, 2020 Regular Committee Meeting

February 2020	Amount Description
Lewis, Longman & Walker	368.00 Legal Services - January 2020
March 2020	
AndCo	8,357.18 Qtr end 3/31/2020
City of Delray Beach	2,950.21 Pension Administrator - February 2020
May 2020	
City of Delray Beach	2,950.21 Pension Administrator - March 2020
Gabriel, Roeder, Smith & Company	4,354.00 Actuarial Consulting
Lewis, Longman & Walker	2,687.50 Legal Services - Feb - April 2020
Relation Insurance	15,311.00 Fiduciary Liability Insurance 2020/21
BNYMellon	11,790.71 Qtr end 6/30/2020
Garcia Hamilton & Associates	14,113.87 Qtr end 3/31/2020
RhumbLine	6,093.00 Qtr end 3/31/2020

\$ 68,975.68 TOTAL

FEBRUARY 2020



515 North Flagler Drive, Suite 1500 West Palm Beach, FL 33401 Tel 561-640-0820 Fax 561-640-8202 Tax ID No. 65-0500793

City of Delray Beach Attn: Pension Dept. 100 NW 1st Ave Delray Beach, FL 33444 February 10, 2020 'Invoice No. JWL-134158 '

\$368.00

2,369.00

-2,369.00

\$368.00

JDR	Services Attention to Fiduciary First agreement; review proposed revisions from vendor.	Hours 1.00	Amount 230.00
JDR	Attention to Fiduciary First agreement; finalize and transmit agreement for execution.	0.60	138.00
	Summary of Services		
	Rate	Hours	Amount
Rustin,	Janice D. 230.00	1.60	368.00
Services	S	1.60	\$368.00
	JDR JDR Rustin,	JDR Attention to Fiduciary First agreement; review proposed revisions from vendor. JDR Attention to Fiduciary First agreement; finalize and transmit agreement for execution. Summary of Services Rate	Services JDR Attention to Fiduciary First agreement; review proposed revisions from vendor. JDR Attention to Fiduciary First agreement; finalize and transmit agreement for execution. Summary of Services Rate Hours Rustin, Janice D. 230.00 1.60

Total for Services and Expenses

Payments Since Last Invoice

Previous Balance

Amount Due

MARCH 2020

MONIES OWED BY PENSION FUNDS TO CITY FOR PENSION ADMINISTRATORS

DOH

Pension Administrators: LISA CASTRONOVO 5/29/2018

MONIES OWED BY PENSION FUNDS TO CITY FOR PENSION ADMINISTRATOR

Position	Buc	lget:
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ANNUAL MONTHLY

Salary	83,137.00
FICA	5,154.49
Medicare	1,205.49
Pension	7,005.12
Medical Ins	9,253.14
Life Ins	214.50
LTD	171.68
Unemploymen	t 35.62
EAP	31.72
TOTAL	106,208.76
	8,850.73

LISA CASTRONOVO:		ANNUAL	MONTHLY
			Beg. 10/1/19
F	FIRE	\$35,402.57	\$2,950.21
F	POLICE	\$35,402.57	\$2,950.21
	GENERAL	\$35,402,57	\$2.950.21



AndCo PLEASE NOTE OUR TEMPORARY ADDRESS:

Date Invoice # 2/28/2020 34457

201 N. New York Ave. Suite 300 Winter Park, Fl 32789

Bill To:

Delray Beach General Lisa Castronovo Pension Administrator City of Delray Beach 100 NW 1st Avenue

Description		Amount
Consulting Services and Performance Evaluation, Billed	Quarterly (January, 2020)	2,785.73
Consulting Services and Performance Evaluation, Billed	Quarterly (February, 2020)	2,785.73
Consulting Services and Performance Evaluation, Billed	Quarterly (March, 2020)	2,785.72
Executive Summary Report for Prior Quarter End.		
We look forward to continuing to provide 100%		
independent investment consulting and putting clients first!	Balance Due	\$8,357.18

MAY 2020

MONIES OWED BY PENSION FUNDS TO CITY FOR PENSION ADMINISTRATORS

DOH

Pension Administrators: LISA CASTRONOVO 5/29/2018

MONIES OWED BY PENSION FUNDS TO CITY FOR PENSION ADMINISTRATOR

Position	Buc	lget:
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ANNUAL MONTHLY

Salary	83,137.00
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Pension	7,005.12
Medical Ins	9,253.14
Life Ins	214.50
LTD	171.68
Unemploymen	t 35.62
EAP	31.72
TOTAL	106,208.76
	8,850.73

LISA CASTRONOVO:		ANNUAL	MONTHLY
			Beg. 10/1/19
F	FIRE	\$35,402.57	\$2,950.21
F	POLICE	\$35,402.57	\$2,950.21
	GENERAL	\$35,402,57	\$2.950.21



Suite 505 Ft. Lauderdale, Florida 33301-1804 (954) 527-1616

Invoice

Date **Invoice** 4/8/2020 454478

Bill To:

Please Remit To:

Attention: Ms. Lisa Castronovo Pension Administrator City of Delray Beach

Finance Department 100 NW 1st Avenue

Delray Beach, Florida 33444

Dept. # 78009 Gabriel, Roeder, Smith & Company PO Box 78000

Detroit, Michigan 48278-0009

Federal Tax ID

38-1691268

Client 103030 **Amount**

For services rendered through 3/31/2020

1. Charges since 2/29/2020 for preparation of 10/1/2019 Actuarial Valuation Report and Employee Benefit Statements; total charges to date equal \$5,247

3,904.00

2. Service purchase calculation for: Arbeau

450.00

Amount Due \$4,354



515 North Flagler Drive, Suite 1500 West Palm Beach, FL 33401 Tel 561-640-0820 Fax 561-640-8202 Tax ID No. 65-0500793

City of Delray Beach Attn: Pension Dept. 100 NW 1st Ave Delray Beach, FL 33444 April 6, 2020 **Statement** JWL

CLIENT: 1187 - City of Delray Beach

Re: 012 General Pension Board Matters

Total for Services and Expenses \$0.00

Previous Balance 2,687.50

Payments Since Last Invoice -0.00

Amount Due \$2,687.50

Open Invoices for this Matter

 Date
 Invoice No.
 Amount Billed Amount Paid Amount Due
 Amount Due

 03/10/20
 134691
 2,687.50
 0.00
 2,687.50

 Outstanding Amount Due:
 2,687.50
 2,687.50

Current and Outstanding Amount Due:

\$2,687.50

Relation Insurance Services of Florida, Inc.

700 Central Parkway Stuart, FL 34994

> City of Delray Beach 100 NW 1st Avenue Delray Beach, FL 33444

INVOICE -

Customer	City of Delray Beach
Acct#	20516
Date	02/27/2020
Customer Service	Mary Sundeen
Page	1 of 1

Payment Information		
Invoice Summary	\$ 15,311.00	
Payment Amount		
Payment for:	Invoice#1177588	
SFD31210482-05		

Thank You

Please detach and return with payment

Customer: City of Delray Beach

nvoice	Effective	Transaction	Description	Amount
			Policy #SFD31210482-05 03/01/2020-03/01/2021	
- 1			AM1 - Hudson Insurance Company	
177588	03/01/2020	Renew policy	ERISA - General EE's Retirement Plan	15,311.
		· · · · · · · · · · · · · · · · · · ·	Due Date: 3/1/2020	10,011
			-	Total
				0.45.044

\$ 15,311.00

Thank You

Relation Insurance Services of Florida, Inc.	(772)287-7650	Date
700 Central Parkway Stuart, FL 34994		02/27/2020
Sluari, FL 34994		



Lisa Castronovo Pension Administrator City of Delray Beach 100 NW 1st Avenue Delray Beach, FL 33444

Delray Beach General Employees' Retirement

This fee is calculated in accordance with terms set forth in the agreement between the Manager and Client.

Billing Period	04/01/2020 - 06/30/2020
Account Name	Amount due
City of Delray Beach General Employees' Retirement Plan	\$ 11,790.71
Total:	\$ 11,790.71

Total Due for Current Period: \$11,790.71

The following is a statement of transactions pertaining to your account(s).

For any questions pertaining to this bill, please contact the Billing Department at (617) 382-8210 or email us at Billing@bnymellon.com. Thank you.

Remittance Slip

Mellon Investments Corporation

A/C #: 000010-4388

 Invoice Number:
 126705
 Billing Period:
 04/01/2020 - 06/30/2020

 Invoice Date:
 04/22/2020
 Account Number:
 BOS353

Amount Due: \$ 11,790.71

Please Wire Transfer To: Make Check Payable To:

BNY Mellon, N.A.

ABA # 011-00-1234

SWIFT IRVTUS3N

Further Credit to:

Mellon Investments Corporation
Box 81249

Woburn, MA 01813-1249

Please reference invoice number in wire transmission

\$ 11,790.71

Billing Detail Billing period: 04/01/2020 - 06/30/2020					Invoice date: 04/22/2020
Management fee					0-4/22/2020
S		DOGGE TO A L	3.5		
Activity Delray Beach General Date of Delray Beach General De		ment Plan - BOS353: Equity Inco	me Management SM		Basis in USD
	31/2020				11,790,705.92
Partial Basis: (32.23% of t	otal)				\$ 11,790,705.92
Aggregation participants no	t billed on this Invoic	ce			Basis in USD
Bases that are not billed on the	is Invoice				24,789,237.31
Total:	is invoice				\$ 24,789,237.31
Total Assets/Basis in USD -					<u>\$ 36,579,943.23</u>
Annual Fee Calculation in U					isted by: 90 / 360)
Fee Schedule		Annual (%)	Applied Assets	Annual Fee	Periodic Fee
0.00 and abo	ove	0.000000	36,579,943.23	0.00	0.00
Totals:			\$ 36,579,943.23		
Annual Fee Calculation in U	SD - From: 04/01/20	20 To: 06/30/2020		(adju	sted by: 90 / 360)
Fee Schedule	Tiers	Annual (%)	Applied Assets	Annual Fee	Periodic Fee
0.00 up to	50,000,000.00	0.400000	36,579,943.23	146,319.77	36,579.94
50,000,000.00 and abo	ove	0.300000	0.00	0.00	0.00
Totals:			\$ 36,579,943.23	\$ 146,319.77	\$ 36,579.94
	Quarterly Net Fe	e Calculation in USD			
	-			ı	Quarterly Net Fee
	Retirement Plan -	ach General Employees' BOS353: Equity Income \$11,790,705.92 * 0.100000%)			11,790.71
	Net Fee:				<u>\$ 11,790.71</u>
	Aggregated Parti	cipant Fees in USD			
	Account Number	Account - Product			Allocated fee
	BOS353	City of Delray Beach General Em Income Management SM	ployees' Retirement Pl	an - Equity	11,790.71

Billing Detail Billing period: 04/01/2020 - 06/30/2020				Invoice date: 04/22/2020
	Aggregated Fee A			
	Account Number	Account - Product	Allocation	Allocated fee
	BOS353	City of Delray Beach General Employees' Retirement Plan - Equity Income Management SM Fees that are not billed on this Invoice	0.00%	11,790.71
		oned on this invoice		\$ 11,790.71
	Billing Summary			
	Management fee			\$ 11,790.71
	Total Current Ch	arges:		<u>\$ 11,790.71</u>

GARCIA HAMILTON ASSOCIATES, L.P.

INVOICE # 31971

5 HOUSTON CENTER 1401 McKinney, Suite 1600 Houston, TX 77010

TEL: (713) 853-2322

FAX: (713) 853-2308 WWW.GARCIAHAMILTONASSOCIATES.COM

April 2, 2020

DELRAY BEACH GENERAL EMPLOYEES' RETIREMENT SYSTEM (0740001797) drbg

Via email: Salemops@salemtrust.com

Nancy Graham: graham@mydelraybeach.com

*, * *

GARCIA HAMILTON & ASSOCIATES SUMMARY OF MANAGEMENT FEES

For The Period January 1, 2020 through March 31, 2020 Portfolio Value with Accrued Interest as of 01-31-20 Portfolio Value with Accrued Interest as of 02-29-20 Portfolio Value with Accrued Interest as of 03-31-20	29,123,980.27 29,370,068.57 _28,945,130.20
Average of 3 Months	\$ 29,146,393.01
Percent of Total	39.92

Brack	tets(000's)	Rates(%)			
50,000	- 50,000 -1,000,000	0.1800		0.080 % per annum 0.072 % per annum	9,979.90 4,133.96
Quarterly	Management	Fee		\$	14,113.87

TOTAL DUE AND PAYABLE \$ 14,113.87





Investment Advisory Fees for 1st Quarter 2020 Client: Delray Beach General Employees Pension Plan

Billable Assets:	10mdelra	4mdelray	6mdelray
Period Ending:	(RU1000GP)	(SP400P)	(RU1000VP)
01-31-2020	\$32,441,757	\$21,240,473	\$13,949,886
02-29-2020	30,236,536	19,226,235	12,601,393
03-31-2020	27,275,240	15,348,243	10,458,099
Average Assets:	\$29,984,511	\$18,604,984	\$12,336,459
Billable Assets:	\$60,925,954		
Fee Calculation:	Asset Tier	Rate (BPs)	Fee
	\$60,925,954	0.00040000	\$24,370
Total:	\$60,925,954		<u>\$24,370</u>
Annual Fee:			\$24,370
Quarterly Calculated Fee:			\$6,093
Total Quarterly Fee Due:			<u>\$6,093</u>
	10mdelra	4mdelray	6mdelray
Fee Allocation:	(RU1000GP)	(SP400P)	(RU1000VP)
Fee:	\$2,999	\$1,860	\$1,234

April 6, 2020

Invoice #: gdelray2020Q1

TERMINATION REFUNDS

GENERAL EMPLOYEES' RETIREMENT PLAN Termination Refunds May 21, 2020 Regular Committee Meeting

	Monthly
Name	Benefit
Gerstenkorn, Rhea-Lyn	\$ 15,284.57
Steenburg, Margaret	865.12
Stivers, Christine	2,150.15
Thomas, Derek	242.31 *
Thompson, Casetra	1,452.19

^{*} Backup not available due to method of delivery to Pension Administrator

CITY OF DELRAY BEACH GENERAL EMPLOYEES' RETIREMENT PLAN BENEFIT PAYMENT REQUEST FORM

	Section One Report of Plan Admini	istrator	
Plan Name:	Delray Beach General Employees' Retirement Plan	Account Number:	740003439
Participant Name:	Rhea-Lyn Gerstenkorn	Soc. Sec. Numbe	r: <u>***_**-3730</u>
Beneficiary/ Alternate Payee:	N/A	Soc. Sec. Numbe	r:
Relationship to Participant:	N/A	Date of Birth:	
Check Address of Payee:	544 SW Kabot Avenue Port St. Lucie, FL 34953		
Will tax form be sent to	o the address of Payee indicated above:	Yes X	No
If no, enter tax address	s:		
Death	n/Resignation ime to part time)	Event Date: Participation Date: Date of Birth	3/11/2020 5/24/2010 11/12/1980
Date benefits will com	nmence:	(or as soon as administratively prac	ctical thereafter)
Taxable Portion: \$13,486	Non-Taxable 2.72 Portion: \$ 0.00 Interes Section Two		\$ 15,284.57
	Distribution Request by	/ Payee	
Part A			
	e following distribution election:		
A DIR qualific	RECT ROLLOVER OF THE ENTIRE TAXABLE AMOUITIED TO RECEIVE AMOUTED THE PROPERTY OF THE PROPERTY OF THE RECEIVE AMOUTED THE PROPERTY OF THE PROPE	NT of my vested account balance to ny non-taxable amount paid to me in	an IRA or other tax- a lump sum.
A DIR IRA or	ECT ROLLOVER OF THE ENTIRE TAXABLE <u>AND</u> NO rother tax-qualified Plan designated in Part B of this Sec	N-TAXABLE AMOUNT of my vested ction Two.	account balance to an
A DIR an IR/ \$	ECT ROLLOVER OF THE FOLLOWING PORTION OF A or other tax-qualified Plan designated in Part B of this : (not less than \$500)	THE TAXABLE AMOUNT of my vestor Section Two:	ed account balance to
A DIR baland	RECT ROLLOVER OF THE FOLLOWING PORTION Coperate to an IRA or other tax-qualified Plan designated in Pathon (not less than \$500)	DF THE NON-TAXABLE AMOUNT of the state of this Section Two:	of my vested account
PORT	RECT ROLLOVER OF \$ or	% (not less than \$500) OF Tax-qualified Plan designated in Part E Tax withholding, if taxable distribution	THE TAXABLE 3 of this Section Two, is in excess of \$200)
A DIR	RECT ROLLOVER OF S or NON-TAXABLE PORTION of my vested account balance s Section Two, with the balance paid in a lump sum (less excess of \$200).	% (not less than \$500) OF T	HE TAXABLE
	3ACG35 UI \$200).	tax withouting,	40011

Part B (Complete this section if you	elect to receive distribution of your refund in other than a lump sum)
	gliffed plan designated below is a proper recipient plan for a direct rollover. I understand that the
Name of IRA/Tax-Qualified Plan:	Rollover IRA
Account Number:	HEREN COLLEGE
Name of Trustee/Custodian:	Statement while
For the Benefit of:	The equation I had been
Address to Send Direct Rollover:	the trade of the state of the s
	THE WAY WANT TO SEE THE PARTY OF THE PARTY O
• For and in consideration of pa	ents (Payee should read the statements and sign below) syment of my vested benefit amount, I hereby release the Plan, the Trust, the Plan Sponsor, the
 I understand I should consult I certify that my social securit my full legal name is provided I understand this election sup 	ustodian from any further liability. my professional tax advisor about this distribution due to the complexity of the tax laws you number shown on this application for benefits is my correct taxpayer identification number and lin Section One. ersedes any previous election made under this Plan. g all future monthly benefits should I elect to receive a refund of my contributions.
Signature of Payee (Required)	1/2020 Date
INTERNAL REVENUE SERVICE SPEC	CIAL TAX NOTICE REGARDING PLAN PAYMENTS
In particular, the Special Tax Notice expl unless you elect a direct roll-over of you have not received the Special Tax Notice	I Tax Notice Regarding Plan Payments" before deciding how to receive benefits from this Plan. ains that 20% of your Plan distribution is required to be withheld for federal income tax purposes in Plan benefits to another employer plan or an individual retirement arrangement (IRA). (If you see, request it from the Pension Administrator.) ovisions of the Special Tax Notice Regarding Plan Payments.
PAYEE'S CERTIFICATION - WAIVER	OF 30-DAY WAITING PERIOD
I wish to have my distribution from the required between the date the Special my disbursement is implemented.	Plan made as soon as possible. Therefore, I hereby waive the 30-day time period otherwise Fax Notice Regarding Plan Payments was provided to me and the date my election regarding
In connection with this waiver, I hereby	
with the distribution options available to	al Tax Notice Regarding Plan Payments informing me of some of the tax implications associated me. I understand that I am entitled to a reasonable period of not less than 30 days from the till the date my distribution is actually implemented to decide whether or not to elect a direct
1 Ma- Lem BX	9/2/2020

Signature of Payee

Date

CITY OF DELRAY BEACH GENERAL EMPLOYEES' RETIREMENT PLAN BENEFIT PAYMENT REQUEST FORM

		Section Report of Plan A			
Plan Name:	Delray Beach General E	mployees' Retirement	Plan	Account Number:	3040002181
Participant Name:	Margaret Steenburg			Soc. Sec. Number	: ***-**-0907
Beneficiary/ Alternate Payee:	N/A			Soc. Sec. Number	:
Relationship to Participant:	N/A			Date of Birth:	
Check Address of Payee:	1630 NE 42nd Ct Pompano Beach, FL 330	064		<u> </u>	
Will tax form be sent t	o the address of Payee indi	icated above:		Yes X	No
If no, enter tax address	ss:				
	n/Resignation		Event Date		09/28/2018
Death Other – Pro	omotion; Opted-Out		Participation Date of Bir		03/06/2017 04/25/1985
Date benefits will com	mence:		(or as soon	as administratively pra	ctical thereafter)
Taxable Portion: \$816.16	Non-Taxable Portion:		Interest: \$48.96	TOTAL:	\$865.12
		Section Section Distribution Requ			
Part A					
I, the payee, make the	e following distribution elect	ion:			
	ECT ROLLOVER OF THE ed Plan designated in Part E				
	ECT ROLLOVER OF THE E			AMOUNT of my vested	account balance to an
	ECT ROLLOVER OF THE F or other tax-qualified Plan (not less				sted account balance to
	ECT ROLLOVER OF THE to an IRA or other tax-qua (not less				of my vested account
PORT	ECT ROLLOVER OF ION of my vested account I e balance paid in a lump sur		other tax-qualified f		B of this Section Two,
AND N	ECT ROLLOVER OF ION-TAXABLE PORTION Consideration Two, with the balan (cess of \$200).		balance to an IRA c		an designated in Part B
	MP SUM OF MY ENTIRE Vution is in excess of \$200).	ESTED ACCOUNT I	BALANCE (less 20°	% Federal Income Tax	withholding, if taxable

Part B (Complete this section if you elect to receive distribution of your refund in other than a lump sum)

I represent that the IRA or other tax-qual check will be payable to the IRA account		a proper recipient plan for a direct rollover. I understand that the ow.
Name of IRA/Tax-Qualified Plan:		
Account Number:		
Name of Trustee/Custodian:		
For the Benefit of:		
Address to Send Direct Rollover:		
Part C Release and Acknowledgemen	ts (Payee should read the st	atements and sign below)
 Plan Administrator and the Cus I understand I should consult m I certify that my social security my full legal name is provided ii I understand this election super 	todian from any further liability by professional tax advisor abou number shown on this applicat in Section One. Tesedes any previous election m	ut this distribution due to the complexity of the tax laws. tion for benefits is my correct taxpayer identification number and
Notembr	9	April 14, 2020
/Signature of Payee (Required)	()	Date
In particular, the Special Tax Notice explain	Tax Notice Regarding Plan Pay ins that 20% of your Plan distrik Plan benefits to another emplo , request it from the Pension A	yments" before deciding how to receive benefits from this Plan. bution is required to be withheld for federal income tax purposes byer plan or an individual retirement arrangement (IRA). (If you dministrator.)
Signature of Payee (Required)		Date
-	lan made as soon as possible	e. Therefore, I hereby waive the 30-day time period otherwise ments was provided to me and the date my election regarding
In connection with this waiver, I hereby co	onfirm the following:	
with the distribution options available to r	me. I understand that I am ent	yments informing me of some of the tax implications associated itled to a reasonable period of not less than 30 days from the stually implemented to decide whether or not to elect a direct
/WI. Xt Olm For	M	April 14, 2020
Signature of Payee		Date

CITY OF DELRAY BEACH GENERAL EMPLOYEES' RETIREMENT PLAN BENEFIT PAYMENT REQUEST FORM

		Section One Report of Plan Adm			
Plan Name:	Delray Beach General	Employees' Retirement Pla	an Acco	ount Number:	740003439
Participant Nam	e: Christine Stivers		Soc.	Sec. Number:	***-**-4270
Beneficiary/ Alternate Payee	: <u>N/A</u>		Soc.	Sec. Number:	
Relationship to Participant:	N/A		Date	of Birth:	
Check Address of Payee:	142 Orange Drive Boynton Beach, FL 33	436			
Will tax form be	sent to the address of Payee in	ndicated above:	Yes	X	No
If no, enter tax a	ddress:				
X Termi	nation/Resignation		Event Date: Participation Date:		3/18/2020 4/3/2018
Other	(full time to part time)		Date of Birth		9/16/1965
Date benefits wi	Il commence:		(or as soon as admir	istratively practica	al thereafter)
Taxable Portion: \$ 2	Non-Taxable 2,102.17 Portion:		rest: \$ 47.98	TOTAL:	\$ 2,150.15
		Section Two Distribution Request			
Part A					
I, the payee, ma					
	ke the following distribution ele	ection:			
	ke the following distribution ele A DIRECT ROLLOVER OF TH jualified Plan designated in Par	IE ENTIRE TAXABLE AMO			
9	DIRECT ROLLOVER OF TH	IE ENTIRE TAXABLE AMONTO THE STATE TO THE SECTION TWO, WITH TAXABLE AND NOTE TO THE TAXABLE AND NOTE TO THE TAXABLE AND NOTE TAXABLE TAXA	n any non-taxable amoun	t paid to me in a lu	ump sum.
VOLS A	A DIRECT ROLLOVER OF THE qualified Plan designated in Part A DIRECT ROLLOVER OF THE RA or other tax-qualified Plan of the IRA or other tax-qualified Plan IRA or other IRA O	IE ENTIRE TAXABLE AMO It B of this Section Two, with E ENTIRE TAXABLE AND IT Itesignated in Part B of this SE FOLLOWING PORTION OF	n any non-taxable amoun NON-TAXABLE AMOUN Section Two. OF THE TAXABLE AMOU	t paid to me in a lu	ump sum.
	A DIRECT ROLLOVER OF THE qualified Plan designated in Part A DIRECT ROLLOVER OF THE RA or other tax-qualified Plan of the IRA or other tax-qualified Plan (not less a DIRECT ROLLOVER OF THE ADIRECT ROLLOVER OF THE palance to an IRA or other tax-or other	IE ENTIRE TAXABLE AMO IT B of this Section Two, with E ENTIRE TAXABLE AND IT IT IS ENTIRE TAXABLE AND IT IS ENTRE TAXABLE AND IT IS ENTIRE TAXABLE AND IT IS ENTRE TAXABLE AND	n any non-taxable amount NON-TAXABLE AMOUNT Section Two. OF THE TAXABLE AMOUNTS Section Two:	t paid to me in a lut of my vested accurrenced accurrenced with the state of the st	count balance to an account balance to
	A DIRECT ROLLOVER OF THE qualified Plan designated in Part A DIRECT ROLLOVER OF THE RA or other tax-qualified Plan of the IRA or other tax-qualified Plan (not less a DIRECT ROLLOVER OF THE ADIRECT ROLLOVER OF THE palance to an IRA or other tax-or other	IE ENTIRE TAXABLE AMO IT B of this Section Two, with E ENTIRE TAXABLE AND IT It lesignated in Part B of this SE E FOLLOWING PORTION (In designated in Part B of the less than \$500) HE FOLLOWING PORTION (In part B of the less than \$500) The section of the less than \$500) Section of the less than \$500)	NON-TAXABLE AMOUNT Section Two. OF THE TAXABLE AMOUNT Section Two: N OF THE NON-TAXAB Part B of this Section Two (not less the tax-qualified Plan design	t paid to me in a lut of my vested accurate of my vested accurate of the control	count balance to an account balance to my vested account
	A DIRECT ROLLOVER OF THE Qualified Plan designated in Part A DIRECT ROLLOVER OF THE AND DIRECT ROLLOVER OF THE AND DIRECT ROLLOVER OF THE ADDRECT ROLL	IE ENTIRE TAXABLE AMO IT B of this Section Two, with E ENTIRE TAXABLE AND IT It lesignated in Part B of this SE E FOLLOWING PORTION (In an designated in Part B of the less than \$500) HE FOLLOWING PORTION (In all if it is than \$500) The balance Plan designated in less than \$500) The balance to an IRA or other is than (Iess 20% Federal Incompt) The of my vested account balance in the less is than the less in the less is than the less in the less is than the less is that the less is than the less is than the less is that the less is the less is that the less is that the less is that the less is the less is that the less is the less	NON-TAXABLE AMOUNT Section Two. OF THE TAXABLE AMOUNT Section Two: N OF THE NON-TAXAB Part B of this Section Tw	t paid to me in a lut of my vested accurate of my vested accurate of the control	count balance to an account balance to my vested account ETAXABLE of this Section Two, in excess of \$200).

Part B (Complete this section if you elect to receive distribution of your refund in other than a lump sum) I represent that the IRA or other tax-qualified plan designated below is a proper recipient plan for a direct rollover. I understand that the check will be payable to the IRA account or tax-qualified plan listed below. - Janus Traditional Name of IRA/Tax-Qualified Plan: Account Number: Name of Trustee/Custodian: For the Benefit of: Address to Send Direct Rollover: Part C Release and Acknowledgements (Payee should read the statements and sign below) For and in consideration of payment of my vested benefit amount, I hereby release the Plan, the Trust, the Plan Sponsor, the Plan Administrator and the Custodian from any further liability. I understand I should consult my professional tax advisor about this distribution due to the complexity of the tax laws. I certify that my social security number shown on this application for benefits is my correct taxpayer identification number and my full legal name is provided in Section One. I understand this election supersedes any previous election made under this Plan. I understand I will be forfeiting all future monthly benefits should I elect to receive a refund of my contributions. Signature of Payee (Required) Date INTERNAL REVENUE SERVICE SPECIAL TAX NOTICE REGARDING PLAN PAYMENTS You should review the provided "Special Tax Notice Regarding Plan Payments" before deciding how to receive benefits from this Plan. In particular, the Special Tax Notice explains that 20% of your Plan distribution is required to be withheld for federal income tax purposes unless you elect a direct roll-over of your Plan benefits to another employer plan or an individual retirement arrangement (IRA). (If you have not received the Special Tax Notice, request it from the Pension Administrator.) I have reviewed and understand the provisions of the Special Tax Notice Regarding Plan Payments. 5-1-2020 Signature of Payee (Required) PAYEE'S CERTIFICATION - WAIVER OF 30-DAY WAITING PERIOD I wish to have my distribution from the Plan made as soon as possible. Therefore, I hereby waive the 30-day time period otherwise required between the date the Special Tax Notice Regarding Plan Payments was provided to me and the date my election regarding my disbursement is implemented. In connection with this waiver, I hereby confirm the following: I acknowledge receipt of a written Special Tax Notice Regarding Plan Payments informing me of some of the tax implications associated with the distribution options available to me. I understand that I am entitled to a reasonable period of not less than 30 days from the

date the notice was provided to me until the date my distribution is actually implemented to decide whether or not to elect a direct

5-1-2020

Date

rollover or lump sum.

CITY OF DELRAY BEACH GENERAL EMPLOYEES' RETIREMENT PLAN BENEFIT PAYMENT REQUEST FORM

	Section One Report of Plan Administrator		
Plan Name:	Delray Beach General Employees' Retirement Plan	Account Number:	3040035324
Participant Name:	CASETRA THOMPSON	Soc. Sec. Number:	***-**-7024
Beneficiary/ Alternate Payee:	N/A	Soc. Sec. Number:	
Relationship to Participant:	N/A	Date of Birth:	
Check Address of Payee:	917 W. Broome Street Lantana, FL 33462	5	
Will tax form be sent t	o the address of Payee indicated above:	Yes X	No
If no, enter tax addres	ss:		
Death	n/Resignation Event Date: Participation ime to part time) Date of Birth		3/6/2020 7/9/2018 10/18/1979
Date benefits will com	mence: (or as soon as	administratively praction	cal thereafter)
Taxable Portion: \$ 1,427.	AMOUNT OF REFUND: Non-Taxable Portion: \$ 0.00 Interest: \$ 25.05	TOTAL:	\$ 1,452.19
	Distribution Request by Payee		
Part A	e following distribution election:		
A DIRI	ECT ROLLOVER OF THE ENTIRE TAXABLE AMOUNT of my vestered Plan designated in Part B of this Section Two, with any non-taxable and the section Two, which are the section Two th		
	ECT ROLLOVER OF THE ENTIRE TAXABLE <u>AND</u> NON-TAXABLE AN other tax-qualified Plan designated in Part B of this Section Two.	MOUNT of my vested a	ccount balance to an
	ECT ROLLOVER OF THE FOLLOWING PORTION OF THE TAXABLE or other tax-qualified Plan designated in Part B of this Section Two: (not less than \$500)	AMOUNT of my vester	d account balance to
	ECT ROLLOVER OF THE FOLLOWING PORTION OF THE NON-T e to an IRA or other tax-qualified Plan designated in Part B of this Sect (not less than \$500)		my vested account
PORTI	ECT ROLLOVER OF \$ or % (no ON) of my vested account balance to an IRA or other tax-qualified Plase balance paid in a lump sum (less 20% Federal Income Tax withholding		of this Section Two,
AND N	ECT ROLLOVER OF \$ or \$ % (no ION-TAXABLE PORTION of my vested account balance to an IRA or of Section Two, with the balance paid in a lump sum (less 20% Federal In scess of \$200).		designated in Part B
	IP SUM OF MY ENTIRE VESTED ACCOUNT BALANCE (less 20% ation is in excess of \$200).	Federal Income Tax w	ithholding, if taxable

Part B (Complete this section if you elect to receive distribution of your refund in other than a lump sum)

I represent that the IRA or other tax-qual check will be payable to the IRA account		recipient plan for a direct rollover, I understand that the
Name of IRA/Tax-Qualified Plan:		
Account Number:		
Name of Trustee/Custodian:		
For the Benefit of:		
Address to Send Direct Rollover:		
Plan Administrator and the Cus	rment of my vested benefit amount, I he stodian from any further liability.	reby release the Plan, the Trust, the Plan Sponsor, the
 I certify that my social security my full legal name is provided i I understand this election super 	number shown on this application for be	
antra Thomps	2-2-	3-31-20
Signature of Payee (Required)		Date
In particular, the Special Tax Notice expla unless you elect a direct roll-over of your have not received the Special Tax Notice I have reviewed and understand the prov	Tax Notice Regarding Plan Payments" be nins that 20% of your Plan distribution is re Plan benefits to another employer plan e, request it from the Pension Administra	perfore deciding how to receive benefits from this Plan. equired to be withheld for federal income tax purposes or an individual retirement arrangement (IRA). (If you tor.) ling Plan Payments.
Signature of Payee (Required)		Date
-	Plan made as soon as possible. Therefo	ore, I hereby waive the 30-day time period otherwise as provided to me and the date my election regarding
my disbursement is implemented.		
In connection with this waiver, I hereby co	onfirm the following:	
with the distribution options available to	me, I understand that I am entitled to a	nforming me of some of the tax implications associated reasonable period of not less than 30 days from the plemented to decide whether or not to elect a direct
dat The		Q 21-7()

Item 3.C.

Approval/Ratification of New Retirement/DROP/Vested/Death Annuities

GENERAL EMPLOYEES' RETIREMENT PLAN New Retirement/DROP/Vested/Death Annuities - Monthly Amounts May 21, 2020 Regular Committee Meeting

March 2020	
Bathelemy, Anna - beneficiary	 1,994.40
Worthington, Caitlin - beneficiary	320.96
May 2020	
Puddie, Ronald - new retirement	\$ 1,128.70
Benefits Ceased	
Bathelemy, Otes - died 2/22/2020	\$ 1,994.40
Dostal, Mary - died 3/20/2020	1,003.34
Fashaw, Bertram - died 4/11/2020	754.86
Worthington, Larry - died 2/12/2020	641.92

MARCH 2020

Account Maintenance Page 1 of 1

Account Maintenance		We	Icome CastronovoL@mydel	raybeach.com Home I	Help Log Out	
Home Accounts Benefit (Calculator Rep	oorts Tools	Administration Se	ecurity		
Return to Search Save Refresh Processes	Statements >	New Member	New Account Delete	Account		
Name: BATHELEMY, OTES SSN: Gene	eral SEIU (Blue	Collar)	Deceased			
	Summary Personal Beneficiaries Employment Service Wages Contributions Retirement Payment Setup Health/Life Comments Forms					
RETIREMENT INFORMATION 2 III						
Retirement Date: 10/1/2011	Benefit Stop/Chang	e Date:	~			
DROP Ending Date:	Fully Taxable Date:	10/1/2041	~			
Retirement Type: Early Incentive	Removal Date:	2/22/2020	~			
Retirement Option: 100% Joint & Survivor	Removal Reason:	Deceased	~			
Average Monthly Earnings: 3421.33						
REGULARLY SCHEDULED MONTHLY PAYMENTS (1)) 🐧 🚚 😲					
Effective Date First Payment Date	Amount	Non-Taxable Amount	Reason	Comment		
☐ 10/1/2011 10/1/2011	1994.40	3.76	Original Benefit	1 yr insurance incentive.		

Account Maintenance Page 1 of 1

S.	Accor	unt Maintenanco	e		We	elcome CastronovoL@mydel	raybeach.com Home Help Log Out
**	Hom	ne Accounts Bene	fit Calculat	or Rep	orts Tools	Administration Se	curity
Retu	rn to Search Save	Refresh Processes	▶ Stater	ments 🕨	New Member	New Account Delete	Account
Name	: WORTHINGTON, LAR	RY SSN:	General	SEIU (Blue	e Collar)	Deceased	
Sumr	Summary Personal Beneficiaries Employment Service Wages Contributions Deferred Retirement Payment Setup Health/Life Comments Forms						
RETI	REMENT INFORMATIO	on 🦸 🚚 😲					
Retir	ement Date:	8/1/2007	▼ Benefit	Stop/Change	e Date:	~	
DRO	P Ending Date:		▼ Fully Tax	xable Date:	8/1/2007	~	
Retir	ement Type:	Deferred Retirement	∨ Remova	l Date:	2/12/2020	· ·	
Retir	ement Option:	50% Joint & Survivor	∨ Remova	l Reason:	Deceased	~	
Avera	age Monthly Earnings:	2064.35					
REGU	JLARLY SCHEDULED N	MONTHLY PAYMENTS (1)	i 💋 🛅 🚚	②			
	Effective Date	First Payment Date			Non-Taxable Amount	Reason	Comment
	8/1/2007	8/1/2007		641.92	0.00	Original Benefit	

MAY 2020

CITY OF DELRAY BEACH GENERAL EMPLOYEES RETIREMENT PLAN

Notification of Benefits Payable as a Result of Retirement

Participant's Name:	RONALD PUDDIE	_	
the beginning of each mor	orth commencing on May 1, 2020. Frm of annuity that you choose.	from the Plan. Your benefit is payable at The amount of your monthly benefit Please check and initial the one optional	
as long as you ar or remarriage w thereafter. If you	vill be \$1,217.59 for the should die before you have rece	nly payments to your surviving spouse until 12 months following your death and then sived an amount equal to your own contrib	death \$730.55
to the Plan, payn have been used u	nents will continue to your benef	iciary until your own accumulated contribu	itions
payments of\$ payments have b	1,312.44 to you as long as you	ITY: This option provides monthly live. If you should die before 120 monthly continue to be paid to your beneficiary ur n all.	til a
\$1,128.70 to	SURVIVOR ANNUITY: This option you as long as you live. Your de eceive monthly payments of	on provides monthly payments of esignated beneficiary, if living at the time or \$1,128.70 as long as he/she lives.	f your
\$1,182.67 to	SURVIVOR ANNUITY: This option you as long as you live. Your de eceive monthly payments of	provides monthly payments of signated beneficiary, if living at the time of \$887.00 as long as he/she lives.	fyour
\$1,201.86 to	ND SURVIVOR ANNUITY: This op you as long as you live. Your de eceive monthly payments of	tion provides monthly payments of signated beneficiary, if living at the time of \$801.24 as long as he/she lives.	your
\$1,242.04to	URVIVOR ANNUITY: This option you as long as you live. Your de eceive monthly payments of	provides monthly payments of signated beneficiary, if living at the time of \$621.02 as long as he/she lives.	your
The preceding amounts are	based on the following informat	ion:	
Your Date of Birth:	May 1, 1951	Credited Service Date:	April 16, 2007

Your Date of Birth:	May 1, 1951	Credited Service Date:	April
Date of Termination:		Years of Credited Service:	

Date of Termination:	April 20, 2020	Years of Credited Service:	13.0000
Average Monthly Earnings:	\$3,746.45	Vesting Percentage:	100%
Beneficiary Name:	Sylvia Puddie	Date of Birth:	May 30, 1957

Participant's Name:	RONALD PUDDIE	-
After-Tax Contributions:	\$0.00	
Pre-Tax Contributions:	N/A	
Interest on Contributions:	N/A	
Accumulated Employee		
Contributions:	N/A	
Nontaxable Portion of		Number of Months Nontaxable
Monthly Benefit for Option 2:		Portion Continues:
Nontaxable Portion of		
Monthly Benefit for Options		Number of Months Nontaxable
1, 3, 4, 5 or 6:		Portion Continues:
o contact the plan administrator ou in error.	ere made, or the plan provi	or become aware of errors in the data that sions that were applied, it is your responsibility ecover from you amounts that were paid to
BOARD OF TRUSTEES: By		DATE:
hown above to be correct.	e, including my choice of an	nuity form, and confirm the information
PARTICIPANT'S SIGNATURE:	Kondel V.	ddu DATE: 5-6-21
	Calculation Date:	May 4, 2020

) physical presence or (__) online

NOEMI D. GONZALES

Notary Public, State of Florida Commission# GG 126669 My comm. expires July 20, 2021

County of

The foregoing instrument was acknowledged before me by means of u

who is personally known to me or who has produced the following identification: 200720 511610

_ (Notary Signature)

(Print Name of Notary)

Item 4 Gabriel, Roeder, Smith & Company

Item 4.A. October 1, 2019 Actuarial Valuation Report

(Will be provided electronically when received)

City of Delray Beach General Employees' Retirement Plan

ACTUARIAL VALUATION REPORT AS OF OCTOBER 1, 2019

ANNUAL EMPLOYER CONTRIBUTION FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 2021





May 15, 2020

Board of Trustees City of Delray Beach General Employees' Retirement Plan Delray Beach, Florida

Re: Actuarial Valuation as of October 1, 2019

Dear Board Members:

The results of the October 1, 2019 Annual Actuarial Valuation of the City of Delray Beach General Employees' Retirement Plan are presented in this report. This report does not reflect the recent and still developing impact of COVID-19, which may significantly impact demographic and economic experience.

The computed contribution rate shown on page 1 may be considered as a minimum contribution rate that complies with the Board's funding policy. Users of this report should be aware that contributions made at that rate do not guarantee benefit security. Given the importance of benefit security to any retirement system, we suggest that contributions to the System in excess of those presented in this report be considered.

This report was prepared at the request of the Board and is intended for use by the Retirement System and those designated or approved by the Board. This report may be provided to parties other than the System only in its entirety and only with the permission of the Board. GRS is not responsible for unauthorized use of this report.

The purposes of the valuation are to measure the System's funding progress, to determine the employer contribution rate for the fiscal year ending September 30, 2021, and to determine the actuarial information for GASB Statement No. 67 and No. 68 for the fiscal year ending September 30, 2019. This report also includes estimated GASB Statement 67 information for the fiscal year ending September 30, 2020. This report should not be relied on for any purpose other than the purposes described herein. Determinations of financial results, associated with the benefits described in this report, for purposes other than those identified above may be significantly different.

The contribution rate in this report is determined using the actuarial assumptions and methods disclosed in Section B of this report. This report includes risk metrics in Section A but does not include a more robust assessment of the risks of future experience not meeting the actuarial assumptions. Additional assessment of risks was outside the scope of this assignment.

The findings in this report are based on data or other information through September 30, 2019. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. The scope of an actuarial valuation does not include an analysis of the potential range of such measurements.

This valuation assumed the continuing ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our scope of expertise and was not performed.

The valuation was based upon information furnished by the Plan Administrator and City concerning Retirement System benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by the Plan Administrator and City.

This report was prepared using certain assumptions approved by the Board as authorized under Florida Statutes and prescribed by the Florida Statutes as described in the section of this report entitled Actuarial Assumptions and Methods. The investment return assumption was prescribed by the Board and the assumed mortality rates detailed in the Actuarial Assumptions and Methods section were prescribed by the Florida Statutes in accordance with Chapter 112.63, Florida Statutes. All actuarial assumptions used in this report are reasonable for purposes of this valuation.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge the information contained in this report is accurate and fairly presents the actuarial position of the Retirement System as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.

Jeffrey Amrose and Trisha Amrose are members of the American Academy of Actuaries. These actuaries meet the Academy's Qualification Standards to render the actuarial opinions contained herein.

The signing actuaries are independent of the plan sponsor.

This actuarial valuation and/or cost determination was prepared and completed by me or under my direct supervision, and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate. In my opinion, the techniques and assumptions used are reasonable, meet the requirements and intent of Part VII, Chapter 112, Florida Statutes, and are based on generally accepted actuarial principles and practices. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material increase in plan costs or required contribution rates have been taken into account in the valuation.

Gabriel, Roeder, Smith & Company will be pleased to review this valuation and Report with the Board of Trustees and to answer any questions pertaining to the valuation.

Respectfully submitted,

GABRIEL, ROEDER, SMITH AND COMPANY

Βv

Jeffrey Amrose, MAAA

Enrolled Actuary No. 20-6599

Senior Consultant & Actuary

Trisha Amrose, MAAA

Enrolled Actuary No. 20-8010

Consultant & Actuary



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DISCUSSION OF VALUATION RESULTS

DISCUSSION OF VALUATION RESULTS

Comparison of Required Employer Contributions

The required employer contribution developed in this year's valuation is compared below to last year's results:

	For FYE 9/30/2021 For FYE 9/30/2020 Based on 10/1/2019 Based on 10/1/2018 Valuation Valuation		Based on 10/1/2019 Based on 10/1/2018			Increase Decrease	:)
Required Employer Contribution							
If Paid on October 1							
Date of Payment		10/1/2020		10/1/2019			
Dollar Amount	\$	3,123,630	\$	2,866,796	\$	256,834	
As % of Covered Payroll		14.88 %		14.32 %		0.56	%
If Paid on December 31							
Date of Payment		12/31/2020		12/31/2019			
Dollar Amount	\$	3,175,056	\$	2,913,994	\$	261,062	
As % of Covered Payroll		15.12 %		14.55 %		0.57	%

This Report reflects an employer contribution of \$2,866,796 paid in October, 2019 for the fiscal year ending September 30, 2020. The required contribution was \$2,866,796 as determined in the October 1, 2018 Actuarial Valuation Report.

Revisions in Benefits

There were no revisions in benefits since the previous valuation.

Revisions in Actuarial Assumptions or Methods

The mortality tables were updated from the mortality rates used by the Florida Retirement System (FRS) for Regular members in the July 1, 2018 FRS Actuarial Valuation to the rates used in the July 1, 2019 FRS Actuarial Valuation. Please see the Actuarial Assumptions and Cost Method Section for more details.

This change decreased the required contribution by \$284,837 or 1.36% of pay.

Actuarial Experience

There has been a net actuarial loss of \$233,575 for the year, which means that actual experience was less favorable than expected. The net loss caused the required employer contribution to increase by approximately \$19,000 or 0.09% of covered payroll. Actual mortality experience was a source of experience loss, as there was a lower decrease in benefit payments due to mortality experience than expected (\$51,912 versus \$146,620 expected). This loss was partially offset by gains from a recognized return on the actuarial value of assets of 7.5% compared to the assumed rate of 6.75%.



Funded Ratio

The funded ratio, one measure of the Plan's financial health, is equal to the actuarial value of assets divided by the actuarial accrued (past service) liability. The funded ratio this year is 94.8% compared to 93.1% last year. The funded ratio was 93.2% before the change in the mortality assumption this year.

Analysis of Change in Employer Contribution

The increase in the normal cost caused the required employer contribution to increase by about \$130,000 before reflecting the assumption change. The increase in the normal cost is primarily due to a 4.85% increase in the total covered payroll from October 1, 2018 to October 1, 2019. This increase in total covered payroll is due to the following two factors:

- Average annual salary increases of 5.0% for the 337 continuing active members.
 - These actual average salary increases of 5.0% were in line with the expected increase of 5.1%.
 - The 5.0% average salary increases translated into \$864,000 of pay increases as compared to the \$885,000 of expected pay increases from an average increase of 5.1%.
 - ➤ There were 318 continuing active members in last year's report which compares unfavorably to 337 continuing active members in this year's report (i.e., contributed to higher payroll in 2019 compared to 2018).
- There were 14 more active members (55 new members and 41 who terminated or retired) as of October 1, 2019 as compared to October 1, 2018.

The components of change in the required contribution as a percent of payroll are as follows:

Contribution rate last year*	14.55 %
Changes in Assumptions	(1.36)
Experience gain/loss	0.09
Change in Normal Cost rate	(0.12)
Amortization payment on UAAL	1.73
Change in administrative expense	<u>0.23</u>
Contribution rate this year*	15.12

^{*} Assuming the contribution is paid on December 31.



Components of Required City Contribution

The required City contribution for the fiscal year ending September 30, 2021 is \$3,123,630 assuming the full payment is made on October 1, 2020. Below is a breakdown of this required contribution amount from last year and this year reflecting an October 1 payment date.

	For FYE 9/30/2021 Based on 10/1/2019	For FYE 9/30/2020 Based on 10/1/2018	Increase
	• •		
	Valuation	Valuation	(Decrease)
Employer Normal Cost	2,289,630	2,238,987	50,643
Amortization Payments on UAAL due to:			
Prior experience gains and losses	(187,935)	(207,528)	19,593
Changes in assumptions	606,676	806,906	(200,230)
Change in Salary increase assumption	(171,760)	(171,760)	0
Change in Funding Method	450,846	450,846	0
Creating of Tiered benefit structure	0	(386,827)	386,827
Plan Amendment - Prior ERIP's	135,270	135,270	0
Plan Amendment - 0% Ee Contributions at 30 YO	S 903	902	1
Total Required Contribution	3,123,630	2,866,796	256,834

The Employer Normal Cost remained relatively level as a percentage of covered payroll from the October 1, 2018 valuation to the October 1, 2019 valuation, but covered payroll increased by about 5% which caused the Employer Normal Cost to increase as a dollar amount. The Amortization Payments on the UAAL due to prior experience gains and losses increased because an experience loss base was established as of October 1, 2019. Additionally, the Amortization Payments on the UAAL increased due to the expiring credit base from the creation of the tiered benefit structure in 2009. Finally, the Amortization Payments on the UAAL decreased due to the change in the mortality assumption for the current valuation.

Variability of Future Contribution Rates

The Actuarial Cost Method used to determine the contribution rate is intended to produce contribution rates which are generally level as a percent of payroll. Even so, when experience differs from the assumptions, as it often does, the employer's contribution rate can vary significantly from year-to-year. Over time, if the year-to-year gains and losses offset each other, the contribution rate would be expected to return to the current level, but this does not always happen.

The Market Value of Assets exceeds the Actuarial Value of Assets by \$3,664,910 as of the valuation date (see Section C). This difference will be gradually recognized and, in the absence of offsetting losses, the computed contribution rate will gradually decrease by approximately 1.5% of covered payroll.

Additionally, next year, an amortization charge base will expire which will cause the required employer contribution for the fiscal year ending September 30, 2022 to decrease by approximately \$135,000.



Estimated Required City Contribution for FYE 2022

The estimated required employer contribution for FYE 2022 is compared to the required employer contribution for FYE 2021 reflecting a December 31 payment date:

	Emplo	nated Required eyer Contribution FYE 9/30/2022	FYE 9/30/2021 ed on 10/1/2019 Valuation	Increase (Decrease)
Required Employer Contribution Date of Payment Dollar Amount As % of Covered Payroll	\$	12/31/2021 3,050,000 ^{1, 2} 14.10 % ^{1, 2}	\$ 12/31/2020 3,175,056 15.12 %	\$ (125,056) (1.02) %

¹ Estimated Required Employer Contribution for FYE 2022 assuming no gains, losses, or assumption changes and a 3% increase in total covered payroll for FYE 2020.

Relationship to Market Value

If Market Value had been the basis for the valuation, the City contribution rate would have been 13.63% (assuming a contribution payment date of December 31, 2020) and the funded ratio would have been 97.5%. In the absence of other gains and losses, the City contribution rate should decrease to that level over the next several years.

Conclusion

The remainder of this Report includes detailed actuarial valuation results, information relating to the pension fund, financial accounting information, employee data and a summary of plan provisions.



² For each new hire and vacancy that is added after the valuation date, the Required Employer Contribution will increase by approximately 10.2% of their covered payroll.

RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION

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

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

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

- 1. Investment risk actual investment returns may differ from the expected returns;
- Contribution risk actual contributions may differ from expected future contributions. For
 example, actual contributions may not be made in accordance with the plan's funding policy or
 material changes may occur in the anticipated number of covered employees, covered payroll, or
 other relevant contribution base;
- 3. Salary and Payroll risk actual salaries and total payroll may differ from expected, resulting in actual future accrued liability and contributions differing from expected;
- 4. Longevity risk members may live longer or shorter than expected and receive pensions for a period of time other than assumed;
- 5. Other demographic risks members may terminate, retire or become disabled at times or with benefits other than assumed resulting in actual future accrued liability and contributions differing from expected.

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

The computed contribution rate shown on page 1 may be considered as a minimum contribution rate that complies with the Board's funding policy. The timely receipt of the actuarially determined contributions is critical to support the financial health of the plan. Users of this report should be aware that contributions made at the actuarially determined rate do not necessarily guarantee benefit security.



PLAN MATURITY MEASURES

Risks facing a pension plan evolve over time. A young plan with virtually no investments and paying few benefits may experience little investment risk. An older plan with a large number of members in pay status and a significant trust may be much more exposed to investment risk. Generally accepted plan maturity measures include the following:

	2019	2018
Ratio of the market value of assets to total payroll	6.47	6.80
Ratio of actuarial accrued liability to payroll	6.64	6.80
Ratio of actives to retirees and beneficiaries	1.10	1.08
Ratio of net cash flow to market value of assets	(2.9) %	(3.2) %

RATIO OF MARKET VALUE OF ASSETS TO PAYROLL

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

RATIO OF ACTUARIAL ACCRUED LIABILITY TO PAYROLL

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

The ratio of liability to payroll may also be used as a measure of sensitivity of the liability itself. For example, if the actuarial accrued liability is 2.5 times the payroll, a change in liability 2% other than assumed would equal 5% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in liability (and also plan sponsor contributions) as a percentage of payroll.

RATIO OF ACTIVES TO RETIREES AND BENEFICIARIES

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

RATIO OF NET CASH FLOW TO MARKET VALUE OF ASSETS

A positive net cash flow means contributions exceed benefits and expenses. A negative cash flow means existing funds are being used to make payments. A certain amount of negative net cash flow is generally expected to occur when benefits are prefunded through a qualified trust. Large negative net cash flows as a percent of assets may indicate a super-mature plan or a need for additional contributions.



ADDITIONAL RISK ASSESSMENT

Additional risk assessment is outside the scope of the annual actuarial valuation. Additional assessment may include scenario tests, sensitivity tests, stochastic modeling, stress tests, and a comparison of the present value of accrued benefits at low-risk discount rates with the actuarial accrued liability.



SECTION B

VALUATION RESULTS

PARTICIPANT DATA							
		October 1, 2019 October 1, 2019 After Changes Before Changes		Oc	tober 1, 2018		
ACTIVE MEMBERS	•		ı		ı		
Number Covered Annual Payroll Average Annual Payroll Average Age Average Past Service Average Age at Hire	\$ \$	392 20,997,013 53,564 47.7 9.1 38.6	\$ \$	392 20,997,013 53,564 47.7 9.1 38.6	\$ \$	378 20,025,730 52,978 47.5 9.3 38.2	
RETIREES, BENEFICIARIES & DROP			<u> </u>				
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	354 7,714,379 21,792 69.7	\$ \$	354 7,714,379 21,792 69.7	\$ \$	347 7,359,542 21,209 69.4	
DISABILITY RETIREES							
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	2 34,011 17,006 58.7	\$ \$	2 34,011 17,006 58.7	\$ \$	3 46,412 15,471 60.4	
TERMINATED VESTED MEMBERS					•		
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	81 1,353,632 16,712 50.9	\$ \$	81 1,353,632 16,712 50.9	\$ \$	78 1,288,700 16,522 50.5	



ACTUARIALLY DETERMINED EMPLOYER CONTRIBUTION (ADEC)

	Valuation Date	October 1, 2019 After Changes		October 1, 2019 Before Changes	O	ctober 1, 2018	3
В.	ADEC to Be Paid During Fiscal Year Ending	9/30/2021		9/30/2021		9/30/2020	
C.	Assumed Date of Employer Contrib.	12/31/2020		12/31/2020		12/31/2019	
D.	Annual Payment to Amortize Unfunded Actuarial Liability	\$ 781,264	9	\$ 968,833	\$	588,110	
E.	Employer Normal Cost	2,144,853		2,219,788		2,097,413	
F.	ADEC if Paid on the Valuation Date: D + E	2,926,117		3,188,621		2,685,523	
G.	ADEC if Paid on the First Day of the Next Fiscal Year	3,123,630		3,403,853		2,866,796	
Н.	ADEC if Paid on December 31	3,175,056		3,459,893		2,913,994	
1.	ADEC as % of Covered Payroll*	15.12 %		16.48 %		14.55	%
J.	Assumed Rate of Increase in Covered Payroll to Contribution Year	0.00 %		0.00 %		0.00	%
K.	Covered Payroll for Contribution Year	20,997,013		20,997,013		20,025,730	
L.	ADEC for Contribution Year*	3,175,056		3,459,893		2,913,994	
M.	ADEC as % of Covered Payroll in Contribution Year: L ÷ K*	15.12 %		16.48 %		14.55	%

^{*}Assuming the contribution is paid on the date in Item C.



ACTUARIAL VALUE OF BENEFITS AND ASSETS						
A. Valuation Date	October 1, 2019 After Changes	October 1, 2019 Before Changes	October 1, 2018			
B. Actuarial Present Value of All Projected Benefits for 1. Active Members a. Service Retirement Benefits b. Vesting Benefits c. Disability Benefits d. Preretirement Death Benefits e. Return of Member Contributions f. Total 2. Inactive Members	\$ 59,708,344	\$ 60,386,539	\$ 58,319,878			
	3,650,226	3,773,119	3,605,331			
	946,779	927,362	1,135,535			
	1,891,046	2,581,032	2,400,133			
	155,890	155,789	156,961			
	66,352,285	67,823,841	65,617,838			
a. Service Retirees & Beneficiariesb. Disability Retireesc. Terminated Vested Membersd. Total	84,569,624	85,665,643	81,990,594			
	331,353	327,882	462,629			
	8,867,668	9,172,248	8,364,319			
	93,768,645	95,165,773	90,817,542			
3. Total for All MembersC. Actuarial Accrued (Past Service)Liability (Entry Age Normal)	160,120,930	162,989,614	156,435,380			
	139,342,065	141,728,974	136,185,423			
D. Actuarial Value of Accumulated Plan Benefits per FASB No. 35	125,672,282	127,859,976	122,883,899			
E. Plan Assets 1. Market Value 2. Actuarial Value	135,796,532	135,796,532	136,078,674			
	132,131,622	132,131,622	126,825,625			
F. Unfunded Actuarial Accrued Liability G. Actuarial Present Value of Projected Covered Payroll	7,210,443	9,597,352	9,359,798			
	166,963,778	166,408,410	156,870,145			
H. Actuarial Present Value of Projected Member Contributions	5,523,366	5,506,417	5,156,526			



CALCULATION OF EMPLOYER NORMAL COST							
A. Valuation Date B. Normal Cost for	October 1, 2019 After Changes	October 1, 2019 Before Changes	October 1, 2018				
 Service Retirement Benefits Vesting Benefits Disability Benefits Preretirement Death Benefits Return of Member Contributions Total for Future Benefits Assumed Amount for Administrative Expenses Total Normal Cost 	\$ 2,170,124 347,362 42,577 129,786 60,478 2,750,327 122,724 2,873,051	\$ 2,189,407 358,442 41,740 175,087 60,586 2,825,262 122,724 2,947,986	\$ 2,080,421 343,656 68,737 165,632 57,807 2,716,253 75,401 2,791,654				
C. Expected Member Contribution D. Employer Normal Cost: B8-C	728,198 2,144,853	728,198 2,219,788	694,241 2,097,413				
E. Employer Normal Cost as a % of Covered Payroll	10.22%	10.57%	10.47%				



LIQUIDATION OF THE UNFUNDED ACTUARIAL ACCRUED LIABILITY

	UAAL Amortization Period and Payments								
Original UAAL				Current UAAL					
Years	Source	Amort. Period (Years)	Amount	Years	Amount	10/1/2019 Payment	Estimated 10/1/2020 Payment	Estimated 10/1/2021 Payment	
	Method Change - Aggregate to Entry Age	25 25	\$ 5,602,731	15 16	\$ 4,171,903	\$ 422,338	\$ 422,338	. ,	
10/1/2011	Experience Loss Experience Loss	25	394,904 1,799,033	17	304,770 1,451,517	29,724 136,869	29,724 136,869	29,724 136,869	
10/1/2012	Assumption Change - Salary Scale Experience Loss	25 25 25	(2,114,885) 539,648	17 18	(1,706,355) 453,588	41,482	41,482	41,482	
10/1/2013	Plan Amendment - 0% Ee Contributions at 30 Experience Gain	25	11,000 (1,043,610)	18 19	9,246 (325,355)		` ' '	, , ,	
10/1/2015	Experience Gain Experience Gain	25 25	(769,762) (1,180,685)	20 21	(693,483) (1,099,029)	(93,114)	` ' '		
10/1/2016	Plan Amendment - ERIP Experience Gain	5 25	554,774 (1,268,865)	1 22	126,717 (1,205,006)	l ' '	l ' ' '	, , ,	
10/1/2017	Mandated Mortality Assumption Change Experience Gain	25 25	2,414,868 (450,190)	22	2,293,334 (435,439)	` ' '	` ' '	` ' '	
10/1/2018	Experience Gain Assumption Changes (Exp. Sty)	25 25	(1,080,810) 7,198,427	24 24	(1,063,099) 7,080,468	565,671	565,671	565,671	
	Experience Loss Mandated Mortality Assumption Change	25 25	233,575 (2,386,909)	25 25	233,575 (2,386,909)	18,355 (187,569)	18,355 (187,569)	18,355 (187,569)	
			\$ 5,606,540		\$ 7,210,443	\$ 781,264	\$ 654,547	\$ 654,547	

The UAAL is being liquidated as a level dollar amount over the number of years remaining in the amortization period. The expected amortization schedule is as follows:

Amortization Schedule							
Year	Expected UAAL	UAAL Payment	Year	Expected UAAL	UAAL Payment		
2019	\$ 7,210,443	\$ 781,264	2032	\$ 2,712,494	\$ 654,547		
2020	6,863,154	654,547	2033	2,196,858	654,547		
2021	6,627,688	654,547	2034	1,646,417	232,209		
2022	6,376,328	654,547	2035	1,509,667	202,485		
2023	6,108,001	654,547	2036	1,395,417	226,515		
2024	F 024 FC2	CE 4 E 47	2027	4 247 002	104 107		
2024	5,821,562	654,547	2037	1,247,803	184,187		
2025	5,515,789	654,547	2038	1,135,410	213,125		
2026	5,189,375	654,547	2039	984,539	273,259		
2027	4,840,929	654,547	2040	759,292	366,373		
2028	4,468,963	654,547	2041	419,441	276,106		
2029	4,071,889	654,547	2042	153,010	311,524		
2030	3,648,013	654,547	2043	-	-		
2031	3,195,525	654,547	2044	-	-		



ACTUARIAL GAINS AND LOSSES

The assumptions used to anticipate mortality, employment turnover, investment income, expenses, salary increases, and other factors have been based on long range trends and expectations. Actual experience can vary from these expectations. The variance is measured by the gain and loss for the period involved. If significant long term experience reveals consistent deviation from what has been expected and that deviation is expected to continue, the assumptions should be modified. The net actuarial gain (loss) for the past year is computed as follows:

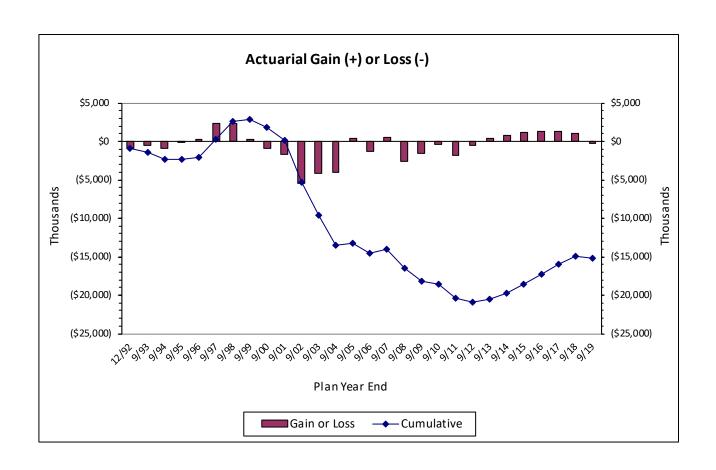
1. Last Year's UAAL	\$	9,359,798			
2. Last Year's Employer Normal Cost		2,097,413			
3. Last Year's Contributions		2,866,796			
4. Interest at the Assumed Rate on:a. 1 and 2 for one yearb. 3 from dates paidc. a - b		773,362 0 773,362			
5. This Year's Expected UAAL Prior to Revision: 1+2-3+4c		9,363,777			
6. Change in UAAL Due to Plan Amendments and/or Changes in Actuarial Assumptions		(2,386,909)			
7. This Year's Expected UAAL (after changes): 5+6		6,976,868			
8. This Year's Actual UAAL (after changes)		7,210,443			
9. Net Actuarial Gain/(Loss): 7 - 8		(233,575)			
10. Gain/(Loss) Due to Investment 916,227					
11. Gain/(Loss) Due to Other Sources		(1,149,802)			



Net actuarial gains in previous years have been as follows:

Year Ended	Gain (Loss)
12/31/92	\$ (939,614)
9/30/93	(492,398)
9/30/94	(937,094)
9/30/95	(32,368)
9/30/96	260,299
9/30/97	2,354,556
9/30/98	2,333,750
9/30/99	246,466
9/30/00	(955,923)
9/30/01	(1,750,230)
9/30/02	(5,428,126)
9/30/03	(4,212,406)
9/30/04	(3,989,929)
9/30/05	351,084
9/30/06	(1,334,136)
9/30/07	563,904
9/30/08	(2,574,633)
9/30/09	(1,599,294)
9/30/10	(394,904)
9/30/11	(1,799,033)
9/30/12	(539,648)
9/30/13	373,386
9/30/14	769,762
9/30/15	1,180,685
9/30/16	1,268,865
9/30/17	450,190
9/30/18	1,080,810
9/30/19	(233,575)







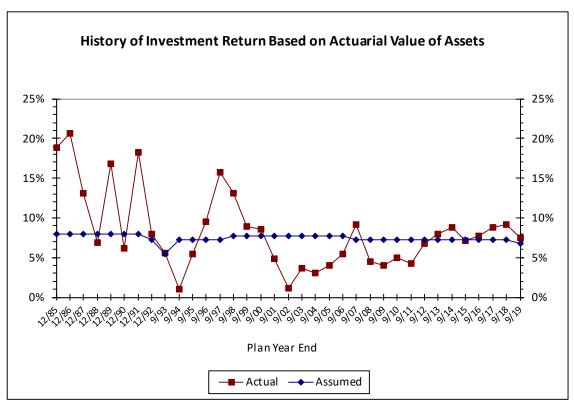
The fund earnings and salary increase assumptions have considerable impact on the cost of the Plan so it is important that they are in line with the actual experience. The following table shows the actual fund earnings and salary increase rates compared to the assumed rates for the last few years.

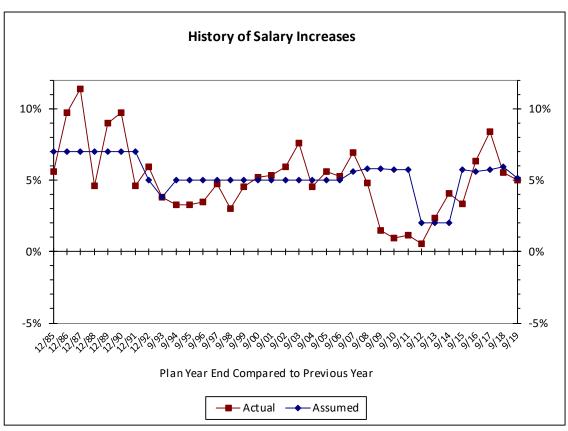
	Investme	nt Return	Salary Ir	ncreases
Year Ending	Actual	Assumed	Actual	Assumed
12/31/1985	18.8 %	8.0 %	5.6 %	7.0 %
12/31/1986	20.6	8.0	9.7	7.0
12/31/1987	13.1	8.0	11.4	7.0
12/31/1988	6.9	8.0	4.6	7.0
12/31/1989	16.8	8.0	9.0	7.0
12/31/1990	6.2	8.0	9.7	7.0
12/31/1991	18.2	8.0	4.6	7.0
12/31/1992	7.9	7.25	5.9	5.0
9/30/1993 (9 mos.)	5.6	5.4	3.8	3.8
9/30/1994	1.0	7.25	3.3	5.0
9/30/1995	5.5	7.25	3.3	5.0
9/30/1996	9.5	7.25	3.5	5.0
9/30/1997	15.7	7.25	4.7	5.0
9/30/1998	13.1	7.75	3.0	5.0
9/30/1999	8.9	7.75	4.5	5.0
9/30/2000	8.6	7.75	5.2	5.0
9/30/2001	4.9	7.75	5.3	5.0
9/30/2002	1.1	7.75	5.9	5.0
9/30/2003	3.6	7.75	7.6	5.0
9/30/2004	3.1	7.75	4.5	5.0
9/30/2005	4.0	7.75	5.6	5.0
9/30/2006	5.5	7.75	5.3	5.0
9/30/2007	9.1	7.25	6.9	5.6
9/30/2008	4.5	7.25	4.8	5.8
9/30/2009	4.0	7.25	1.5	5.8
9/30/2010	5.0	7.25	0.9	5.7
9/30/2011	4.3	7.25	1.1	5.7
9/30/2012	6.7	7.25	0.5	2.0
9/30/2013	8.0	7.25	2.3	2.0
9/30/2014	8.8	7.25	4.0	2.0
9/30/2015	7.1	7.25	3.4	5.7
9/30/2016	7.7	7.25	6.3	5.6
9/30/2017	8.8	7.25	8.4	5.7
9/30/2018	9.2	7.25	5.5	5.9
9/30/2019	7.5	6.75	5.0	5.1
Averages	8.2 %		5.1 %	

Note: Figures prior to 1990 were determined by the Wyatt Company.

The actual investment return rates shown above are based on the actuarial value of assets. The actual salary increase rates shown above are the increases received by those active members who were included in the actuarial valuations both at the beginning and the end of each year.









Actual (A) Compared to Expected (E) Decrements Among Active Employees

Year Ended	Ad Du	nber ded ring ear E	Servio DRO Retire A	OP	Disab Retire A	•	De A	ath E	Te Vested A	erminat Other		tals E	Active Members End of Year
9/30/2002	46	20	8	15	0	1	0	1	6	6	12	15	379
9/30/2002	46 34	20 29	9	15 15	1	1	0	1	10	9	19	16	379
		29	9		_	_		_		_			
9/30/2004	41		-	13	2	1	0	1	8	9	17	15	397
9/30/2005	30	38	8	13	1	1	1	1	13	15	28	15	389
9/30/2006	44	40	13	15	0	1	1	1	13	13	26	15	393
9/30/2007	45	36	20 *	13	0	1	1	1	6	9	15	21	402
9/30/2008	40	27	13	11	0	1	0	1	8	6	14	22	415
9/30/2009	24	15	7	11	0	1	0	1	3	5	8	23	424
9/30/2010	21	28	11	13	1	1	0	1	4	12	16	22	417
9/30/2011	13	41	26	14	0	1	1	1	10	4	14	20	389
						_	_						
9/30/2012	17	34	17	13	0	1	2	1	10	5	15	17	372
9/30/2013	26	39	16 *	12	0	1	2	1	7	14	21	16	359
9/30/2014	17	34	15	12	0	1	0	1	9	10	19	16	342
9/30/2015	35	48	20 *	12	0	1	1	1	19	8	27	14	329
9/30/2016	37	45	16	13	0	1	1	1	16	12	28	16	321
0/20/2017	75	39	13	11	0	1	1	1	12	12	25	16	257
9/30/2017					0	_	1	1	13		25		357
9/30/2018	60	39	13	13	0	1	1	1	6	19	25	22	378
9/30/2019	55	41	11	14	0	1	1	1	4	25	29	25	392
9/30/2020				12		1		1				28	
18 Yr Totals **	660	621	245	233	5	18	13	18	165	193	358	326	

^{*} Reflects Early Retirement Incentive Program during the Plan Year.



^{**} Totals are through current Plan Year only.

	RECENT HISTORY OF VALUATION RESULTS							
	Number of						Employer Nor	mal Cost
Valuation Date	Active Members	Inactive Members	Covered Annual Payroll	Actuarial Value of Assets		UAAL	Amount	% of Payroll
1/1/90	283	88	\$ 7,217,876	\$ 18,735,866	\$	(935,024)	\$ 742,838	10.3 %
1/1/91	309	90	8,119,144	19,989,234		(4,673,532)	1,136,638	14.0
1/1/92	324	101	8,653,137	23,834,584		0	425,248	4.9
1/1/93	337	101	9,402,160	25,545,873		0	590,537	6.3
10/1/93	350	103	9,976,616	29,169,341		0	698,784	7.0
10/1/94	350	108	10,140,270	29,541,506		0	703,611	6.9
10/1/95	343	112	10,123,923	31,138,947		0	707,347	7.0
10/1/96	352	121	10,483,367	33,939,706		0	705,909	6.7
10/1/97	354	132	10,838,339	39,004,018		0	0	
10/1/98	350	137	10,830,498	47,654,038		0	0	
10/1/99	351	145	11,221,039	51,167,747		0	0	
10/1/00	352	158	11,683,131	54,085,492		0	76,657	0.7
10/1/01	353	167	12,166,399	55,160,299		0	299,443	2.5
10/1/02	379	173	13,369,199	54,452,798		0	638,906	4.8
10/1/03	384	183	14,807,342	56,610,019		0	1,313,414	8.9
10/1/04	397	197	15,844,035	58,552,571		0	1,832,201	11.6
10/1/05	389	215	16,203,652	61,455,670		0	1,829,172	11.3
10/1/06	393	232	16,839,131	70,326,850		0	2,088,750	12.4
10/1/07	399	252	17,817,350	77,436,230		0	2,293,259	12.9
10/1/08	415	261	18,990,051	80,987,834		0	2,745,258	14.5
10/1/09	424	267	19,359,146	84,476,640		2,756,027	2,073,422	10.7
10/1/10	417	272	18,988,947	87,826,931		3,269,096	2,059,007	10.8
10/1/11	389	292	17,817,131	90,513,860		3,032,918	1,869,059	10.5
10/1/12	372	311	16,937,526	94,643,819		3,679,352	1,792,979	10.6
10/1/13	359	326	16,527,919	99,910,051		4,040,481	1,746,728	10.6
10/1/14	342	346	15,895,095	106,280,221		3,268,828	1,700,725	10.7
10/1/15	329	373	15,371,826	110,517,353		2,657,108	1,632,887	10.6
10/1/16	321	394	15,449,062	114,758,424		3,777,860	1,674,276	10.8
10/1/17	357	414	18,060,007	120,289,534		3,283,106	1,940,915	10.7
10/1/18	378	428	20,025,730	126,825,625		9,359,798	2,097,413	10.5
10/1/19	392	437	20,997,013	132,131,622		7,210,443	2,144,853	10.2



RECENT HISTORY OF UAAL AND FUNDED RATIO

Actuarial Valuation	Actuarial Value of Assets	Actuarial Accrued Liability (AAL) - Entry Age	Unfunded AAL (UAAL) - Entry Age	Funded Ratio	Covered Payroll	UAAL As % of Covered Payroll
Date	(a)	(b)	(b) - (a)	(a) / (b)	(c)	(b - a) / c
10/1/1996	33,939,706	27,354,746	(6,584,960)	124.1	10,483,367	(62.8)
10/1/1997	39,004,018	27,946,800	(11,057,218)	139.6	10,838,339	(102.0)
10/1/1998	43,376,078	30,159,065	(13,217,013)	143.8	10,830,498	(122.0)
10/1/1999	51,167,747	36,138,126	(15,029,621)	141.6	11,221,039	(133.9)
10/1/2000	54,085,492	41,859,407	(12,226,085)	129.2	11,683,131	(104.6)
10/1/2001	55,160,299	44,423,811	(10,736,488)	124.2	12,166,399	(88.2)
10/1/2002	54,452,798	48,000,804	(6,451,994)	113.4	13,369,199	(48.3)
10/1/2003	56,610,019	53,583,420	(3,026,599)	105.6	14,807,342	(20.4)
10/1/2004	58,552,571	59,247,630	695,059	98.8	15,844,035	4.4
10/1/2005	61,455,670	62,126,597	670,927	98.9	16,203,652	4.1
10/1/2006	70,326,850	71,373,310	1,046,460	98.5	16,839,131	6.2
10/1/2007	77,436,230	78,839,518	1,403,288	98.2	17,817,350	7.9
10/1/2008	80,987,834	84,913,592	3,925,758	95.4	18,990,051	20.7
10/1/2009	84,476,640	87,232,667	2,756,027	96.8	19,359,146	14.2
10/1/2010	87,826,931	91,096,027	3,269,096	96.4	18,988,947	17.2
10/1/2011	90,513,860	93,546,778	3,032,918	96.8	17,817,131	17.0
10/1/2012	94,643,819	98,323,171	3,679,352	96.3	16,937,526	21.7
10/1/2013	99,910,051	103,950,532	4,040,481	96.1	16,527,919	24.4
10/1/2014	106,280,221	109,549,049	3,268,828	97.0	15,895,095	20.6
10/1/2015	110,517,353	113,174,461	2,657,108	97.7	15,371,826	17.3
10/1/2016	114,758,424	118,536,284	3,777,860	96.8	15,449,062	24.5
10/1/2017	120,289,534	123,572,640	3,283,106	97.3	18,060,007	18.2
10/1/2018 10/1/2019	126,825,625 132,131,622	136,185,423 139,342,065	9,359,798 7,210,443	93.1 94.8	20,025,730 20,997,013	46.7 34.3



RECENT HISTORY OF REQUIRED AND ACTUAL CONTRIBUTIONS

	End of Year To Which	Required Contributions		
Valuation	Valuation Applies	Amount	% of Payroll	Actual Contributions
1/1/90	9/30/91	\$ 769,008	10.65 %	\$ 769,008
1/1/91	9/30/92	824,612	10.16	824,612
1/1/92	9/30/93	456,078	5.27	456,078
1/1/93	9/30/94	633,351	6.74	633,351
10/1/93	9/30/95	762,329	7.64	762,329
10/1/94	9/30/96	767,595	7.57	767,595
10/1/95	9/30/97	771,671	7.62	771,671
10/1/96	9/30/98	770,101	7.35	770,101
10/1/97	9/30/99	0		0
10/1/98	9/30/00	0		0
10/1/99	9/30/01	0		0
10/1/00	9/30/02	84,122	0.72	84,122
10/1/01	9/30/03	328,603	2.70	328,603
10/1/02	9/30/04	701,388	5.25	701,388
10/1/03	9/30/05	1,441,861	9.74	1,441,861
10/1/04	9/30/06	2,011,383	12.69	2,011,383
10/1/05	9/30/07	2,008,058	12.39	2,008,058
10/1/06 *	9/30/08	2,398,379	14.35	2,398,379
10/1/07	9/30/09	2,502,936	14.05	2,502,936
10/1/08	9/30/10	2,996,262	15.78	2,996,262
10/1/09 **	9/30/11	2,305,392	11.91	2,305,392
10/1/10	9/30/12	2,365,620	12.46	2,365,620
10/1/11	9/30/13	2,128,666	11.95	2,128,666
10/1/12 ***	9/30/14	2,093,769	12.36	2,093,769
10/1/13	9/30/15	2,168,192	13.12	2,168,192
10/1/14	9/30/16	2,046,827	12.88	2,046,827
10/1/15 ****	9/30/17	1,969,163	12.81	1,969,163
10/1/16	9/30/18	2,114,120	13.68	2,114,120
10/1/17	9/30/19	2,360,582	13.07	2,360,582
10/1/18	9/30/20	2,866,796	14.32	2,866,796
10/1/19	9/30/21	3,175,056	15.12	

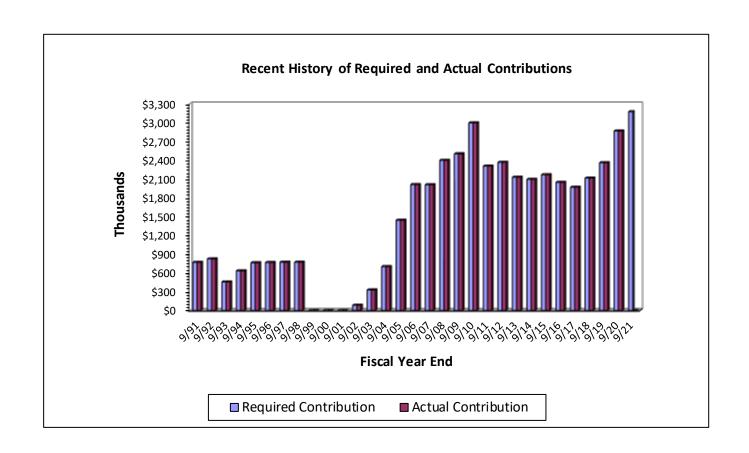
^{*} From October 19, 2007 Actuarial Impact Statement.

^{****} From May 6, 2016 Actuarial Impact Statement.



^{**} From October 4, 2010 Actuarial Impact Statement.

^{***} From September 13, 2013 Actuarial Impact Statement.





ACTUARIAL ASSUMPTIONS AND COST METHOD

Valuation Methods

Actuarial Cost Method - Normal cost and the allocation of benefit values between service rendered before and after the valuation date were determined using an **Individual Entry-Age Actuarial Cost Method** having the following characteristics:

- the annual normal cost for each individual active member, payable from the date of employment to the date of retirement, is sufficient to accumulate the value of the member's benefit at the time of retirement;
- (ii) each annual normal cost is a constant percentage of the member's year by year projected covered pay.

Actuarial gains/(losses), as they occur, reduce (increase) the Unfunded Actuarial Accrued Liability.

Financing of Unfunded Actuarial Accrued Liabilities - Unfunded Actuarial Accrued Liabilities (full funding credit if assets exceed liabilities) were amortized by level (principal & interest combined) dollar contributions over a reasonable period of future years.

Actuarial Value of Assets - The Actuarial Value of Assets phase in the difference between the expected actuarial value and actual market value of assets at the rate of 20% per year. The Actuarial Value of Assets will be further adjusted to the extent necessary to fall within the corridor whose lower limit is 80% of the Market Value of plan assets and whose upper limit is 120% of the Market Value of plan assets. During periods when investment performance exceeds the assumed rate, Actuarial Value of Assets will tend to be less than Market Value. During periods when investment performance is less than assumed rate, Actuarial Value of Assets will tend to be greater than Market Value.

Valuation Assumptions

The actuarial assumptions used in the valuation are shown in this Section. Both the economic and decrement assumptions were established following the Experience Investigation for the Eight Years Ended September 30, 2018, dated June 12, 2019. The mortality assumption is mandated by Chapter 112.63, Florida Statutes.



Economic Assumptions

The investment return rate assumed in the valuations is 6.75% per year, compounded annually (net after investment expense).

The **Inflation Rate** assumed in this valuation was 2.50% per year. The Inflation Rate is defined to be the expected long-term rate of increases in the prices of goods and services.

The assumed **real rate of return** over inflation is defined to be the portion of total investment return that is more than the assumed inflation rate. Considering other economic assumptions, the 6.75% investment return rate translates to an assumed real rate of return over inflation of 4.25%.

Pay increase assumptions for individual active members are shown below. Part of the assumption for each age is for merit and/or seniority increase, and the other 2.50% recognizes wage inflation, including price inflation, productivity increases, and other macroeconomic forces.

The rates of salary increase used for individual members are in accordance with the following table. This assumption is used to project a member's current salary to the salaries upon which benefits will be based.

_	<u>%</u>	ry	_	
Years of	Merit and	Base	Total	
Service	Seniority	(Economic)	Increase	_
1	4.25%	2.50%	6.75%	
2	4.25%	2.50%	6.75%	
3	3.25%	2.50%	5.75%	
4	3.25%	2.50%	5.75%	
5 - 14	2.50%	2.50%	5.00%	
15 - 19	2.00%	2.50%	4.50%	
20 and higher	1.25%	2.50%	3.75%	

Demographic Assumptions

The mortality table for General Employees is the PUB-2010 Headcount Weighted Below Median Employee Male Table (pre-retirement), the PUB-2010 Headcount Weighted Below Median Employee Female Table (pre-retirement), the PUB-2010 Headcount Weighted Below Median Healthy Retiree Male Table (post-retirement) and the PUB-2010 Headcount Weighted Below Median Retiree Female Table (post-retirement). These tables use ages set back one year for males and future improvements in mortality projected to all future years after 2010 using scale MP 2018. These are the same rates used for Regular Class members of the Florida Retirement System (FRS) in their actuarial valuation as of July 1, 2019.



FRS Healthy Post-Retirement Mortality for Regular Class Members

Sample	Probability of		Future	Life
Attained	Dying Nex	kt Year	Expectance	y (years)
Ages (in 2019)	Men	Women	Men	Women
50	0.19 %	0.58 %	32.93	36.77
55	0.98	0.58	28.57	32.33
60	1.15	0.60	24.50	27.81
65	1.30	0.69	20.48	23.25
70	1.81	1.10	16.49	18.78
75	2.90	1.92	12.79	14.60
80	4.91	3.47	9.52	10.87

FRS Healthy Pre-Retirement Mortality for Regular Class Members

Sample Attained	Probability of Dying Next Year		Future Expectancy	
Ages (in 2019)	Men	Women	Men	Women
50	0.19 %	0.11 %	37.55	40.11
55	0.30	0.18	32.54	34.99
60	0.47	0.26	27.70	29.98
65	0.65	0.37	23.04	25.06
70	0.90	0.57	18.50	20.24
75	1.37	0.95	14.07	15.56
80	2.17	1.60	9.78	11.07

For disabled retirees, the mortality table used was the PUB-2010 Headcount-Weighted General Disabled Retiree Tables with ages set forward 3 years for males and females.

FRS Healthy Disabled Mortality for Regular Class Members

Sample	Probability of		Future	Life
Attained	Dying Nex	xt Year	Expectance	y (years)
Ages	Men	Men Women		Women
50	2.02 %	1.64 %	20.99	23.92
55	2.53	1.91	18.18	20.88
60	3.08	2.27	15.50	17.88
65	3.93	2.83	12.94	14.91
70	5.08	3.79	10.53	12.07
75	6.98	5.46	8.29	9.45
80	10.12	8.31	6.33	7.19



The rates of retirement used to measure the probability of eligible members retiring during the next year were as follows:

Early	Roti	ram	ant

Age	Service	Rates
0 - 54	20 +	4.0%
55 - 59	All	7.5%

Normal Retirement for Members Within Ten Years of Age 60 or 30 Years of Service as of October 5, 2010

		,					
Years of							
Age	Service	Rates					
0 - 59	30	80.0%					
0 - 59	31+	25.0%					
60	All	70.0%					
61 - 62	All	25.0%					
63 - 64	All	45.0%					
65	All	85.0%					
66 - 69	All	55.0%					
70+	All	100.0%					

Normal Retirement for Other Members Hired Before October 5, 2010

Years of							
Age	Service	Rates					
0 - 61	30	80.0%					
0-61	31+	25.0%					
62	All	70.0%					
63 - 64	All	25.0%					
65 - 66	All	45.0%					
67	All	85.0%					
68 - 69	All	55.0%					
70 +	All	100.0%					



Normal Retirement for Other Members Hired After October 5, 2010

Age	Rates
65	70.0%
66 - 67	25.0%
68 - 69	45.0%
70+	100.0%

Rates of disability among active members (20% of future disability retirements are assumed to be service-connected):

Sample	% Becoming Disabled					
Ages	within Next Year					
0 - 24	0.20 %					
25 - 29	0.18					
30 - 34	0.18					
35 - 39	0.20					
40 - 44	0.24					
45 - 49	0.27					
50 - 54	0.33					
55 - 59	0.45					



Rates of separation from active membership were as shown below (rates do not apply to members eligible to retire and do not include separation on account of death or disability). This assumption measures the probabilities of members remaining in employment.

Sample	Years of	% of Active Members
Ages	Service	Separating Within Next Year
ALL	0	15.0 %
	1	15.0
	2	14.5
	3	10.5
	4	9.0
20	5 and over	9.0
25		9.0
30		9.0
35		9.0
40		5.5
45		4.8
50		4.0
55		4.0
60		3.5

Changes Since Prior Valuation

The mortality tables were updated from the mortality rates used by the Florida Retirement System (FRS) for Regular Class members in the July 1, 2018 FRS Actuarial Valuation to the rates used in the July 1, 2019 FRS Actuarial Valuation.



Miscellaneous and Technical Assumptions

Administrative & Investment Expenses

The investment return assumption is intended to be the return before considering investment expenses. Annual administrative and investment expenses are assumed to be equal to the average of the expenses over the previous 2 years. Assumed administrative and investment expenses are added to the Normal Cost.

Benefit Service

Exact fractional service is used to determine the amount of benefit payable.

Decrement Operation

Disability and mortality decrements operate during retirement eligibility.

Decrement Timing

Decrements of all types are assumed to occur at the beginning of the year.

Eligibility Testing

Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.

Forfeitures

For vested separations from service, it is assumed that 0% of members separating will withdraw their contributions and forfeit an employer financed benefit. It was further assumed that the liability at termination is the greater of the vested deferred benefit (if any) or the member's accumulated contributions.

Incidence of Contributions

Employer contributions are assumed to be made in one payment at the end of December. Member contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made.

Marriage Assumption

100% of males and 100% of females are assumed to be married for purposes of death-in-service benefits. Male spouses are assumed to be three years older than female spouses for active member valuation purposes.

Normal Form of Benefit

Life Annuity. For married participants within ten years of attaining age 60 or 30 years of service as of October 5, 2010, a monthly income payable for life of member; upon death of member, 100% of member's benefit payable to spouse for one year and 60% thereafter until death or remarriage of spouse. Other optional forms are also available.

Pay Increase Timing

End of fiscal year. This is equivalent to assuming that reported pays represent the rate of pay on the valuation date.

Service Credit Accruals

It is assumed that members accrue one year of service credit per year.



GLOSSARY

Actuarial Accrued Liability (AAL)

The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.

Actuarial Assumptions

Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members; and other items.

Actuarial Cost Method

A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of Future Normal Costs and the Actuarial Accrued Liability.

Actuarially Determined Employer Contribution (ADEC) The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation. The ADEC consists of the Employer Normal Cost and Amortization Payment.

Actuarial Equivalent

Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.

Actuarial Present Value (APV)

The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.

Actuarial Present Value of Future Benefits (APVFB)

The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits, and inactive, nonretired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.

Actuarial Valuation

The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for compliance with GASB No. 67.



Actuarial Value of Assets Th

The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the actuarially determined employer contribution (ADEC).

Amortization Method

A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the Amortization Payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the stream of payments increases at the rate at which total covered payroll of all active members is assumed to increase.

Amortization Payment

That portion of the plan contribution or ADEC which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.

Amortization Period

The period used in calculating the Amortization Payment.

Closed Amortization Period

A specific number of years that is reduced by one each year, and declines to zero with the passage of time. For example if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc.

Employer Normal Cost

The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.

Equivalent Single
Amortization Period

For plans that do not establish separate amortization bases (separate components of the UAAL), this is the same as the Amortization Period. For plans that do establish separate amortization bases, this is the period over which the UAAL would be amortized if all amortization bases were combined upon the current UAAL payment.

Experience Gain/Loss

A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two actuarial valuations. To the extent that actual experience differs from that assumed, Unfunded Actuarial Accrued Liabilities emerge which may be larger or smaller than projected. Gains are due to favorable experience, e.g., the assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as



projected by the actuarial assumptions. On the other hand, losses are the result of unfavorable experience, i.e., actual results that produce Unfunded Actuarial Accrued Liabilities which are larger than projected.

Funded Ratio The ratio of the Actuarial Value of Assets to the Actuarial Accrued

Liability.

GASB Governmental Accounting Standards Board.

GASB No. 67 and GASB No. 68 These are the governmental accounting standards that set the accounting rules for public retirement systems and the employers that sponsor or contribute to them. Statement No. 68 sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while Statement No. 67 sets the rules for the systems themselves.

Normal Cost The annual cost assigned, under the Actuarial Cost Method, to the

current plan year.

Open Amortization Period An open amortization period is one which is used to determine the

Amortization Payment but which does not change over time. In other words, if the initial period is set as 30 years, the same 30-year period is used in determining the Amortization Period each year. In theory, if an Open Amortization Period is used to amortize the Unfunded Actuarial Accrued Liability, the UAAL will never

completely disappear, but will become smaller each year, either as a

dollar amount or in relation to covered payroll.

Unfunded Actuarial Accrued Liability

The difference between the Actuarial Accrued Liability and

Actuarial Value of Assets.

Valuation Date The date as of which the Actuarial Present Value of Future Benefits

are determined. The benefits expected to be paid in the future are

discounted to this date.





PENSION FUND INFORMATION

Statement of Plan Assets at Market Value

	Septem	ber 30
ltem	2019	2018
A. Cash and Cash Equivalents (Operating Cash)	\$ 1,566,938	\$ 1,423,509
B. Receivables		
1. Member Contributions	\$ -	\$ -
2. Employer Contributions	2,866,796	2,360,582
3. Investment Income and Other Receivables	664,080	1,045,946
4. Total Receivables	\$ 3,530,876	\$ 3,406,528
C. Investments		
1. Short Term Investments	\$ -	\$ -
2. Domestic Equities	86,275,362	94,623,512
3. International Equities	5,836,687	5,928,136
4. Domestic and International Fixed Income	39,260,185	31,670,349
5. Real Estate	-	-
6. DROP Accounts (ICMA)	6,826,645	7,033,390
7. Total Investments	\$ 138,198,879	\$139,255,387
D. Liabilities		
1. Benefits Payable	\$ -	\$ -
2. Accrued Expenses and Other Payables	(673,516)	(973,360)
3. Total Liabilities	\$ (673,516)	\$ (973,360)
E. Total Market Value of Assets Available for Benefits	\$ 142,623,177	\$143,112,064
F. DROP Accounts	\$ (6,826,645)	\$ (7,033,390)
G. Market Value Net of Reserves	\$ 135,796,532	\$136,078,674
H. Allocation of Investments*		
1. Short Term Investments	0.0%	0.0%
2. Domestic Equities	62.4%	67.9%
3. International Equities	4.3%	4.3%
4. Domestic and International Fixed Income	28.4%	22.7%
5. Real Estate	0.0%	0.0%
6. DROP Accounts (ICMA)	4.9%	5.1%
7. Total Investments	100.0%	100.0%



Reconciliation of Plan Assets

		September 30								
	ltem		2019		2018					
A. Market	Value of Assets at Beginning of Year	\$	136,078,674	\$1	127,065,505					
B. Revenu	es and Expenditures									
1. Con	tributions									
a.	Employee Contributions*	\$	1,206,890	\$	799,106					
b.	Employer Contributions		2,866,796		2,360,582					
C.	Total	\$	4,073,686	\$	3,159,688					
2. Inve	estment Income									
a.	Interest, Dividends, and Other Income	\$	3,029,749	\$	3,870,239					
b.	Net Realized/Unrealized Gains/(Losses)**		842,429		9,636,994					
C.	Investment Expenses		(251,664)		(272,812)					
d.	Net Investment Income	\$	3,620,514	\$	13,234,421					
3. Ben	efits and Refunds									
a.	Regular Monthly Benefits	\$	(7,686,562)	\$	(7,181,239)					
b.	Refunds		(117,583)		(126,451)					
C.	Lump Sum Benefits Paid		-		-					
d.	Total	\$	(7,804,145)	\$	(7,307,690)					
4. Adn	ninistrative and Miscellaneous Expenses	\$	(172,197)	\$	(73,250)					
5. Trar	nsfers	\$	-	\$	-					
C. Market	Value of Assets at End of Year	\$	135,796,532	\$:	136,078,674					



^{*} Includes buyback payments.

^{**} The breakdown of this amount between realized gains/(losses) and unrealized gains/(losses) was not provided.

Actuarial Value of Assets

The Actuarial Value of Assets is determined by recognizing 20% of the difference between market value of assets and expected actuarial asset value.

	_	Septe	tember 30				
Item		2019	_	2018			
A. Beginning of Year Assets1. Market Value2. Actuarial Value	\$	136,078,674 126,825,625	\$	127,065,505 120,289,534			
B. End of Year Market Value of Assets		135,796,532		136,078,674			
C. Net of Contributions Less Disbursements*		(3,902,656)		(4,221,252)			
D. Actual Net Investment Earnings*		3,620,514		13,234,421			
E. Expected Investment Earnings*		8,292,426		8,444,081			
F. Expected Actuarial Value End of Year: A2 + C + E		131,215,395		124,512,363			
G. End of Year Market Value Less Expected Actuarial Value: B - F		4,581,137		11,566,311			
H. 20% of Difference		916,227		2,313,262			
 I. End of Year Assets 1. Actuarial Value: F + H 2. Final Actuarial Value Within 80% to 120% 		132,131,622		126,825,625			
of Market Value		132,131,622		126,825,625			
J. Recognized Investment Earnings		9,208,653		10,757,343			
K. Recognized Rate of Return		7.5%		9.2%			

^{*} Net of investment expenses.



Investment Rate of Return

	- IIIVC	stillett Nate of Ne							
			Investment						
	Market Value	Actuarial Value	Return						
Year Ended	Basis*	Basis	Assumption						
12/31/85	24.0 %	18.8 %	8.0 %						
12/31/86	21.1	20.6	8.0						
12/31/87	5.8	13.1	8.0						
12/31/88	8.6	6.9	8.0						
12/31/89	24.2	16.8	8.0						
12/31/90	3.3	6.2	8.0						
12/31/91	28.3	18.2	8.0						
12/31/92	6.3	7.9	7.25						
9/30/93 (9 months)	4.3	5.6	5.40						
9/30/94	(2.9)	1.0	7.25						
9/30/95	21.1	5.5	7.25						
9/30/96	14.8	9.5	7.25						
9/30/97	23.3	15.7	7.25						
9/30/98	5.6	13.1	7.75						
9/30/99	12.2	8.9	7.75						
9/30/00	8.7	8.6	7.75						
9/30/01	(1.0)	4.9	7.75						
9/30/02	(5.1)	1.1	7.75						
9/30/03	13.8	3.6	7.75						
9/30/04	6.4	3.1	7.75						
9/30/05	8.1	4.0	7.75						
9/30/06	6.2	5.5	7.75						
9/30/07	11.3	9.1	7.25						
9/30/08	(12.4)	4.5	7.25						
9/30/09	1.9	4.0	7.25						
9/30/10	9.6	5.0	7.25						
9/30/11	1.2	4.3	7.25						
9/30/12	18.1	6.7	7.25						
9/30/13	13.0	8.0	7.25						
9/30/14	12.0	8.8	7.25						
9/30/15	0.4	7.1	7.25						
9/30/16	10.4	7.7	7.25						
9/30/17	12.8	8.8	7.25						
9/30/18	10.7	9.2	7.25						
9/30/19	2.7	7.5	6.75						
Average Returns:									
Last 5 Years	7.3 %	8.1 %	7.1 %						
Last 10 Years	8.9 %	7.3 %	7.2 %						
All Years	9.1 %	8.2 %	7.5 %						

^{*} Net of investment expenses after 2005.

The above rates are based on the retirement system's financial information reported to the actuary. They may differ from figures that the investment consultant reports, in part because of differences in the handling of administrative and investment expenses, and in part because of differences in the handling of cash flows.



DROP Account Reconciliation

		1101 /10000	Ditor Account reconomiction									
Year	Investment											
Ending	Beginning		Ending									
9/30	Balance	Credits	(net of fees)	Distributions	Balance							
2007	\$1,188,609	\$ 435,466	\$ 92,530	\$ 264,147	\$1,452,458							
2008	1,452,458	507,624	(33,856)	163,223	1,763,003							
2009	1,763,003	558,740	98,242	249,723	2,170,262							
2010	2,170,262	674,648	105,540	901,876	2,048,574							
2011	2,048,574	778,292	51,293	524,993	2,353,166							
2012	2,353,166	945,467	169,156	331,627	3,136,162							
2013	3,136,162	1,199,170	148,168	282,268	4,201,232							
2014	4,201,232	1,259,921	154,600	879,338	4,736,415							
2015	4,736,415	1,445,136	66,143	909,785	5,337,909							
2016	5,337,909	1,204,795	176,791	1,053,317	5,666,178							
2017	5,666,178	1,307,136	254,780	729,336	6,498,758							
2018	6,498,758	1,142,565	284,457	892,390	7,033,390							
2019	7,033,390	1,484,185	161,785	1,852,715	6,826,645							





FINANCIAL ACCOUNTING INFORMATION

	FASB NO. 35 INFORMATION								
Α.	Valuation Date	October 1, 2019	October 1, 2018						
В.	Actuarial Present Value of Accumulated Plan Benefits								
	1. Vested Benefits								
	 a. Members Currently Receiving Payments b. Terminated Vested Members c. Other Members d. Total 2. Non-Vested Benefits	\$ 84,900,977 8,867,668 30,054,514 123,823,159 1,849,123	\$ 82,453,223 8,364,319 30,346,634 121,164,176						
	3. Total Actuarial Present Value of Accumulated Plan Benefits: 1d + 2	125,672,282	122,883,899						
	4. Accumulated Contributions of Active Members	5,129,400	4,741,414						
C.	Changes in the Actuarial Present Value of Accumulated Plan Benefits								
	1. Total Value at Beginning of Year	122,883,899	110,937,038						
	2. Increase (Decrease) During the Period Attributable to:								
	a. Plan Amendmentb. Change in Actuarial Assumptionsc. Latest Member Data, Benefits Accumulated	0 (2,187,694)	0 6,853,641						
	and Decrease in the Discount Period	12,780,222	12,400,910						
	d. Benefits Paid	(7,804,145)	(7,307,690)						
	e. Net Increase	2,788,383	11,946,861						
	3. Total Value at End of Period	125,672,282	122,883,899						
D.	Market Value of Assets	135,796,532	136,078,674						
E.	Actuarial Assumptions - See page entitled Actuarial Assumptions and Methods								



SCHEDULE OF CHANGES IN THE EMPLOYER'S NET PENSION LIABILITY AND RELATED RATIOS GASB Statement No. 67

Fiscal year ending September 30,	 2020*	2019	2018	2017		2016	2015		2014
Total Pension Liability									
Service Cost	\$ 2,825,262	\$ 2,741,412	\$ 2,493,225	\$ 2,119,345	\$	2,192,881	\$ 2,203,313	\$	2,249,595
Interest	9,377,641	9,169,248	8,777,037	8,375,249		8,161,233	7,791,771		7,502,443
Benefit Changes	-	-	-	-		522,720	-		-
Difference between actual &									
expected experience	1,621,501	1,452,111	1,447,271	(821,344)		(1,097,920)	1,375,784		-
Assumption Changes	(2,628,018)	7,018,332	-	2,634,532		-	-		-
Benefit Payments	(8,144,378)	(7,686,562)	(7,181,239)	(6,903,465)		(6,468,203)	(5,882,586)		(5,355,711)
Refunds	 (70,139)	(117,583)	(126,451)	(68,352)		(66,862)	(111,160)		(80,592)
Net Change in Total Pension Liability	2,981,869	12,576,958	5,409,843	5,335,965		3,243,849	5,377,122		4,315,735
Total Pension Liability - Beginning	140,210,004	127,633,046	122,223,203	116,887,238		113,643,389	108,266,267	:	103,950,532
Total Pension Liability - Ending (a)	\$ 143,191,873	\$ 140,210,004	\$ 127,633,046	\$ 122,223,203	\$:	116,887,238	\$ 113,643,389	\$:	108,266,267
Plan Fiduciary Net Position									
Contributions - Employer	\$ 2,866,796	\$ 2,360,582	\$ 2,151,438	\$ 1,969,163	\$	2,046,827	\$ 2,168,946	\$	2,093,769
Contributions - Member	728,198	1,206,890	799,106	717,598		618,705	948,466		1,126,054
Net Investment Income	8,909,461	3,620,514	13,197,103	14,474,143		11,005,137	445,258		12,196,449
Benefit Payments	(8,144,378)	(7,686,562)	(7,181,239)	(6,903,465)		(6,468,203)	(5,882,586)		(5,355,711)
Refunds	(70,139)	(117,583)	(126,451)	(68,352)		(66,862)	(111,160)		(80,592)
Administrative Expense	(122,724)	(172,197)	(73,250)	(77,552)		(82,336)	(73,706)		(79,025)
Other	-	-	-	-		-	-		-
Net Change in Plan Fiduciary Net Position	4,167,214	(788,356)	8,766,707	10,111,535		7,053,268	(2,504,782)		9,900,944
Plan Fiduciary Net Position - Beginning	 132,929,736	133,718,092	124,951,385	114,839,850		107,786,582	110,291,364	:	100,390,420
Plan Fiduciary Net Position - Ending (b)	\$ 137,096,950	\$ 132,929,736	\$ 133,718,092	\$ 124,951,385	\$:	114,839,850	\$ 107,786,582	\$:	110,291,364
Net Pension Liability - Ending (a) - (b)	6,094,923	7,280,268	(6,085,046)	(2,728,182)		2,047,388	5,856,807		(2,025,097)
Plan Fiduciary Net Position as a Percentage									
of Total Pension Liability	95.74 %	94.81 %	104.77 %	102.23 %		98.25 %	94.85 %		101.87 %
Covered Payroll	\$ 20,997,013	\$ 20,025,730	\$ 18,060,007	\$ 15,449,062	\$	15,371,826	\$ 15,895,095	\$	16,527,919
Net Pension Liability as a Percentage									
of Covered Payroll	29.03 %	36.35 %	(33.69)%	(17.66)%		13.32 %	36.85 %		(12.25)%

^{*} These figures are estimates only. Actual figures will be provided after the end of the fiscal year.



SCHEDULE OF THE EMPLOYER'S NET PENSION LIABILITY GASB Statement No. 67

	Total			Plan Net Position		Net Pension Liability
FY Ending	Pension	Plan Net	Net Pension	as a % of Total	Covered	as a % of
September 30,	Liability	Position	Liability	Pension Liability	Payroll	Covered Payroll
2014	\$ 108,266,267	\$110,291,364	\$ (2,025,097)	101.87%	\$ 16,527,919	(12.25)%
2015	113,643,389	107,786,582	5,856,807	94.85%	15,895,095	36.85%
2016	116,887,238	114,839,850	2,047,388	98.25%	15,371,826	13.32%
2017	122,223,203	124,951,385	(2,728,182)	102.23%	15,449,062	(17.66)%
2018	127,633,046	133,718,092	(6,085,046)	104.77%	18,060,007	(33.69)%
2019	140,210,004	132,929,736	7,280,268	94.81%	20,025,730	36.35%
2020*	143,191,873	137,096,950	6,094,923	95.74%	20,997,013	29.03%

^{*}These figures are estimates only. Actual figures will be provided after the end of the fiscal year.



NOTES TO SCHEDULE OF THE EMPLOYER'S NET PENSION LIABILITY GASB Statement No. 67

Valuation Date: October 1, 2019

Measurement Date: September 30, 2020

Methods and Assumptions Used to Determine Net Pension Liability:

Actuarial Cost Method Entry Age Normal

Inflation 2.5%

Salary Increases 3.75% - 6.75% based on service, including inflation

Investment Rate of Return 6.75%

Retirement Age Experience-based table of rates

Mortality PUB-2010 Headcount Weighted Below Median Employee Male Table

(pre-retirement), the PUB-2010 Headcount Weighted Below Median Employee Female Table (pre-retirement), the PUB-2010 Headcount

Weighted Below Median Healthy Retiree Male Table (post-

retirement) and the PUB-2010 Headcount Weighted Below Median Retiree Female Table (post-retirement). These tables use ages set back one year for males and future improvements in mortality projected to all future years after 2010 using scale MP 2018. These are the same rates used for Regular Class members of the Florida Retirement System (FRS) in their actuarial valuation as of July 1,

2019.

Other Information:

Notes See Discussion of Valuation Results in the October 1, 2019 Actuarial

Valuation Report.



SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

	Actuarially		Contribution		Actual Contribution
FY Ending	Determined	Actual	Deficiency	Covered	as a % of
September 30,	Contribution	Contribution	(Excess)	Payroll	Covered Payroll
2014	\$ 2,093,769	\$ 2,093,769	\$ -	\$ 16,527,919	12.67%
2015	2,168,946	2,168,946	-	15,895,095	13.65%
2016	2,046,827	2,046,827	-	15,371,826	13.32%
2017	1,969,163	1,969,163	-	15,449,062	12.75%
2018	2,151,438	2,151,438	-	18,060,007	11.91%
2019	2,360,582	2,360,582	-	20,025,730	11.79%
2020*	2,866,796	2,866,796	-	20,997,013	13.65%

^{*} These figures are estimates only. Actual figures will be provided after the end of the fiscal year.



NOTES TO SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

Valuation Date: October 1, 2018

Notes Actuarially determined contributions are calculated as of October 1,

which is two years prior to the end of the fiscal year in which

contributions are reported.

Methods and Assumptions Used to Determine Contribution Rates:

Actuarial Cost Method Entry Age Normal
Amortization Method Level Dollar, Closed

Remaining Amortization Period 25 years

Asset Valuation Method 5-year smoothed market

Inflation 2.5%

Salary Increases 3.75% - 6.75% based on service, including inflation

Investment Rate of Return 6.75%

Retirement Age Experience-based table of rates

Mortality RP-2000 Combined Healthy Participant Mortality Table (for pre-

retirement mortality) and the RP-2000 Mortality Table for Annuitants (for postretirement mortality), with mortality

improvements projected to all future years after 2000 using Scale BB. For males, the base mortality rates include a 50% blue collar adjustment and a 50% white collar adjustment. For females, the base mortality rates include a 100% white collar adjustment. These are the same rates used for Regular Class members of the Florida Retirement System (FRS) in the July 1, 2018 FRS actuarial valuation,

as mandated by Chapter 112.63, Florida Statutes.

Other Information:

Notes See Discussion of Valuation Results from the October 1, 2018

Actuarial Valuation Report.



SINGLE DISCOUNT RATE GASB Statement No. 67

A single discount rate of 6.75% was used to measure the total pension liability. This single discount rate was based on the expected rate of return on pension plan investments of 6.75%. The projection of cash flows used to determine this single discount rate assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the difference between the total actuarially determined contribution rates and the member rate. Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments (6.75%) was applied to all periods of projected benefit payments to determine the total pension liability.

Regarding the sensitivity of the net pension liability to changes in the single discount rate, the following presents the plan's net pension liability, calculated using a single discount rate of 6.75%, as well as what the plan's net pension liability would be if it were calculated using a single discount rate that is 1-percentage-point lower or 1-percentage-point higher:

Sensitivity of the Net Pension Liability to the Single Discount Rate Assumption for September 30, 2019 Reporting Date

Current Single Discount										
1% Decrease Rate Assumption 1% Increase										
	5.75%		6.75%		7.75%					
\$	23,964,175	\$	7,280,268	\$	(6,688,949)					

Sensitivity of the Net Pension Liability to the Single Discount Rate Assumption for September 30, 2020 Reporting Date*

Current Single Discount										
	1% Decrease		Rate Assumption		1% Increase					
5.75%			6.75%		7.75%					
\$	22.789.483	\$	6.094.923	\$	(7.927.666)					

* These figures are estimates only. Actual figures will be provided after the end of the fiscal year.





MISCELLANEOUS INFORMATION

	RECONCILIATION OF MEMBERSHIP DATA								
		From 10/01/18 To 10/01/19	From 10/01/17 To 10/01/18						
Α.	Active Members								
1.	Number Included in Last Valuation	378	357						
2.	New Members Included in Current Valuation	55	60						
3.	Non-Vested Employment Terminations	(25)	(19)						
4.	Vested Employment Terminations	(4)	(6)						
5.	Service Retirements	(2)	(1)						
	Disability Retirements	0	0						
	Deaths	(1)	(1)						
8.	Transfer to Police & Fire	0	0						
_	DROP Retirements	(9)	(12)						
	ERIP and Early Retirements	0	0						
11.	Number Included in This Valuation	392	378						
В.	Terminated Vested Members	T							
1.	Number Included in Last Valuation	78	79						
2.	Additions from Active Members	4	7						
3.	Lump Sum Payments/Refund of Contributions	0 (2)	(1)						
4.	Payments Commenced	(2)	(7)						
5. 6.	Deaths Other - Data Correction	0	0						
7.	Number Included in This Valuation	81	<u>0</u> 78						
		81	78						
	DROP Plan Members	 							
1.	Number Included in Last Valuation	42	39						
2.	Additions from Active Members	9	12						
_	Retirements	(14)	(9)						
4.	Deaths Resulting in No Further Payments Other- Death benefit moved to beneficiaries	0	0						
5. 6.	Number Included in This Valuation	<u>(1)</u> 36	<u>0</u> 42						
		30	42						
	Service Retirees, Disability Retirees and Beneficiaries	ı							
1.	Number Included in Last Valuation	308	296						
2.	Additions from Active Members	2	1						
3.	Additions from Terminated Vested Members	2	7						
4.	Additions from DROP Plan	14	9						
5.	Deaths Resulting in Nor Further Payments	(7)	(5)						
6. 7.	Deaths Resulting in New Survivor Benefits End of Cortain Period - No Further Payments *	1	(3)						
8.	End of Certain Period - No Further Payments * Other- Data Correction	(1)	0 3						
9.	Number Included in This Valuation	320	308						
٦.	Number merudeum mis valuation	320	300						

^{*}Includes deferred death benefit.



20-24 NO. 0 2 2 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ACTIVE PARTICIPANT SCATTER												
20-24 NO. 0 2 2 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Years of Service to Valuation Date												
TOT PAY	up 0-	0-1	1-2	2-3	3-4	4-5	5-9	10-14	15-19	20-24	25-29	30 & Up	Totals
AVG PAY O 41,117 32,964 38,272 O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	o.	0	2	2	1	0	0	0	0	0	0	0	5
25-29 NO.	/	0	82,234	65,927	38,272	0	0	0	0	0	0	0	186,433
TOT PAY AVG PAY 0 261,877 212,527 248,582 38,413 105,969 0 0 0 0 0 0 0 0 0 AVG PAY 0 43,646 35,421 41,430 38,413 35,323 0 0 0 0 0 0 0 0 30-34 NO. 1 8 6 4 4 3 5 5 3 1 0 0 0 0 0 0 AVG PAY 41,704 326,586 279,581 146,181 114,813 230,992 176,951 60,000 0 0 0 0 AVG PAY 41,704 40,823 46,597 36,545 38,271 46,018 58,984 60,000 0 0 0 0 35-39 NO. 0 9 4 9 2 12 6 2 0 0 0 0 AVG PAY 0 431,055 235,280 469,153 66,723 589,721 309,700 70,924 0 0 0 0 AVG PAY 0 47,895 58,820 52,128 33,362 49,143 51,617 35,462 0 0 0 0 TOT PAY 0 427,845 407,698 442,828 91,694 303,264 521,266 274,019 0 0 0 AVG PAY 0 53,481 45,300 63,261 45,847 43,323 57,918 54,804 0 0 0 0 45-49 NO. 2 5 4 3 2 6 10 12 6 1 0 0 AVG PAY 65,900 63,603 60,927 56,655 69,892 48,390 48,032 55,162 64,402 64,650 0 AVG PAY 0 304,060 509,888 336,520 420,363 437,272 670,476 502,487 367,629 309,621 0 AVG PAY 0 304,060 509,888 336,520 420,363 437,272 670,476 502,487 367,629 309,621 0 AVG PAY 0 304,060 509,888 336,520 420,363 437,272 670,476 502,487 367,629 309,621 0 AVG PAY 0 414,914 553,067 96,482 47,503 332,710 760,009 742,291 676,761 285,415 260,989 AVG PAY 0 46,102 61,452 32,161 47,503 55,452 54,286 49,486 61,524 95,138 65,247 60-64 NO. 0 1 3 3 10 3 8 10 1 2 1 1 3 4 TOT PAY 0 49,754 143,300 493,086 116,292 574,634 580,86 58,714 131,152 43,805 0 AVG PAY 0 49,754 44,334 49,309 38,764 71,829 58,886 58,714 131,152 43,805 0 AVG PAY 0 49,754 44,334 49,309 38,764 71,829 58,886 58,714 65,576 43,805 0 AVG PAY 0 28,650 142,223 174,485 71,885 29,409 45,429 42,208 0 0 86,931	Y	0	41,117	32,964	38,272	0	0	0	0	0	0	0	37,287
AVG PAY 0 43,646 35,421 41,430 38,413 35,323 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	о.	0	6	6	6	1	3	0	0	0	0	0	22
30-34 NO. 1 8 6 4 3 5 3 1 0 0 0 0 0 TOT PAY 41,704 326,586 279,581 146,181 114,813 230,092 176,951 60,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	/	0	261,877	212,527	248,582	38,413	105,969	0	0	0	0	0	867,368
TOT PAY ALGORIAN ALGO	Y	0	43,646	35,421	41,430	38,413	35,323	0	0	0	0	0	39,426
AVG PAY 41,704 40,823 46,597 36,545 38,271 46,018 58,984 60,000 0 0 0 0 35-39 NO. 0 9 4 9 2 12 6 2 0 0 0 0 0 0 AVG PAY 0 431,055 235,280 469,153 66,723 589,721 309,700 70,924 0 0 0 0 0 40-44 NO. 0 8 9 7 2 7 9 5 0 0 0 107 PAY 0 427,845 407,698 442,828 91,694 303,264 521,266 274,019 0 0 0 0 0 40-44 NO. 0 53,481 45,300 63,261 45,847 43,323 57,918 54,804 0 0 0 0 45-49 NO. 131,800 318,016 243,708 169,966 139,785 290,338 480,319 661,942 386,412 64,650 0 0 50-54 NO. 0 40 40,612 59,888 336,520 420,363 437,272 670,476 502,487 367,629 309,621 0 55-59 NO. 0 9 9 9 3 1 6 1 6 1 1 3 4 70 70 70 70 70 70 70 70 70 70	о.	1	8	6	4	3	5	3	1	0	0	0	31
35-39 NO. 0 9 4 9 2 12 6 2 0 0 0 0 TOT PAY 0 431,055 235,280 469,153 66,723 589,721 309,700 70,924 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	/ 41	11,704	326,586	279,581	146,181	114,813	230,092	176,951	60,000	0	0	0	1,375,908
TOT PAY AVG PAY 0 431,055 235,280 469,153 66,723 589,721 309,700 70,924 0 0 0 0 0 47,895 58,820 52,128 33,362 49,143 51,617 35,462 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Y 41	11,704	40,823	46,597	36,545	38,271	46,018	58,984	60,000	0	0	0	44,384
AVG PAY 0 47,895 58,820 52,128 33,362 49,143 51,617 35,462 0 0 0 0 0 40-44 NO. 0 8 9 7 2 7 9 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	о.	0	9	4	9	2	12	6	2	0	0	0	44
40-44 NO.	1	0	431,055	235,280	469,153	66,723	589,721	309,700	70,924	0	0	0	2,172,556
TOT PAY	Y	0	47,895	58,820	52,128	33,362	49,143	51,617	35,462	0	0	0	49,376
AVG PAY	о.	0	8	9	7	2	7	9	5	0	0	0	47
45-49 NO. 2 5 5 4 3 2 6 10 12 6 1 0 0 TOT PAY 131,800 318,016 243,708 169,966 139,785 290,338 480,319 661,942 386,412 64,650 0 AVG PAY 65,900 63,603 60,927 56,655 69,892 48,390 48,032 55,162 64,402 64,650 0 50-54 NO. 0 4 7 8 6 8 12 9 6 5 0 TOT PAY 0 304,060 509,888 336,520 420,363 437,272 670,476 502,487 367,629 309,621 0 AVG PAY 0 76,015 72,841 42,065 70,060 54,659 55,873 55,832 61,272 61,924 0 55-59 NO. 0 9 9 3 1 6 14 15 11 3 4 TOT PAY 0 414,914 553,067 96,482 47,503 332,710 760,009 742,291 676,761 285,415 260,989 AVG PAY 0 46,102 61,452 32,161 47,503 55,452 54,286 49,486 61,524 95,138 65,247 60-64 NO. 0 1 3 10 3 8 10 1 2 1 0 TOT PAY 0 49,754 133,002 493,086 116,292 574,634 580,856 58,714 131,152 43,805 0 AVG PAY 0 49,754 44,334 49,309 38,764 71,829 58,086 58,714 65,576 43,805 0 655 & Up NO. 0 1 1 3 1 4 1 1 0 0 1 TOT PAY 0 28,650 142,223 174,485 71,885 237,635 45,429 42,208 0 0 86,931 AVG PAY 0 28,650 142,223 58,162 71,885 59,409 45,429 42,208 0 0 86,931	1	0	427,845	407,698	442,828	91,694	303,264	521,266	274,019	0	0	0	2,468,614
TOT PAY AVG PAY 65,900 63,603 60,927 56,655 69,892 48,390 48,0319 661,942 386,412 64,650 0 SO-54 NO. 0 4 7 8 6 8 12 9 6 5 0 TOT PAY 0 304,060 509,888 336,520 420,363 437,272 670,476 502,487 367,629 309,621 0 AVG PAY 0 76,015 72,841 42,065 70,060 54,659 55,873 55,832 61,272 61,924 0 S5-59 NO. 0 9 9 3 1 6 14 15 11 3 4 TOT PAY 0 414,914 553,067 96,482 47,503 332,710 760,009 742,291 676,761 285,415 260,989 AVG PAY 0 46,102 61,452 32,161 47,503 55,452 54,286 49,486 61,524 95,138 65,247 60-64 NO. 0 1 3 10 3 8 10 1 2 1 0 TOT PAY 0 49,754 133,002 493,086 116,292 574,634 580,856 58,714 131,152 43,805 0 AVG PAY 0 49,754 44,334 49,309 38,764 71,829 58,086 58,714 65,576 43,805 0 65 & Up NO. 0 1 1 3 1 4 1 1 0 0 1 1 TOT PAY 0 28,650 142,223 174,485 71,885 237,635 45,429 42,208 0 0 86,931 AVG PAY 0 28,650 142,223 58,162 71,885 59,409 45,429 42,208 0 0 0 86,931	Y	0	53,481	45,300	63,261	45,847	43,323	57,918	54,804	0	0	0	52,524
AVG PAY 65,900 63,603 60,927 56,655 69,892 48,390 48,032 55,162 64,402 64,650 0 50-54 NO. 0 4 7 8 6 8 12 9 6 5 0 TOT PAY 0 304,060 509,888 336,520 420,363 437,272 670,476 502,487 367,629 309,621 0 AVG PAY 0 76,015 72,841 42,065 70,060 54,659 55,873 55,832 61,272 61,924 0 55-59 NO. 0 9 9 3 1 6 14 15 11 3 4 TOT PAY 0 414,914 553,067 96,482 47,503 332,710 760,009 742,291 676,761 285,415 260,989 AVG PAY 0 46,102 61,452 32,161 47,503 55,452 54,286 49,486 61,524 95,138 65,247 60-64 NO. 0 1 3 10 3 8 10 1 2 1 0 TOT PAY 0 49,754 133,002 493,086 116,292 574,634 580,856 58,714 131,152 43,805 0 AVG PAY 0 49,754 44,334 49,309 38,764 71,829 58,086 58,714 65,576 43,805 0 65 & Up NO. 0 1 1 3 1 4 1 1 0 0 1 TOT PAY 0 28,650 142,223 174,485 71,885 237,635 45,429 42,208 0 0 86,931 AVG PAY 0 28,650 142,223 58,162 71,885 59,409 45,429 42,208 0 0 0 86,931	о.	2	5	4	3	2	6	10	12	6	1	0	51
50-54 NO. 0 4 7 8 6 8 12 9 6 5 0 TOT PAY 0 304,060 509,888 336,520 420,363 437,272 670,476 502,487 367,629 309,621 0 AVG PAY 0 76,015 72,841 42,065 70,060 54,659 55,832 61,272 61,924 0 55-59 NO. 0 9 9 3 1 6 14 15 11 3 4 TOT PAY 0 414,914 553,067 96,482 47,503 332,710 760,009 742,291 676,761 285,415 260,989 AVG PAY 0 46,102 61,452 32,161 47,503 55,452 54,286 49,486 61,524 95,138 65,247 60-64 NO. 0 1 3 10 3 8 10 1 2 1 0 AVG PAY 0 49,754 133,002 493,086 116,292 574,634 580,856 58,714 131,152		,	318,016	243,708	169,966	139,785	290,338	480,319	661,942	386,412		0	_,,
TOT PAY	Y 65	55,900	63,603	60,927	56,655	69,892	48,390	48,032	55,162	64,402	64,650	0	56,607
AVG PAY 0 76,015 72,841 42,065 70,060 54,659 55,873 55,832 61,272 61,924 0 55-59 NO. 0 9 9 3 1 6 14 15 11 3 4 TOT PAY AVG PAY 0 414,914 553,067 96,482 47,503 332,710 760,009 742,291 676,761 285,415 260,989 AVG PAY 0 46,102 61,452 32,161 47,503 55,452 54,286 49,486 61,524 95,138 65,247 60-64 NO. TOT PAY 0 49,754 133,002 493,086 116,292 574,634 580,856 58,714 131,152 43,805 0 AVG PAY 0 49,754 44,334 49,309 38,764 71,829 58,086 58,714 65,576 43,805 0 65 & Up NO. 0 1 1 3 1 4 1 1 0 0 0 1 TOT PAY 0 28,650 142,223 174,485 71,885 237,635 45,429 42,208 0 0 86,931 AVG PAY 0 28,650 142,223 58,162 71,885 59,409 45,429 42,208 0 0 0 86,931									9			0	
55-59 NO.	1	0	304,060	509,888	336,520	420,363	437,272	670,476	502,487	367,629	309,621	0	-,,-
TOT PAY	Y	0	76,015	72,841	42,065	70,060	54,659	55,873	55,832	61,272	61,924	0	59,359
AVG PAY 0 46,102 61,452 32,161 47,503 55,452 54,286 49,486 61,524 95,138 65,247 60-64 NO. TOT PAY 0 49,754 133,002 493,086 116,292 574,634 580,856 58,714 131,152 43,805 0 AVG PAY 0 49,754 44,334 49,309 38,764 71,829 58,086 58,714 65,576 43,805 0 65 & Up NO. TOT PAY 0 28,650 142,223 174,485 71,885 237,635 45,429 42,208 0 0 86,931 AVG PAY 0 28,650 142,223 58,162 71,885 59,409 45,429 42,208 0 0 86,931	о.	0	9	9	3	1	6	14	15	11	3	4	75
60-64 NO.	′	0	414,914	553,067	96,482	47,503	332,710	760,009	742,291	676,761	285,415	260,989	4,170,141
TOT PAY 0 49,754 133,002 493,086 116,292 574,634 580,856 58,714 131,152 43,805 0 AVG PAY 0 49,754 44,334 49,309 38,764 71,829 58,086 58,714 65,576 43,805 0 65 & Up NO. 0 1 1 3 1 3 1 4 1 1 0 0 1 1 TOT PAY 0 28,650 142,223 174,485 71,885 237,635 45,429 42,208 0 0 86,931 AVG PAY 0 28,650 142,223 58,162 71,885 59,409 45,429 42,208 0 0 86,931	Y	0	46,102	61,452	32,161	47,503	55,452	54,286	49,486	61,524	95,138	65,247	55,602
AVG PAY 0 49,754 44,334 49,309 38,764 71,829 58,086 58,714 65,576 43,805 0 65 & Up NO. 0 1 1 3 1 4 1 1 0 0 1 TOT PAY 0 28,650 142,223 174,485 71,885 237,635 45,429 42,208 0 0 86,931 AVG PAY 0 28,650 142,223 58,162 71,885 59,409 45,429 42,208 0 0 86,931	о.	0	1	3	10	3	8	10	1	2	1	0	39
65 & Up NO. 0 1 1 3 1 4 1 1 0 0 1 1 TOT PAY 0 28,650 142,223 174,485 71,885 237,635 45,429 42,208 0 0 86,931 AVG PAY 0 28,650 142,223 58,162 71,885 59,409 45,429 42,208 0 0 86,931	′	0	49,754	133,002	493,086	116,292	574,634	580,856	58,714	131,152	43,805	0	2,181,295
TOT PAY 0 28,650 142,223 174,485 71,885 237,635 45,429 42,208 0 0 86,931 AVG PAY 0 28,650 142,223 58,162 71,885 59,409 45,429 42,208 0 0 86,931	Y	0	49,754	44,334	49,309	38,764	71,829	58,086	58,714	65,576	43,805	0	55,931
AVG PAY 0 28,650 142,223 58,162 71,885 59,409 45,429 42,208 0 0 86,931	NO.	0	1	1	3	1	4	1	1	0	0	1	13
	<i>'</i>	0	28,650		174,485	71,885	237,635	45,429	42,208	0	0		829,446
TOT NO. 3 53 51 54 21 59 65 46 25 10 5	Y	0	28,650	142,223	58,162	71,885	59,409	45,429	42,208	0	0	86,931	63,804
1.0.1.0. 1 0 00 01 01 01 01 00 00 10 20 10 0		3	53	51	54	21	59	65	46	25	10	5	392
TOT AMT 173,504 2,644,991 2,782,901 2,615,555 1,107,471 3,101,635 3,545,006 2,412,585 1,561,954 703,491 347,920													20,997,013
												69,584	



INACTIVE PARTICIPANT DISTRIBUTION										
	Terminat	ted Vested	Disa	abled	Re	etired	Bene	ficiary	Т	otal
Age	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits
Under 20	0	0	0	0	0	0	1	2,952	1	2,952
20 - 24	0	0	0	0	0	0	1	7,894	1	7,894
25 - 29	0	0	0	0	0	0	0	0	0	0
30 - 34	1	11,904	0	0	0	0	2	15,648	3	27,552
35 - 39	5	38,628	0	0	0	0	1	6,410	6	45,038
40 - 44	12	115,044	0	0	0	0	3	8,510	15	123,554
45 - 49	17	325,760	0	0	0	0	3	11,726	20	337,486
50 - 54	20	380,208	0	0	7	328,406	0	0	27	708,614
55 - 59	24	450,120	2	34,011	9	395,121	5	78,312	40	957,564
60 - 64	2	31,968	0	0	75	2,293,922	3	26,466	80	2,352,356
65 - 69	0	0	0	0	76	1,753,234	5	77,145	81	1,830,379
70 - 74	0	0	0	0	63	1,293,576	7	57,913	70	1,351,489
75 - 79	0	0	0	0	30	668,762	6	56,178	36	724,940
80 - 84	0	0	0	0	20	254,998	5	36,204	25	291,202
85 - 89	0	0	0	0	15	194,511	4	22,309	19	216,820
90 - 94	0	0	0	0	8	89,268	2	9,554	10	98,822
95 - 99	0	0	0	0	0	0	2	17,766	2	17,766
100 & Over	0	0	0	0	1	7,594	0	0	1	7,594
Total	81	1,353,632	2	34,011	304	7,279,392	50	434,987	437	9,102,022
Average Age		51		59		70		67		66



SECTION F

SUMMARY OF PLAN PROVISIONS

City of Delray Beach General Employees' Retirement Plan SUMMARY OF PLAN PROVISIONS

A. Ordinances

The Plan was established under the Code of Ordinances for the City of Delray Beach, Florida, Title 3, Chapter 35, Sections 35.085-35.110 and was most recently amended under Ordinance No. 30-15 passed and adopted on its second reading on November 17, 2015. The Plan is also governed by certain provisions of Part VII, Chapter 112, Florida Statutes (F.S.) and the Internal Revenue Code.

B. Effective Date

January 1, 1965; restated April 22, 1974

C. Plan Year

October 1 through September 30

D. Type of Plan

Qualified, governmental defined benefit retirement plan; for GASB purposes it is a single employer plan.

E. Eligibility Requirements

Full-time employees who are not police officers or firefighters are eligible upon completion of one year of service. City commissioners may not be included.

F. Credited Service

Service is measured as the period of continuous employment, expressed in years and tenths of a year, as a general employee from the employee's most recent date of hire to the date of termination. Credited service includes all periods of paid leave and all periods of unpaid leave up to a maximum of 30 days except as required by the Uniformed Services Employment and Reemployment Rights Act of 1994.

In the event that a member of this plan also has credited service with the City as a police officer or firefighter subsequent to membership in this plan, then such other credited service shall be used in determining vesting and eligibility for normal retirement. Such other credited service will not be considered in determining benefits under this system.



G. Compensation

Basic compensation paid to a participant for services rendered to the City excluding overtime, commissions, bonuses, expenses allowances and any other extraordinary compensation.

H. Final Monthly Compensation (FMC)

For members hired on or before October 5, 2010, the average of the highest 36 consecutive months of Compensation out of the last 120 months of Credited Service immediately preceding retirement or termination; the FMC will not be less than the 24-month average of Compensation as of October 5, 2010. For members hired after October 5, 2010, the average of the highest 60 consecutive months of Compensation out of the last 120 months of Credited Service immediately preceding retirement or termination. Payments for unused leave are not included.

I. Normal Retirement

Eligibility:

Members within ten years of attaining age 60 or 30 years of service as of October 5, 2010 may retire on the first day of the month coincident with or next following the earlier of:

- (1) age 60 with 10 years of Credited Service, or
- (2) 30 years of Credited Service regardless of age.

Other members hired on or before October 5, 2010 may retire on the first day of the month coincident with or next following the earlier of:

- (1) age 62 with 10 years of Credited Service, or
- (2) 30 years of Credited Service regardless of age.

Members hired after October 5, 2010 may retire on the first day of the month coincident with or next following attainment of age 65 with 10 years of Credited Service.

Benefit:

2.50% of FMC multiplied by Credited Service with a maximum benefit of 75% of FMC. For members with 10 or more years of Credited Service, the minimum monthly benefit is \$500.

Members may elect to receive a 3% multiplier for future service (and a maximum benefit of 90% of Average Monthly Earnings) by contributing an additional 3.45% of pay. These members may also choose to purchase the 3% multiplier for past service by contributing the full actuarial cost.



Normal Form

of Benefit: Life annuity. For married participants within ten years of attaining age 60 or 30

years of service as of October 5, 2010, a monthly income payable for life of member; upon death of member, 100% of member's benefit payable to spouse for one year and 60% thereafter until death or remarriage of spouse. Other

optional forms are also available.

COLA: None

J. Early Retirement

Eligibility: A member may elect to retire earlier than the Normal Retirement Eligibility upon

attainment of:

(1) age 55 with 15 years of Credited Service, or(2) 20 years of Credited Service regardless of age.

Benefit: The Normal Retirement Benefit is actuarially reduced by 5% for each year by

which the Early Retirement date precedes the Normal Retirement date.

Normal Form

of Benefit: Life annuity. For married participants within ten years of attaining age 60 or 30

years of service as of October 5, 2010, a monthly income payable for life of member; upon death of member, 100% of member's benefit payable to spouse for one year and 60% thereafter until death or remarriage of spouse. Other

optional forms are also available.

COLA: None

K. Delayed Retirement

Same as Normal Retirement taking into account compensation earned and service credited until the date of actual retirement.

L. Service Connected Disability

Eligibility: Any member who incurs a total and permanent disability arising out of and in the

course of city employment is immediately eligible for a disability benefit.

Benefit: 60% of FMC in effect at date of disability, reduced by amounts payable from

Social Security, and in certain cases, by compensation earned from other sources.



Benefit begins 5 months after the date of disability and is payable until the earlier of:

(a) death

- (b) recovery from disability
- (c) age 65 for those who became disabled prior to age 60 or 5 years after the date of disability for those who became disabled after age 60.

Normal Form: Life annuity

COLA: None

M. Non-Service Connected Disability

Eligibility: Any member who becomes totally and permanently disabled after completing 10

years of Credited Service is immediately eligible for a disability benefit.

Benefit: 2.0% of FMC in effect at date of disability multiplied by Credited Service with a

maximum benefit of 50% of FMC. Benefits will be reduced by amounts payable from Social Security, and in certain cases, by compensation earned from other

sources.

Benefit begins 5 months after the date of disability and is payable until the earlier of:

(a) death

(b) recovery from disability

(c) age 65 for those who became disabled prior to age 60 or 5 years after the date of disability for those who became disabled after age 60.

Normal Form: Life annuity

COLA: None

N. Death in the Line of Duty

Eligibility: Any member whose death arises out of and in the course of city employment is

immediately eligible for a survivor benefit.

Benefit: \$10,000 lump sum, plus a monthly income of 60% of FMC on the date of death

payable to the spouse until death or remarriage, or in the case of a non-spouse beneficiary, the actuarial equivalent of the member's lifetime benefit of 60% of FMC payable for life, <u>plus</u> a monthly income of 7 1/2% of the FMC payable to each unmarried child under age 18 (age 22 if full-time student), subject to an overall

limitation of 90% of FMC.



Normal Form

of Benefit: Lump sum in addition to monthly benefits payable until death or the remarriage

of a spouse. Children's benefits are payable until death, marriage or the

attainment of age 18 (age 22 if a full-time student).

COLA: None

O. Other Pre-Retirement Death

Eligibility: Members are eligible for survivor benefits after the completion of 1 or more years

of Credited Service.

Benefit: For those with less than 5 years of Credited Service, a \$5,000 lump sum is

payable to the spouse or designated beneficiary.

For those with 5 or more years of Credited Service, a \$10,000 lump sum, <u>plus</u> a monthly income paid to the spouse until death or remarriage equal to 65% of the member's Normal Retirement Benefit accrued on the date of death with a minimum equal to 20% of the member's FMC, or in the case of a non-spouse beneficiary, the actuarial equivalent of the member's lifetime benefit of 65% of the member's Normal Retirement Benefit paid for life, <u>plus</u> a monthly income of 7 1/2% of the FMC payable to each unmarried child under age 18 (age 22 if full-time

student), subject to an overall limitation of 50% of FMC.

Normal Form

of Benefit: Lump sum in addition to monthly benefits payable until death or the remarriage

of a spouse. Children's benefits are payable until death, marriage or the

attainment of age 18 (age 22 if a full-time student).

COLA: None

P. Post Retirement Death

Benefit determined by the form of benefit elected upon retirement.

Q. Optional Forms

In lieu of electing the Normal Form of benefit, the optional forms of benefits available to retirees are the 10 Year Certain and Life option or the 50%, 66 2/3%, 75% or 100% Joint and Survivor options. Lump sums may be paid when the monthly benefit is less than \$50.

R. Vested Termination

Eligibility: A member has earned a non-forfeitable right to Plan benefits after the completion

of 5 years of Credited Service (See vesting table below).



Benefit: The benefit is the member's accrued Normal Retirement Benefit as of the date of

termination. Benefit begins at the Normal Retirement Date.

Normal Form

of Benefit: Life annuity. For married participants within ten years of attaining age 60 or 30

years of service as of October 5, 2010, a monthly income payable for life of member; upon death of member, 100% of member's benefit payable to spouse for one year and 60% thereafter until death or remarriage of spouse. Other

optional forms are also available.

COLA: None

Vesting is determined in accordance with the following table.

YEARS OF	% OF NORMAL RETIREMENT
CREDITED SERVICE	BENEFITS
Less Than 5	None
5	50%
6	60
7	70
8	80
9	90
10 or more	100

S. Non-vested Termination

Eligibility: All members terminating employment with less than 5 years of Credited Service

are eligible.

Benefit: Refund of the member's contributions.

T. Member Contributions

3.05%. Those members who elect to receive the 3% multiplier must contribute an additional 3.45%, for a total of 6.50%. Contributions cease upon attainment of 30 years of Credited Service.

U. Employer Contributions

The amount determined by the actuary needed to fund the plan properly according to State laws.

V. Cost of Living Increases

Not Applicable



W. 13th Check

Not Applicable

X. Deferred Retirement Option Plan

Eligibility: Members within ten years of attaining age 60 or 30 years of service as of October

5, 2010 who have met one of the following criteria are eligible for the DROP:

(1) age 60 with 10 years of Credited Service, or

(2) 30 years of Credited Service regardless of age.

Other members hired on or before October 5, 2010 who have met one of the following criteria are eligible for the DROP:

(1) age 62 with 10 years of Credited Service, or

(2) 30 years of Credited Service regardless of age.

Members hired after October 5, 2010 are eligible for the DROP upon attaining age

65 with 10 years of Credited Service.

Members who meet eligibility must submit a written election to participate in the

DROP.

Benefit: The member's Credited Service and FMC are frozen upon entry into the DROP.

The monthly retirement benefit as described under Normal Retirement is

calculated based upon the frozen Credited Service and FMC.

Maximum

DROP Period: 60 months

Interest

Credited: The member's DROP account is credited at an interest rate equal to the actual

investment return earned by the pension plan or by the member's self directed

investments.

Normal Form

of Benefit: Lump Sum, or equal quarterly or annual installments spread over a period of time

designated by the retiree.

Y. Other Ancillary Benefits

There are no ancillary benefits-retirement type benefits not required by statutes but which might be deemed a City of Delray Beach General Employees' Retirement Plan liability if continued beyond the availability of funding by the current funding source.

Z. Changes from Previous Valuation

See Section A of the report under the Revisions in Benefits section.



Item 4.B.

Comparison of FRS vs. General Employees' Actuarial Assumptions

(Will be provided electronically when received)

Item 5 AndCo Consulting

Putting clients first.



Delray Beach General Plan Summary March 31, 2020

The stock market started 2020 by continuing the expansion and setting a new high on February 19. From that point the market contracted significantly as investors moved into perceived haven assets such as US Treasuries due to the expanding concerns related to the COVID-19 pandemic. Equity market volatility, as measured by the VIX Index, reached its highest level since the Financial Crisis in 2008. The rising economic concerns led the Fed to reduce the Fed Funds rate to 0% to 0.25% along with the US government rolling out a stimulus package aimed to help bridge the gap until businesses can reopen. The large cap S&P 500 Index lost -19.6% during the quarter while the small cap Russell 2000 Index lost -30.6% for the same period. Returns over the 1-year period were -7.0% and -24.0% for the S&P 500 and Russell 2000 respectively. Fixed income returns were positive, with the Bloomberg Barclays US Aggregate index up 3.1% for the quarter and 8.9% for the year.

The plan ended the quarter with assets of \$115,599,793 and all asset classes are within their normal ranges meaning that no rebalancing is needed at this time. For the quarter, the plan was down -17.80% vs. -17.49% for the benchmark and placed in the 99th percentile. Harding Loevner International outperformed for the quarter while Mellon (Boston) Garcia Hamilton, J.P Morgan, and BlackRock underperformed their benchmark. For the fiscal year-to-date period, the plan returned -12.34% vs. -12.06% for the benchmark.

The plan has seen a strong rebound in April with assets up to \$126,483,068 and the plan returning 9.36% vs. the benchmark of 9.88%. That brings the fiscal year-to-date return to -4.21% through 4/30/2020.

Item 5.A. Portfolio Performance Review Quarter End March 31, 2020

Investment Performance Review Period Ending March 31, 2020

Delray Beach General Employees Pension Fund



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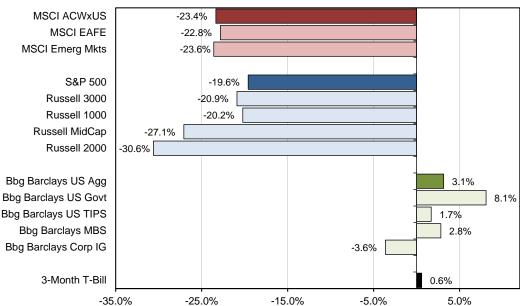


1st Quarter 2020 Market Environment

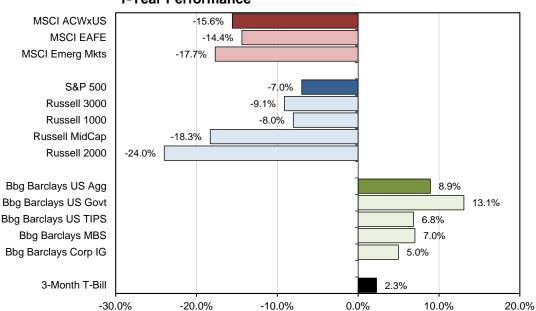


- Global risk asset class returns declined significantly during the 1st quarter of 2020 due primarily to the COVID-19 (Coronavirus) pandemic. Both domestic and international equities experienced significant drawdowns as investors moved into perceived haven assets such as US Treasury bonds. Equity market volatility, as measured by the VIX Index, reached its highest level since the Financial Crisis in 2008. Through the quarter, global economic growth turned negative as countries responded to the pandemic by shuttering their economies. In the US, as a result of the decision to institute social distancing and shelter-in-place orders, labor markets suffered significant losses as businesses closed or furloughed employees. Rising economic concerns resulted in swift action by the Federal Reserve (Fed) which cut its overnight lending rate to between 0% to 0.25%. Importantly, the US government responded with a stimulus package consisting of forgivable loans and other short-term benefits, that is designed to act as a bridge for the economy until businesses can reopen. Within domestic equity markets, large cap stocks outperformed small cap equities during the guarter with the S&P 500 Index returning -19.6% versus a -30.6% return for the small cap Russell 2000 Index. US equity returns over the 1-year period turned negative as a result of the drawdown with large and mid-cap stocks returning -7.0% and -18.3% respectively, while small cap stocks fell -24.0%.
- International markets also posted negative returns for the 1st quarter. Similar to US markets, international returns were impacted by the Coronavirus and deteriorating economic fundamentals. International returns also faced headwinds from a strengthening US dollar (USD) which appreciated against most major currencies during the period. Developed markets outpaced emerging markets during the period with the MSCI EAFE Index falling -22.8% versus a -23.6% decline for the MSCI Emerging Markets Index. Both developing and emerging markets posted losses over the 1-year period, returning -14.4% and -17.7% respectively.
- As expected during periods of rising volatility, high quality fixed income outperformed equities during the 1st quarter as investors looked for relative safety amid the equity market drawdown. The broad market Bloomberg Barclays Aggregate Index gained 3.1% as interest rates fell following rising concerns related to the Coronavirus and central bank stimulus from the Fed and other global central banks. US Government bonds were the best performing securities for the 1st quarter returning 8.1%. Investment grade corporate bonds suffered negative returns on concerns about economic growth prospects in the future. The bond market has meaningfully outperformed the equity market over the trailing 1-year period with the Bloomberg Barclays Aggregate posting a solid 8.9% return.

Quarter Performance



1-Year Performance

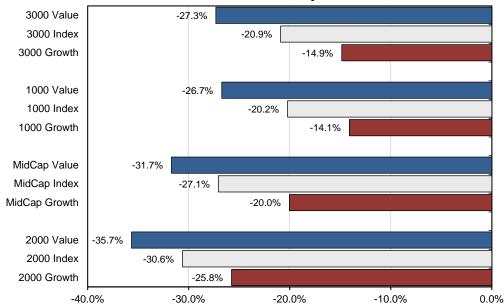


Source: Investment Metrics

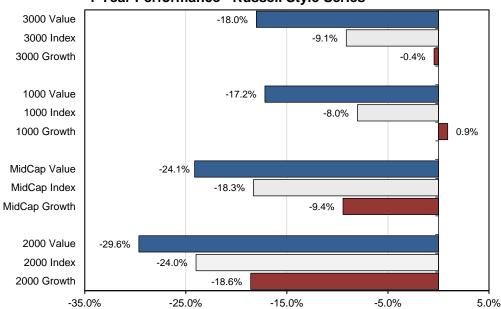


- US equity returns were significantly lower during the 1st quarter with varied results across both style and market capitalization. Concerns related to the Coronavirus, in combination with signs that the US economy could be entering into recession weighed on equities. Labor markets came under significant pressure during the quarter as companies began laying off employees in response to the government's decision to mandate a shelter-in-place approach to dealing with the pandemic. In response to the deteriorating economic conditions, the Fed took unprecedented action on March 15th and lowered the Fed Fund's rate to between 0% to 0.25%. The Fed also announced that it would be purchasing up to \$500 billion in US Treasury bonds and \$200 billion in mortgage-backed bonds. Subsequently, the Fed announced on March 23rd that it would begin purchasing unlimited amounts of US Treasury and mortgage-backed bonds. This announcement was well received by investors and marked the recent low in equity markets.
- During the quarter, higher market capitalization stocks were down less than lower market capitalization stocks across the style spectrum. The large cap Russell 1000 Index lost -20.2% during the period versus a -30.6% return for the small cap Russell 2000 Index. Investors preferred large cap stocks relative to small cap stocks as they are typically viewed as less risky during periods of rising market volatility given the size of their balance sheets and ability to generate cash flow. When viewed over the most recent 1-year period, large cap stocks significantly outpaced small cap stocks with the Russell 1000 posting a -8.0% loss compared to the -24.0% drawdown in the Russell 2000.
- In general, value stocks underperformed growth stocks across market capitalizations during the 1st quarter despite value stocks trading near all-time lows based on valuation metrics. Importantly, value indexes contain large exposures to such sectors as energy, consumer durables and financials, all of which came under pressure during the quarter. Large cap growth stocks held up better than large cap value stocks due to larger weightings in the technology and industrials sectors as well as a smaller exposure to the underperforming energy sector. The Russell 1000 Growth Index was the least negative style index for the period, returning -14.1%. The small cap value index posted the weakest relative return for the quarter with a loss of -35.7%. Results over the 1-year period were mixed with value stocks underperforming across market capitalizations while large cap stocks outpaced both mid and small cap stocks due in large part to the exposure to technology stocks and relative underweights to both energy and financial stocks.

Quarter Performance - Russell Style Series



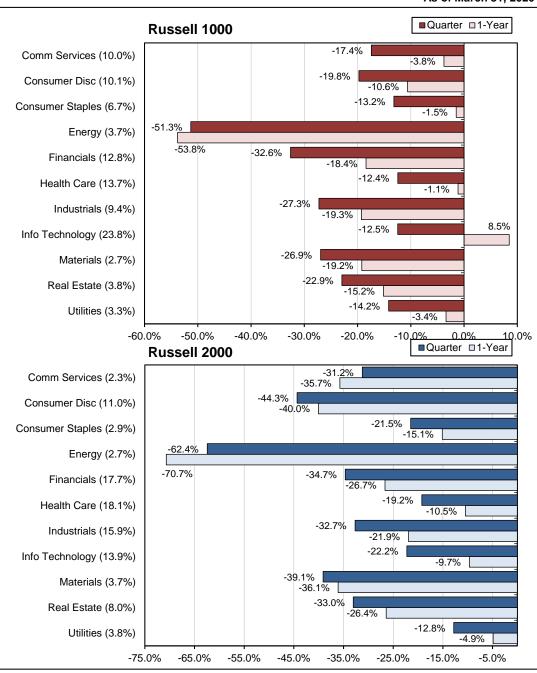
1-Year Performance - Russell Style Series



Source: Investment Metrics



- Generally, sector performance was negative across large cap sectors for the 1st quarter. The outlier during the period was the energy sector which saw significant losses due primarily to the drop in oil prices as a result of demand destruction related to the Coronavirus and the inability of OPEC to agree on production cuts. Health care and technology were the two of the least negative during the quarter returning -12.4% and -12.5%. Energy stocks fell a staggering -51.3% during the quarter as crude oil prices fell as global economic growth receded during the period. Financial stocks also lagged, declining -32.6%, as interest rates fell and a flat yield curve, in combination with fewer borrowers, increased pressure on financial stocks. Returns over the 1-year period were also generally negative with only the technology sector showing a positive return (+8.5%). Similar to the quarter's results, energy stocks underperformed by a considerable margin relative to other sectors. Industrials, materials, and financials also lagged for the year returning -19.3%, -19.2% and -18.4% respectively.
- Quarterly results for small capitalization sectors were generally worse than their large capitalization counterparts with only utilities outperforming during the period. All eleven economic sectors saw substantial losses during the period with only three of eleven sectors outpacing the Russell 2000 Index return for the quarter. Similar to large capitalization sectors, defensive sectors were less negative as investors gravitated toward their relative safety and higher yields. Utilities was the least negative sector, returning -12.8%, while healthcare and consumer staples returned -19.2% and -21.5%, respectively. The cyclically oriented energy sector was the largest detractor for the period, posting a disconcerting loss of --62.4% as global energy prices collapsed. Consumer discretionary stocks also fell substantially during the quarter returning -44.3% as consumer activity fell sharply following the decision to impose shelter-in-place orders. Financial stocks, which were down -34.7% for the quarter, were negatively impacted by the Fed's decision to lower interest rates and the significant decline in lending activity. Similar to quarterly performance, the trailing 1-year period returns were broadly negative. Utilities, technology and health care sectors were the down the least, returning -4.9%, -9.7% and -10.5%, respectively.





As a result of the GICS classification changes on 9/28/2018 and certain associated reporting limitations, sector performance represents backward looking performance for the prior year of each sector's current constituency, post creation of the Communication Services sector.



	Top 10 W	eighted Stoc	ks	
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Microsoft Corp	5.09%	0.3%	35.5%	Information Technology
Apple Inc	4.47%	-13.2%	35.6%	Information Technology
Amazon.com Inc	3.48%	5.5%	9.5%	Consumer Discretionary
Facebook Inc A	1.70%	-18.7%	0.1%	Communication Services
Berkshire Hathaway Inc B	1.53%	-19.3%	-9.0%	Financials
Alphabet Inc Class C	1.49%	-13.0%	-0.9%	Communication Services
Johnson & Johnson	1.49%	-9.5%	-3.6%	Health Care
Alphabet Inc A	1.48%	-13.2%	-1.3%	Communication Services
JPMorgan Chase & Co	1.20%	-35.0%	-8.4%	Financials
Visa Inc Class A	1.18%	-14.1%	3.8%	Information Technology

	Top 10 W	eighted Stoc	ks	
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Teladoc Health Inc	0.77%	85.2%	178.8%	Health Care
NovoCure Ltd	0.40%	-20.1%	39.8%	Health Care
Amedisys Inc	0.40%	10.0%	48.9%	Health Care
Generac Holdings Inc	0.39%	-7.4%	81.9%	Industrials
Lumentum Holdings Inc	0.38%	-7.1%	30.4%	Information Technology
Repligen Corp	0.35%	4.4%	63.4%	Health Care
Haemonetics Corp	0.35%	-13.3%	13.9%	Health Care
ACADIA Pharmaceuticals Inc	0.33%	-1.2%	57.4%	Health Care
Trex Co Inc	0.32%	-10.8%	30.3%	Industrials
Rexford Industrial Realty Inc	0.32%	-9.7%	16.6%	Real Estate

Тор	10 Performir	ng Stocks (b	y Quarter)	
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Moderna Inc	0.03%	53.1%	47.2%	Health Care
Legg Mason Inc	0.02%	37.2%	86.1%	Financials
Taubman Centers Inc	0.01%	36.6%	-15.3%	Real Estate
Virtu Financial Inc A	0.00%	31.9%	-7.8%	Financials
Zscaler Inc	0.02%	30.9%	-14.2%	Information Technology
Regeneron Pharmaceuticals Inc	0.17%	30.0%	18.9%	Health Care
Citrix Systems Inc	0.07%	28.0%	44.0%	Information Technology
RingCentral Inc Class A	0.07%	25.6%	96.6%	Information Technology
NortonLifeLock Inc	0.04%	25.4%	40.9%	Information Technology
Tesla Inc	0.32%	25.3%	87.2%	Consumer Discretionary

Тор	10 Performir	ng Stocks (by	(Quarter)	
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Waitr Holdings Inc Class A	0.00%	282.0%	-90.0%	Consumer Discretionary
Novavax Inc	0.03%	241.2%	23.3%	Health Care
Vir Biotechnology Inc	0.02%	172.5%	N/A	Health Care
Athersys Inc	0.03%	143.9%	100.0%	Health Care
Forty Seven Inc	0.17%	142.4%	490.5%	Health Care
Kala Pharmaceuticals Inc	0.01%	138.2%	6.3%	Health Care
Aduro Biotech Inc	0.01%	132.2%	-31.2%	Health Care
Tocagen Inc	0.00%	128.8%	-88.8%	Health Care
Inovio Pharmaceuticals Inc	0.05%	125.5%	99.5%	Health Care
Neon Therapeutics Inc	0.00%	123.7%	-59.1%	Health Care

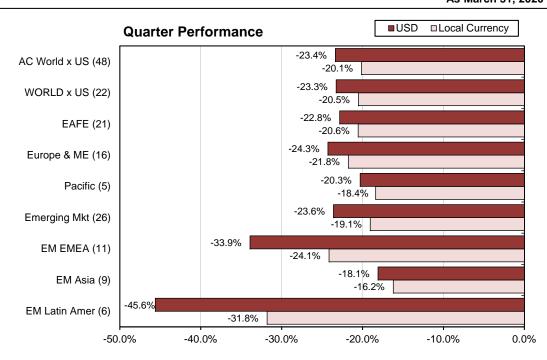
Botton	n 10 Perform	ing Stocks (by Quarter)	
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Centennial Resource Dev. Inc A	0.00%	-94.3%	-97.0%	Energy
Kosmos Energy Ltd	0.00%	-84.0%	-85.0%	Energy
Apache Corp	0.01%	-83.5%	-87.5%	Energy
Transocean Ltd	0.00%	-83.1%	-86.7%	Energy
Apergy Corp	0.00%	-83.0%	-86.0%	Energy
Targa Resources Corp	0.01%	-82.7%	-81.7%	Energy
Norwegian Cruise Line Holdings Ltd	0.01%	-81.2%	-80.1%	Consumer Discretionary
MFA Financial Inc	0.00%	-79.7%	-76.9%	Financials
Chesapeake Energy Corp	0.00%	-79.1%	-94.4%	Energy
Macerich Co	0.00%	-78.4%	-85.6%	Real Estate

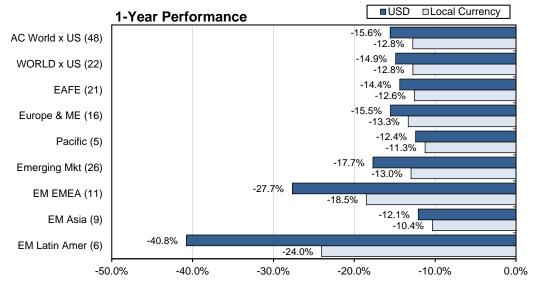
Botton	n 10 Perform	ing Stocks (by Quarter)	
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Independence Contract Drilling Inc	0.00%	-93.0%	-97.5%	Energy
QEP Resources Inc	0.01%	-95.6%	Energy	
Whiting Petroleum Corp	0.00%	-90.9%	-97.4%	Energy
Amplify Energy Corp	0.00%	-90.4%	-93.0%	Energy
Penn Virginia Corp	0.00%	-89.8%	-93.0%	Energy
Pacific Drilling SA	0.00%	-89.8%	-97.1%	Energy
Nine Energy Service Inc	0.00%	-89.7%	-96.4%	Energy
Forum Energy Technologies Inc	0.00%	-89.4%	-96.5%	Energy
Oasis Petroleum Inc	0.01%	-89.3%	-94.2%	Energy
SM Energy Co	0.01%	-89.1%	-93.0%	Energy

Source: Morningstar Direct



- International equity returns were negative in USD terms for the 1st quarter as markets were negatively impacted by the Coronavirus. In local currency terms, developed and emerging markets performed slightly better due to US dollar (USD) strength against most major currencies which created a significant headwind for US investors. The MSCI ACWI ex US Index lost -20.1% in local currency terms while a USD investor experienced a loss of -23.4% due to the aforementioned currency effect. Similar to US markets, international equity markets were severely impacted by concerns regarding headwinds from slowing economic data. Global central banks reacted by providing additional stimulus measures which are designed to provide the market with liquidity and restore confidence. The European Central Bank (ECB) and the Japanese Central Bank (JCB) announced new programs to purchase securities in an effort to boost markets while the Bank of England (BOE) cut its policy rate to 0.1% and announced additional quantitative easing in an effort to counteract a deterioration in the economy.
- Results for developed market international indices were negative in both local currency terms and USD terms for the 1st quarter. Prior to the onset of the Coronavirus, there were notable developments within the political sphere. The UK formally withdrew from the EU in January. While there remains much uncertainty surrounding what the relationship between the UK and the EU will look like, both sides are continuing to negotiate for a final withdrawal later this year. In Europe, Italy and Spain were hard hit by the Coronavirus. Already beset by relatively low GDP growth in historical terms, the region is expected to experience recession. In Japan, the economy was already under pressure as a result of declining trade with China prior to the onset of the Coronavirus. The Olympics were also rescheduled to 2021 in an effort to reduce the number of potential infections.
- Emerging markets continued their trend from 2019, underperforming relative to developed markets during the 1st quarter. The MSCI Emerging Markets Index fell -23.6% and -19.1% in USD and local currency terms, respectively. The US and China made headway in resolving their trade war by signing the Phase One trade deal in January. Countries with greater sensitivities to commodity prices or a strong USD tended to underperform during the period. Regionally, Asian countries outperformed both EMEA and Latin America, primarily due to their aggressive response to the Coronavirus. Within Latin America, Brazil and Mexico were hard hit as a result of the selloff in oil prices. Argentina underperformed as the country considered delaying the payment of interest on its sovereign debt.







MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	5.5%	-18.0%	-11.5%
Consumer Discretionary	11.1%	-26.8%	-15.0%
Consumer Staples	12.6%	-13.5%	-8.5%
Energy	4.0%	-36.2%	-37.9%
Financials	16.5%	-31.6%	-24.7%
Health Care	14.3%	-8.9%	7.1%
Industrials	14.2%	-26.4%	-16.0%
Information Technology	7.6%	-17.7%	-1.7%
Materials	6.7%	-26.8%	-20.5%
Real Estate	3.3%	-27.6%	-27.1%
Utilities	4.2%	-13.2%	-5.1%
Total	100.0%	-22.8%	-14.4%
MSCI - ACWIXUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	7.5%	-14.1%	-9.9%
Consumer Discretionary	11.8%	-24.1%	-12.9%
Consumer Staples	10.5%	-14.7%	-9.9%
Energy	5.2%	-38.5%	-37.1%
Financials	19.2%	-31.0%	-24.9%
Health Care	10.5%	-9.2%	4.6%
Industrials	11.4%	-26.2%	-17.1%
Information Technology	10.2%	-17.5%	1.3%
Materials	7.0%	-27.5%	-22.8%
Real Estate	3.0%	-27.6%	-25.9%
Utilities	3.7%	-15.9%	-8.7%
Total	100.0%	-23.4%	-15.6%
MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	13.1%	-9.6%	-8.2%
Consumer Discretionary	15.4%	-18.1%	-8.3%
Consumer Staples	6.6%	-19.8%	-15.7%
Energy	5.9%	-39.9%	-35.8%
Financials	21.6%	-31.1%	-27.6%
Health Care	3.6%	-8.5%	-8.5%
Industrials	4.9%	-28.0%	-26.5%
Information Technology	16.9%	-17.8%	3.2%
Materials	6.7%	-30.7%	-31.3%
Real Estate	2.9%	-26.7%	-21.5%
Utilities	2.5%	-26.0%	-23.4%
Total	100.0%	-23.6%	-17.7%

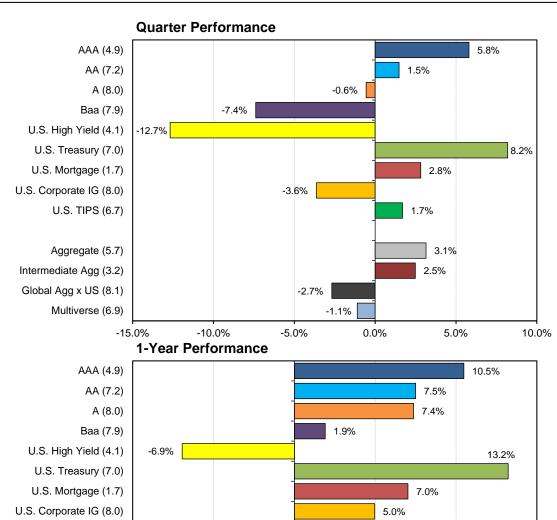
	MSCI-EAFE	MSCI-ACWIxUS	Quarter	1- Year
Country	Weight	Weight	Return	Return
Japan	26.3%	17.4%	-16.8%	-6.7%
United Kingdom	15.1%	10.0%	-28.8%	-23.0%
France	10.8%	7.1%	-27.6%	-17.7%
Switzerland	10.7%	7.1%	-11.5%	3.5%
Germany	8.3%	5.5%	-27.0%	-17.5%
Australia	5.9%	3.9%	-33.3%	-26.3%
Netherlands	4.2%	2.7%	-20.7%	-7.7%
Hong Kong	3.8%	2.5%	-17.3%	-21.1%
Sweden	2.8%	1.8%	-21.4%	-11.2%
Spain	2.6%	1.7%	-29.8%	-26.5%
Denmark	2.2%	1.4%	-8.0%	4.5%
Italy	2.2%	1.4%	-29.3%	-21.4%
Singapore	1.2%	0.8%	-28.2%	-22.3%
Finland	1.0%	0.7%	-19.1%	-18.0%
Belgium	0.9%	0.6%	-32.6%	-30.2%
Israel	0.6%	0.4%	-18.1%	-18.4%
Ireland	0.6%	0.4%	-25.7%	-8.3%
Norway	0.5%	0.4%	-33.4%	-31.3%
New Zealand	0.3%	0.2%	-16.4%	-1.0%
Portugal	0.2%	0.1%	-13.1%	-2.5%
Austria	0.2%	0.1%	-42.9%	-39.7%
Total EAFE Countries	100.0%	66.0%	-22.8%	-14.4%
Canada	100.070	6.3%	-27.5%	-19.9%
Total Developed Countries		72.3%	-23.3%	-14.9%
China		11.3%	-10.2%	-5.8%
Taiwan		3.4%	-19.1%	1.3%
Korea		3.3%	-22.5%	-16.8%
India		2.1%	-31.1%	-30.9%
Brazil		1.4%	-50.2%	-41.9%
South Africa		1.0%	-40.3%	-37.1%
Russia		0.9%	-36.4%	-14.4%
Saudi Arabia		0.7%	-24.0%	-28.9%
Thailand		0.6%	-33.8%	-32.5%
Mexico		0.5%	-35.5%	-31.9%
Malaysia		0.5%	-19.2%	-21.1%
Indonesia		0.4%	-39.6%	-36.8%
Qatar		0.3%	-17.3%	-15.1%
Philippines		0.2%	-32.2%	-30.5%
Poland		0.2%	-36.5%	-39.9%
Chile		0.2%	-33.6%	-47.1%
United Arab Emirates		0.2%	-27.1%	-30.3%
Turkey		0.1%	-30.1%	-19.8%
Peru		0.1%	-35.8%	-39.4%
Colombia		0.1%	-49.7%	-47.3%
Hungary		0.1%	-39.0%	-31.3%
Greece		0.1%	-45.2%	-30.4%
Argentina		0.0%	-39.3%	-51.0%
Egypt		0.0%	-27.1%	-10.8%
Czech Republic		0.0%	-38.5%	-38.3%
Pakistan		0.0%	-39.7%	-39.0%
Total Emerging Countries		27.7%	-23.6%	-17.7%
Total ACWIxUS Countries		100.0%	-23.4%	-15.6%

Source: Morningstar Direct, MSCI Global Index Monitor (Returns are Net in USD)

As a result of the GICS classification changes on 9/28/2018 and certain associated reporting limitations, sector performance represents backward looking performance for the prior year of each sector's current constituency, post creation of the Communication Services sector.



- Fixed income market returns during the 1st quarter were bifurcated between high- and low-quality bonds. Interest rates fell across the US Treasury Yield Curve through the quarter as investors sought safety and lower volatility assets. As a result of the deterioration of the US economy, the Fed took unprecedented action and lowered interest rates to between 0% to 0.25%. As a result, short term interest rates fell dramatically. The benchmark US Treasury 10-Year bond yield fell by more than 120 basis points during the quarter ending the period at a yield of 0.70%. In addition to lowering interest rates, the Fed committed to purchasing near unlimited US Treasury bonds and Agency mortgage bonds while implementing additional programs that allow for the purchase of corporate bonds. The bellwether Bloomberg Barclays US Aggregate Index posted positive returns for both the 1st quarter and the 1-year period, returning 3.1% and 8.9%, respectively.
- Within investment grade credit, higher quality issues outperformed lower quality issues during the quarter. More specifically, investors rotated out of lower quality issues due to the expectation for deterioration in the economy as a result of shelter-in-place protection measures. On an absolute basis, without negating the duration differences in the sub-indices, high yield credit was the worst performing sector returning -12.7% for the quarter, while AAA was the best performing, returning 5.8%. High yield spreads relative to comparable US Treasury issues widened to their highest levels since the 2008 Financial Crisis at nearly 1,100 basis points. Within investment grade bonds, Baa also underperformed, returning -7.4%. Much has been made in recent years about the growth of Baa bond issues outstanding and the potential for downgrades should a recession ensue. Returns over the 1-year period show generally positive returns with only high yield bonds posting a negative result. Within investment grade bonds, AAA bonds outperformed returning 10.5% compared to 7.5%, 7.4% and 1.9%, respectively, for AA, A and Baa rated issues.
- Within the Bloomberg Barclays US Aggregate Bond Index, defensive US Treasury, government agency and mortgage backed sectors outperformed investment grade corporate issues over the 1-year period. The defensive sectors benefited from the flight to quality as investors preferred lower volatility issues despite their lower relative yields. Over the 1-year period, US Treasury bonds returned 13.2% while US mortgage backed and investment grade corporate issues returned 7.0% versus a 5.0%, respectively. High yield bonds were the only negative performer for the year in the chart primarily due to the quarter's dramatic spread widening and resulting weak performance. Additionally, commodity-related lower quality issues were negatively impacted with the significant decline in oil prices.



U.S. TIPS (6.7)

Aggregate (5.7)

Multiverse (6.9)

-10.0%

-5.0%

Intermediate Agg (3.2)

Global Agg x US (8.1)

Source: Bloomberg



15.0%

6.8%

6.9%

0.7%

0.0%

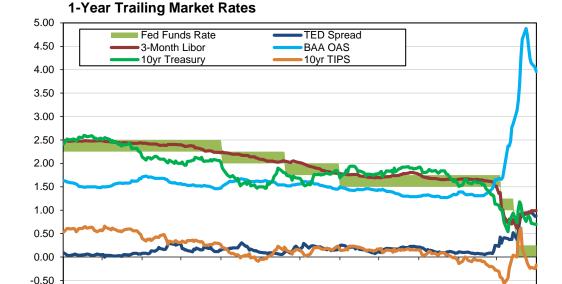
3.5%

5.0%

8.9%

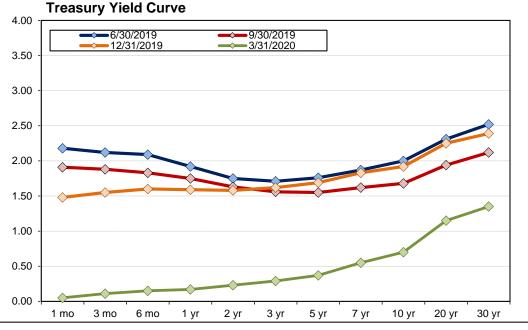
10.0%

- Global fixed income returns continued their relative underperformance when compared to their domestic counterparts during the 1st quarter. Yields across developed markets fell in the first quarter following the onset of the Coronavirus. While the number of negative yielding bonds has recently subsided, countries such as Germany, Sweden and Switzerland continue to have lower, or in some cases negative yields. As mentioned, the USD appreciated against most developed currencies during the quarter, acting as a headwind to global bond index performance. The return on global bonds, as represented by the Bloomberg Barclays Global Aggregate ex US Index, was -2.7% for the period. Global bonds also trailed over the 1-year period with the Global Aggregate ex US Index returning 0.7% versus 8.9% return for the domestic Bloomberg Barclays Aggregate Index. Global growth is expected to slow considerably in the 1st and 2nd quarters as countries continue to manage through the Coronavirus pandemic. Importantly, global central banks are acting in coordination to provide sufficient liquidity in an effort to calm markets. As a result, interest rates, and bond returns, are expected to remain low until economic activity resumes.
- Much of the index performance detailed in the bar graphs on the previous page is visible on a time series basis by reviewing the line graphs to the right. The '1-Year Trailing Market Rates' chart illustrates that over the last year, the 10-year Treasury yield (green line) has fallen from roughly 2.5% to roughly 0.7%. The blue line illustrates changes in the BAA OAS (Option Adjusted Spread). This measure quantifies the additional yield premium that investors require to purchase and hold non-Treasury issues. This line illustrates an abrupt increase in credit spreads during the 1st quarter of 2020 as investors moved to higher quality assets during the quarter's risk-off environment. Prior to that, spreads had remained relatively range bound over the previous three quarters as investors sought out higher relative yields in corporate bonds. The orange line illustrates US Treasury TIPS which reflect investor expectations of future inflation. Over the trailing year, TIPS yields had already been trending generally lower due to concerns about the sustainability of global economic growth. Following the drawdown in the 1st quarter, TIPS yields were negative as investors believed that the US economy would enter a recession.
- The lower graph provides a snapshot of the US Treasury yield curve at the end of each of the last four calendar quarters. The downward shift in US interest rates is clearly visible over the last quarter. The primary driver of this change in the curve was due to the supportive actions taken by the Fed, which reversed recent interest rate increases, and a broad flight to the perceived safety of US Treasury securities.



Mar-19 Apr-19 May-19 Jun-19 Jul-19 Aug-19 Sep-19 Oct-19 Nov-19 Dec-19 Jan-20 Feb-20 Mar-20

-1.00





Source: US Department of Treasury, FRED (Federal Reserve of St. Louis)

Total Fund Compliance			
Total Fulld Compliance	Yes	No	N/A
A. The total plan return equaled or exceeded the total plan benchmark over the trailing three year period.			
B. The total plan return ranked in the top 50% of its peers over the trailing three year period.			
C. The total plan return equaled or exceeded 8.0% (the current assumed actuarial rate of return is 6.75%), and equaled or exceeded the CPI+5%, over the trailing one year period.			

Manager's Compliance		T. Sto		Boston			Rhumbline (R1000V)			Rhumbline (R1000G)		-
		No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
A. Perform above the bottom quartile (75th percentile) of his or her peer group over two consecutive quarters or annual period.												
B. Did not fall in the southeastern quadrant of the risk/return scattergram for three- and/or five-year time periods.												
C. Five-year risk-adjusted return (alpha) is above that of the median manager within the appropriate peer group.												
D. Did not underperform its index for four consecutive quarters.												
E. Performed above the median (50th percentile) of his or her peer group over rolling three-year periods.												
F. Positive alpha for three-year time periods.												
G. Has there been organizational stability related to changes in professionals.												
H. Has there been organizational stability related to significant account losses.												
I. Has there been organizational stability related to significant growth of new business.												
J. Has there been organizational stability related to change in ownership.												

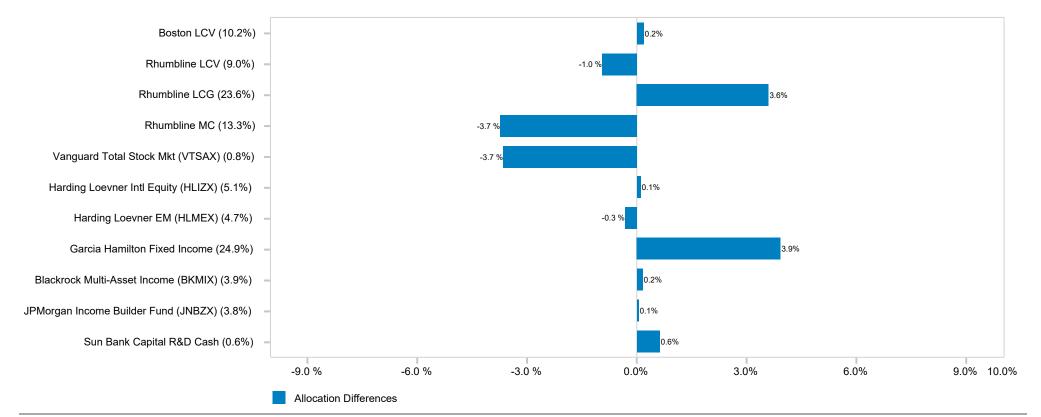


Manager's Compliance	Rhu	mbline Cap	Mid-		Intl Ed			EM Ed			ia Han ed Inco	nilton ome
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
A. Perform above the bottom quartile (75th percentile) of his or her peer group over two consecutive quarters or annual period.												
B. Did not fall in the southeastern quadrant of the risk/return scattergram for three- and/or five-year time periods.												
C. Five-year risk-adjusted return (alpha) is above that of the median manager within the appropriate peer group.												
D. Did not underperform its index for four consecutive quarters.												
E. Performed above the median (50th percentile) of his or her peer group over rolling three-year periods.												
F. Positive alpha for three-year time periods.												
G. Has there been organizational stability related to changes in professionals.												
H. Has there been organizational stability related to significant account losses.												
I. Has there been organizational stability related to significant growth of new business.												
J. Has there been organizational stability related to change in ownership.												

Manager's Compliance		lorgar der (JN			rock Net I (BK				
	Yes	No	N/A	Yes	No	N/A			
A. Perform above the bottom quartile (75th percentile) of his or her peer group over two consecutive quarters or annual period.									
B. Did not fall in the southeastern quadrant of the risk/return scattergram for three- and/or five-year time periods.									
C. Five-year risk-adjusted return (alpha) is above that of the median manager within the appropriate peer group.									
D. Did not underperform its index for four consecutive quarters.									
E. Performed above the median (50th percentile) of his or her peer group over rolling three-year periods.									
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J. Has there been organizational stability related to change in ownership.									

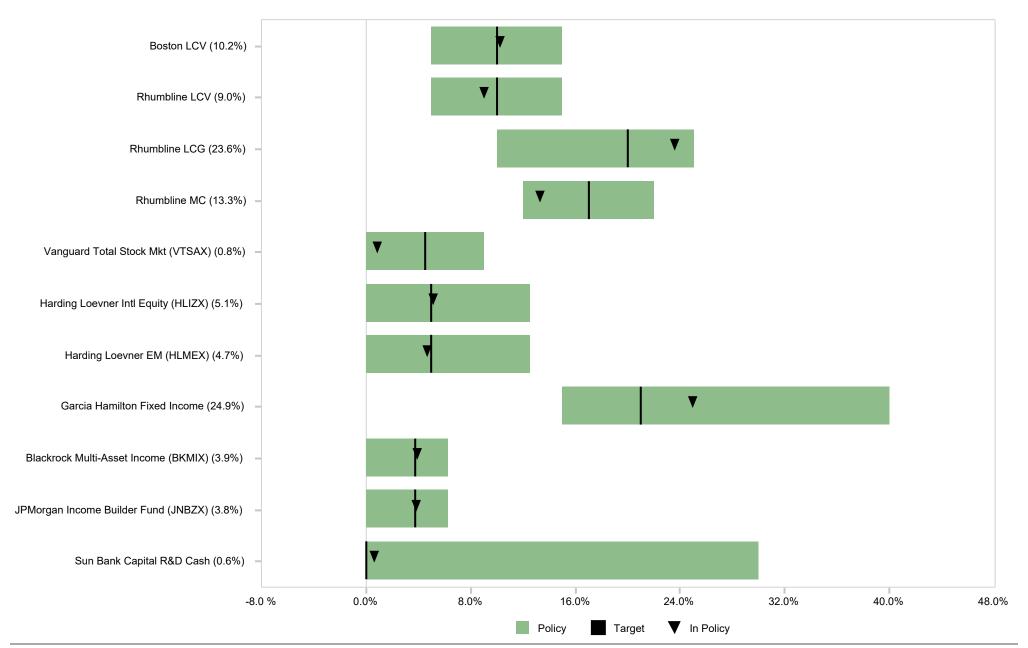


Asset Allocation Compliance					
	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Total Fund	115,599,793	100.0	100.0	0.0	-
Boston LCV	11,787,554	10.2	10.0	0.2	-227,575
Rhumbline LCV	10,458,099	9.0	10.0	-1.0	1,101,880
Rhumbline LCG	27,275,240	23.6	20.0	3.6	-4,155,282
Rhumbline MC	15,348,243	13.3	17.0	-3.7	4,303,722
Vanguard Total Stock Mkt (VTSAX)	973,657	0.8	4.5	-3.7	4,228,333
Harding Loevner Intl Equity (HLIZX)	5,893,734	5.1	5.0	0.1	-113,744
Harding Loevner EM (HLMEX)	5,401,759	4.7	5.0	-0.3	378,230
Garcia Hamilton Fixed Income	28,820,433	24.9	21.0	3.9	-4,544,477
Blackrock Multi-Asset Income (BKMIX)	4,515,526	3.9	3.8	0.2	-180,534
JPMorgan Income Builder Fund (JNBZX)	4,393,312	3.8	3.8	0.1	-58,320
Sun Bank Capital R&D Cash	732,234	0.6	0.0	0.6	-732,234





Executive Summary

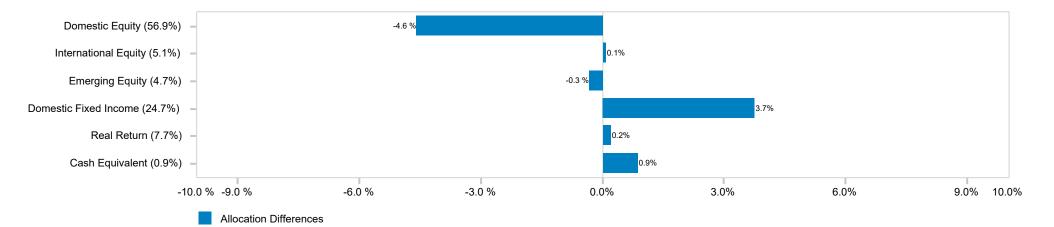




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	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Domestic Equity	65,783,246	56.9	61.5	-4.6	5,310,626
International Equity	5,893,734	5.1	5.0	0.1	-113,744
Emerging Equity	5,401,759	4.7	5.0	-0.3	378,230
Domestic Fixed Income	28,609,126	24.7	21.0	3.7	-4,333,169
Real Return	8,908,838	7.7	7.5	0.2	-238,854
Cash Equivalent	1,003,089	0.9	0.0	0.9	-1,003,089
Total Fund	115,599,793	100.0	100.0	0.0	_



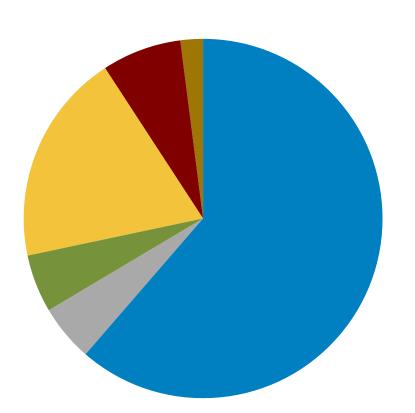


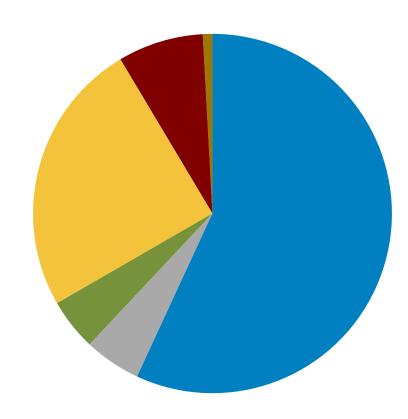


Asset Allocation Compliance

Asset Allocation By Segment as of December 31, 2019 : \$143,168,202

Asset Allocation By Segment as of March 31, 2020 : \$115,599,793



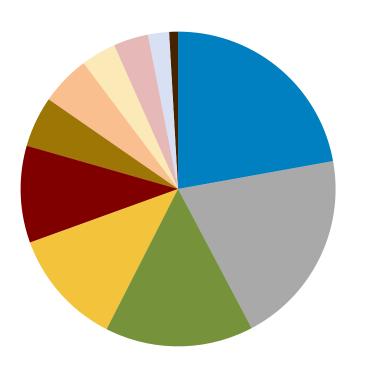


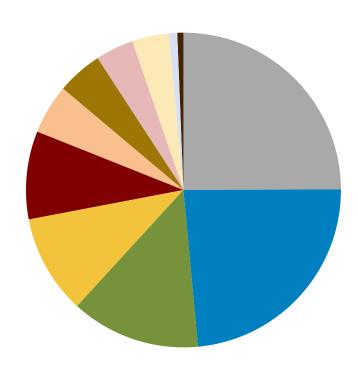
ocation			Allocation		
Segments	Market Value	Allocation	Segments	Market Value	Allocation
■ Domestic Equity	87,855,183	61.4	■ Domestic Equity	65,783,246	56.9
International Equity	7,306,510	5.1	International Equity	5,893,734	5.1
Emerging Equity	7,464,610	5.2	Emerging Equity	5,401,759	4.7
Domestic Fixed Income	27,368,630	19.1	Domestic Fixed Income	28,609,126	24.7
■ Real Return	10,258,461	7.2	■ Real Return	8,908,838	7.7
■ Cash Equivalent	2,914,808	2.0	Cash Equivalent	1,003,089	0.9



Asset Allocation By Manager as of December 31, 2019 : \$143,168,202

Asset Allocation By Manager as of March 31, 2020 : \$115,599,793





ocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
■ Rhumbline LCG	31,729,696	22.2	Garcia Hamilton Fixed Income	28,820,433	24.9
■ Garcia Hamilton Fixed Income	28,785,260	20.1	Rhumbline LCG	27,275,240	23.6
■ Rhumbline MC	21,805,816	15.2	■ Rhumbline MC	15,348,243	13.3
Boston LCV	17,152,350	12.0	Boston LCV	11,787,554	10.2
■ Rhumbline LCV	14,256,362	10.0	■ Rhumbline LCV	10,458,099	9.0
■ Harding Loevner EM (HLMEX)	7,464,610	5.2	Harding Loevner Intl Equity (HLIZX)	5,893,734	5.1
Harding Loevner Intl Equity (HLIZX)	7,306,510	5.1	Harding Loevner EM (HLMEX)	5,401,759	4.7
JPMorgan Income Builder Fund (JNBZX)	5,144,260	3.6	Blackrock Multi-Asset Income (BKMIX)	4,515,526	3.9
■ Blackrock Multi-Asset Income (BKMIX)	5,114,200	3.6	JPMorgan Income Builder Fund (JNBZX)	4,393,312	3.8
■ Vanguard Total Stock Mkt (VTSAX)	3,108,250	2.2	Vanguard Total Stock Mkt (VTSAX)	973,657	0.8
■ Sun Bank Capital R&D Cash	1,300,886	0.9	■ Sun Bank Capital R&D Cash	732,234	0.6



Financial Reconciliation Total Fund

1 Quarter Ending March 31, 2020

Financial Reconciliation Quarter to Date									
	Market Value 01/01/2020	Contributions	Distributions	Net Transfers	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 03/31/2020
Vanguard Total Stock Mkt (VTSAX)	3,108,250	-	-	-1,753,478	-	-	7,498	-388,613	973,657
Boston LCV	17,152,350	-	-	-	-16,894	-1,927	99,604	-5,445,579	11,787,554
Rhumbline LCV	14,256,362	-	-	3,288	-3,288	-496	72,051	-3,869,818	10,458,099
Rhumbline LCG	31,729,696	-	-	3,288	-3,288	-1,488	73,781	-4,526,749	27,275,240
Rhumbline MC	21,805,816	-	-	-	-	-751	71,476	-6,528,298	15,348,243
Harding Loevner EM (HLMEX)	7,464,610	-	-	-	-	-	-	-2,062,851	5,401,759
Harding Loevner Intl Equity (HLIZX)	7,306,510	-	-	-	-	-	-	-1,412,776	5,893,734
Garcia Hamilton Fixed Income	28,785,260	-	-	-	-13,944	-3,224	168,049	-115,708	28,820,433
JPMorgan Income Builder Fund (JNBZX)	5,144,260	-	-	-	-	-	47,843	-798,791	4,393,312
Blackrock Multi-Asset Income (BKMIX)	5,114,200	-	-	-	-	-	52,700	-651,375	4,515,526
Sun Bank Capital R&D Cash	1,300,886	261,548	-2,553,548	1,746,903	-	-25,465	1,910	-	732,234
Total Fund	143,168,202	261,548	-2,553,548	-	-37,413	-33,351	594,912	-25,800,557	115,599,793



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Asset Allocation & Performance												
	All	ocation					Performa	ance(%)				
	Market Value \$	%	Q.	TR	FY	TD	1 \	/R	3 '	YR	5 `	YR
Total Fund Composite	115,599,793	100.0	-17.80	(99)	-12.34	(98)	-8.28	(95)	2.12	(79)	3.39	(59)
Policy Index			-17.49	(99)	-12.06	(97)	-8.39	(95)	1.76	(89)	3.31	(62)
Difference			-0.31		-0.28		0.11		0.36		0.08	
All Public Plans-Total Fund Median			-13.14		-8.52		-4.73		2.88		3.52	
Total Equity Composite	77,138,288	66.7	-23.48		-16.55		-12.44		1.81		4.13	
Total Equity Index			-23.55		-16.92		-13.56		1.27		3.89	
Difference			0.07		0.37		1.12		0.54		0.24	
Total Domestic Equity	65,842,794	57.0										
Vanguard Total Stock Mkt (VTSAX)	973,657	0.8	-20.87	(41)	-13.78	(37)	-9.28	(35)	N/A		N/A	
CRSP U.S. Total Market TR Index			-20.88	(41)	-13.76	(37)	-9.24	(35)	3.99	(31)	5.74	(24)
Difference			0.01		-0.02		-0.04		N/A		N/A	
IM U.S. Equity (MF) Median			-23.21		-17.64		-14.20		-0.07		2.18	
Boston LCV	11,787,554	10.2	-31.20	(86)	-25.62	(85)	-19.33	(70)	-2.59	(68)	1.96	(58)
Russell 1000 Value Index			-26.73	(57)	-21.30	(59)	-17.17	(58)	-2.18	(63)	1.90	(58)
Difference			-4.47		-4.32		-2.16		-0.41		0.06	
IM U.S. Large Cap Value Equity (SA+CF) Median			-26.27		-20.54		-16.16		-1.15		2.38	
Rhumbline LCV	10,458,099	9.0	-26.64	(52)	-21.22	(51)	-17.08	(50)	-2.13	(53)	1.94	(36)
Russell 1000 Value Index			-26.73	(53)	-21.30	(51)	-17.17	(51)	-2.18	(54)	1.90	(37)
Difference			0.09		0.08		0.09		0.05		0.04	
IM U.S. Large Cap Value Equity (MF) Median			-26.58		-21.10		-17.13		-1.92		1.48	
Rhumbline LCG	27,275,240	23.6	-14.03	(63)	-4.92	(46)	0.97	(27)	11.33	(42)	10.36	(24)
Russell 1000 Growth Index			-14.10	(64)	-4.98	(48)	0.91	(28)	11.32	(42)	10.36	(24)
Difference			0.07		0.06		0.06		0.01		0.00	
IM U.S. Large Cap Growth Equity (MF) Median			-13.43		-5.12		-0.82		10.65		9.07	
Rhumbline MC	15,348,243	13.3	-29.61	(71)	-24.66	(68)	-22.44	(73)	-4.07	(66)	0.55	(58)
S&P MidCap 400 Index			-29.70	(71)	-24.73	(68)	-22.51	(73)	-4.09	(67)	0.56	(58)
Difference			0.09		0.07		0.07		0.02		-0.01	
IM U.S. Mid Cap Equity (MF) Median			-25.45		-20.60		-17.11		-1.19		1.76	



	Allo	ocation					Perform	ance(%)				
	Market Value \$	%	Q.	TR	FY	TD	1	YR	3	YR	5	YR
Total International Equity	·											
Harding Loevner Intl Equity (HLIZX) MSCI EAFE Index Difference IM International Equity (MF) Median	5,893,734	5.1	-19.37 -22.72 3.35 -23.74	(18) (41)	-11.25 -16.37 5.12 -16.56	(16) (49)	-9.52 -13.92 4.40 -15.96	(17) (38)	0.86 -1.33 2.19 -2.51	(20) (37)	2.14 -0.13 2.27 -0.95	(13) (36)
Harding Loevner EM (HLMEX) MSCI Emerging Markets Index Difference IM Emerging Markets Equity (MF) Median	5,401,759	4.7	-27.64 -23.57 -4.07 -24.82	(78) (35)	-18.84 -14.45 -4.39 -16.34	(68) (29)	-20.55 -17.36 -3.19 -18.26	(69) (45)	-3.55 -1.25 -2.30 -3.02	(57) (30)	-0.62 0.01 -0.63 -1.13	(41) (32)
Total Fixed Income Composite	28,820,433	24.9	0.18		0.51		4.43		3.30		2.24	
Total Fixed Income Index Difference			2.40 -2.22		2.78 - 2.27		6.88 -2.45		3.88 -0.58		2.78 -0.54	
Garcia Hamilton Fixed Income Bloomberg Barclays Intermediate US Govt/Credit Idx Difference IM U.S. Intermediate Duration (SA+CF) Median	28,820,433	24.9	0.18 2.40 -2.22 1.30	(77) (24)	0.51 2.78 -2.27 1.72	(80) (24)	4.43 6.88 -2.45 5.76	(78) (21)	N/A 3.79 N/A 3.72	(44)	N/A 2.76 N/A 2.83	(64)
Total Real Return Composite	8,908,838	7.7										
JPMorgan Income Builder Fund (JNBZX) 50% MSCI World Index (Net)/50% BB US Agg Index Difference IM Flexible Portfolio (MF) Median	4,393,312	3.8	-14.60 -9.42 -5.18 -15.32	(45) (14)	-12.07 -5.51 -6.56 -11.36	(55) (13)	-8.12 -0.64 -7.48 -8.40	(48) (11)	N/A 3.68 N/A -0.06	(5)	N/A 3.57 N/A 1.15	(7)
Blackrock Multi-Asset Income (BKMIX) 50% MSCI World Index (Net)/50% BB US Agg Index Difference IM Flexible Portfolio (MF) Median	4,515,526	3.9	-11.71 -9.42 -2.29 -15.32	(24) (14)	-9.60 -5.51 -4.09 -11.36	(33) (13)	-5.90 -0.64 -5.26 -8.40	(30) (11)	N/A 3.68 N/A -0.06	(5)	N/A 3.57 N/A 1.15	(7)
Sun Bank Capital R&D Cash	732,234	0.6										



Asset Allocation & Performance							
		ocation			Performance(%)		
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR
Total Fund Composite	115,599,793	100.0	-17.82	-12.40	-8.37	2.01	3.24
Policy Index			-17.49	-12.06	-8.39	1.76	3.31
Difference			-0.33	-0.34	0.02	0.25	-0.07
Total Equity Composite	77,138,288	66.7	-23.50	-16.62	-12.51	1.70	4.00
Total Equity Index			-23.55	-16.92	-13.56	1.27	3.89
Difference			0.05	0.30	1.05	0.43	0.11
Total Domestic Equity	65,842,794	57.0					
Vanguard Total Stock Mkt (VTSAX)	973,657	0.8	-20.87	-13.78	-9.28	N/A	N/A
CRSP U.S. Total Market TR Index			-20.88	-13.76	-9.24	3.99	5.74
Difference			0.01	-0.02	-0.04	N/A	N/A
Boston LCV	11,787,554	10.2	-31.27	-25.91	-19.65	-2.97	1.66
Russell 1000 Value Index			-26.73	-21.30	-17.17	-2.18	1.90
Difference			-4.54	-4.61	-2.48	-0.79	-0.24
Rhumbline LCV	10,458,099	9.0	-26.66	-21.25	-17.12	-2.17	1.88
Russell 1000 Value Index			-26.73	-21.30	-17.17	-2.18	1.90
Difference			0.07	0.05	0.05	0.01	-0.02
Rhumbline LCG	27,275,240	23.6	-14.04	-4.93	0.94	11.29	10.31
Russell 1000 Growth Index			-14.10	-4.98	0.91	11.32	10.36
Difference			0.06	0.05	0.03	-0.03	-0.05
Rhumbline MC	15,348,243	13.3	-29.61	-24.67	-22.46	-4.11	0.50
S&P MidCap 400 Index			-29.70	-24.73	-22.51	-4.09	0.56
Difference			0.09	0.06	0.05	-0.02	-0.06



	Allo	ocation			Performance(%)		
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR
Total International Equity							
Harding Loevner Intl Equity (HLIZX)	5,893,734	5.1	-19.37	-11.25	-9.52	0.86	2.14
MSCI EAFE Index			-22.72	-16.37	-13.92	-1.33	-0.13
Difference			3.35	5.12	4.40	2.19	2.27
Harding Loevner EM (HLMEX)	5,401,759	4.7	-27.64	-18.84	-20.55	-3.55	-0.62
MSCI Emerging Markets Index			-23.57	-14.45	-17.36	-1.25	0.01
Difference			-4.07	-4.39	-3.19	-2.30	-0.63
Total Fixed Income Composite	28,820,433	24.9	0.13	0.42	4.23	3.09	2.08
Total Fixed Income Index			2.40	2.78	6.88	3.88	2.78
Difference			-2.27	-2.36	-2.65	-0.79	-0.70
Garcia Hamilton Fixed Income	28,820,433	24.9	0.13	0.42	4.23	N/A	N/A
Bloomberg Barclays Intermediate US Govt/Credit Idx			2.40	2.78	6.88	3.79	2.76
Difference			-2.27	-2.36	-2.65	N/A	N/A
Total Real Return Composite	8,908,838	7.7					
JPMorgan Income Builder Fund (JNBZX)	4,393,312	3.8	-14.60	-12.07	-8.12	N/A	N/A
50% MSCI World Index (Net)/50% BB US Agg Index			-9.42	-5.51	-0.64	3.68	3.57
Difference			-5.18	-6.56	-7.48	N/A	N/A
Blackrock Multi-Asset Income (BKMIX)	4,515,526	3.9	-11.71	-9.60	-5.90	N/A	N/A
50% MSCI World Index (Net)/50% BB US Agg Index			-9.42	-5.51	-0.64	3.68	3.57
Difference			-2.29	-4.09	-5.26	N/A	N/A
Sun Bank Capital R&D Cash	732,234	0.6					

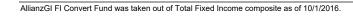


Asset Allocation & Performance	<u></u>							1011				
		cation					Perform					
	Market Value \$	%	FYTD	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	То	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011
Total Fund Composite	115,599,793	100.0	-12.34 (98)	3.11 (80)	10.95 (4)	13.03 (27)	10.68 (24)	0.48 (22)	12.47 (9)	13.40 (30)	19.38 (18)	0.85 (47)
Policy Index			-12.06 (97)	3.34 (77)	9.71 (11)	12.18 (45)	11.13 (17)	0.05 (31)	10.98 (32)	11.68 (55)	17.79 (48)	2.69 (18)
Difference			-0.28	-0.23	1.24	0.85	-0.45	0.43	1.49	1.72	1.59	-1.84
All Public Plans-Total Fund Median			-8.52	4.32	7.13	11.82	9.74	-0.78	9.93	12.02	17.55	0.68
Total Equity Composite	77,138,288	66.7	-16.55	1.64	15.22	19.43	14.32	-0.50	16.60	22.52	29.57	-2.25
Total Equity Index			-16.92	1.28	14.77	18.57	14.84	-1.30	15.96	21.23	28.59	0.04
Difference			0.37	0.36	0.45	0.86	-0.52	0.80	0.64	1.29	0.98	-2.29
Total Domestic Equity	65,842,794	57.0										
Vanguard Total Stock Mkt (VTSAX)	973,657	8.0	-13.78 (37)	2.88 (34)	17.62 (31)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CRSP U.S. Total Market TR Index			-13.76 (37)	2.92 (34)	17.62 (31)	18.64 (40)	14.99 (27)	-0.55 (46)	17.77 (23)	21.59 (55)	29.96 (29)	0.46 (32)
Difference			-0.02	-0.04	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Equity (MF) Median			-17.64	0.12	13.30	17.48	12.11	-0.92	13.74	22.54	27.33	-1.87
Boston LCV	11,787,554	10.2	-25.62 (85)	3.21 (44)	14.27 (29)	19.42 (35)	15.54 (30)	-3.23 (49)	20.35 (26)	27.45 (21)	32.67 (10)	-5.35 (86)
Russell 1000 Value Index			-21.30 (59)	4.00 (39)	9.45 (78)	15.12 (76)	16.19 (26)	-4.42 (65)	18.89 (42)	22.30 (60)	30.92 (26)	-1.89 (62)
Difference			-4.32	-0.79	4.82	4.30	-0.65	1.19	1.46	5.15	1.75	-3.46
IM U.S. Large Cap Value Equity (SA+CF) Median			-20.54	2.32	11.76	17.92	13.30	-3.29	18.36	23.68	28.16	-0.98
Dana LCG	-	0.0	N/A	N/A	N/A	23.86 (18)	8.58 (79)	5.07 (31)	19.65 (35)	19.30 (63)	29.94 (33)	N/A
Russell 1000 Growth Index			-4.98 (37)	3.71 (52)	26.30 (37)	21.94 (38)	13.76 (23)	3.17 (54)	19.15 (40)	19.27 (64)	29.19 (39)	3.78 (30)
Difference			N/A	N/A	N/A	1.92	-5.18	1.90	0.50	0.03	0.75	N/A
IM U.S. Large Cap Growth Equity (SA+CF) Median			-6.14	3.82	24.44	20.83	11.60	3.53	18.19	20.25	27.69	1.38
Rhumbline LCV	10,458,099	9.0	-21.22 (51)	4.03 (30)	9.43 (61)	15.13 (71)	16.17 (17)	-4.56 (44)	18.82 (20)	22.20 (53)	30.80 (17)	-1.87 (29)
Russell 1000 Value Index			-21.30 (51)	4.00 (30)	9.45 (61)	15.12 (71)	16.19 (17)	-4.42 (41)	18.89 (19)	22.30 (52)	30.92 (15)	-1.89 (30)
Difference			0.08	0.03	-0.02	0.01	-0.02	-0.14	-0.07	-0.10	-0.12	0.02
IM U.S. Large Cap Value Equity (MF) Median			-21.10	1.87	10.42	16.68	12.47	-4.90	17.21	22.35	28.44	-3.39
Rhumbline LCG	27,275,240	23.6	-4.92 (46)	3.71 (33)	26.25 (39)	21.93 (28)	13.70 (18)	3.17 (44)	19.11 (23)	19.24 (52)	29.11 (36)	3.77 (17)
Russell 1000 Growth Index			-4.98 (48)	3.71 (33)	26.30 (38)	21.94 (28)	13.76 (18)	3.17 (44)	19.15 (22)	19.27 (52)	29.19 (35)	3.78 (17)
Difference			0.06	0.00	-0.05	-0.01	-0.06	0.00	-0.04	-0.03	-0.08	-0.01
IM U.S. Large Cap Growth Equity (MF) Median			-5.12	2.32	25.06	20.13	10.96	2.84	16.89	19.37	27.40	0.50
Rhumbline MC	15,348,243	13.3	-24.66 (68)	-2.49 (75)	14.16 (47)	17.50 (39)	15.10 (15)	1.47 (38)	11.81 (50)	27.55 (44)	28.53 (26)	-1.12 (39)
S&P MidCap 400 Index			-24.73 (68)	-2.49 (75)	14.21 (47)	17.52 (39)	15.33 (15)	1.40 (38)	11.82 (50)	27.68 (42)	28.54 (26)	-1.28 (40)
Difference			0.07	0.00	-0.05	-0.02	-0.23	0.07	-0.01	-0.13	-0.01	0.16
IM U.S. Mid Cap Equity (MF) Median			-20.60	1.77	13.62	16.47	10.50	-0.20	11.75	27.09	25.48	-2.48

AllianzGI FI Convert Fund was taken out of Total Fixed Income composite as of 10/1/2016.



	Alloc	cation					Perform	ance(%)				
	Market Value \$	%	FYTD	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011
Total International Equity							•	•	•		•	
Harding Loevner Intl Equity (HLIZX) MSCI EAFE Index	5,893,734	5.1	-11.25 (16) -16.37 (49)	-3.34 (62) -0.82 (41)	5.85 (10) 3.25 (21)	18.66 (57) 19.65 (48)	17.62 (13) 7.06 (65)	-9.03 (52) -8.27 (47)	4.34 (49) 4.70 (44)	16.27 (57) 24.29 (19)	19.57 (20) 14.33 (66)	N/A -8.94 (24)
Difference IM International Equity (MF) Median			5.12 -16.56	-2.52 -1.94	2.60 0.08	-0.99 19.36	10.56 9.32	-0.76 -8.75	-0.36 4.26	-8.02 17.81	5.24 16.20	N/A -12.08
Harding Loevner EM (HLMEX) MSCI Emerging Markets Index Difference IM Emerging Markets Equity (MF) Median	5,401,759	4.7	-18.84 (68) -14.45 (29) -4.39 -16.34	0.78 (46) -1.63 (66) 2.41 0.29	-4.30 (54) -0.44 (20) -3.86 -3.95	21.95 (42) 22.91 (35) -0.96 21.11	` '	-17.44 (42) -18.98 (58) 1.54 -18.44	7.12 (21) 4.66 (46) 2.46 4.28	5.79 (23) 1.33 (60) 4.46 2.31	23.46 (6) 17.34 (45) 6.12 16.83	N/A -15.89 (35) N/A -17.84
Total Fixed Income Composite	28,820,433	24.9	0.51	7.48	0.00	0.33	4.95	1.36	4.05	-1.24	5.25	5.25
Total Fixed Income Index Difference			2.78 -2.27	8.17 -0.69	-1.04 1.04	0.16 0.17	5.43 -0.48	1.83 -0.47	3.65 0.40	-1.51 0.27	5.10 0.15	5.26 -0.01
Denver Core FI Denver FI Index Difference IM U.S. Broad Market Fixed Income (SA+CF) Median	-	0.0	N/A 2.89 (22) N/A 1.35	N/A 8.59 (89) N/A 10.40	N/A -1.01 (76) N/A -0.62	0.49 (75) 0.20 (84) 0.29 1.03	4.26 (97) 3.85 (99) 0.41 5.92	2.62 (59) 2.73 (55) -0.11 2.82	3.70 (92) 2.88 (98) 0.82 4.94	-0.54 (39) -1.18 (63) 0.64 -0.85	N/A N/A N/A 7.47	N/A N/A N/A 5.19
Garcia Hamilton Fixed Income Bloomberg Barclays Intermediate US Govt/Credit Idx Difference IM U.S. Intermediate Duration (SA+CF) Median	28,820,433	24.9	0.51 (80) 2.78 (24) -2.27 1.72	7.48 (79) 8.17 (38) -0.69 7.98	N/A -0.96 (96) N/A -0.39	N/A 0.23 (87) N/A 0.69	N/A 3.52 (76) N/A 3.90	N/A 2.68 (52) N/A 2.70	N/A 2.20 (84) N/A 2.88	N/A -0.50 (66) N/A -0.27	N/A 4.40 (81) N/A 5.56	N/A 3.40 (62) N/A 3.61
State Street Core FI SS Fixed Inc Index Difference IM U.S. Broad Market Core Fixed Income (MF) Median	- n	0.0	N/A 3.33 (12) N/A 0.74	N/A 10.30 (24) N/A 9.81	N/A -1.22 (41) N/A -1.34	0.06 (65) 0.07 (64) -0.01 0.48	5.22 (49) 5.19 (51) 0.03 5.21	2.97 (7) 2.94 (9) 0.03 1.98	3.94 (60) 3.96 (59) -0.02 4.19	-1.76 (57) -1.68 (53) -0.08 -1.62	5.17 (81) 5.16 (81) 0.01 6.79	5.25 (14) 5.26 (14) -0.01 4.30
Total Real Return Composite	8,908,838	7.7										
JPMorgan Income Builder Fund (JNBZX) 50% MSCI World Index (Net)/50% BB US Agg Index Difference IM Flexible Portfolio (MF) Median	4,393,312	3.8	-12.07 (55) -5.51 (13) -6.56 -11.36	N/A 6.40 (18) N/A 2.59	N/A 4.93 (36) N/A 3.38	N/A 8.80 (53) N/A 9.02	N/A 8.47 (51) N/A 8.55	N/A -0.98 (19) N/A -4.23	N/A 8.10 (49) N/A 7.99	N/A 8.84 (46) N/A 8.17	N/A 13.48 (64) N/A 15.66	N/A 0.72 (35) N/A -0.87
Blackrock Multi-Asset Income (BKMIX) 50% MSCI World Index (Net)/50% BB US Agg Index Difference IM Flexible Portfolio (MF) Median	4,515,526	3.9	-9.60 (33) -5.51 (13) -4.09 -11.36	6.39 (18) 6.40 (18) -0.01 2.59	N/A 4.93 (36) N/A 3.38	N/A 8.80 (53) N/A 9.02	N/A 8.47 (51) N/A 8.55	N/A -0.98 (19) N/A -4.23	N/A 8.10 (49) N/A 7.99	N/A 8.84 (46) N/A 8.17	N/A 13.48 (64) N/A 15.66	N/A 0.72 (35) N/A -0.87





	Alloc	Allocation		Performance(%)								
	Market Value \$	%	FYTD	Oct-2018 To Sep-2019	То	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	То	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011
Convertible												
AllianzGI FI Convert	-	0.0	N/A	N/A	N/A	13.56 (19)	7.21 (73)	-2.50 (71)	N/A	N/A	N/A	N/A
ICE BofAML All Convertibles ex Mandatory			-6.43 (43)	3.71 (75)	12.96 (12)	16.52 (9)	9.84 (41)	-2.51 (71)	14.45 (16)	20.71 (11)	16.46 (31)	-0.69 (48)
Difference			N/A	N/A	N/A	-2.96	-2.63	0.01	N/A	N/A	N/A	N/A
IM U.S. Convertible Bonds (SA+CF) Median			-6.74	4.63	8.99	9.90	8.65	-0.14	9.93	15.41	14.01	-0.83
Sun Bank Capital R&D Cash	732.234	0.6										

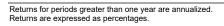


Asset Allocation & Performance												
	Allo	cation					Perform	ance(%)				
	Market Value \$	%	FYTD	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011
Total Fund Composite	115,599,793	100.0	-12.40	3.04	10.81	12.85	10.49	0.29	12.25	13.20	19.17	0.71
Policy Index			-12.06	3.34	9.71	12.18	11.13	0.05	10.98	11.68	17.79	2.69
Difference			-0.34	-0.30	1.10	0.67	-0.64	0.24	1.27	1.52	1.38	-1.98
Total Equity Composite	77,138,288	66.7	-16.62	1.60	15.10	19.23	14.09	-0.53	16.59	22.52	29.57	-2.26
Total Equity Index			-16.92	1.28	14.77	18.57	14.84	-1.30	15.96	21.23	28.59	0.04
Difference			0.30	0.32	0.33	0.66	-0.75	0.77	0.63	1.29	0.98	-2.30
Total Domestic Equity	65,842,794	57.0										
Vanguard Total Stock Mkt (VTSAX)	973,657	0.8	-13.78	2.88	17.62	N/A						
CRSP U.S. Total Market TR Index			-13.76	2.92	17.62	18.64	14.99	-0.55	17.77	21.59	29.96	0.46
Difference			-0.02	-0.04	0.00	N/A						
Boston LCV	11,787,554	10.2	-25.91	3.10	13.80	18.83	15.48	-3.23	20.35	27.45	32.67	-5.35
Russell 1000 Value Index			-21.30	4.00	9.45	15.12	16.19	-4.42	18.89	22.30	30.92	-1.89
Difference			-4.61	-0.90	4.35	3.71	-0.71	1.19	1.46	5.15	1.75	-3.46
Dana LCG	-	0.0	N/A	N/A	N/A	23.31	8.10	4.58	19.10	18.79	29.38	N/A
Russell 1000 Growth Index			-4.98	3.71	26.30	21.94	13.76	3.17	19.15	19.27	29.19	3.78
Difference			N/A	N/A	N/A	1.37	-5.66	1.41	-0.05	-0.48	0.19	N/A
Rhumbline LCV	10,458,099	9.0	-21.25	4.00	9.39	15.07	16.10	-4.64	18.81	22.20	30.80	-1.89
Russell 1000 Value Index			-21.30	4.00	9.45	15.12	16.19	-4.42	18.89	22.30	30.92	-1.89
Difference			0.05	0.00	-0.06	-0.05	-0.09	-0.22	-0.08	-0.10	-0.12	0.00
Rhumbline LCG	27,275,240	23.6	-4.93	3.68	26.21	21.85	13.63	3.10	19.10	19.24	29.11	3.76
Russell 1000 Growth Index			-4.98	3.71	26.30	21.94	13.76	3.17	19.15	19.27	29.19	3.78
Difference			0.05	-0.03	-0.09	-0.09	-0.13	-0.07	-0.05	-0.03	-0.08	-0.02
Rhumbline MC	15,348,243	13.3	-24.67	-2.52	14.11	17.43	15.04	1.39	11.79	27.55	28.53	-1.15
S&P MidCap 400 Index			-24.73	-2.49	14.21	17.52	15.33	1.40	11.82	27.68	28.54	-1.28
Difference			0.06	-0.03	-0.10	-0.09	-0.29	-0.01	-0.03	-0.13	-0.01	0.13



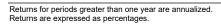
	Allo	cation					Perform	nance(%)				
	Market Value \$	%	FYTD	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-201 To Sep-201
Total International Equity	•				оор 2010			- ССР = С.С	оор 2011		оор 2012	- ССР _С.
Harding Loevner Intl Equity (HLIZX)	5,893,734	5.1	-11.25	-3.34	5.85	18.66	17.62	-9.03	4.34	16.27	19.57	N/A
MSCI EAFE Index			-16.37	-0.82	3.25	19.65	7.06	-8.27	4.70	24.29	14.33	-8.94
Difference			5.12	-2.52	2.60	-0.99	10.56	-0.76	-0.36	-8.02	5.24	N/A
Harding Loevner EM (HLMEX)	5,401,759	4.7	-18.84	0.78	-4.30	21.95	19.76	-17.44	7.12	5.79	23.46	N/A
MSCI Emerging Markets Index			-14.45	-1.63	-0.44	22.91	17.21	-18.98	4.66	1.33	17.34	-15.89
Difference			-4.39	2.41	-3.86	-0.96	2.55	1.54	2.46	4.46	6.12	N/A
Total Fixed Income Composite	28,820,433	24.9	0.42	7.27	-0.22	0.15	4.81	1.36	4.02	-1.24	5.25	5.25
Total Fixed Income Index			2.78	8.17	-1.04	0.16	5.43	1.83	3.65	-1.51	5.10	5.26
Difference			-2.36	-0.90	0.82	-0.01	-0.62	-0.47	0.37	0.27	0.15	-0.01
Denver Core FI	-	0.0	N/A	N/A	N/A	0.27	4.03	2.40	3.46	-0.73	N/A	N/A
Denver FI Index			2.89	8.59	-1.01	0.20	3.85	2.73	2.88	-1.18	N/A	N/A
Difference			N/A	N/A	N/A	0.07	0.18	-0.33	0.58	0.45	N/A	N/A
Garcia Hamilton Fixed Income	28,820,433	24.9	0.42	7.27	N/A	N/A						
Bloomberg Barclays Intermediate US Govt/Credit Idx	(2.78	8.17	-0.96	0.23	3.52	2.68	2.20	-0.50	4.40	3.40
Difference			-2.36	-0.90	N/A	N/A						
State Street Core FI	-	0.0	N/A	N/A	N/A	-0.02	5.17	2.97	3.94	-1.76	5.17	5.25
SS Fixed Inc Index			3.33	10.30	-1.22	0.07	5.19	2.94	3.96	-1.68	5.16	5.26
Difference			N/A	N/A	N/A	-0.09	-0.02	0.03	-0.02	-0.08	0.01	-0.01
Total Real Return Composite	8,908,838	7.7										
JPMorgan Income Builder Fund (JNBZX)	4,393,312	3.8	-12.07	N/A	N/A							
50% MSCI World Index (Net)/50% BB US Agg Index	(-5.51	6.40	4.93	8.80	8.47	-0.98	8.10	8.84	13.48	0.72
Difference			-6.56	N/A	N/A							
Blackrock Multi-Asset Income (BKMIX)	4,515,526	3.9	-9.60	6.39	N/A	N/A						
50% MSCI World Index (Net)/50% BB US Agg Index	(-5.51	6.40	4.93	8.80	8.47	-0.98	8.10	8.84	13.48	0.72
Difference			-4.09	-0.01	N/A	N/A						
Convertible												
AllianzGI FI Convert	-	0.0	N/A	N/A	N/A	13.56	7.21	-2.50	N/A	N/A	N/A	N/A
ICE BofAML All Convertibles ex Mandatory			-6.43	3.71	12.96	16.52	9.84	-2.51	14.45	20.71	16.46	-0.69
Difference			N/A	N/A	N/A	-2.96	-2.63	0.01	N/A	N/A	N/A	N/A
Sun Bank Capital R&D Cash	732,234	0.6										

Historical Rolling P	Performance				
	QTR	1 YR	3 YR	5 YR	Inception
03/31/2020	-17.80	-8.28	2.12	3.39	7.86
12/31/2019	6.64	23.33	10.54	8.10	8.66
09/30/2019	0.99	3.11	8.94	7.54	8.49
06/30/2019	3.59	6.28	9.74	7.18	8.53
03/31/2019	10.53	4.68	9.58	7.21	8.48
12/31/2018	-10.84	-5.69	6.45	5.58	8.17
09/30/2018	4.10	10.95	11.55	9.42	8.69
06/30/2018	2.03	10.32	8.01	9.53	8.61
03/31/2018	-0.42	10.93	7.15	9.24	8.62
12/31/2017	4.89	16.15	8.27	10.73	8.72
09/30/2017	3.51	13.03	7.92	9.90	8.61
06/30/2017	2.60	12.71	6.45	10.11	8.55
03/31/2017	4.26	13.31	6.85	9.17	8.53
12/31/2016	2.08	10.12	6.19	10.07	8.44
09/30/2016	3.22	10.68	7.75	11.11	8.44
06/30/2016	3.14	1.35	8.23	8.45	8.39
03/31/2016	1.33	-2.12	7.36	7.98	8.35
12/31/2015	2.60	-0.76	9.18	8.46	8.38
09/30/2015	-5.49	0.48	8.62	9.06	8.35
06/30/2015	-0.38	5.61	12.32	11.82	8.69
03/31/2015	2.73	10.00	11.82	10.91	8.80
12/31/2014	3.89	9.58	13.93	11.18	8.77
09/30/2014	-0.67	12.47	15.04	11.00	8.69
06/30/2014	3.76	18.46	11.92	13.06	8.82
03/31/2014	2.34	14.92	10.89	13.71	8.75
12/31/2013	6.63	19.67	11.33	12.39	8.74
09/30/2013	4.62	13.40	10.93	8.82	8.53
06/30/2013	0.66	13.27	11.81	6.27	8.41
03/31/2013	6.57	10.60	9.91	5.93	8.48
12/31/2012	1.04	12.76	9.01	3.27	8.27
09/30/2012	4.50	19.38	9.73	3.36	8.32
06/30/2012	-1.71	4.48	11.24	3.06	8.20
03/31/2012	8.65	7.29	14.36	4.04	8.38
12/31/2011	6.97	2.27	9.95	2.61	8.06
09/30/2011	-8.54	0.85	4.08	2.12	7.82
06/30/2011	0.93	18.10	4.63	4.80	8.38
03/31/2011	3.57	11.90	3.98	4.45	8.44
12/31/2010	5.48	12.33	0.62	4.00	8.36
09/30/2010	7.11	9.75	-0.67	3.27	8.18
06/30/2010	-4.37	11.57	-0.67 -1.97	2.17	7.91





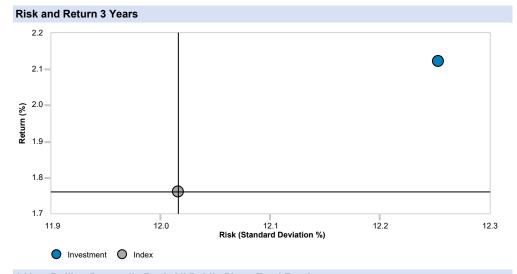
Historical Rolling F	Performance				
	QTR	1 YR	3 YR	5 YR	Inception
03/31/2020	-17.49	-8.39	1.76	3.31	7.88
12/31/2019	6.59	23.05	9.98	7.87	8.66
09/30/2019	0.67	3.34	8.34	7.18	8.50
06/30/2019	3.47	6.94	9.27	6.89	8.55
03/31/2019	10.82	5.44	8.94	6.97	8.50
12/31/2018	-10.49	-5.58	5.93	5.22	8.18
09/30/2018	4.18	9.71	11.00	8.72	8.69
06/30/2018	2.02	8.67	7.66	8.72	8.61
03/31/2018	-0.76	9.09	6.81	8.30	8.61
12/31/2017	4.01	14.48	7.92	9.82	8.73
09/30/2017	3.19	12.18	7.64	9.10	8.65
06/30/2017	2.42	12.26	6.29	9.31	8.61
03/31/2017	4.15	12.39	6.79	8.54	8.59
12/31/2016	1.91	9.96	6.06	9.16	8.51
09/30/2016	3.27	11.13	7.26	10.17	8.52
06/30/2016	2.54	2.29	7.59	7.82	8.47
03/31/2016	1.90	-0.61	6.72	7.51	8.45
12/31/2015	3.00	-0.15	8.26	7.90	8.45
09/30/2015	-4.95	0.05	7.44	8.45	8.41
06/30/2015	-0.37	4.57	10.76	11.18	8.73
03/31/2015	2.37	9.02	10.49	10.19	8.84
12/31/2014	3.21	8.66	12.18	10.59	8.83
09/30/2014	-0.66	10.98	13.44	10.63	8.78
06/30/2014	3.87	16.42	10.86	13.04	8.90
03/31/2014	2.03	12.17	9.85	14.37	8.83
12/31/2013	5.41	16.93	10.47	12.67	8.83
09/30/2013	4.21	11.68	10.54	8.80	8.68
06/30/2013	0.08	11.62	11.75	6.78	8.59
03/31/2013	6.36	10.29	9.93	6.41	8.68
12/31/2012	0.67	11.11	9.19	4.18	8.48
09/30/2012	4.16	17.79	10.17	3.97	8.55
06/30/2012	-1.11	4.83	12.41	3.61	8.45
03/31/2012	7.15	7.14	16.51	4.51	8.61
12/31/2011	6.73	3.77	11.80	3.30	8.36
09/30/2011	-7.30	2.69	5.04	2.74	8.13
06/30/2011	1.06	19.26	5.85	5.28	8.62
03/31/2011	3.79	12.43	4.91	4.90	8.68
12/31/2010	5.61	12.90	2.10	4.45	8.59
09/30/2010	7.67	10.56	0.15	3.59	8.41
06/30/2010	-4.73	13.60	-1.51	2.35	8.11

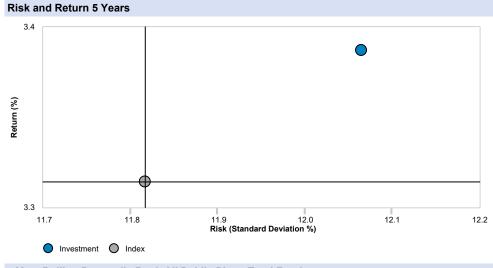


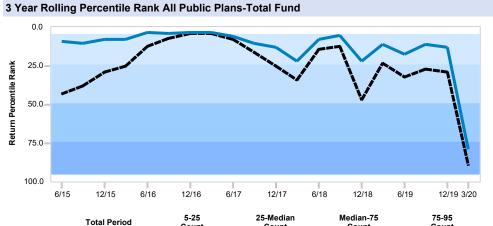


Historical Stati	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	2.12	12.25	0.09	104.36	9	102.31	3
Index	1 76	12 02	0.06	100.00	q	100.00	3

Historical Statistics 5 Years											
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters				
Investment	3.39	12.06	0.24	102.58	15	102.56	5				
Index	3.31	11.82	0.24	100.00	15	100.00	5				







Count

0 (0%)

8 (40%)

Count

0 (0%)

0 (0%)

Count

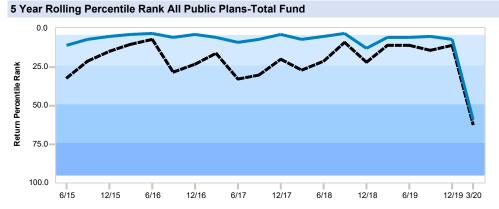
1 (5%)

1 (5%)

Count

19 (95%)

11 (55%)



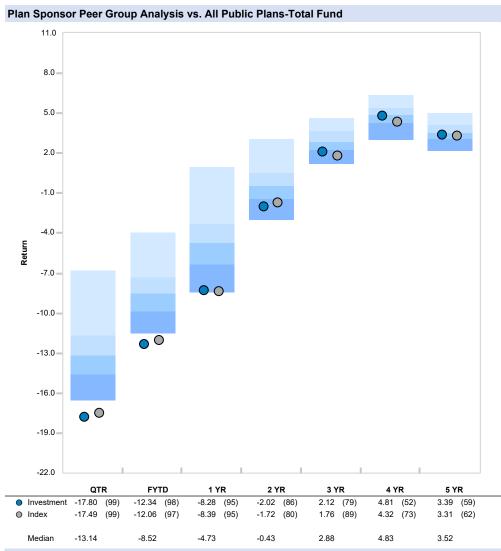
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
Investment	20	19 (95%)	0 (0%)	1 (5%)	0 (0%)	
Index	20	14 (70%)	5 (25%)	1 (5%)	0 (0%)	

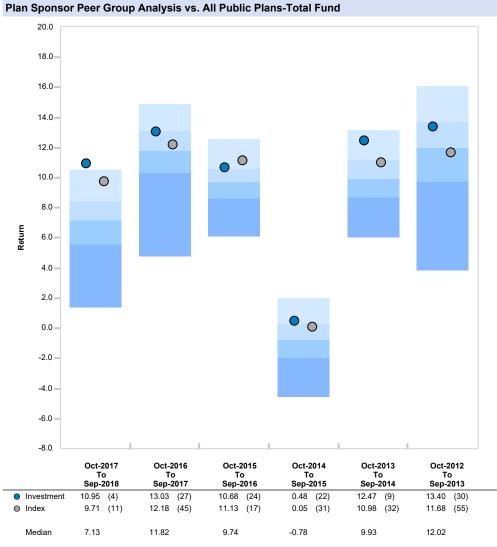


Investment

__ Index

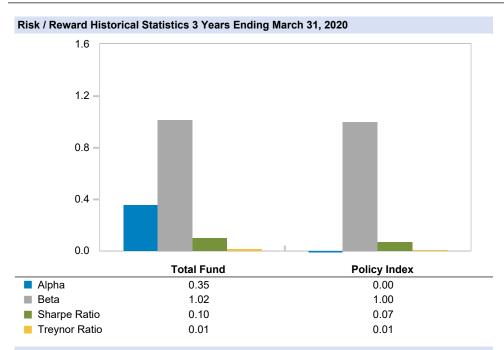
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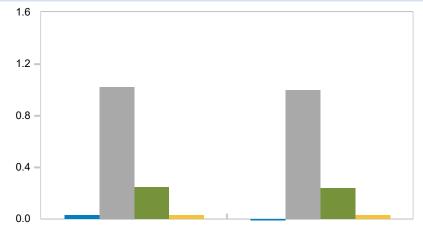


	1 Qtr Ending Dec-2019	1 Qtr Ending Sep-2019	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018	1 Qtr Ending Sep-2018
nvestment	6.64 (7)	0.99 (37)	3.59 (17)	10.53 (4)	-10.84 (98)	4.10 (4)
Index	6.59 (7)	0.67 (64)	3.47 (26)	10.82 (3)	-10.49 (97)	4.18 (4)
Median	5.23	0.84	3.26	8.43	-7.54	2.58



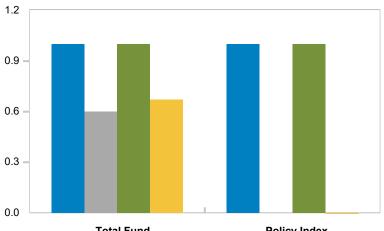


Risk / Reward Historical Statistics 5 Years Ending March 31, 2020



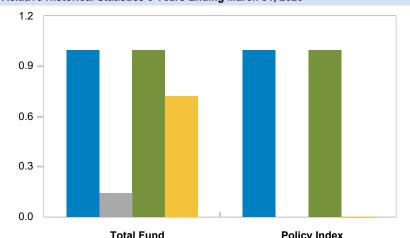
	Total Fund	Policy Index
Alpha	0.03	0.00
■ Beta	1.02	1.00
Sharpe Ratio	0.24	0.24
Treynor Ratio	0.03	0.03

Benchmark Relative Historical Statistics 3 Years Ending March 31, 2020



	Total Fund	Policy Index
Actual Correlation	1.00	1.00
Information Ratio	0.60	N/A
R-Squared	1.00	1.00
Tracking Error	0.67	0.00

Benchmark Relative Historical Statistics 5 Years Ending March 31, 2020



	rotar r una	i oney maex
Actual Correlation	1.00	1.00
Information Ratio	0.14	N/A
R-Squared	1.00	1.00
Tracking Error	0.73	0.00

Benchmark: Policy Index



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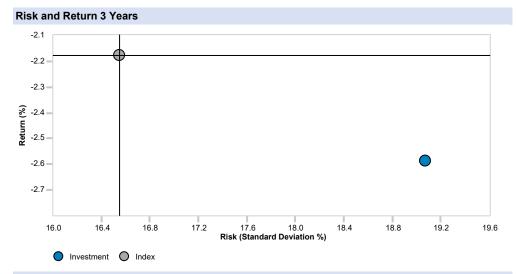


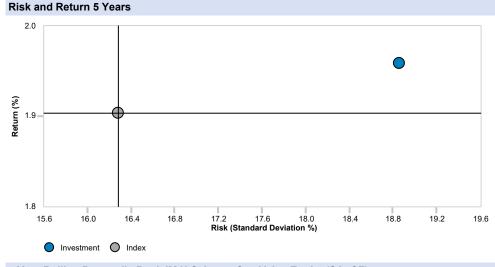


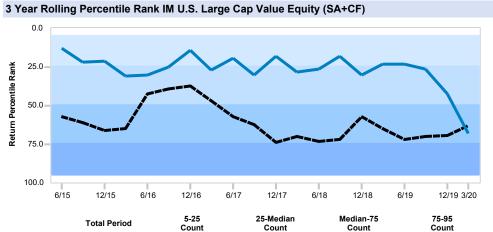


Historical Stati	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	-2.59	19.07	-0.13	118.20	9	117.16	3
Index	-2.18	16.55	-0.15	100.00	9	100.00	3

Historical Statistics 5 Years								
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters	
Investment	1.96	18.86	0.15	115.39	15	114.37	5	
Index	1.90	16.29	0.14	100.00	16	100.00	4	







9 (45%)

4 (20%)

1 (5%)

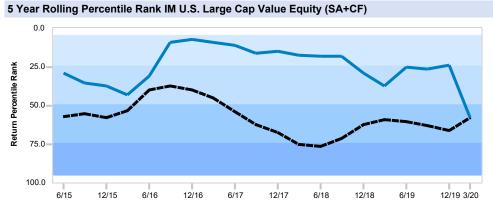
16 (80%)

0 (0%)

0 (0%)

10 (50%)

0 (0%)



	Total Period	5-25 Count	25-Med Cour		Media		Cou		
Investment	20	11 (55%	6) 8	(40%)	1	(5%)	0	(0%)	
Index	20	0 (0%	4	(20%)	15	(75%)	1	(5%)	



Investment

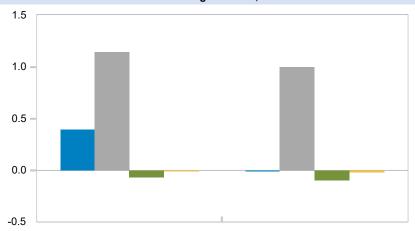
__ Index

20



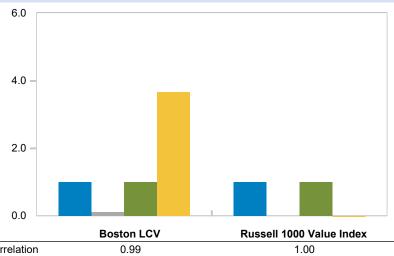


Risk / Reward Historical Statistics 3 Years Ending March 31, 2020



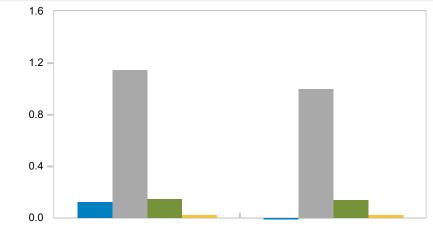
	Boston LCV	Russell 1000 Value Index
Alpha	0.39	0.00
■ Beta	1.14	1.00
Sharpe Ratio	-0.06	-0.09
Treynor Ratio	-0.01	-0.02

Benchmark Relative Historical Statistics 3 Years Ending March 31, 2020



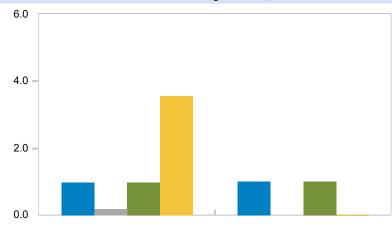
	Boston LCV	Russell 1000 Value Index
Actual Correlation	0.99	1.00
Information Ratio	0.10	N/A
R-Squared	0.99	1.00
Tracking Error	3.69	0.00

Risk / Reward Historical Statistics 5 Years Ending March 31, 2020



	Boston LCV	Russell 1000 Value Index
Alpha	0.13	0.00
■ Beta	1.15	1.00
Sharpe Ratio	0.15	0.14
Treynor Ratio	0.02	0.02

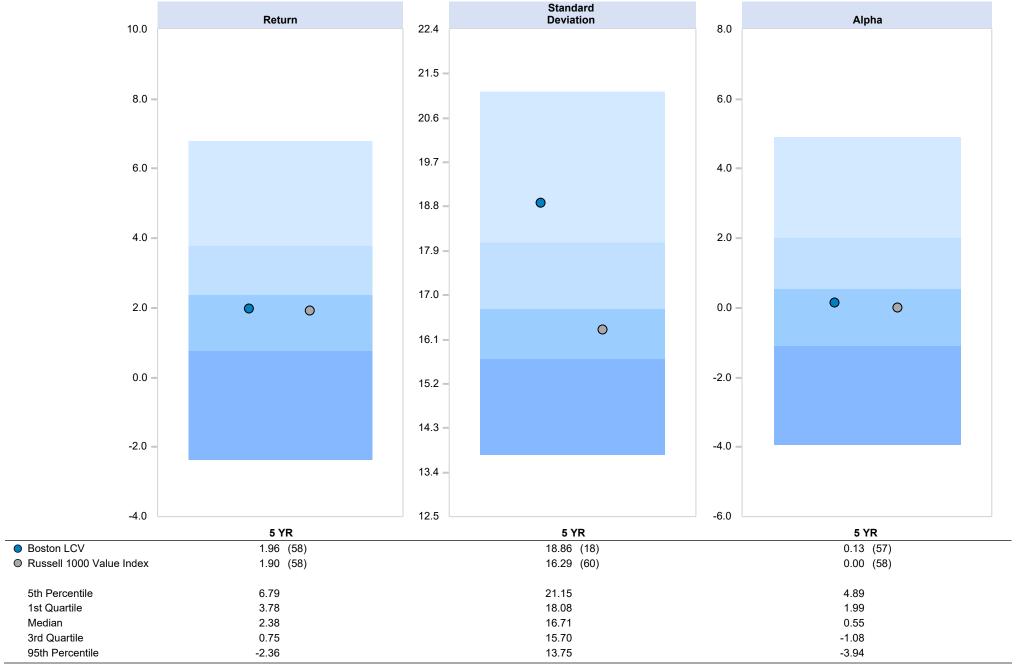
Benchmark Relative Historical Statistics 5 Years Ending March 31, 2020



	Boston LCV	Russell 1000 Value Index
Actual Correlation	0.99	1.00
Information Ratio	0.17	N/A
R-Squared	0.98	1.00
Tracking Error	3.58	0.00

Benchmark: Russell 1000 Value Index



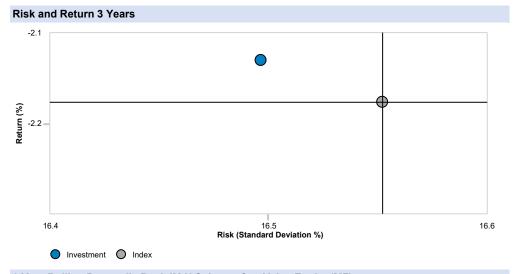


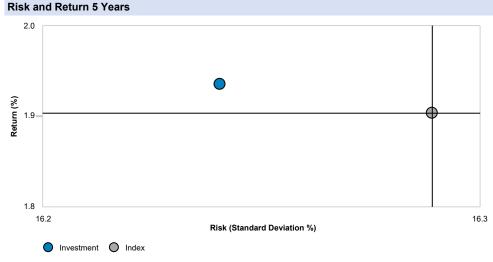
Parentheses contain percentile rankings. Calculation based on quarterly periodicity.



Historical Stati	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	-2.13	16.50	-0.15	99.82	9	99.64	3
Index	2.19	16.55	0.15	100.00	0	100.00	3

Historical Statistics 5 Years								
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters	
Investment	1.94	16.24	0.14	99.89	16	99.63	4	
Index	1.90	16.29	0.14	100.00	16	100.00	4	







Count

10 (50%)

8 (40%)

Count

4 (20%)

4 (20%)

Count

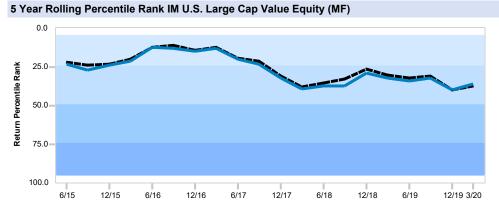
0 (0%)

0 (0%)

Count

6 (30%)

8 (40%)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	9 (45%)	11 (55%)	0 (0%)	0 (0%)
Index	20	10 (50%)	10 (50%)	0 (0%)	0 (0%)



Investment

__ Index

20



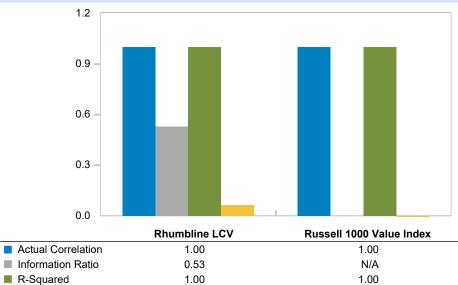


Risk / Reward Historical Statistics 3 Years Ending March 31, 2020 1.2 0.8 0.4 -0.4

-0.4		
	Rhumbline LCV	Russell 1000 Value Index
Alpha	0.03	0.00
Beta	1.00	1.00
Sharpe Ratio	-0.09	-0.09
Treynor Ratio	-0.02	-0.02

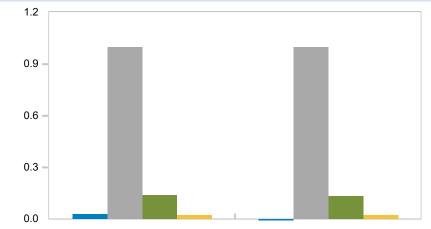
Benchmark Relative Historical Statistics 3 Years Ending March 31, 2020

0.06



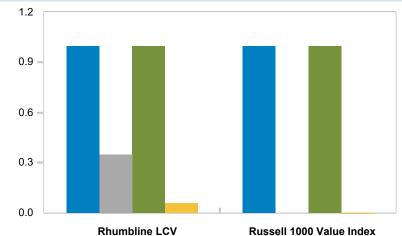
0.00

Risk / Reward Historical Statistics 5 Years Ending March 31, 2020



	Rhumbline LCV	Russell 1000 Value Index
Alpha	0.03	0.00
■ Beta	1.00	1.00
Sharpe Ratio	0.14	0.14
Treynor Ratio	0.02	0.02

Benchmark Relative Historical Statistics 5 Years Ending March 31, 2020

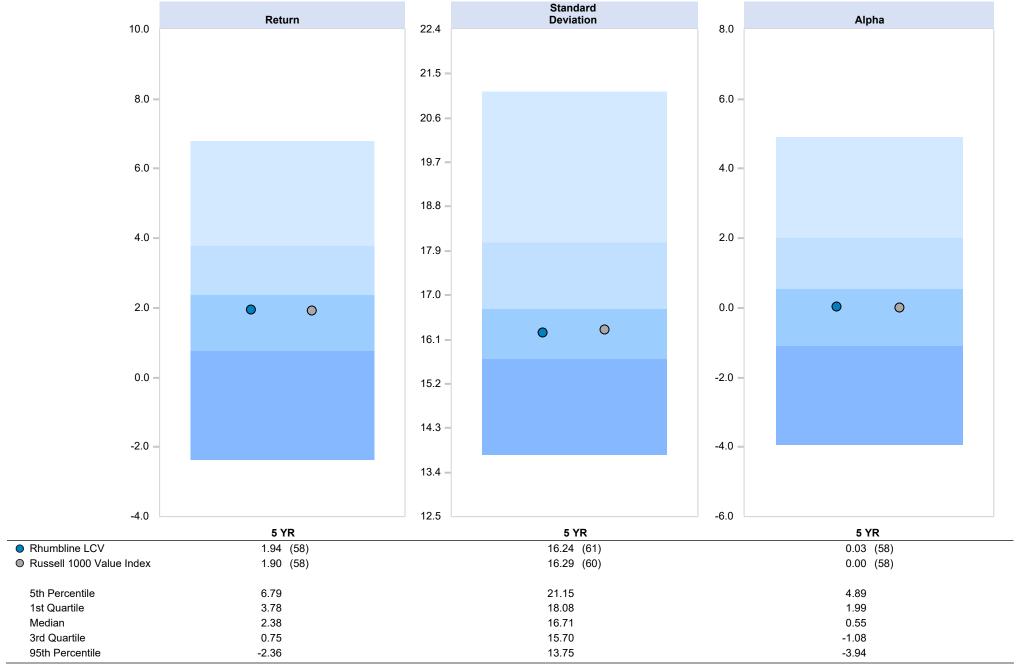


	Rhumbline LCV	Russell 1000 Value
Actual Correlation	1.00	1.00
Information Ratio	0.35	N/A
R-Squared	1.00	1.00
Tracking Error	0.06	0.00

Benchmark: Russell 1000 Value Index

Tracking Error



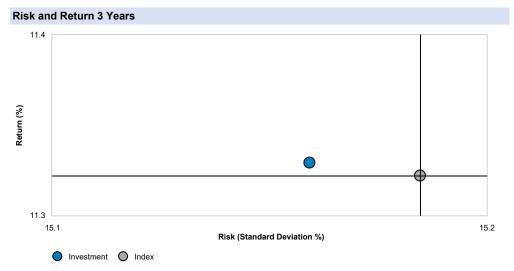


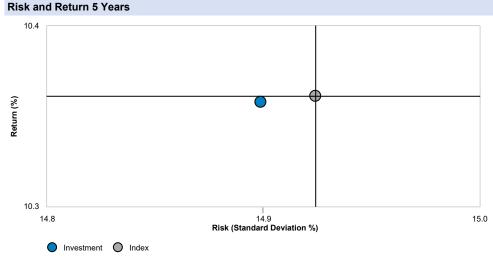
Parentheses contain percentile rankings. Calculation based on quarterly periodicity.

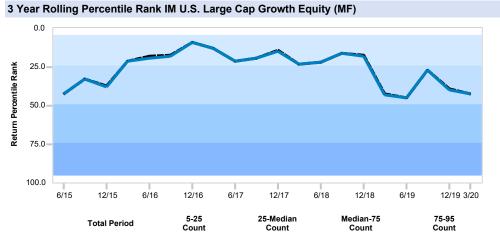


Historical Statistics 3 Years								
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters	
Investment	11.33	15.16	0.67	99.91	10	99.83	2	
Index	11 32	15 18	0.67	100.00	10	100.00	2	

Historical Statistics 5 Years								
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters	
Investment	10.36	14.90	0.67	99.86	17	99.74	3	
Index	10.36	14.92	0.67	100.00	17	100.00	3	







8 (40%)

8 (40%)

0 (0%)

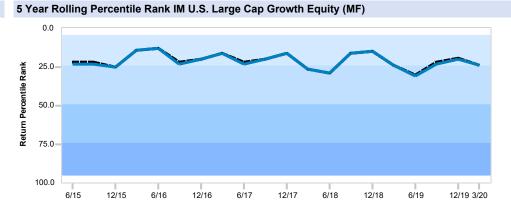
0 (0%)

0 (0%)

0 (0%)

12 (60%)

12 (60%)



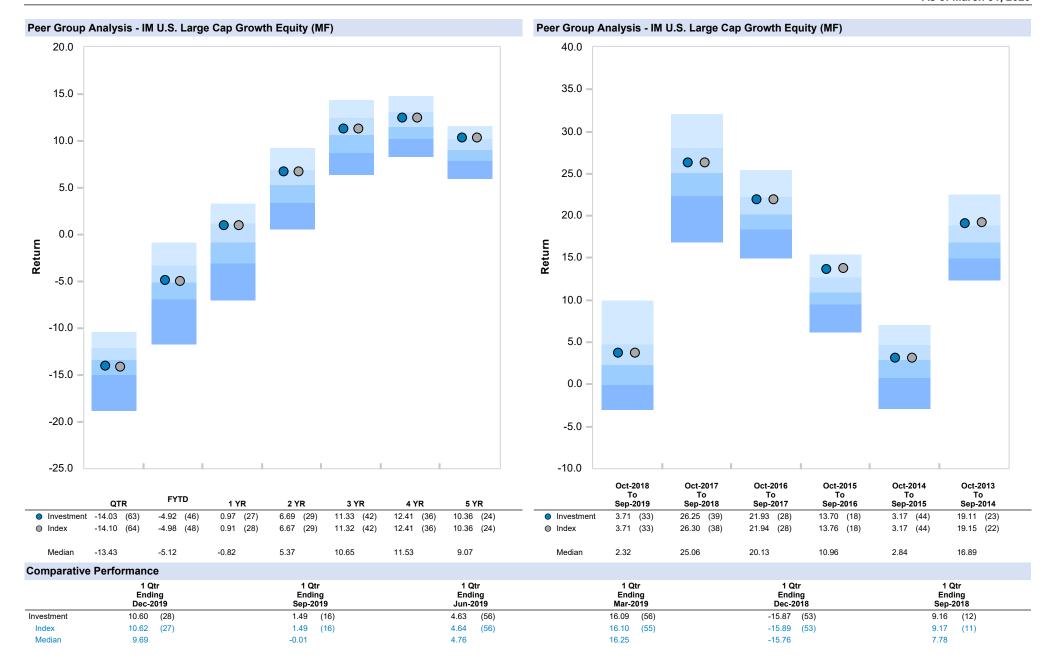
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	17 (85%)	3 (15%)	0 (0%)	0 (0%)
Index	20	17 (85%)	3 (15%)	0 (0%)	0 (0%)



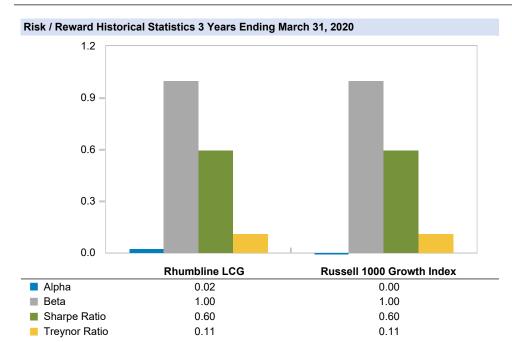
Investment

__ Index

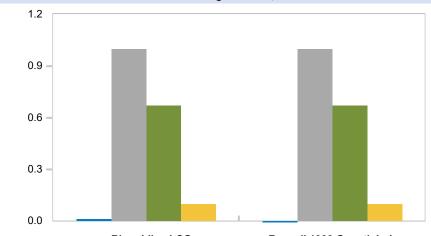
20





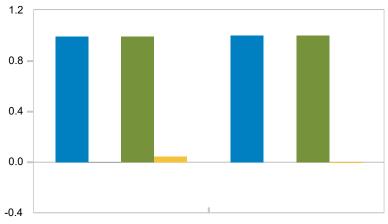


Risk / Reward Historical Statistics 5 Years Ending March 31, 2020



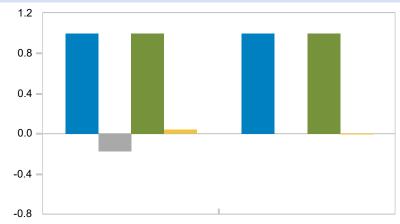
	Rhumbline LCG	Russell 1000 Growth Index
Alpha	0.01	0.00
Beta	1.00	1.00
Sharpe Ratio	0.67	0.67
Treynor Ratio	0.10	0.10

Benchmark Relative Historical Statistics 3 Years Ending March 31, 2020



	Rhumbline LCG	Russell 1000 Growth Index
Actual Correlation	1.00	1.00
Information Ratio	-0.01	N/A
R-Squared	1.00	1.00
Tracking Error	0.04	0.00

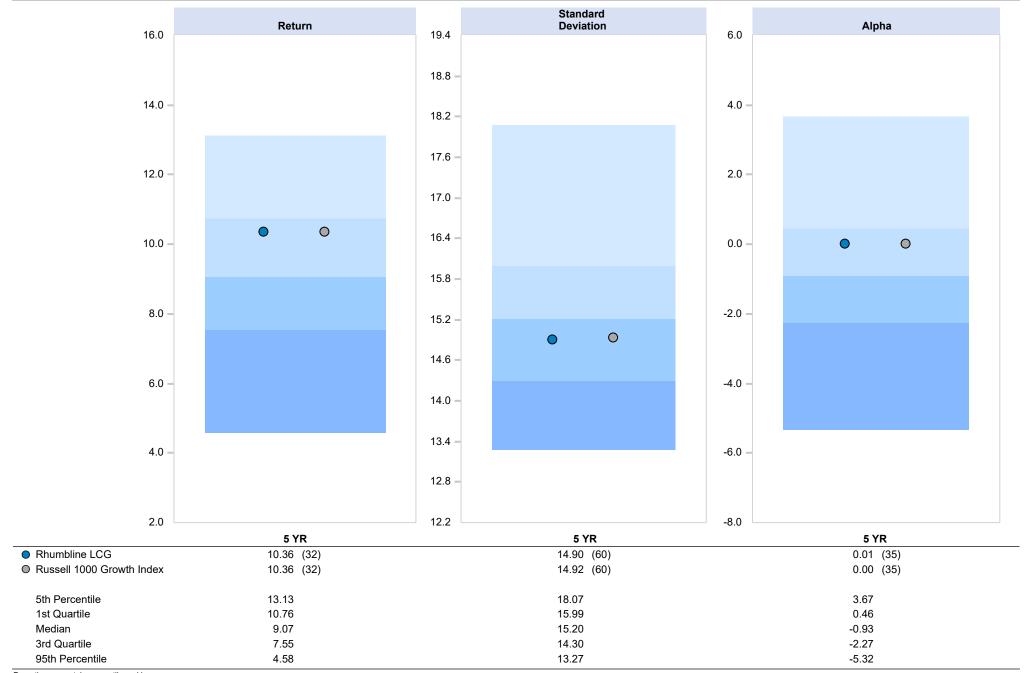
Benchmark Relative Historical Statistics 5 Years Ending March 31, 2020



	Rhumbline LCG	Russell 1000 Growth Index
Actual Correlation	1.00	1.00
Information Ratio	-0.18	N/A
R-Squared	1.00	1.00
Tracking Error	0.04	0.00

Benchmark: Russell 1000 Growth Index

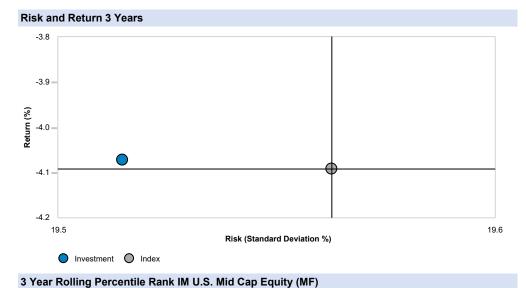




Ro

Historical Stati	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	-4.07	19.51	-0.20	99.81	8	99.80	4
Index	-4.09	19.56	-0.20	100.00	8	100.00	4

Historical Statistics 5 Years								
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters	
Investment	0.55	18.52	0.07	99.52	14	99.64	6	
Index	0.56	18.59	0.07	100.00	14	100.00	6	







6 (30%)

6 (30%)

6 (30%)

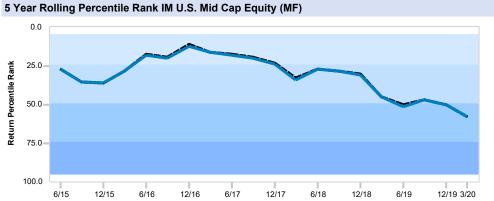
6 (30%)

0 (0%)

0 (0%)

8 (40%)

8 (40%)



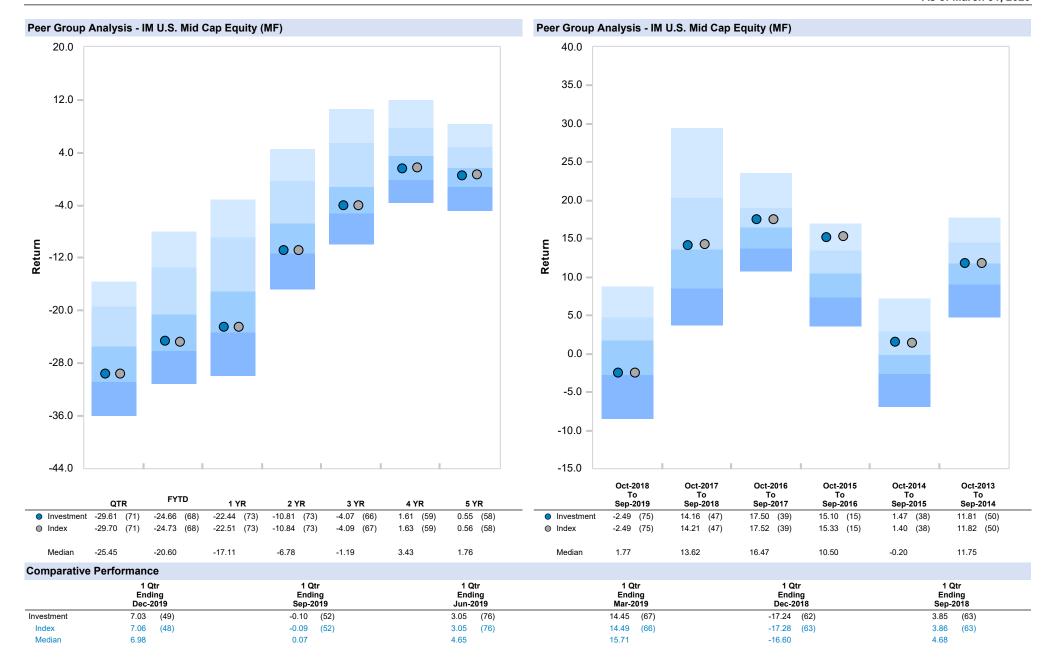
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
_ Investment	20	7 (35%)	11 (55%)	2 (10%)	0 (0%)
Index	20	7 (35%)	12 (60%)	1 (5%)	0 (0%)



Investment

__ Index

20



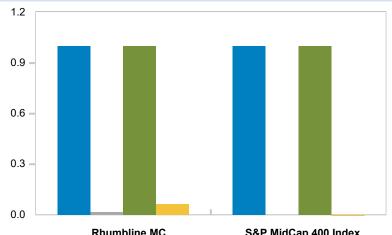


Risk / Reward Historical Statistics 3 Years Ending March 31, 2020



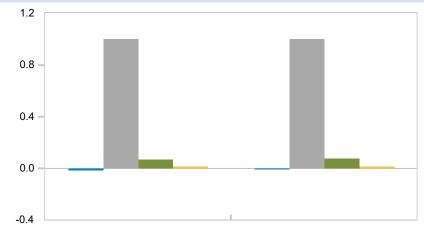
	Rhumbline MC	S&P MidCap 400 Index
Alpha	0.00	0.00
Beta	1.00	1.00
Sharpe Ratio	-0.13	-0.13
Trevnor Ratio	-0.03	-0.03

Benchmark Relative Historical Statistics 3 Years Ending March 31, 2020



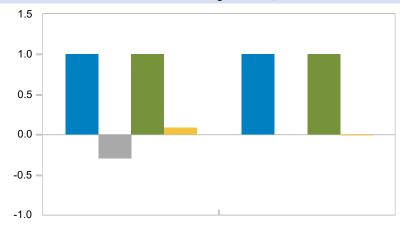
	Rhumbline MC	S&P MidCap 400 Index	
Actual Correlation	1.00	1.00	
Information Ratio	0.02	N/A	
R-Squared	1.00	1.00	
Tracking Error	0.07	0.00	

Risk / Reward Historical Statistics 5 Years Ending March 31, 2020



	Rhumbline MC	S&P MidCap 400 Index
Alpha	-0.02	0.00
Beta	1.00	1.00
Sharpe Ratio	0.07	0.07
Treynor Ratio	0.01	0.01

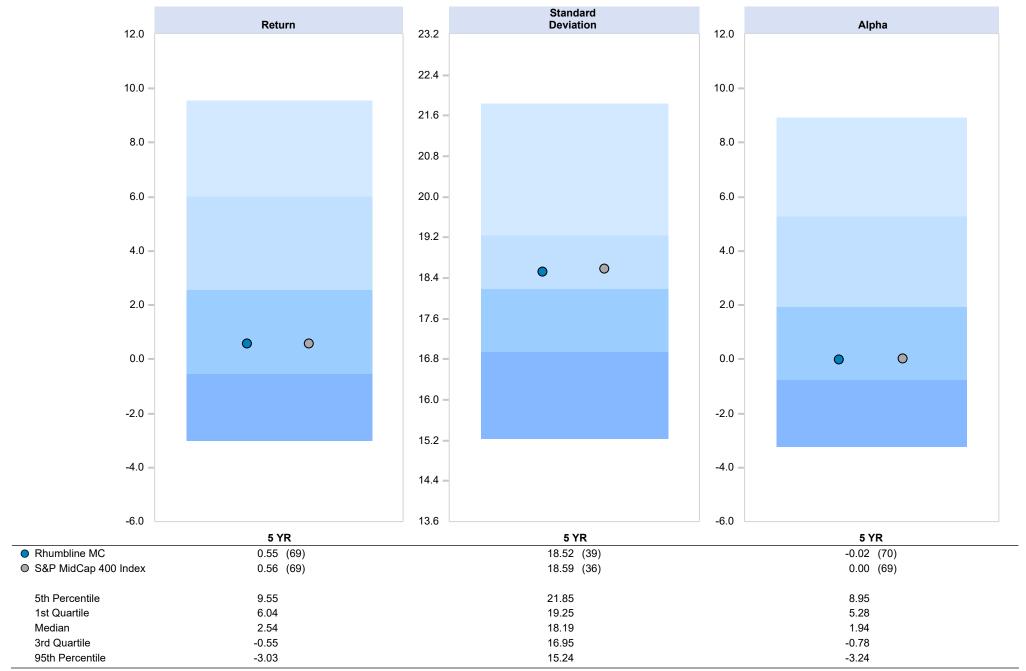
Benchmark Relative Historical Statistics 5 Years Ending March 31, 2020



	Rhumbline MC	S&P MidCap 400 Index
Actual Correlation	1.00	1.00
Information Ratio	-0.30	N/A
R-Squared	1.00	1.00
Tracking Error	0.09	0.00

Benchmark: S&P MidCap 400 Index



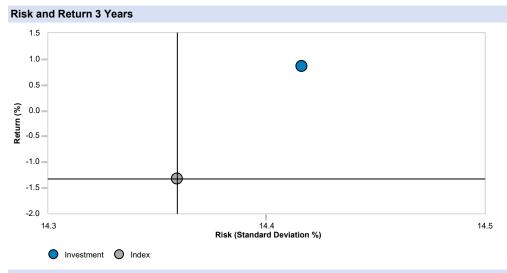


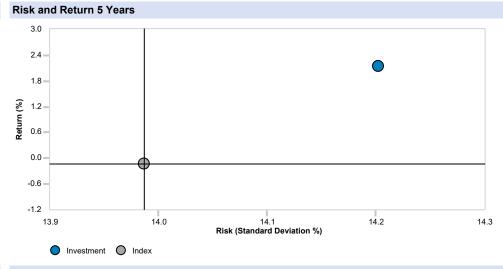
Parentheses contain percentile rankings. Calculation based on quarterly periodicity.

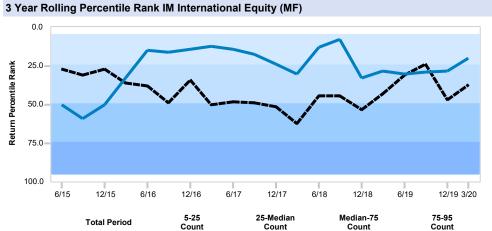


Historical Statis	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	0.86	14.42	0.01	105.79	8	94.23	4
Index	-1 33	14.36	-0.14	100.00	7	100.00	5

Historical Statistics 5 Years							
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	2.14	14.20	0.14	102.69	14	90.60	6
Index	-0.13	13.99	-0.02	100.00	11	100.00	9







9 (45%)

16 (80%)

1 (5%)

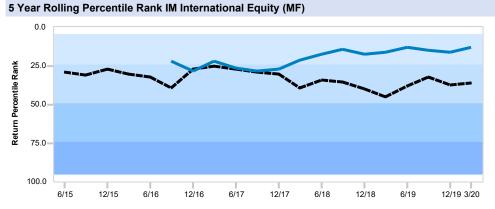
3 (15%)

0 (0%)

0 (0%)

10 (50%)

1 (5%)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	15	11 (73%)	4 (27%)	0 (0%)	0 (0%)
Index	20	1 (5%)	19 (95%)	0 (0%)	0 (0%)



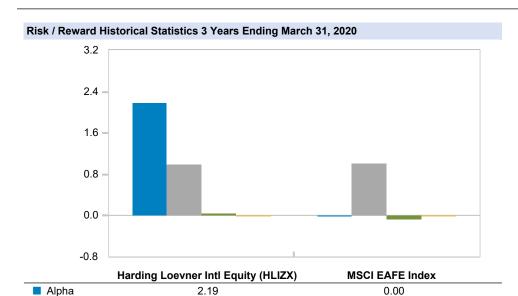
Investment

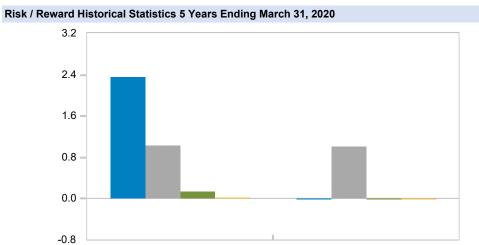
__ Index

20









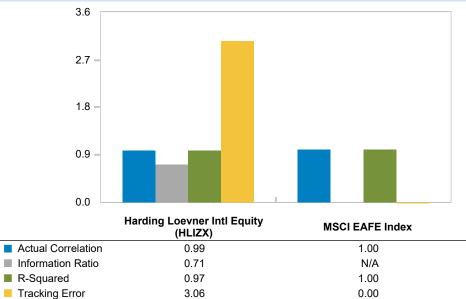
	Harding Loevner Intl Equity (HLIZX)	MSCI EAFE Index
Alpha	2.36	0.00
Beta	1.02	1.00
Sharpe Ratio	0.14	0.00
Treynor Ratio	0.02	0.00

Benchmark Relative Historical Statistics 3 Years Ending March 31, 2020

0.99

0.04

0.01

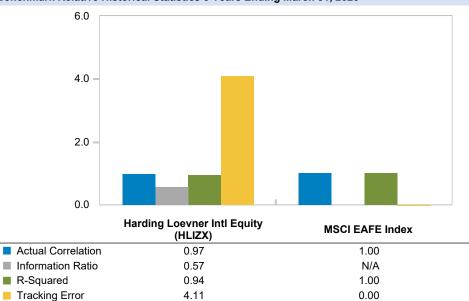


1.00

-0.08

-0.01

Benchmark Relative Historical Statistics 5 Years Ending March 31, 2020



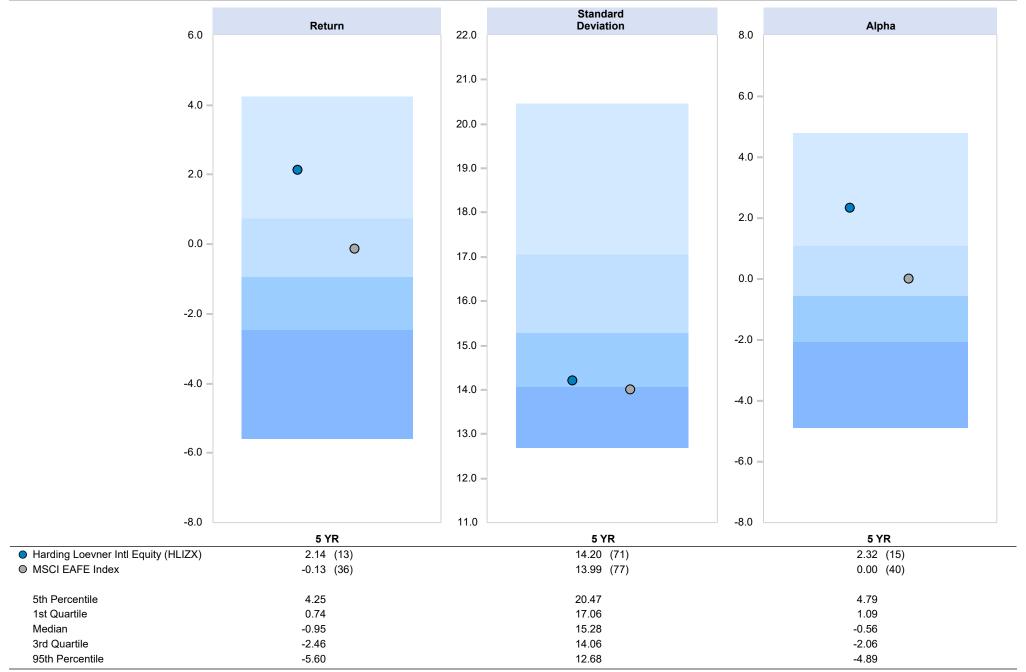
Benchmark: MSCI EAFE Index

Beta

Sharpe Ratio

Treynor Ratio



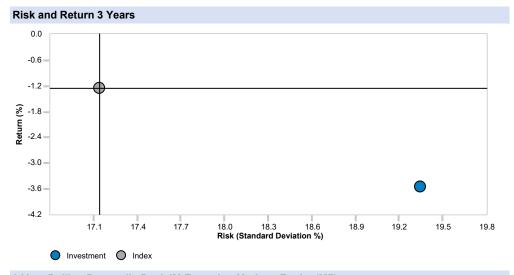


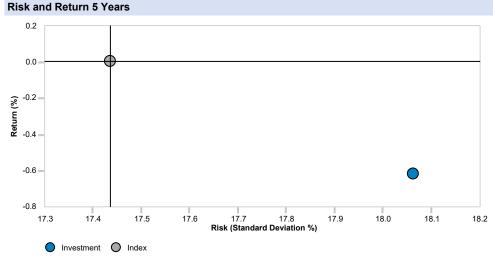
Parentheses contain percentile rankings. Calculation based on monthly periodicity.



Historical Stati	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	-3.55	19.34	-0.18	100.95	7	109.30	5
Index	-1 25	17 14	-0.09	100.00	7	100.00	5

Historical Statistics 5 Years							
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	-0.62	18.06	-0.01	96.49	13	98.35	7
Index	0.01	17.44	0.02	100.00	13	100.00	7







Count

11 (55%)

14 (70%)

Count

1 (5%)

2 (10%)

Count

0 (0%)

0 (0%)

Count

8 (40%)

4 (20%)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
Investment	15	9 (60%)	6 (40%)	0 (0%)	0 (0%)	
Index	20	3 (15%)	15 (75%)	2 (10%)	0 (0%)	



Investment

__ Index

20





Risk / Reward Historical Statistics 3 Years Ending March 31, 2020 2.0 1.0 0.0 -1.0 -2.0 -3.0 Harding Loevner EM (HLMEX) **MSCI Emerging Markets Index** Alpha 0.00 -1.71 Beta 1.14 1.00 Sharpe Ratio -0.12 -0.06

1.8 1.2 0.6 -0.6

	Harding Loevner EM (HLMEX)	MSCI Emerging Markets Index
Alpha	-0.39	0.00
Beta	1.07	1.00
Sharpe Ratio	0.02	0.03
Treynor Ratio	0.00	0.01

Benchmark Relative Historical Statistics 3 Years Ending March 31, 2020

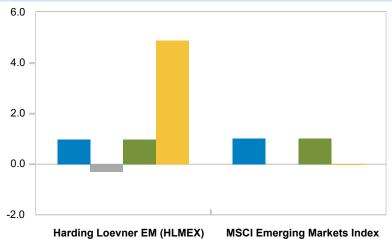
0.98

-0.33

0.97

4.92

-0.02



-0.01

1.00

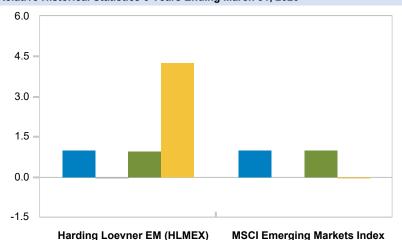
N/A

1.00

0.00

Benchmark Relative Historical Statistics 5 Years Ending March 31, 2020

-1.2



	Harding Loevner EM (HLMEX)	MSCI Emerging Mark
Actual Correlation	0.98	1.00
Information Ratio	-0.06	N/A
R-Squared	0.96	1.00
Tracking Error	4.25	0.00

Benchmark: MSCI Emerging Markets Index

Actual Correlation

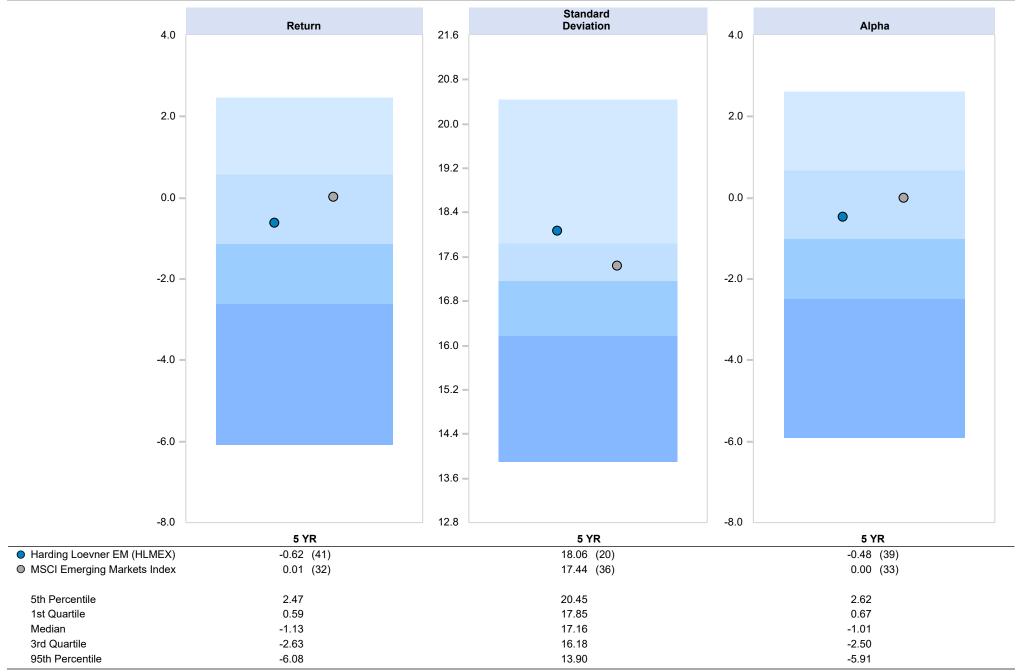
■ Information Ratio

R-Squared

Tracking Error

Treynor Ratio



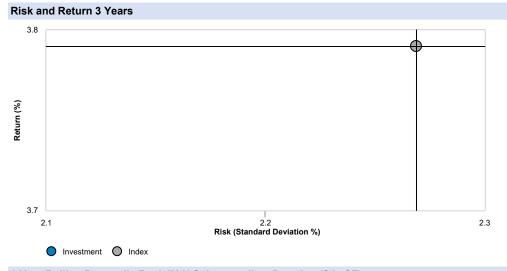


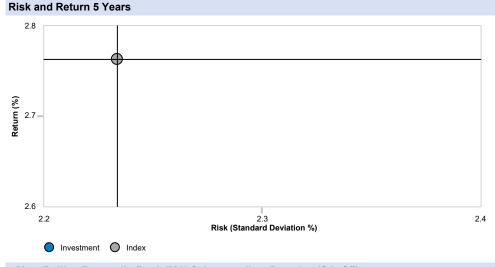
Parentheses contain percentile rankings. Calculation based on monthly periodicity.

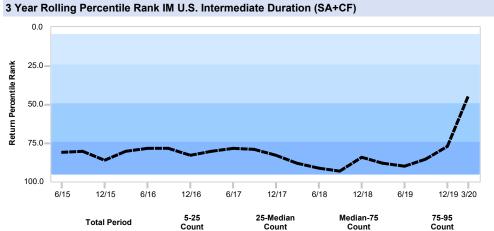


Historical Statistics 3 Years											
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters				
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Index	3.79	2.27	0.87	100.00	10	100.00	2				

Historical Statistics 5 Years										
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters			
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Index	2.76	2.23	0.73	100.00	15	100.00	5			

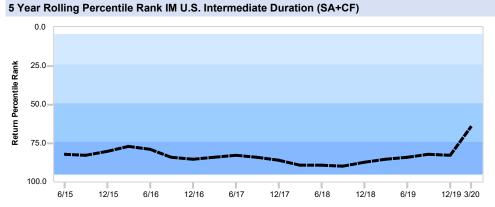






19 (95%)

0 (0%)

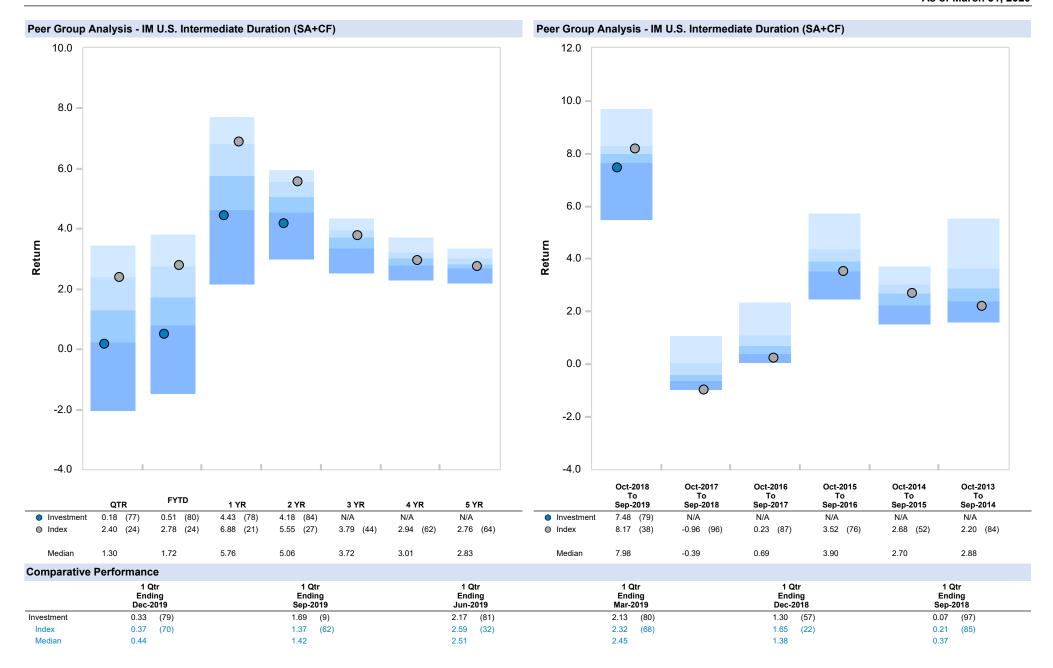


	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	0	0	0	0	0
Index	20	0 (0%)	0 (0%)	1 (5%)	19 (95%)

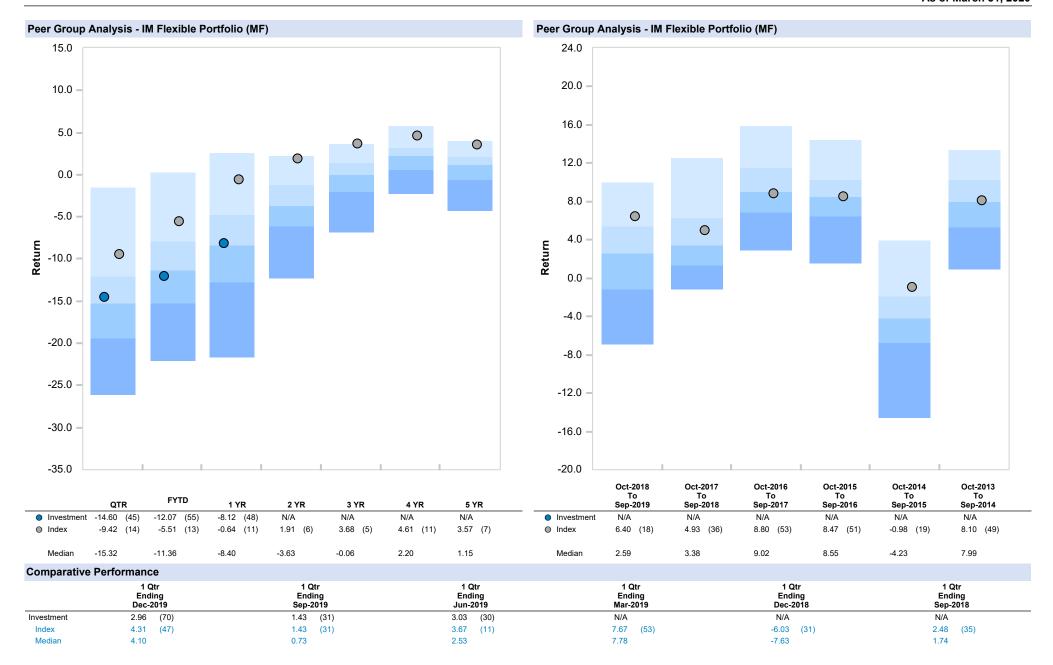


Investment

20

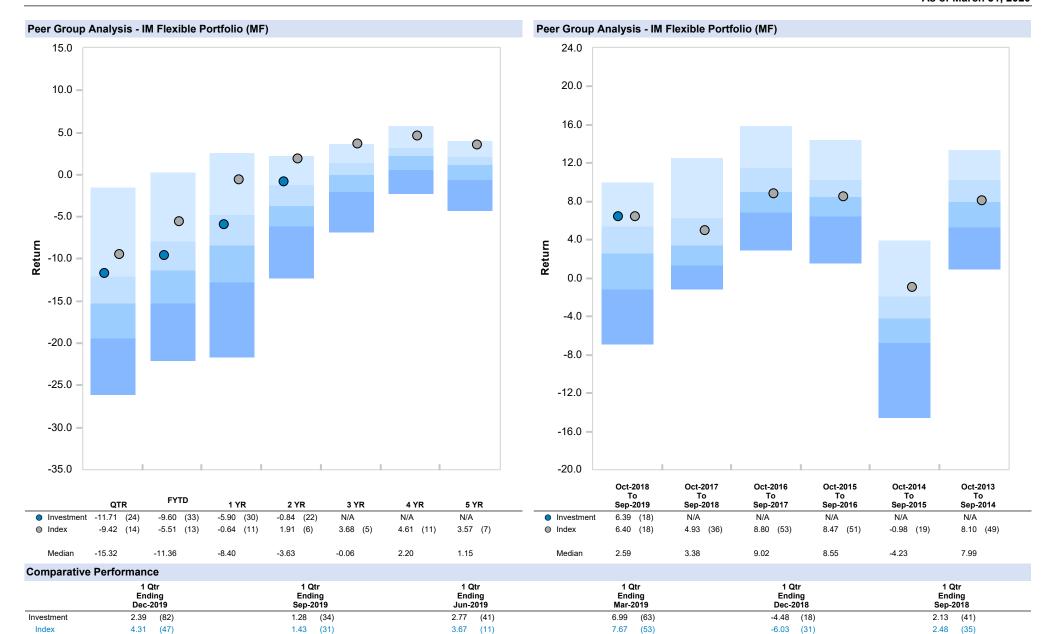








-7.63



7.78

2.53



1.74

Median

4.10

0.73

Financial Reconciliation Total Fund 1 Quarter Ending December 31, 2019

Financial Reconciliation Quarter to Date									
	Market Value 10/01/2019	Contributions	Distributions	Net Transfers	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 12/31/2019
Vanguard Total Stock Mkt (VTSAX)	2,062,425	-	-	628,192	-	-	20,036	397,596	3,108,250
Boston LCV	15,910,859	2,762	-	-	-46,061	-1,788	99,971	1,186,606	17,152,350
Dana LCG	-	-	-	-	-	-	-	-	-
Rhumbline LCV	13,275,473	-	-	2,071	-2,071	-	-	980,890	14,256,362
Rhumbline LCG	28,687,781	-	-	2,071	-2,071	-	-	3,041,914	31,729,696
Rhumbline MC	20,373,535	-	-	2,071	-2,071	-	-	1,432,281	21,805,816
Harding Loevner EM (HLMEX)	5,836,687	-	-	850,000	-	-	107,674	670,249	7,464,610
Harding Loevner Intl Equity (HLIZX)	6,165,342	-	-	500,000	-	-	118,891	522,278	7,306,510
Garcia Hamilton Fixed Income	28,706,949	-	-	-	-13,863	-3,213	183,510	-88,123	28,785,260
Westwood Income Opp (WHGIX)	-	-	-	-	-	-	-	-	-
JPMorgan Income Builder Fund (JNBZX)	5,416,064	-	-	-425,000	-	-	42,060	111,137	5,144,260
Blackrock Multi-Asset Income (BKMIX)	5,415,917	-	-	-425,000	-	-	62,185	61,098	5,114,200
Sun Bank Capital R&D Cash	1,240,236	3,167,569	-1,951,631	-1,134,404	-	-23,720	2,837	-	1,300,886
Total Fund	133,091,268	3,170,331	-1,951,631	-	-66,136	-28,721	637,164	8,315,927	143,168,202



Financial Reconciliation Total Fund 1 Quarter Ending September 30, 2019

Financial Reconciliation Quarter to Date									
	Market Value 07/01/2019	Contributions	Distributions	Net Transfers	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 09/30/2019
Vanguard Total Stock Mkt (VTSAX)	3,802,786	-	-	-1,775,948	-	-	12,222	23,365	2,062,425
Boston LCV	15,481,664	-	-	-	-	-1,740	108,403	322,532	15,910,859
Dana LCG	-	-	-	-	-	-	-	-	-
Rhumbline LCV	13,097,902	-	-	-	-	-	-	177,571	13,275,473
Rhumbline LCG	28,266,474	-	-	-	-	-	-	421,307	28,687,781
Rhumbline MC	20,393,257	-	-	-	-	-	-	-19,722	20,373,535
Harding Loevner EM (HLMEX)	6,042,386	-	-	-	-	-	-	-205,698	5,836,687
Harding Loevner Intl Equity (HLIZX)	6,314,042	-	-	-	-	-	-	-148,700	6,165,342
Garcia Hamilton Fixed Income	28,247,705	-	-	-	-13,590	-3,162	201,865	274,132	28,706,949
Westwood Income Opp (WHGIX)	-	-	-	-	-	-	-	-	-
JPMorgan Income Builder Fund (JNBZX)	5,339,848	-	-	-	-	-	50,955	25,261	5,416,064
Blackrock Multi-Asset Income (BKMIX)	5,347,217	-	-	-	-	-	68,657	43	5,415,917
Sun Bank Capital R&D Cash	1,272,830	207,867	-1,987,965	1,775,948	-	-31,905	3,463	-	1,240,236
Total Fund	133,606,110	207,867	-1,987,965	-	-13,590	-36,808	445,565	870,090	133,091,268



Financial Reconciliation Total Fund

1 Quarter Ending June 30, 2019

	Market Value 04/01/2019	Contributions	Distributions	Net Transfers	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 06/30/2019
Vanguard Total Stock Mkt (VTSAX)	2,959,915	-	-	729,757	-	-	6,348	106,765	3,802,786
Boston LCV	14,674,388	-	-	-	-	-1,649	97,834	711,091	15,481,664
Dana LCG	-	-	-	-	-	-	-	-	-
Rhumbline LCV	12,612,617	1,279	-	-	-1,279	-	-	485,284	13,097,902
Rhumbline LCG	29,393,463	2,926	-	-2,500,000	-2,926	-172	-	1,373,183	28,266,474
Rhumbline MC	19,790,504	1,998	-	-	-1,998	-	-	602,754	20,393,257
Harding Loevner EM (HLMEX)	5,962,392	-	-	-	-	-	-	79,994	6,042,386
Harding Loevner Intl Equity (HLIZX)	6,044,762	-	-	-	-	-	-	269,279	6,314,042
Garcia Hamilton Fixed Income	27,664,386	-	-	-	-13,359	-3,096	212,957	386,818	28,247,705
Westwood Income Opp (WHGIX)	-	-	-	-	-	-	-	-	-
JPMorgan Income Builder Fund (JNBZX)	5,182,828	-	-	-	-	-	61,977	95,043	5,339,848
Blackrock Multi-Asset Income (BKMIX)	5,202,868	-	-	-	-	-	70,807	73,541	5,347,217
Sun Bank Capital R&D Cash	1,235,666	375,086	-1,972,961	1,770,243	-	-139,261	4,058	-	1,272,830
Total Fund	130,723,788	381,289	-1,972,961	_	-19,562	-144,178	453,981	4,183,752	133,606,110



	Estimated Annual Fee (%)	Market Value (\$)	Estimated Annual Fee (\$)	Fee Schedule
Vanguard Total Stock Mkt (VTSAX)	0.04	973,657	389	0.04 % of Assets
Boston LCV	0.50	11,787,554	58,938	0.50 % of First \$50 M 0.40 % Thereafter
Rhumbline LCV	0.04	10,458,099	4,183	0.04 % of Assets
Rhumbline LCG	0.04	27,275,240	10,910	0.04 % of Assets
Rhumbline MC	0.04	15,348,243	6,139	0.04 % of Assets
Total Domestic Equity Composite	0.12	65,842,794	80,560	
Harding Loevner Intl Equity (HLIZX)	0.82	5,893,734	48,329	0.82 % of Assets
Harding Loevner EM (HLMEX)	1.28	5,401,759	69,143	1.28 % of Assets
Total International Equity Composite	1.04	11,295,494	117,471	
Total Equity Composite	0.26	77,138,288	198,031	
Garcia Hamilton Fixed Income	0.20	28,820,433	57,641	0.20 % of First \$50 M 0.18 % Thereafter
Total Fixed Income Composite	0.20	28,820,433	57,641	
JPMorgan Income Builder Fund (JNBZX)	0.52	4,393,312	22,845	0.52 % of Assets
Blackrock Multi-Asset Income (BKMIX)	0.59	4,515,526	26,642	0.59 % of Assets
Total Real Return Composite	0.56	8,908,838	49,487	
Total Fund	0.26	115,599,793	305,159	



Total Policy Historical Hybrid Composition			
Allocation Mandate	Weight (%)	Allocation Mandate	Weight (%)
Oct-1990		Jul-2003	
Blmbg. Barc. U.S. Gov't/Credit	50.00	S&P 500 Index	50.00
S&P 500 Index	50.00	Blmbg. Barc. U.S. Gov't/Credit	50.00
Jul-1999		Apr-2007	
Blmbg. Barc. U.S. Gov't/Credit	46.00	Blmbg. Barc. U.S. Aggregate Index	45.00
S&P 500 Index	49.00	Russell 1000 Growth Index	24.50
FTSE 3 Month T-Bill	5.00	S&P 500 Value	24.50
		S&P MidCap 400 Index	6.00
Oct-1999		•	
S&P 500 Index	50.70	Jul-2009	
Blmbg. Barc. U.S. Gov't/Credit	44.35	Blmbg. Barc. U.S. Aggregate Index	45.00
FTSE 3 Month T-Bill	4.95	Russell 1000 Growth Index	24.50
		Russell 1000 Value Index	12.25
an-2000		S&P 500 Value	12.25
6&P 500 Index	49.93	S&P MidCap 400 Index	6.00
Blmbg. Barc. U.S. Gov't/Credit	43.55		
TSE 3 Month T-Bill	6.52	Oct-2009	
nr 2000		Blmbg. Barc. U.S. Aggregate Index	45.00
pr-2000 S&P 500 Index	53.18	Russell 1000 Value Index	24.50
		Russell 1000 Growth Index	24.50
Blmbg. Barc. U.S. Gov't/Credit	42.58	S&P MidCap 400 Index	6.00
FTSE 3 Month T-Bill	4.24	Jul-2011	
ul-2000		Blmbg. Barc. U.S. Aggregate Index	45.00
S&P 500 Index	53.24	Russell 1000 Value Index	22.00
Blmbg. Barc. U.S. Gov't/Credit	42.87	Russell 1000 Value Index Russell 1000 Growth Index	22.00
TSE 3 Month T-Bill	3.89		
102 0 Monar 1 Biii	0.00	S&P MidCap 400 Index	6.00 2.50
Oct-2000		MSCI EAFE (Net) Index	2.50 2.50
8&P 500 Index	51.18	MSCI Emerging Markets (Net) Index	2.50
Blmbg. Barc. U.S. Gov't/Credit	43.03	Jan-2012	
TSE 3 Month T-Bill	5.79	Blmbg. Barc. U.S. Aggregate Index	39.00
		Russell 1000 Value Index	22.00
an-2001		Russell 1000 Growth Index	22.00
S&P 500 Index	51.44	Bloomberg Barclays Intermediate US Govt/Credit Idx	6.00
Blmbg. Barc. U.S. Gov't/Credit	43.95	S&P MidCap 400 Index	6.00
FTSE 3 Month T-Bill	4.61	MSCI EAFE (Net) Index	2.50
No. 11 0004		MSCI Emerging Markets (Net) Index	2.50
Apr-2001	50.00		2.00
S&P 500 Index	50.00		
Blmbg. Barc. U.S. Gov't/Credit	50.00		



Allocation Mandate	Weight (%)
Jan-2013	
Blmbg. Barc. U.S. Aggregate Index	34.00
Russell 1000 Value Index	20.00
Russell 1000 Growth Index	20.00
S&P MidCap 400 Index	15.00
Bloomberg Barclays Intermediate US Govt/Credit Idx	6.00
MSCI EAFE (Net) Index	2.50
MSCI Emerging Markets (Net) Index	2.50
Apr-2014	
Bloomberg Barclays Intermediate US Govt/Credit Idx	17.50
Blmbg. Barc. U.S. Aggregate Index	15.00
Russell 1000 Value Index	20.00
Russell 1000 Growth Index	20.00
S&P MidCap 400 Index	15.00
MSCI EAFE (Net) Index	2.50
MSCI Emerging Markets (Net) Index	2.50
ICE BofAML All Convertibles ex Mandatory	7.50
Mar-2018	
Bloomberg Barclays Intermediate US Govt/Credit Idx	24.75
Blmbg. Barc. U.S. Aggregate Index	0.00
Russell 1000 Value Index	20.00
Russell 1000 Growth Index	20.00
S&P MidCap 400 Index	17.00
MSCI EAFE (Net) Index	5.00
MSCI Emerging Markets (Net) Index	5.00
ICE BofAML All Convertibles ex Mandatory	0.00
S&P 500 Index	3.75
Russell 2500 Index	4.50



Total Equity Historical Hybrid Composition		Total Fixed Income Historical Hybrid Composition				
Allocation Mandate	Weight (%)	Allocation Mandate	Weight (%)			
Oct-1990		Apr-1997				
S&P 500 Index	100.00	Blmbg. Barc. U.S. Gov't/Credit	100.00			
Apr-2007		Jul-2003				
Russell 1000 Growth Index	44.50	Blmbg. Barc. U.S. Aggregate Index	100.00			
S&P 500 Value	44.50					
S&P MidCap 400 Index	11.00	Jan-2012				
·		Blmbg. Barc. U.S. Aggregate Index	87.00			
Jul-2009		Bloomberg Barclays Intermediate US Govt/Credit Idx	13.00			
Russell 1000 Growth Index	44.50					
Russell 1000 Value Index	22.25	Jan-2013				
S&P 500 Value	22.25	Blmbg. Barc. U.S. Aggregate Index	85.00			
S&P MidCap 400 Index	11.00	Bloomberg Barclays Intermediate US Govt/Credit Idx	15.00			
Oct-2009		Apr-2014				
Russell 1000 Value Index	44.50	Bloomberg Barclays Intermediate US Govt/Credit Idx	43.00			
Russell 1000 Growth Index	44.50	Blmbg. Barc. U.S. Aggregate Index	38.00			
S&P MidCap 400 Index	11.00	ICE BofAML All Convertibles ex Mandatory	19.00			
Sai Middap 400 ilidex	11.00	,				
Jul-2011		Oct-2016				
Russell 1000 Value Index	40.00	Bloomberg Barclays Intermediate US Govt/Credit Idx	55.00			
Russell 1000 Growth Index	40.00	Blmbg. Barc. U.S. Aggregate Index	45.00			
S&P MidCap 400 Index	11.00					
MSCI EAFE (Net) Index	4.50	Mar-2018	400.00			
MSCI Emerging Markets (Net) Index	4.50	Bloomberg Barclays Intermediate US Govt/Credit Idx	100.00			
		Blmbg. Barc. U.S. Aggregate Index	0.00			
Jan-2013						
Russell 1000 Value Index	33.30					
Russell 1000 Growth Index	33.30					
S&P MidCap 400 Index	25.00					
MSCI EAFE (Net) Index	4.20					
MSCI Emerging Markets (Net) Index	4.20					
Russell 2500 Index	0.00					
S&P 500 Index	0.00					
Mar-2018						
Russell 1000 Value Index	26.50					
Russell 1000 Growth Index	26.50					
S&P MidCap 400 Index	23.00					
MSCI EAFE (Net) Index	6.50					
MSCI Emerging Markets (Net) Index	6.50					
Russell 2500 Index	6.00					
S&P 500 Index	5.00					
	2.33					



Active Return

- Arithmetic difference between the manager's performance and the designated benchmark return over a specified time period.

Alpha

- A measure of the difference between a portfolio's actual performance and its expected return based on its level of risk as determined by beta. It determines the portfolio's non-systemic return, or its historical performance not explained by movements of the market.

Beta

- A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of the portfolio's systematic risk.

Consistency

- The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. Higher consistency indicates the manager has contributed more to the product's performance.

Distributed to Paid In (DPI)

- The ratio of money distributed to Limited Partners by the fund, relative to contributions. It is calculated by dividing cumulative distributions by paid in capital. This multiple shows the investor how much money they got back. It is a good measure for evaluating a fund later in its life because there are more distributions to measure against.

Down Market Capture

- The ratio of average portfolio performance over the designated benchmark during periods of negative returns. A lower value indicates better product performance

Downside Risk

- A measure similar to standard deviation that utilizes only the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. A higher factor is indicative of a riskier product.

Excess Return

- Arithmetic difference between the manager's performance and the risk-free return over a specified time period.

Excess Risk

- A measure of the standard deviation of a portfolio's performance relative to the risk free return.

Information Ratio

- This calculates the value-added contribution of the manager and is derived by dividing the active rate of return of the portfolio by the tracking error. The higher the Information Ratio, the more the manager has added value to the portfolio.

Public Market Equivalent (PME)

- Designs a set of analyses used in the Private Equity Industry to evaluate the performance of a Private Equity Fund against a public benchmark or index.

R-Squared

- The percentage of a portfolio's performance that can be explained by the behavior of the appropriate benchmark. A high R-Squared means the portfolio's performance has historically moved in the same direction as the appropriate benchmark.

Return

- Compounded rate of return for the period.

Sharpe Ratio

- Represents the excess rate of return over the risk free return divided by the standard deviation of the excess return. The result is an absolute rate of return per unit of risk. A higher value demonstrates better historical risk-adjusted performance.

Standard Deviation

- A statistical measure of the range of a portfolio's performance. It represents the variability of returns around the average return over a specified time period.

Total Value to Paid In (TVPI)

- The ratio of the current value of remaining investments within a fund, plus the total value of all distributions to date, relative to the total amount of capital paid into the fund to date. It is a good measure of performance before the end of a fund's life

Tracking Error

- This is a measure of the standard deviation of a portfolio's returns in relation to the performance of its designated market benchmark.

Treynor Ratio

- Similar to Sharpe ratio but utilizes beta rather than excess risk as determined by standard deviation. It is calculated by taking the excess rate of return above the risk free rate divided by beta to derive the absolute rate of return per unit of risk. A higher value indicates a product has achieved better historical risk-adjusted performance.

Up Market Capture

- The ratio of average portfolio performance over the designated benchmark during periods of positive returns. A higher value indicates better product performance.

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AndCo uses time-weighted calculations which are founded on standards recommended by the CFA Institute. The calculations and values shown are based on information that is received from custodians. AndCo analyzes transactions as indicated on the custodian statements and reviews the custodial market values of the portfolio. As a result, this provides AndCo with a reasonable basis that the investment information presented is free from material misstatement. This methodology of evaluating and measuring performance provides AndCo with a practical foundation for our observations and recommendations. Nothing came to our attention that would cause AndCo to believe that the information presented is significantly misstated.

This performance report is based on data obtained by the client's custodian(s), investment fund administrator, or other sources believed to be reliable. While these sources are believed to be reliable, the data providers are responsible for the accuracy and completeness of their statements. Clients are encouraged to compare the records of their custodian(s) to ensure this report fairly and accurately reflects their various asset positions.

The strategies listed may not be suitable for all investors. We believe the information provided here is reliable, but do not warrant its accuracy or completeness. Past performance is not an indication of future performance. Any information contained in this report is for informational purposes only and should not be construed to be an offer to buy or sell any securities, investment consulting, or investment management services.

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Item 5.B. Flash Report

April 2020

Investment Performance Review Monthly Flash Period Ending April 30, 2020

Delray Beach General Employees Pension Fund





	Index Returns (%)						
<u>Equities</u>	Month	<u>3 M</u>	YTD	1 Year	3 Yr Ann	5 Yr Ann	
S&P 500 Total Return	12.82	(9.26)	(9.29)	0.86	9.04	9.12	
Russell Midcap Index	14.36	(15.92)	(16.60)	(10.00)	3.46	4.81	
Russell 2000 Index	13.74	(18.47)	(21.08)	(16.39)	(0.82)	2.88	
Russell 1000 Growth Index	14.80	(3.54)	(1.39)	10.84	15.69	13.34	
Russell 1000 Value Index	11.24	(16.70)	(18.49)	(11.01)	1.42	3.90	
Russell 3000 Index	13.24	(10.33)	(10.42)	(1.04)	8.02	8.33	
MSCI EAFE NR	6.46	(16.09)	(17.84)	(11.34)	(0.58)	(0.17)	
MSCI EM NR	9.16	(12.52)	(16.60)	(12.00)	0.57	(0.10)	

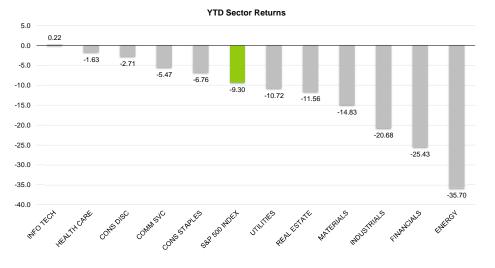
	Russell Indices Style Returns										
	V	В	G		V	В	G				
L	-18.5	-9.7	-1.4	L	26.5	31.4	36.4				
M	-22.6	-16.6	-7.5	М	27.0	30.5	35.5				
s	-27.7	-21.1	-14.7	s	22.4	25.5	28.4				
		YTD				2019					

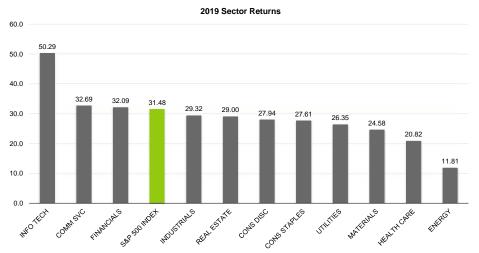
	Index Re	_			
<u>Month</u>	<u>3 M</u>	YTD	1 Year	Mod. Adj. Duration	Yield to Worst
1.78	3.00	4.98	10.84	5.72	1.31
5.24	(0.91)	1.42	9.88	8.34	2.67
4.51	(8.78)	(8.75)	(4.11)	3.91	8.05
1.96	0.35	1.63	6.56	7.18	1.00
	1.78 5.24 4.51	Month 3 M 1.78 3.00 5.24 (0.91) 4.51 (8.78)	1.78 3.00 4.98 5.24 (0.91) 1.42 4.51 (8.78) (8.75)	Month 3 M YTD 1 Year 1.78 3.00 4.98 10.84 5.24 (0.91) 1.42 9.88 4.51 (8.78) (8.75) (4.11)	Month 3 M YTD 1 Year Duration Duration 1.78 3.00 4.98 10.84 5.72 5.24 (0.91) 1.42 9.88 8.34 4.51 (8.78) (8.75) (4.11) 3.91

	Levels					
Currencies	04/30/20	12/31/19	12/31/18			
Euro Spot	1.10	1.12	1.15			
British Pound Spot	1.26	1.33	1.28			
Japanese Yen Spot	107.18	108.61	109.69			
Swiss Franc Spot	0.97	0.97	0.98			

			Levels (%)		
Key Rates	04/30/20	12/31/19	12/31/18	12/31/17	12/31/16
US Generic Govt 3 Mth	0.08	1.54	2.35	1.38	0.50
US Generic Govt 2 Yr	0.20	1.57	2.49	1.88	1.19
US Generic Govt 10 Yr	0.64	1.92	2.68	2.41	2.44
US Generic Govt 30 Yr	1.28	2.39	3.01	2.74	3.07
ICE LIBOR USD 3M	0.56	1.91	2.81	1.69	1.00
Euribor 3 Month ACT/360	(0.27)	(0.38)	(0.31)	(0.33)	(0.32)
Bankrate 30Y Mortgage Rates Na	3.52	3.86	4.51	3.85	4.06
Prime	3 25	4 75	5.50	4 50	3.75

	Levels	
04/30/20	12/31/19	12/31/18
18.84	59.44	49.11
1.78	2.59	2.26
1.95	2.25	2.51
1,694.20	1,535.10	1,187.30
14.97	18.09	16.50
234.40	281.45	266.20
320.00	401.00	417.25
129.91	172.00	159.72
	18.84 1.78 1.95 1,694.20 14.97 234.40 320.00	04/30/20 12/31/19 18.84 59.44 1.78 2.59 1.95 2.25 1,694.20 1,535.10 14.97 18.09 234.40 281.45 320.00 401.00







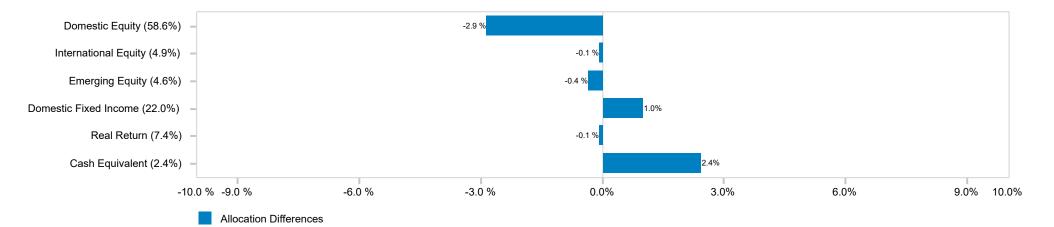
Asset Allocation & Performance											
		Allocation				Performance(%)					
	Market Value \$	%	МТН	QTD	YTD	FYTD	1 YR	3 YR	Inception	Inception Date	
Total Fund Composite	126,483,068	100.0	9.36	9.36	-10.13	-4.21	-2.88	4.76	7.84	10/01/1990	
Policy Index			9.88	9.88	-9.34	-3.36	-2.17	4.67	8.20		
Difference			-0.52	-0.52	-0.79	-0.85	-0.71	0.09	-0.36		
Total Equity Composite	86,332,682	68.3	12.58	12.58	-13.88	-6.13	-5.62	5.40	9.36	10/01/1990	
Total Equity Index	, ,		12.69	12.69	-13.85	-6.38	-6.15	5.00	9.65		
Difference			-0.12	-0.12	-0.03	0.25	0.53	0.40	-0.29		
Total Domestic Equity	74,245,746	58.7									
Vanguard Total Stock Mkt (VTSAX)	607,862	0.5	13.26	13.26	-10.38	-2.35	-1.18	N/A	7.74	07/01/2017	
Russell 3000 Index			13.24	13.24	-10.42	-2.27	-1.04	8.02	7.78		
Difference			0.02	0.02	0.04	-0.08	-0.14	N/A	-0.04		
Boston LCV	13,186,654	10.4	11.88	11.88	-23.10	-17.11	-15.03	0.93	7.92	04/01/1996	
Russell 1000 Value Index			11.24	11.24	-18.49	-12.45	-11.01	1.42	7.82		
Difference			0.64	0.64	-4.61	-4.66	-4.02	-0.49	0.10		
Rhumbline LCV	11,630,880	9.2	11.22	11.22	-18.43	-12.42	-10.98	1.42	10.74	07/01/2009	
Russell 1000 Value Index			11.24	11.24	-18.49	-12.45	-11.01	1.42	10.89		
Difference			-0.02	-0.02	0.06	0.03	0.03	0.00	-0.15		
Rhumbline LCG	31,300,831	24.7	14.76	14.76	-1.35	9.10	10.84	15.64	15.96	07/01/2009	
Russell 1000 Growth Index			14.80	14.80	-1.39	9.08	10.84	15.69	16.02		
Difference			-0.04	-0.04	0.04	0.02	0.00	-0.05	-0.06		
Rhumbline MC	17,519,519	13.9	14.15	14.15	-19.65	-14.01	-14.91	-0.06	6.86	04/01/2007	
S&P MidCap 400 Index			14.18	14.18	-19.73	-14.06	-14.94	-0.03	6.84		
Difference			-0.03	-0.03	0.08	0.05	0.03	-0.03	0.02		



	Allo	cation	Performance(%)							
	Market Value \$	%	МТН	QTD	YTD	FYTD	1 YR	3 YR	Inception	Inceptior Date
Total International Equity										
Harding Loevner Intl Equity (HLIZX)	6,222,358	4.9	5.63	5.63	-14.83	-6.26	-7.85	1.69	5.25	09/01/2011
MSCI EAFE Index			6.54	6.54	-17.66	-10.90	-10.89	-0.09	4.33	
Difference			-0.91	-0.91	2.83	4.64	3.04	1.78	0.92	
Harding Loevner EM (HLMEX)	5,864,579	4.6	8.57	8.57	-21.43	-11.88	-16.81	-1.84	2.32	09/01/2011
MSCI Emerging Markets Index			9.18	9.18	-16.55	-6.60	-11.65	0.94	1.47	
Difference			-0.61	-0.61	-4.88	-5.28	-5.16	-2.78	0.85	
Total Fixed Income Composite	29,483,839	23.3	2.31	2.31	2.45	2.74	6.58	3.65	5.23	04/01/1996
Total Fixed Income Index			1.41	1.41	3.84	4.23	8.18	4.13	N/A	
Difference			0.90	0.90	-1.39	-1.49	-1.60	-0.48	N/A	
Garcia Hamilton Fixed Income	29,483,839	23.3	2.31	2.31	2.45	2.74	6.58	N/A	4.65	02/01/2018
Bloomberg Barclays Intermediate US Govt/Credit Idx			1.41	1.41	3.84	4.23	8.18	4.06	5.53	
Difference			0.90	0.90	-1.39	-1.49	-1.60	N/A	-0.88	
Total Real Return Composite	9,363,269	7.4	5.12	5.12	-8.71	-6.26	-3.40	N/A	0.40	01/01/2018
JPMorgan Income Builder Fund (JNBZX)	4,598,513	3.6	4.67	4.67	-10.61	-7.97	-5.00	N/A	-3.54	04/01/2019
50% MSCI World Index (Net)/50% BB US Agg Index			6.35	6.35	-3.66	0.49	3.82	5.44	5.22	
Difference			-1.68	-1.68	-6.95	-8.46	-8.82	N/A	-8.76	
Blackrock Multi-Asset Income (BKMIX)	4,764,756	3.8	5.56	5.56	-6.80	-4.57	-1.84	N/A	1.08	01/01/2018
50% MSCI World Index (Net)/50% BB US Agg Index			6.35	6.35	-3.66	0.49	3.82	5.44	3.77	
Difference			-0.79	-0.79	-3.14	-5.06	-5.66	N/A	-2.69	
R&D Cash	1,303,278	1.0								



	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Domestic Equity	74,158,718	58.6	61.5	-2.9	3,628,369
nternational Equity	6,222,358	4.9	5.0	-0.1	101,795
Emerging Equity	5,864,579	4.6	5.0	-0.4	459,575
Domestic Fixed Income	27,816,934	22.0	21.0	1.0	-1,255,489
Real Return	9,363,269	7.4	7.5	-0.1	122,961
Cash Equivalent	3,057,211	2.4	0.0	2.4	-3,057,211
otal Fund	126,483,068	100.0	100.0	0.0	_







AndCo compiled this report for the sole use of the client for which it was prepared. AndCo is responsible for evaluating the performance results of the Total Fund along with the investment advisors by comparing their performance with indices and other related peer universe data that is deemed appropriate. AndCo uses the results from this evaluation to make observations and recommendations to the client.

AndCo uses time-weighted calculations which are founded on standards recommended by the CFA Institute. The calculations and values shown are based on information that is received from custodians. AndCo analyzes transactions as indicated on the custodian statements and reviews the custodial market values of the portfolio. As a result, this provides AndCo with a reasonable basis that the investment information presented is free from material misstatement. This methodology of evaluating and measuring performance provides AndCo with a practical foundation for our observations and recommendations. Nothing came to our attention that would cause AndCo to believe that the information presented is significantly misstated.

This performance report is based on data obtained by the client's custodian(s), investment fund administrator, or other sources believed to be reliable. While these sources are believed to be reliable, the data providers are responsible for the accuracy and completeness of their statements. Clients are encouraged to compare the records of their custodian(s) to ensure this report fairly and accurately reflects their various asset positions.

The strategies listed may not be suitable for all investors. We believe the information provided here is reliable, but do not warrant its accuracy or completeness. Past performance is not an indication of future performance. Any information contained in this report is for informational purposes only and should not be construed to be an offer to buy or sell any securities, investment consulting, or investment management services.

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Item 5.E. Term Asset-backed Securities Loan Facility (TALF)

(Will be provided electronically when received)

Item 5.D. Primer on Infrastructure Investments

Introduction to Private Infrastructure A Primer for Institutional Clients

Putting clients first.



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The Investment Challenge

 Expected return from a traditional institutional portfolio will be challenged to meet return targets

Equ	ities	Fixed Income				
U.S. Large Cap	6.41%	Core	3.32%			
U.S. Mid Cap	6.93%	High Yield	5.59%			
U.S. Small Cap	7.35%					
International	7.61%					

 Traditional asset classes (Equities and Fixed Income) tend to be highly correlated

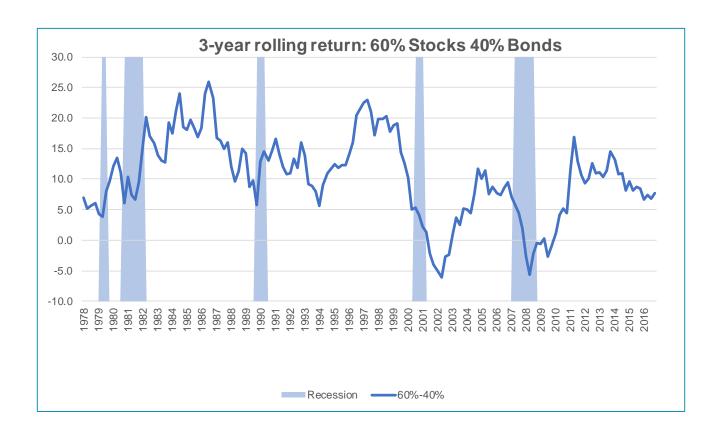
	U.S. Large Cap	U.S. Mid Cap	U.S. Small Cap	International	Core FI	High Yield
U.S. Large Cap	1.00					
U.S. Mid Cap	0.96	1.00				
U.S. Small Cap	0.90	0.95	1.00			
International Equities	0.88	0.86	0.76	1.00		
Core Fixed Income	0.00	-0.01	-0.10	0.10	1.00	
High Yield	0.69	0.74	0.65	0.74	0.19	1.00

Source: Expected return and correlation are from the "2018 JPMorgan Long-Term Capital Market Assumptions"



The Investment Challenge

 The risk in most traditional institutional portfolios comes from exposure to economic growth, returns tend to decline significantly around recessions





Addressing the Investment Challenge

Infrastructure assets have characteristics that can address these challenges:

- Strong cash flow profile and expected total return
 - Relatively steady cash flow through an economic cycle
- Lower correlation to other asset classes
- Inflation protection
 - Some countries contractually link cash flows to inflation measures.
 - Overall value of investment should increase with inflation.
- Less economic sensitivity than public equities
 - Essential nature of asset maintains cash flow during downturns
- Additionally, long term nature of assets match profile of institutional investor's liabilities

Ultimately, these benefits improve the risk-return characteristics of a traditional institutional portfolio, resulting in a more optimal asset allocation for institutional investors



Defining Infrastructure

Infrastructure is defined as essential public services and facilities needed for the general economic operation of a region.

Characteristics include:

- Monopolistic or semi-monopolistic position, high barriers to entry
- Long useful life
- Operate in regulated environments
- Stable, relatively predictable cash flows
- Lower exposure to business cyclicality

Common types of Infrastructure assets:

Sectors	Transportation	Energy/Utilities	Communications	Social
Subsectors	Toll roads/bridges/tunnels Municipal Parking Airports Rail Mass Transit Networks Port Facilities	Oil and Gas Pipelines Regulated Utilities Renewable Energy Water Treatment/Distribution	Communication Towers Cable Networks Satellite Systems	Education Facilities Healthcare Facilities Correctional Facilities



Institutional Investment in Infrastructure

- Infrastructure is a global asset class with a majority of the assets in North America,
 Western Europe, and Asia/Australia.
 - Infrastructure transactions in emerging markets also continue to grow. Oxford Economics forecasts 48% of annual global infrastructure spending will occur in Emerging Asia by 2025, up from 30% in 2012.
- Infrastructure investing has been popular in Australia for many years within its superannuation funds. It has also been widely implemented as an asset class in the public retirement systems of Canada and Western Europe.
 - Based on Preqin data, as of March 2017, there was approximately \$425 billion of unlisted infrastructure assets under management compared to \$110 billion as of December 2008.
- Acceptance of the asset class among U.S. institutional investors is increasing with numerous potential opportunities. Investing in U.S. infrastructure assets allows investors exposure to the asset class without the currency risk exposure.
- In 2016, Oxford Economics forecasts total global infrastructure spending from 2015 to 2020 will be in the \$26 to \$28 trillion range



PARTON CANANA TANANA

Benefits of Implementing an Allocation to Infrastructure

Risk-Adjusted Return Potential

Private global infrastructure is anticipated to generate an attractive long-term, risk-adjusted return profile relative to equites and fixed income, and a similar profile to core private real estate.

	Return	Standard Deviation
Global Infrastructure*	6.89	11.75
U.S. Large Cap	6.41	14.00
U.S. Mid Cap	6.93	16.00
U.S. Small Cap	7.35	18.75
International Equities	7.61	17.25
Core Fixed Income	3.32	3.75
High Yield	5.59	8.50
U.S. Core Real Estate*	5.79	10.75



Source: Forecast returns are from the "2018 JPMorgan Long-Term Capital Market Assumptions" *The JPMorgan assumptions for infrastructure real estate are unlevered returns.

Benefits of Implementing an Allocation to Infrastructure

Diversification

Private global infrastructure has a low correlation with equities, fixed income, and core private real estate.

	Global Infrastructure	U.S. Large Cap	U.S. Mid Cap	U.S. Small Cap	International	Core FI	High Yield	U.S. Core RE
Global Infrastructure	1.00							
U.S. Large Cap	0.30	1.00						
U.S. Mid Cap	0.30	0.96	1.00					
U.S. Small Cap	0.28	0.90	0.95	1.00				
International Equities	0.26	0.88	0.76	0.76	1.00			
Core Fixed Income	0.00	0.00	-0.01	-0.10	0.10	1.00		
High Yield	0.22	0.69	0.74	0.65	0.74	0.19	1.00	
U.S. Core Real Estate	0.30	0.30	0.31	0.31	0.26	0.31	0.23	1.00



Implementation Considerations

Infrastructure Strategies

There are three primary types of strategies with varying risk and return profiles that an institution can utilize to construct an infrastructure portfolio.

- Core is a lower-risk strategy, driven primarily by current income
- Value-add provides more upside potential than Core, but also adds more risk. It seeks
 appreciation while mitigating volatility with some current income generation.
- Opportunistic offers the highest risk and highest return potential. It derives most of its return from appreciation.

	Core	Value-add	Opportunistic
Target Return (net)	8% to 10%	10% to 12%	15% to 17%
Key Risks	Operating	Operating Strategy Execution Construction	Construction Strategy Execution Market, Political
Primary Return Driver	Income	Appreciation	Appreciation
GDP Sensitivity	Low	High	High
Brownfield or Greenfield	Brownfield	Both	Both
Operating Complexity	Medium	High	High
Geography	OECD	OECD/Non OECD	OECD/Non OECD



X V

Implementation Considerations

Infrastructure Strategies

Value-add

- A variety of strategies are implemented to increase the value of a core asset, with capital appreciation usually crystallized in an exit.
- Strategies include: Buy-and-builds, platform roll-ups, turnarounds are all relevant examples.
- Asset types include midstream oil and gas, long-haul oil and gas pipelines, airports, toll roads

Opportunistic

- Assets with development risk or less predicable revenues, such as uncontracted pipelines,
- Asset types include service companies, some telecom investments, and greenfield projects

Core

- Equity investments in operating assets with established cash flows and revenue security from contracts or a regulated position, situated in developed markets
- Asset types include social infrastructure, electrical distribution, water utilities

8%





Implementation Considerations

Investment Vehicles

Vehicle type	Minimum Investment	Liquidity	Fund Term	Typical Strategies
Open-end Funds (private)	\$10 million (negotiable)	Quarterly	Perpetual	Core
Closed-end Funds (private)	\$10 million (negotiable)	Illiquid	10 to 12 years	Core Value-add Opportunistic Debt



Implementation Considerations

What to consider when selecting the right strategy for your portfolio

	Open-end Funds (private assets)	Closed-end Funds (private assets)
Key Advantages	 Current income generated from cash-flowing assets Low correlation to equity markets Direct exposure to infrastructure assets 	 Broadest number of managers and strategies to select from Low correlation to public equity markets Direct exposure to infrastructure assets
Key Disadvantages	 Higher fees Focus on cash-flow, less upside potential Leveraged Less liquid than listed securities 	 Higher fees Leveraged Blind pool risk Liquidity is limited to complex secondary market transactions
Fit within Portfolio	 Tend to focus on investments with long-term hold periods and stable cash flows Primary component of an institutional investor's infrastructure program 	 Tend to focus on investments with a higher risk/return profile Complementary component of an institutional investor's infrastructure program



Implementation Considerations - Risks

Primary considerations to implementing an infrastructure allocation:

Political/Regulatory:

• Regulated Infrastructure assets are subject to changes in government regulations and guarantees. Governmental regulators typically determine rates that can be charged to customers. Energy infrastructure, including oil & gas, solar, wind, and nuclear, are particularly vulnerable to this risk.

Asset types:

• For some assets, rate increases are not built into contracts which reduces the extent of inflation protection. Particularly in US, there is a high reliance on regulators for rate increases, which can be time-consuming.

Headline:

High potential for public backlash on rate increases

Currency:

Exchange rate fluctuations on foreign investments can severely impact returns.

Benchmarking:

 There is no benchmarking standard for private infrastructure strategies. Alternatives include absolute return, CPI + x%, public benchmark + x%, or comparison to funds of the same vintage year.

Credit:

Private funds typically carry 40% to 70% leverage and are sensitive to credit market conditions



Implementation Considerations - Risks

Primary considerations to implementing an infrastructure allocation:

Liquidity:

 Open-end private fund's quarterly liquidity option can lock up depending on withdrawal queue and market conditions.

UBTI:

• Most funds will structure investments to minimize the impact of Unrelated Business Taxable Income (UBTI). However, certain investments may result in the generation of UBTI. To remedy this, managers may have offshore blocker vehicle options. Please consult your tax advisor to determine the impact of UBTI.

ERISA Fiduciary:

Most Private Equity managers are not ERISA fiduciaries by accepting less than 25% of ERISA commitments or by becoming exempt by registering as a venture capital operating company (VCOC). If either of these cases, managers will not comply with ERISA standards.



Implementation Considerations – Manager/Strategy Selection

What does AndCo look for when evaluating Infrastructure managers?

- Team stability
 - Due to the long-term nature of the investments it is crucial to partner with a team that has had minimal turnover of key professionals responsible for generating the firm's track record.
- Ability to add value through active management
 - Demonstrated capabilities of adding value through techniques such as adding key management personnel, negotiating contracts, optimizing the capital structure, and pursuing strategic acquisitions.
- Strong network for sourcing deal flow
 - A long history in the space provides the reputation and relationships needed to generate proprietary deals or greater participation in limited auctions, which can drive higher returns.
- Strong balance sheet for financing
 - Most private funds are levered, an ability to access attractive terms on debt will impact total return.
- Valuation Policy
 - Valuations are conducted on a quarterly basis. Managers must follow industry standard best practices that are audited annually by a third party.
- Exit strategy
 - Closed-end funds have a finite life, managers need to demonstrate a clearly defined exit strategy for the assets.
- Track record
 - Open-end funds manage redemptions through either cash inflows from new investors or selling assets. Poor
 performance can lead to increased redemptions and lack of new inflows. Current investors may be unable to receive
 redemption proceeds until assets are sold.



The Infrastructure Opportunity

AndCo's View

- Allocating 5% to 10% of an institutional portfolio to Infrastructure can make sense, depending on the investor's objectives.
- We view Infrastructure as a component of a strategic allocation, not a short-term trade idea.
- Investors seeking to reduce equity and fixed income risk without sacrificing significant return potential
 would benefit from an allocation to infrastructure.
- Lower-risk/return strategies with a focus on investments that have stable cash flows and are less sensitive to economic growth should be the primary component of an infrastructure program.
- Higher-risk/return strategies that are dependent on a manager's operational expertise to create value or take on development risk can serve as a complementary component of an infrastructure program.
- We would avoid listed infrastructure, which does not offer as much diversification or risk reduction as private infrastructure does.



Glossary

Brownfield – projects that have existing assets generating cash flow

Capital Call – Occurs when a manager requests a transfer of the portion of the investors' committed capital. The called capital is utilized by the manager to make investments and cover expenses.

Carried Interest – performance fee collected by the manager on profits in excess of a predetermined return referred to as a preferred return

Closed-end Fund – A fund with specified term the manager must liquidate the investments by, generally eight years or longer

Committed Capital – The amount of capital an investor has agreed to invest in a closed-end, private infrastructure fund. The capital is called on an as needed basis by the manager.

Greenfield – projects that include the construction of new assets

Investment Period or Commitment Period – Refers to the established length of time a manager can call capital for new investments, generally three to four years

Monopolistic – markets in which a product is controlled by a single producer and there are few, if any, substitutes

Open-end Fund – A perpetual fund with no set end date. New investors buy in at the current Net Asset Value and existing investors sell at the current Net Asset Value.

Preferred Return – Also referred to as a hurdle rate. The minimum level of return the investment or fund needs to earn before the manager can earn carried interest.

Vintage Year – The calendar year in which the manager begins investing capital of an infrastructure fund



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Item 5.C.

Review Near Term Cash Requirements and Possible Asset Rebalancing

(No backup for this Item)

Item 6 Pension Administrator Report

City of Delray Beach

Pension Dept.



MEMORANDUM

TO: City of Delray Beach General Employees' Retirement Plan

Retirement Committee

FROM: Lisa Castronovo, Pension Administrator

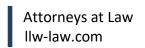
SUBJECT: FYI Items

DATE: 5/14/2020

1) Following is a memorandum from Janice Rustin regarding active member Michael Vinci. This item requires Committee action.

- 2) Following is a detail of the actual administrative and investment-related expenses through April 30, 2020.
- 3) I have provided the NFP (formerly known as Fiduciary First) reports for the General Employees' DROP account for December 31, 2019 and March 31, 2020 as attachments in the email sent that included the Agenda and backup for this meeting.
- 4) Status update of items discussed at the February meeting that required further research, discussion, or action:
 - a) My acquisition of a credit card for the exclusive use to facilitate purchases that are most often Committee travel-related: Marie Kalka and Laura Thezine have approved my acquisition of a City purchasing card but only after I receive approval from the City Attorney for such acquisition; to date, I have not discussed with the City Attorney.
 - b) My acquisition of a notary certification: to date, I have researched to identify the companies that provide the certification, so I have not yet gotten the certification.
 - c) Updated travel policy to include specifics regarding travel outside of Florida: Mr. Frankel provided a travel policy (attached herewith) from December 2007 as adopted by the City's Police and Firefighters' Retirement System Board of Trustees. To date, I have not acquired any other organization's travel policy nor have I drafted a policy for the Committee.
 - d) Bullet-point summary of proposed State law: Ms. Kalka volunteered to draft this summary with my assistance, but due to Ms. Kalka's involvement with the City and my working from home during the City's shutdown, we have not been able to collaborate to prepare the draft summary.
 - e) Accounts payable requirements report: Ms. Kalka volunteered to draft this report with my assistance, but due to Ms. Kalka's involvement with the City and my working from home during the City's shutdown, we have not been able to collaborate to prepare a draft report.
 - f) Detail of actual administrative and investment-related expenses as of September 30, 2019: I will provide as soon as I can.

Pension Administrator Report Item 1





REPLY TO: TALLAHASSEE

MEMORANDUM

TO: Lynn Gelin, City Attorney

Marie Kalka, Finance Director

City of Delray Beach

FROM: Jim Linn

DATE: May 6, 2020

SUBJECT: General Employees Retirement Plan – Correction of DROP Entry/Employee

Contribution Error (Michael Vinci)

This memo responds to your question as to whether the City can allow a member of the General Employees Retirement Plan whose employee contributions were erroneously stopped in December 2018, to make up for the missed contributions by agreeing to a reduction of his DROP benefits. In sum, Florida law permits pension plan members to voluntarily relinquish their retirement benefits in exchange for something of value. An agreement in which a member agrees not to collect a portion of his DROP payments until his outstanding employee contributions are paid would be a valid agreement under Florida law. Any such agreement should be approved by the Retirement Committee since it has the authority to correct errors in Plan administration.

Background

Michael Vinci was hired as a City employee on July 24, 2006. He is a member of the City of Delray Beach General Employees Retirement Plan ("GE Plan"). From July 24, 2007 to March 31, 2017, he contributed 3.05% of his compensation to the GE Plan by way of an automatic payroll deduction. From April 1, 2017 to November 30, 2018, he contributed 6.5% of his compensation to the Plan for the enhanced multiplier. He has not made any contributions to the Plan since November 30, 2018.

Mr. Vinci became eligible for retirement on November 1, 2017 In October 2018, he submitted his application to enter the DROP program starting December 1, 2018. At that time, the plan administrator notified the City payroll department to cease the automatic payroll deduction for

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245 Riverside Ave., Suite 150	315 South Calhoun St., Suite 830	101 Riverfront Blvd., Suite 620	515 North Flagler Dr., Suite 1500
Jacksonville, Florida 32202	Tallahassee, Florida 32301	Bradenton, Florida 34205	West Palm Beach, Florida 33401
T: 904.353.6410	T: 850.222.5702	T: 941.708.4040	T: 561.640.0820
F: 904.353.7619	F: 850.224.9242	F: 941.708.4024	F: 561.640.8202

Mr. Vinci's employee contributions as of December 1, 2018. One week later, Mr. Vinci withdrew his DROP application and decided not to enter the DROP at that time. In March 2020, it was discovered City's payroll department had not been notified that Mr. Vinci withdrew his DROP application. As result, the automatic payroll deductions for Mr. Vinci's employee contributions ceased as of December 2018.

As of March 6, 2020, the total amount of Mr. Vinci's unpaid contributions was \$5,618.94. Mr. Vinci claims he was unaware that the payroll deductions for his employee pension contributions had stopped. He assumed that the increase in his biweekly pay was due to his annual performance increase that was applied in October 2018. Mr. Vinci says he is unable to pay the unpaid contributions at this time as either a lump sum or on an accelerated payment schedule, as he is planning to enter the DROP on May 1, 2020.

You have asked whether the City has the legal authority to permit Mr. Vinci to make up the required employee pension contributions through a reduction in his DROP benefits.

Analysis

Pursuant to IRS rules and regulations, the City has a duty to correct operational errors arising from administration of the GE Plan, in order to maintain the Plan's tax qualified status. Operational errors include failure to withhold mandatory employee contributions equal to the amount stated in the written terms of Plan. See IRS Revenue Procedure 2016-61. GE Plan Section 35.090(B) requires employees to make contributions to the Plan of at least 3.05% of their base compensation In Mr. Vinci's case, the GE Plan has not been administered in accordance with the written terms of the Plan. Accordingly, the City must take steps to rectify this employee contribution error. Failure to do so could result in disqualification of the Plan. Mr. Vinci has an incentive to work with the City to correct this error, because he cannot receive credited service or benefits under the Plan for the period from December 2018 to the present unless the contributions are paid.

Florida courts have recognized that public employee retirement benefits are in the nature of a contract. Therefore, the question of whether Mr. Vinci can agree to modify his retirement benefits is analyzed within the framework of general contract principles. Parties to a contract may voluntarily relinquish or modify their contractual rights by mutual agreement if the modification is supported by valid consideration and is not contrary to public policy. *St. Joe Corp. v. McIver*, 875 So. 2d 375 (Fla. 2004). Valid consideration may be anything of value, including the relinquishment of a legal right. *Loper v. Weather Shield Mfg., Inc.* 203 So. 3d 898, 903 (Fla. 1st DCA, 2015). In our opinion, an agreement in which Mr. Vinci voluntarily relinquishes his rights to collect a portion of his DROP benefits in exchange for restoring the credited service and benefits he would have earned under the Plan from December 2018 to the present would be consistent with Florida law.

Procedure

Pursuant to GE Plan Section 35.105 (E), the Retirement Committee has the power to correct errors made in connection with Plan administration:

In order to effectuate the purposes of the plan, the Committee shall have the power to construe the plan, to supply any omissions therein, to reconcile and correct any errors or inconsistencies and <u>to make equitable adjustments for any mistakes or errors made in administration of the plan.</u>

Because Mr. Vinci's contribution error arose in the administration of the Plan, the Retirement Committee should approve any agreement to permit Mr. Vinci to pay back his missed contributions through a reduction in his DROP benefits.

The Retirement Committee should also determine what amount is due to restore Mr. Vinci's participation in the Plan. At a minimum, Mr. Vinci must make a payment equal to the contribution that he should have made under the written terms of the Plan, or \$5,618.94, to avoid Plan qualification issues. In order for the Plan to be in the same position it would have been in if Mr. Vinci's employee contributions had not been stopped in December 2018,terminated, Mr. Vinci would have to make a payment equal to his required employee contribution, plus interest calculated at the Plans' assumed rate of return. However, the Committee has broad authority to make equitable adjustments to correct an error in Plan administration. It is within the Committee's authority to make an equitable adjustment to the payment amount and not require Mr. Vinci to pay interest on the unpaid employee contribution since the early termination of his mandatory employee contribution was an error not of his making.

We recommend that City request that the Retirement Committee consider this issue at its next meeting. Please let us know if you have any questions or want to discuss.

Pension Administrator Report Item 2

General Employees' Retirement Plan Administrative and Investment Expenditure Detail

	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
Administrative/Miscellaneous Expenses					_		-	
Gabriel Roeder Smith & Company	3,986	7,196	0	2,526	1,738	4,354	0	0
Pension Administrator	2,805	2,950	2,950	2,950	2,950	2,950	2,950	2,950
GRS Hosting Fee	0	0	0	0	0	0	0	0
Fiduciary Insurance	0	0	0	0	0	15,311	0	0
Dues/Education/Travel	30	0	0	3,955	0	0	0	0
Legal Consultant Fees	0	0	0	2,737	2,687	0	0	0
NFP Retirement	0	0	1,020	0	0	934	0	0
Total Admin./Misc. Expenses	6,821	10,146	3,970	12,168	7,375	23,549	2,950	2,950
Investment Manager Expenses								
BNYMellon	30,150	15,911	0	0	16,894	0	0	11,791
Garcia Hamilton	13,863	0	0	0	13,944	0	14,114	
RhumbLine Combined	0	0	6,212	6,575	0	0	6,093	
Total Investment Manager Expenses	44,013	15,911	6,212	6,575	30,838	0	20,207	11,791
Salem Trust Transaction Fees	0	0	0	9,545	0	0	8,985	0
BNYMellon	1,788	0	0	1,927	0	0	1,324	0
Garcia Hamilton	3,213	0	0	3,224	0	0	3,226	0
Total Salem Trust Transaction Fees	5,001	0	0	14,696	0	0	13,535	0
AndCo Consulting Fees	0	8,357	0	0	0	8,357	0	0
Total Investment Expenses Year end Market Value Assets	49,014	24,268	6,212	21,271	30,838	8,357	33,742	11,791

Item 7 Other Business

Item 7.A. September 30, 2019 Audit Report

Fiduciary Funds

Fiduciary Funds are used to account for assets held in trust or as an agent by the City for others and include pension trust funds.

General Employees' Pension Fund – This fund is used to account for assets held in a trustee capacity for the retirement pensions of all permanent, full-time City employees except those covered by the Police Officers' and Firefighters' Retirement System Funds.

Police Officers' Retirement System Fund – This fund is used to account for assets held in a trustee capacity for the retirement pensions of all non-civilian police department employees of the City. The fund was established by City Ordinance No. 17-16 which created a separate retirement system for all non-civilian police department employees, effective October 1, 2016.

Firefighters' Retirement System Fund – This fund is used to account for assets held in a trustee capacity for the retirement pensions of all non-civilian fire department employees of the City. The fund was established by City Ordinance No. 17-16 which created a separate retirement system for all non-civilian fire department employees, effective October 1, 2016.

CITY OF DELRAY BEACH, FLORIDA

COMBINING STATEMENT OF FIDUCIARY NET POSITION

PENSION TRUST FUNDS September 30, 2019

Police Officers' Firefighters' General Total Employees' Retirement Retirement **Pension Trust** Pension System System Funds ASSETS Cash\$ 23,849 \$ 125,695 \$ 126,738 \$ 276,282 Investments: Money market mutual funds 1,543,089 1,577,559 1,896,992 5,017,640 U.S. Government securities 8,743,338 4,562,319 4,942,156 18,247,813 U.S. Government Agency securities 3,895,156 3,566,262 4,103,879 11,565,297 Domestic corporate bonds 15,789,711 12,240,636 13,481,011 41,511,358 Global fixed income investment fund 10,831,980 18,454,526 3.565,215 4,057,331 2,802,783 Global asset allocation investment fund 2,802,783 Domestic equity securities 15,710,806 22,439,035 39,286,639 77,436,480 Domestic equity mutual funds 6,165,342 9,867,232 16,032,574 64,399,214 Domestic equity index funds 10,702,223 10,247,283 85,348,720 International equity mutual funds 5,836,687 14,586,533 16,086,255 36,509,475 580,897 Foreign stocks 1,153,883 1,734,780 Timber investment funds 1,196,061 1,325,625 2,521,686 Real estate investment trusts 274,422 274,422 Real estate investment funds 8,108,384 8,986,733 17,095,117 Fixed income alternative investment fund 2,542,466 2,817,878 5,360,344 Interest and dividends receivable 170,095 137,877 171,986 479,958 493,985 Pending trades receivable 226,241 278,460 998,686 Employee contributions receivable 43,704 36,629 80,333 Miscellaneous receivable 6,996 6,996 109,273,900 133,603,252 98,878,118 341,755,270 Total Assets LIABILITIES 161,530 75,432 94,834 331,796 Accounts payable Pending trades payable 511,986 236,136 275,667 1,023,789 **Total Liabilities** 673,516 311,568 370,501 1,355,585 NET POSITION 98,566,550 \$ 108,903,399 \$ 340,399,685 Restricted for pension benefits 132,929,736 \$

CITY OF DELRAY BEACH, FLORIDA

COMBINING STATEMENT OF CHANGES IN FIDUCIARY NET POSITION PENSION TRUST FUNDS

For the Fiscal Year Ended September 30, 2019

	General Employees' F Pension		Firefighters' Retirement System	Total Pension Trust Funds
ADDITIONS		-	-	
Contributions				
Employer	\$ 2,360,582	\$ 6,247,516	\$ 6,452,812	\$ 15,060,910
State of Florida	-	835,929	1,129,759	1,965,688
Plan members	1,206,890	1,160,807	1,044,994	3,412,691
Total contributions	 3,567,472	8,244,252	8,627,565	20,439,289
Investment earnings				
Net appreciation in fair value of investments	842,429	2,005,993	2,419,035	5,267,457
Interest, dividends and investment fund income	3,024,020	2,898,125	3,064,435	8,986,580
Other investment income	5,729	1,865	1,379	8,973
	 3,872,178	4,905,983	5,484,849	14,263,010
Less investment expenses	(251,664)	(609,307)	(723,561)	(1,584,532)
Net investment earnings	 3,620,514	4,296,676	4,761,288	12,678,478
Total Additions	7,187,986	12,540,928	13,388,853	33,117,767
DEDUCTIONS				
Benefits	7,686,562	7,799,644	8,483,028	23,969,234
Refunds of contributions	117,583	103,178	10,566	231,327
Administrative expenses	172,197	181,670	160,131	513,998
Total Deductions	 7,976,342	8,084,492	8,653,725	24,714,559
Change In Plan Net Position	(788,356)	4,456,436	4,735,128	8,403,208
Net Position Restricted for Pension Benefits				
at October 1, 2018	 133,718,092	94,110,114	104,168,271	331,996,477
Net Position Restricted for Pension Benefits				
at September 30, 2019	\$ 132,929,736	\$ 98,566,550	\$ 108,903,399	\$ 340,399,685

Notes to Financial Statements

September 30, 2019

11. Noncurrent Liabilities (Continued)

Blended Component Unit - Delray Beach Community Redevelopment Agency (Continued)

The annual debt service requirements on the loan payable to the City from the CRA are summarized as follows:

Fiscal Year Ending September 30,	Principal]	Interest	Total
2020	\$ 361,419	\$	58,730	\$ 420,149
2021	361,419		58,730	420,149
2022	361,419		58,730	420,149
2023	361,419		58,730	420,149
2024	 361,419		58,730	420,149
	\$ 1,807,095	\$	293,650	\$ 2,100,745

12. Employee Retirement Plans

Description of the Plans

The City contributes to three single-employer defined benefit pension plans covering substantially all full-time City employees. The General Employees' Pension Plan is for employees who have completed one year of credited service, excluding the City Commission, City Manager (and assistants), City Attorney (and assistants) and department heads if they elect not to participate, and firefighters and police officers covered under separate pension plans. The Delray Beach Firefighters' Retirement System covers all firefighters and the Delray Beach Police Officers' Retirement System covers all police officers. Each plan is administered by an independent Board and is accounted for by the City as a separate fund. The costs of administering the plans are financed by the plans' respective investment earnings. Actuarial reports are prepared annually for each plan.

General Employees' Pension Plan - The benefit provisions and all other requirements of the General Employees' Pension Plan are established by City Ordinance and are summarized as follows:

The City's Code of Ordinances provides, in general, that funds are to be accumulated from employee contributions, City contributions and income from investment of accumulated funds. The operations of the fund are administered and managed by the General Employees' Pension Fund Board, which consists of a chairperson and four additional members, all of whom are appointed by the City Commission.

Vesting - Benefits vest 50% after five years of service plus 10% each additional year up to 100% at 10 years.

Eligibility for Retirement - Ordinance No. 33-10 effective October 5, 2010, changed normal retirement eligibility from the earlier of age 60 with ten years of service or 30 years of service regardless of age to the earlier of age 62 with ten years of service or 30 years of service regardless of age. This change did not apply to members who were within ten years of normal retirement eligibility as of October 5, 2010. Normal retirement eligibility for members hired after October 5, 2010, is age 65 with ten years of service.

Annual Retirement Benefit - 2.5% of average monthly compensation times years of service with a maximum benefit of 75% of average monthly compensation. Effective October 5, 2010, the normal form of benefit changed from a 60% joint and survivor annuity to a life annuity. This change did not apply to members who were within ten years of normal retirement eligibility as of October 5, 2010. Effective July 2005, participants have the option of a 3% multiplier with a maximum benefit of 90%. Employees selecting this option will contribute an additional 3.45% of earnings. There is also the option to purchase all or a portion of prior service at the increased multiplier.

City of Delray Beach, Florida Notes to Financial Statements

September 30, 2019

12. Employee Retirement Plans (Continued)

Description of the Plans (Continued)

Deferred Retirement Option Plan ("DROP") - Employees with 10 years of credited service and eligible for normal retirement have the option of entering DROP. When entering DROP, the employee continues employment with the City, but will cease accruing a pension benefit, and the monthly benefit under the plan as of the DROP election date will be directed to the employee's self-administered 401(a) Plan. After a maximum of 60 months, the employee must terminate employment with the City. The balance of amounts held pursuant to DROP was \$6,826,645 at September 30, 2019.

Other Benefits - The system also provides for optional retirement benefits, early retirement, extended retirement, disability retirement, and death benefits.

Employee Contributions - The employee contribution is 3.05% of the employee's base annual compensation. If the employee chooses the 3% multiplier, there is an additional contribution of 3.45% for a total of 6.5%. If an employee leaves covered employment or dies before five years of credited service, accumulated employee contributions are refunded with interest to the employee or the designated beneficiary.

City Contributions - City contributions are based upon actuarially determined amounts, which together with earnings and employee contributions, are sufficient to fund the plan.

Police and Firefighters' Retirement System - The City of Delray Beach Police and Firefighters' Retirement System (the "Legacy Plan") was originally established in 1974 by the City of Delray Beach to provide pension benefits to all full-time City police officers and firefighters. Effective October 1, 2016, the City Commission adopted City Ordinance No. 17-16, which provided for the establishment of separate retirement systems for the City's police officers and firefighters, a new Board for each retirement system, changes in the allocation and use of Chapter 175 and 185 premium tax revenues, and changes to the retirement benefits of police officers and firefighters. Accordingly, during the year ended September 30, 2017, the assets of the Legacy Plan were allocated to the new Delray Beach Police Officers' Retirement System and Delray Beach Firefighters' Retirement System based on an actuarial impact statement dated September 6, 2016 that utilized the ratio of the present value of accrued benefits for each of the police officer and firefighter members (and beneficiaries of such members, if applicable) to the total present value of accrued benefits. The allocation method resulted in an allocation of 47.431% of the Legacy Plan assets to the new Police Officers' Retirement System and 52.569% of the Legacy Plan assets to the new Firefighters' Retirement System. The allocation percentages were not applied to the Excess State Monies Reserves and DROP that were allocated to the new plans based on the actual reserves and balances held for the respective groups. At September 30, 2017, all Legacy Plan assets were fully allocated and operation of the Legacy Plan as a City retirement plan was discontinued.

Police Officers' Retirement System - The benefit provisions and all other requirements of the Police Officers' Retirement System are established by City Ordinance and are summarized as follows:

The City's Code of Ordinances provides, in general, that funds are to be accumulated from employee contributions, City contributions, state appropriations and income from investment of accumulated funds. Florida Statutes provide that, should the accumulated funds at any time be insufficient to meet and pay the benefits due, the City shall supplement the fund by an appropriation from current funds or from any revenues which may lawfully be used for said purposes in an amount sufficient to make up the deficiency. The operations of the System are administered and managed by the Police Officers' Retirement System Board, consisting of two outside members appointed by the City Commission, two full-time City police officers elected by active members and a fifth member chosen by a majority of the other four members.

Vesting - Benefits fully vest after 10 years of service.

Notes to Financial Statements

September 30, 2019

12. Employee Retirement Plans (Continued)

Description of the Plans (Continued)

Eligibility for Normal Retirement - For police officers hired on or before July 7, 2015, eligibility for normal retirement is the earlier of age 55 and 10 years of service or 20 years of service regardless of age. For police officers hired after July 7, 2015, eligibility for normal retirement is the earlier of age 55 and 10 years of service or 25 years of service regardless of age.

Annual Retirement Benefit - The annual retirement benefit for police officers is based on the date of hire as follows:

- A) Police Officers hired on or before July 7, 2015 with 20 or more years of service on July 7, 2015, receive 3.5% (if the enhanced multiplier is elected or 3.0% if it is not elected) times the police officers' average final compensation for all credited service (subject to a maximum benefit equal to 87.5% of average final compensation).
- B) Police officers hired on or before July 7, 2015, and retiring with:
 - 1) more than 20 years of service receive 3.5% (if the enhanced multiplier is elected or 3.0% if it is not elected) times the police officer's average final compensation for all credited service prior to July 7, 2015 plus 3.0% times the police officer's average final compensation times all credited service after July 6, 2015.
 - 2) less than 20 years of service receive 2.5% times the police officer's average final compensation times all years of credited service prior to July 7, 2015 plus 3.0% times the police officer's average final compensation times all years of credited service after July 6, 2015 (subject to a maximum annual benefit of \$108,000 but in no event less than 2.0% times average final compensation for each year of service).
- C) Police officers hired after July 7, 2015 receive 2.75% times the police officer's average final compensation times all years of credited service (subject to a maximum annual benefit of \$108,000 and further subject to a maximum of 68.75% of their average final compensation (but in no event less than 2% times average final compensation for each year of service).
- D) Police Officers hired after April 9, 2013 may not elect the enhanced multiplier.

Deferred Retirement Option Plan ("DROP") – Police officers who have met normal retirement eligibility have the option of entering the DROP. When entering the DROP, the police officer continues employment with the City, but will cease accruing a pension benefit under the plan, and the monthly benefit as of the DROP election date will be directed to the police officer's self-administered 401(a) plan. After a maximum of 60 months, the police officer must terminate employment with the City. The balance of amounts held pursuant to DROP was \$8,295,220 at September 30, 2019.

Other Benefits - The plan also provides for optional retirement benefits, early retirement, disability retirement, and death benefits.

Employee Contributions - Police officers are required to contribute 9.0% of annual compensation. If a police officer leaves employment or dies prior to vesting, contributions are refunded to the police officer or designated beneficiary with interest.

State of Florida Contributions - Pursuant to Chapter 185 of the Florida Statutes, a premium tax on certain casualty insurance contracts written on properties within the City is collected by the State and remitted to the City annually as an on-behalf payment for the Police Officers' Retirement System. Chapter 185 tax monies up to \$606,595 annually will be used to offset the City's contributions.

City Contributions - City contributions are based upon actuarially determined amounts which, together with earnings, employee and State contributions, are sufficient to fund the plan.

Notes to Financial Statements

September 30, 2019

12. Employee Retirement Plans (Continued)

Description of the Plans (Continued)

Firefighters' Retirement System - The benefit provisions and all other requirements of the Firefighters' Retirement System are established by City Ordinance and are summarized as follows:

The City's Code of Ordinances provides, in general, that funds are to be accumulated from employee contributions, City contributions, state appropriations and income from investment of accumulated funds. Florida Statutes provide that, should the accumulated funds at any time be insufficient to meet and pay the benefits due, the City shall supplement the fund by an appropriation from current funds or from any revenues which may lawfully be used for said purposes in an amount sufficient to make up the deficiency. The operations of the System are administered and managed by the Firefighters' Retirement System Board, consisting of two outside members appointed by the City Commission, two full-time City firefighters elected by the active members of the Plan, and a fifth member chosen by the majority of the other four members.

Vesting - Benefits fully vest after 10 years of service.

Eligibility for Normal Retirement - For firefighters hired on or before October 4, 2016, eligibility for normal retirement is the earlier of age 55 and 10 years of service or 20 years of service regardless of age. For firefighters hired after October 4, 2016, eligibility for normal retirement is the earlier of age 55 and 10 years of service or 25 years of service regardless of age.

Annual Retirement Benefit - The annual retirement benefit for firefighters is based on the date of hire as follows:

- A) Firefighters hired on or before October 4, 2016 with 20 or more years of service on October 4, 2016, receive 3.5% (if the enhanced multiplier is elected or 3.0% if it is not elected) times the firefighter's average final compensation for all credited service (subject to a maximum benefit equal to 87.5% of average final compensation).
- B) Firefighters hired on or before October 4, 2016 with less than 20 years of service on October 4, 2016, and retiring with:
 - 1) more than 20 years of service at retirement receive 3.5% (if the enhanced multiplier is elected or 3.0% if it is not elected) times the firefighter's average final compensation for all credited service prior to October 4, 2016 plus 3.0% times the firefighter's average final compensation times all years of credited service after October 4, 2016 (subject to a maximum annual benefit of \$100,000, but not less than 2.0% times average final compensation for each year of credited service).
 - 2) less than 20 years of service at retirement receive 2.5% times the firefighter's average final compensation times all years of credited service prior to October 4, 2016 plus 3.0% times the firefighter's average final compensation times all years of credited service after October 4, 2016 (subject to a maximum annual benefit of \$100,000, but not less than 2.0% times average final compensation for each year of credited service).
- C) Firefighters hired after October 4, 2016 receive 2.75% times the firefighter's average final compensation times all years of credited service (subject to a maximum annual benefit of \$100,000, but not less than 2.0% times average final compensation for each year of credited service).
- D) Firefighters hired after April 9, 2013 may not elect the enhanced multiplier.

Deferred Retirement Option Plan ("DROP") - Firefighters who have met normal retirement eligibility have the option of entering the DROP. When entering the DROP, the firefighter continues employment with the City, but will cease accruing a pension benefit under the plan, and the monthly benefit as of the

Notes to Financial Statements

September 30, 2019

12. Employee Retirement Plans (Continued)

Description of the Plans (Continued)

DROP election date will be directed to the firefighter's self-administered 401(a) plan. After a maximum of 60 months, the firefighter must terminate employment with the City. The balance of amounts held pursuant to DROP was \$11,582,452 at September 30, 2019.

Other Benefits - The plan also provides for optional retirement benefits, early retirement, disability retirement, and death benefits.

Employee Contributions - Firefighters are required to contribute 9.0% of annual compensation. If an employee leaves employment or dies prior to vesting, contributions are refunded to the firefighter or designated beneficiary with interest.

State of Florida Contributions - Pursuant to Chapter 175 of the Florida Statutes, a premium tax on certain casualty insurance contracts written on properties within the City is collected by the State and remitted to the City annually as an on-behalf payment for the Firefighters' Retirement System Fund. Chapter 175 tax monies up to \$1,206,994 annually will be used to offset the City's contributions.

City Contributions - City contributions are based upon actuarially determined amounts which, together with earnings, employee and State contributions, are sufficient to fund the plan.

The net pension liability, deferred outflows/inflows of resources related to pensions and pension expense related to the City's three defined benefit retirement plans are summarized as follows at September 30, 2019:

	General Employees' Pension Plan	Police Officers' Retirement System	Firefighters' Retirement System	Total
Net pension liability Deferred outflows/inflows	\$ 7,280,268	\$ 57,442,487	\$ 61,357,057	\$ 126,079,812
Deferred outflows of resources	\$ 7,731,944	<u>\$ 15,204,418</u>	<u>\$ 17,280,053</u>	<u>\$ 40,216,415</u>
Deferred inflows of resources	\$ 1,089,698	\$ 820,630	<u>\$ 1,577,291</u>	\$ 3,487,619
Pension expense	<u>\$ 3,825,456</u>	<u>\$ 12,197,300</u>	<u>\$ 11,939,870</u>	<u>\$ 27,962,626</u>

Membership

Membership data of the City's pension plans as of October 1, 2018, the date of the most recent actuarial valuations, is summarized as follows:

	General Employees' Pension Plan	Police Officers' Retirement System	Firefighters' Retirement System
Retirees and beneficiaries receiving benefits Terminated employees entitled to benefits but not	350	141	134
receiving them	78	7	0
Active members	378	146	139

City of Delray Beach, Florida Notes to Financial Statements September 30, 2019

12. Employee Retirement Plans (Continued)

Summary of Significant Accounting Policies (Continued)

The financial statements of each Plan are prepared using the economic resources measurement focus and the accrual basis of accounting. Employee and employer contributions are recognized in the period in which employee services are performed. Benefits and refunds are recognized when due and payable in accordance with the terms of the Plan. Other expenses are recognized when the corresponding liabilities are incurred. Investment income is recognized as revenue when earned. Investments are reported at fair value and are managed by third party money managers. The City's independent custodians and money managers determine the fair value of securities, which is generally based upon quoted prices on a national or international stock exchange or for securities not listed, the mean of the most recent bid and ask prices of each instrument using various third party pricing sources. The net appreciation/ (depreciation) in fair value of investments is recorded as an increase/(decrease) to investment income based on the valuation of investments. Investment earnings are reduced for investment related expenses, such as management fees, portfolio evaluation and custodial services.

Investments

<u>Investment Policy</u>: The policy in regard to the allocation of invested assets is established and may be amended by a majority vote of the Board of each pension plan. It is the policy of each pension plan Board to pursue an investment strategy that reduces risk through the prudent diversification of the investment portfolio across a broad selection of distinct asset classes. The investment policy of each pension plan discourages the use of cash equivalents, except for liquidity purposes, and aims to refrain from dramatically shifting asset class allocations over short time spans.

The asset allocation policy adopted by each pension plans' Board at September 30, 2019 was as follows:

	General Employees' Pension Plan	Police Officers' Retirement System	Firefighters' Retirement System
Asset Class			
Fixed income	32.5%	27.5%	27.5%
Domestic equity	55.0	42.5	42.5
International equity	5.0	15.0	15.0
Real estate	0.0	10.0	10.0
Alternatives	7.5	5.0	5.0
Total	100.0%	100.0%	100.0%

Rate of Return: The annual money-weighted rate of return on pension investments, net of pension investment expense, for the General Employees' Pension Plan, the Police Officers' Retirement System and Firefighters' Retirement System, was 2.65%, 4.43% and 4.39%, respectively, for the year ended September 30, 2019. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts invested.

Net Pension Liability

The components of the net pension liability for the City's pension plans as of September 30, 2019, the measurement date, were as follows:

City of Delray Beach, Florida Notes to Financial Statements September 30, 2019

12. Employee Retirement Plans (Continued)

Net Pension Liability (Continued)

	Eı	General mployees' nsion Plan	_	lice Officers' Retirement System	irefighters' Retirement System
Total pension liability Plan fiduciary net position		40,210,004 32,929,736	\$	156,009,037 98,566,550	170,260,456 108,903,399
Net pension liability	\$	7,280,268	\$	57,442,487	\$ 61,357,057
Plan fiduciary net position as a percentage of the total pension liability		94.8%		63.2%	64.0%

<u>Actuarial Assumptions</u>: The total pension liability for the City's pension plans was determined by actuarial valuations as of October 1, 2018, based on the following actuarial assumptions:

	General Employees' Pension Plan	Police Officers' Retirement System	Firefighters' Retirement System
Measurement date	September 30, 2019	September 30, 2019	September 30, 2019
Actuarial cost method	Entry Age Normal	Entry Age Normal	Entry Age Normal
Post-retirement benefit increases	None	Annual increase of 1% plus available State revenue	Annual increase of 1% plus available State revenue
Amortization method	Level Dollar, Closed	Level Dollar, Closed	Level Dollar, Closed
Remaining amortization period	25 years	20 years	20 years
Asset valuation method	5 year Smoothed Market	4 year Smoothed Market	4 year Smoothed Market
Actuarial assumptions: Investment rate of return* Projected salary increases*	6.75% 4.4% - 7.2% based on service	7.00% 5.0% - 6.25% based on service	7.00% 5.0% - 6.25% based on service
Cost of living increases	None	1.0% per year	1.0% per year
Mortality	RP-2000 Combined Healthy Participant, Female - 100% White Collar, Male - 50% White Collar / 50% Blue Collar, Scale BB	RP-2000 Combined Healthy Participant, Female - 100% White Collar, Male - 10% White Collar / 90% Blue Collar, Scale BB	RP-2000 Combined Healthy Participant, Female - 100% White Collar, Male - 10% White Collar / 90% Blue Collar, Scale BB
* Includes inflation rate	2.5%	2.5%	2.5%

The long-term expected rate of return on investments of the pension plans was determined using a building block method in which best estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expenses and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the pension plans' target allocation as of September 30, 2019 (see the discussion of each pension plan's investment policy) are summarized in the following table:

Notes to Financial Statements

September 30, 2019

12. Employee Retirement Plans (Continued)

Net Pension Liability (Continued)

	L	Long-Term Expected Rate of Return			
	General Employees' Pension Plan	Police Officers' Retirement System	Firefighters' Retirement System		
Asset Class					
Fixed income	2.5%	2.5%	2.5%		
Domestic equity	7.5	7.5	7.5		
International equity	8.5	8.5	8.5		
Real estate	N/A	4.5	4.5		
Alternatives	6.2	6.2	6.2		

Discount Rate: The discount rates used to measure the total pension liability was 6.75% for the General Employees' Pension Plan and 7.0% for both the Police Officers' and Firefighters' Retirement Systems. The discount rates were based on the expected rate of return on investments of each pension plan. The projection of cash flows used to determine the discount rates assumed that plan member contributions will be made at the current contribution rates and that City contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on those assumptions, the pension plans' fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on investments of the pension plans was applied to all periods of projected benefit payments to determine the projected total pension liability.

Changes in the Net Pension Liability

The changes in the net pension liability of the General Employees' Pension Plan, Police Officers' Retirement System and the Firefighters' Retirement System were as follows for the year ended September 30, 2019:

	Increase (Decrease)					
General Employees' Pension Plan		Total Pension Liability		Plan Fiduciary Net Position		Net Pension ability (Asset)
Balances at October 1, 2018	\$	127,633,046	\$	133,718,092	\$	(6,085,046)
Changes for the Current Year						
Service cost		2,741,412		_		2,741,412
Interest		9,169,248		_		9,169,248
Difference between actual and		, ,				, ,
expected experience		1,452,111		-		1,452,111
Changes in assumptions		7,018,332		-		7,018,332
Contributions – City		-		2,360,582		(2,360,582)
Contributions – Employee		_		1,206,890		(1,206,890)
Net investment income		-		3,620,514		(3,620,514)
Benefit payments, including refunds						
of employee contributions		(7,804,145)		(7,804,145)		-
Administrative expenses		-		(172,197)		172,197
Net Changes		12,576,958		(788,356)	•	13,365,314
Balances at September 30, 2019	\$	140,210,004	\$	132,929,736	\$	7,280,268

City of Delray Beach, Florida Notes to Financial Statements September 30, 2019

12. Employee Retirement Plans (Continued)

Changes in Net Pension Liability (Continued)

	Increase (Decrease)							
Police Officers' Retirement System		Total Pension Liability		Plan Fiduciary Net Position		Net Pension Liability		
		Liability		1 (ct i osition		Liability		
Balances at October 1, 2018	\$	143,873,027	\$	94,110,114	\$	49,762,913		
Changes for the Current Year								
Service cost		2,660,367		-		2,660,367		
Interest		10,337,194		-		10,337,194		
Difference between actual and								
expected experience		2,465,331		_		2,465,331		
Changes in assumptions		4,575,940		-		4,575,940		
Contributions – City				6,247,516		(6,247,516)		
Contributions – State of Florida		-		835,929		(835,929)		
Contributions – Employee		-		1,160,807		(1,160,807)		
Net investment income		-		4,296,676		(4,296,676)		
Benefit payments, including refunds						(, , , ,		
of employee contributions		(7,902,822)		(7,902,822)		_		
Administrative expenses		-		(181,670)		181,670		
Net Changes		12,136,010		4,456,436		7,679,574		
Balances at September 30, 2019	\$	156,009,037	\$	98,566,550	\$	57,442,487		

		Increase (Decrease)										
Firefighters' Retirement System		Total Pension Liability		Plan Fiduciary Net Position	Net Pension Liability							
Balances at October 1, 2018	\$	157,086,016	\$	104,168,271	\$ 52,917,745							
Changes for the Current Year												
Service cost		2,996,276		-	2,996,276							
Interest		11,298,073		_	11,298,073							
Difference between actual and		, ,			, ,							
expected experience		2,794,151		-	2,794,151							
Changes in assumptions		4,579,534		_	4,579,534							
Contributions – City		, , , <u>-</u>		6,452,812	(6,452,812)							
Contributions – State of Florida		_		1,129,759	(1,129,759)							
Contributions – Employee		_		1,044,994	(1,044,994)							
Net investment income		_		4,761,288	(4,761,288)							
Benefit payments, including refunds					, , , ,							
of employee contributions		(8,493,594)		(8,493,594)	-							
Administrative expenses		-		(160,131)	160,131							
Net Ch	anges	13,174,440		4,735,128	8,439,312							
Balances at September 30	, 2019 \$	170,260,456	\$	108,903,399	61,357,057							

Notes to Financial Statements

September 30, 2019

12. Employee Retirement Plans (Continued)

Changes in Net Pension Liability (Continued)

<u>Changes of Assumptions</u>: Effective October 1, 2018, the discount rate for the General Employees' Pension Plan was lowered from 7.00% to 6.75% and the Police Officers' Retirement System and the Firefighters' Retirement System was lowered from 7.25% to 7.00%.

<u>Sensitivity of the Net Pension Liability to Changes in the Discount Rate</u>: The following table presents the net pension liability of the General Employees' Pension Plan, the Police Officers' Retirement System and the Firefighters' Retirement System, calculated using the current discount rate, as well as what the net pension liability (asset) would be if it were calculated using a discount rate that is one percentage point lower or one percentage point higher than the current rate:

	General Employees' Pension Plan	Police Officers' Retirement System	Firefighters' Retirement System
One percentage point lower than current discount rate	\$ 23,964,175	\$ 78,330,486	\$ 82,185,318
Current discount rate	7,280,268	57,442,487	61,357,057
One percentage point higher than current discount rate	(6,688,949)	40,391,693	44,303,692

Pension Expense and Deferred Inflows/Outflows of Resources Related to Pensions

For the year ended September 30, 2019, the City recognized pension expense of \$3,825,456, \$12,197,300 and \$11,939,870 for the General Employees' Pension Plan, the Police Officers' Retirement System and the Firefighters' Retirement System, respectively. At September 30, 2019, the City reported deferred inflows/outflows of resources related to the General Employees' Pension Plan, the Police Officers' Retirement System and Firefighters' Retirement System from the following sources:

General Employees' Pension Plan		Deferred Inflows	Deferred Outflows	
Differences between expected and actual experience Changes in assumptions Net difference between projected and actual investment		\$ 172,915	\$ 1,830,005 5,901,939	
earnings on pension plan investments		 916,783	<u>-</u>	
	Total	\$ 1,089,698	\$ 7,731,944	
Police Officers' Retirement System				
Differences between expected and actual experience Changes in assumptions		\$ 820,630	\$ 3,450,325 10,818,802	
Net difference between projected and actual investment earnings on pension plan investments		 -	935,291	
	Total	\$ 820,630	\$ 15,204,418	

City of Delray Beach, Florida Notes to Financial Statements September 30, 2019

12. Employee Retirement Plans (Continued)

Pension Expense and Deferred Inflows/Outflows of Resources Related to Pensions (Continued)

Firefighters' Retirement System		 Deferred Inflows	Deferred Outflows
Differences between expected and actual experience		\$ 1,577,291	\$ 4,205,026
Changes in assumptions		-	12,184,279
Net difference between projected and actual investment			
earnings on pension plan investments		 -	890,748
	Total	\$ 1,577,291	\$ 17,280,053

Amounts reported as deferred inflows/outflows of resources related to pensions will be recognized in pension expense as follows:

Year Ending September 30,	General Employees Pension Pla		Police Officers' Retirement System			Firefighters' Retirement System		
2020	\$	1,194,549	\$	5,790,601	\$	4,726,724		
2021		1,479,597		4,461,465		3,727,803		
2022		2,364,784		3,134,052		3,539,494		
2023		1,603,316		997,670		2,691,681		
2024		-		-		1,017,060		

Pension Plans Fiduciary Net Position

The financial statements for the General Employees' Pension Plan, the Police Officers' Retirement System and Firefighters' Retirement System Fund as of and for the year ended September 30, 2019, are as follows:

City of Delray Beach, Florida Notes to Financial Statements September 30, 2019

12. Employee Retirement Plans (Continued)

Pension Plans Fiduciary Net Position (Continued)

Statements of Fiduciary Net Position

States	nents of Fiduciary	1100	1 OSILION		Police		
			General		Officers'	F	irefighters'
		E	mployees']	Retirement]	Retirement
			ension Plan		System	System	
ASSETS					-		
Cash		\$	23,849	\$	125,695	\$	126,738
Investments							
Money market mutual funds			1,543,089		1,577,559		1,896,992
U.S. Government securities			8,743,338		4,562,319		4,942,156
U.S. Government Agency securities			3,895,156		3,566,262		4,103,879
Domestic corporate bonds			15,789,711		12,240,636		13,481,011
Global fixed income investment fund			10,831,980		3,565,215		4,057,331
Global asset allocation investment fund			-		2,802,783		-
Domestic equity securities			15,710,806		22,439,035		39,286,639
Domestic equity mutual funds			6,165,342		9,867,232		-
Domestic equity index funds			64,399,214		10,702,223		10,247,283
International equity mutual funds			5,836,687		14,586,533		16,086,255
Foreign stocks			-		580,897		1,153,883
Timber investment funds			-		1,196,061		1,325,625
Real estate investment trusts			-		-		274,422
Real estate investment funds			-		8,108,384		8,986,733
Fixed income alternative investment fund			-		2,542,466		2,817,878
Interest and dividends receivable			170,095		137,877		171,986
Pending trades receivable			493,985		226,241		278,460
Employee contributions receivable			-		43,704		36,629
Miscellaneous receivable			-		6,996		-
	Total assets		133,603,252		98,878,118		109,273,900
LIABILITIES							
Accounts payable			161,530		75,432		94,834
Pending trades payable			511,986		236,136		275,667
5 1 7	Total liabilities		673,516		311,568		370,501
FIDUCIARY NET POSITION restricted for	r pension				*		
benefits	1	\$ 1	132,929,736	\$	98,566,550	\$	108,903,399

Notes to Financial Statements

September 30, 2019

12. Employee Retirement Plans (Continued)

Pension Plans Fiduciary Net Position (Continued)

Statements of Changes in Fiduciary Net Position

		V		Police				
		General Officers'				irefighters'		
		mployees'	ŀ	Retirement	ŀ	Retirement		
LDD TOTAL	Pe	nsion Plan		System		System		
ADDITIONS								
Contributions:	_		_		_			
Employer	\$	2,360,582	\$	6,247,516	\$	6,452,812		
State of Florida		-		835,929		1,129,759		
Plan members		1,206,890		1,160,807		1,044,994		
Total contributions		3,567,472		8,244,252		8,627,565		
Investment earnings								
Net appreciation in fair value of investments		842,429		2,005,993		2,419,035		
Interest, dividends and investment fund income		3,024,020		2,898,125		3,064,435		
Other investment income		5,729		1,865		1,379		
		3,872,178		4,905,983		5,484,849		
Less investment expenses		(251,664)		(609,307)		(723,561)		
Net investment earnings		3,620,514		4,296,676		4,761,288		
Total additions		7,187,986		12,540,928		13,388,853		
DEDUCTIONS								
Benefits		7,686,562		7,799,644		8,483,028		
Refunds of contributions		117,583		103,178		10,566		
Administrative expenses		172,197		181,670		160,131		
Total deductions		7,976,342		8,084,492		8,653,725		
Change in fiduciary net position		(788,356)		4,456,436		4,735,128		
Net position restricted for pension benefits		(,)		, ,		,,		
at October 1, 2018	1	33,718,092		94,110,114		104,168,271		
Net position restricted for pension		, ~ ,~ ~ =		- ,,		,, - / -		
benefits at September 30, 2019	\$ 1	32,929,736	\$	98,566,550	\$	108,903,399		
cenerics at september 50, 2017	ΨΙ	J_,/_/,/JO	Ψ	, 0,000,000	Ψ	100,000,000		

The Police Officers' Retirement System and Firefighters' Retirement System issue separate publicly available financial reports that include financial statements and required supplementary information. These reports are not posted on the internet, but may be obtained by writing to the City of Delray Beach, 100 NW 1st Avenue, Delray Beach, FL 33444 or by calling (561) 243-7012. The General Employees' Pension Fund does not issue a separate publicly available financial report.

Payables to the Pension Plans

There were no amounts payable by the City to the General Employees' Pension Plan, Police Officers' Retirement System or the Firefighters' Retirement System at September 30, 2019.

Other Employee Benefit Plans

The City sponsors a 457 deferred compensation plan and a 401(a) defined contribution retirement plan for department heads and certain eligible management and key employees not covered by one of the City's defined benefit pension plans. The plans allow participants to contribute up to 3% of their base salary to an ICMA Deferred

Notes to Financial Statements

September 30, 2019

12. Employee Retirement Plans (Continued)

Other Employee Benefit Plans (Continued)

Compensation Plan or 3% of their base salary to the ICMA 401(a) Plan with the City matching the contribution. Employees who were eligible to participate in the 401(a) Plan could exceed the 3% contribution with after tax dollars. All contributions are in accordance with Internal Revenue Service regulations.

The 401(a) pension plan is a separate defined contribution pension plan with participant directed investment accounts, over which the City has no fiduciary control or access and the plan is not considered part of the City's financial reporting entity. Activity in the 401(a) Plan for the year ended September 30, 2019, is summarized as follows:

Balance at October 1, 2018	\$ 1,050,784
Employer contributions	36,475
Employee contributions	36,475
Investment gain, net of expenses	7,897
Distributions	(264,231)
Balance at September 30, 2019	\$ 867,400

13. Other Postemployment Benefits (OPEB)

Description of the Plans

The City administers two other postemployment benefit (OPEB) plans as follows:

City OPEB Plan - The City administers a single-employer defined benefit plan (the "City OPEB Plan") that provides medical and life insurance benefits to eligible retired employees and their beneficiaries. The City Commission has the authority to establish and amend premiums for and the benefit provisions of the City OPEB Plan. The City OPEB Plan is financed on a "pay-as-you-go" basis and is not administered as a formal qualifying trust. The City OPEB Plan does not issue a publicly available financial report.

Florida Statute 112.0801 requires the City to allow retirees to buy healthcare coverage at the same *group insurance* rates that current employees are charged resulting in an *implicit* healthcare benefit. The State of Florida prohibits the City OPEB Plan from separately rating retirees and active employees. Therefore, both groups (active and retired) are charged an equal, blended rate premium. Although both groups are charged the same blended rate premium, GAAP requires actuarial calculations of OPEB liabilities using age adjusted premiums approximating claim costs for retirees separate from active employees. The use of age adjusted premiums results in the addition of an implicit rate subsidy into the actuarial accrued liability. City OPEB Plan members receiving benefits contribute 100% of the monthly premiums ranging from a minimum of \$241 for single coverage to a maximum of \$1,943 for family coverage.

Delray Beach Police, Firefighters & Paramedics Retiree Benefit Fund - The Delray Beach Police, Firefighters & Paramedics Retiree Benefit Fund (the "Retiree Benefit Fund") is a single-employer defined benefit plan established for the purpose of providing full or partial reimbursement for health insurance premiums or other qualified benefits permitted under Section 501(c)(9) of the Internal Revenue Code. The Retiree Benefit Fund was established pursuant to collective bargaining agreements between the City and the Professional Firefighters & Paramedics of Delray Beach, Local 1842, IAFF and the Police Benevolent Association (PBA). A Trust was created on May 14, 2002 and is administered by a separate Board of Trustees consisting of seven individuals, including the President of the Local 1842, IAFF, five union representatives (three PBA, two Local 1842, IAFF) and a non-bargaining unit active firefighter elected by non-bargaining unit participants. The City is neither the trustee nor the administrator of the

Required Supplementary Information - General Employees' Pension Plan Schedule of Changes in the Net Pension Liability (Asset) and Related Ratios

Last Six Fiscal Years

	Fisca	l Year
	2019	2018
Total Pension Liability		
Service cost	\$ 2,741,412	\$ 2,493,225
Interest	9,169,248	8,777,037
Changes of benefit terms	-	-
Differences between expected and actual experience	1,452,111	1,447,270
Changes of assumptions	7,018,332	-
Benefit payments, including refunds	(7,804,145)	(7,307,689)
Net change in total pension liability	12,576,958	5,409,843
Total pension liability, beginning of fiscal year	127,633,046	122,223,203
Total pension liability, end of fiscal year (a)	\$ 140,210,004	\$ 127,633,046
Plan Fiduciary Net Position		
Contributions		
Employer	\$ 2,360,582	\$ 2,151,438
Plan members	1,206,890	799,106
Net investment income	3,620,514	13,197,102
Other income	5,020,511	15,177,102
Benefit payments, including refunds	(7,804,145)	(7,307,689)
Administration expense	(172,197)	(73,250)
Net change in plan fiduciary net position	(788,356)	8,766,707
Plan fiduciary net position, beginning of fiscal year	133,718,092	124,951,385
Plan fiduciary net position, eaglisting of fiscal year (b)	\$ 132,929,736	\$ 133,718,092
Net Pension Liability (Asset), end of fiscal year [(a)-(b)]	\$ 7,280,268	\$ (6,085,046)
Plan Fiduciary Net Position as a Percentage		
of Total Pension Liability	94.8%	104.8%
Covered Payroll	\$ 20,025,730	\$ 18,060,007
Net Pension Liability (Asset) as a Percentage		
of Covered Payroll	36.4 %	(33.7)%
or covered rayron	JU.T /0	(33.1)/0

Note to Schedule:

Information prior to adoption of GASB Statement No. 68 in fiscal year 2014 is not avalable.

		Fisca	l Yea	r		
	2017	2016		2015		2014
\$	2,119,345	\$ 2,192,881	\$	2,203,317	\$	2,249,595
	8,375,249	8,161,229		7,791,771		7,502,443
	-	522,720		-		-
	(821,344)	(1,097,920)		1,375,784		-
	2,634,532	-		-		-
	(6,971,817)	 (6,535,065)		(5,993,746)		(5,436,303)
	5,335,965	3,243,845		5,377,126		4,315,735
	116,887,238	 113,643,393		108,266,267		103,950,532
\$	122,223,203	\$ 116,887,238	\$	113,643,393	\$	108,266,267
\$	1,969,163	\$ 2,046,827	\$	2,178,705	\$	2,084,010
	717,598	618,705		948,466		1,126,054
	14,474,141	10,986,275		438,253		12,191,062
	-	18,858		7,008		5,387
	(6,971,817)	(6,535,065)		(5,993,746)		(5,436,303)
	(77,550)	(82,336)		(73,705)		(79,025)
	10,111,535	7,053,264		(2,495,019)		9,891,185
	114,839,850	107,786,586		110,281,605		100,390,420
\$	124,951,385	\$ 114,839,850	\$	107,786,586	\$	110,281,605
\$	(2,728,182)	\$ 2,047,388	\$	5,856,807	\$	(2,015,338)
_	102.2%	98.2%		94.8%	_	101.9%
\$	15,449,062	\$ 15,371,826	\$	15,895,095	\$	16,527,919
	(17.7)%	13.3 %		36.8 %		(12.2)%

Required Supplementary Information - Pension Funds Schedules of Net Pension Liability (Asset)

Last Six Fiscal Years

				Gene	ral F	Employees' Pen	sion Plan		
Fiscal Year Ended September 30,		Total Pension Liability		Plan Net Position		Net Pension Liability (Asset)	Plan Net Position as a Percentage of Total Pension Liability	Covered Payroll	Net Pension Liability (Asset) as a Percentage of Covered Payroll
2019 \$ 140,210,004 2018 127,633,046 2017 122,223,203 2016 116,887,238 2015 113,643,393 2014 108,266,267		133,718,092 (6,085,046) 10 124,951,385 (2,728,182) 10 114,839,850 2,047,388 9 107,786,586 5,856,807 9		94.8% 104.8% 102.2% 98.2% 94.8% 101.9%	\$ 20,025,730 18,060,007 15,449,062 15,371,826 15,895,095 16,527,919	36.4 % (33.7)% (17.7)% 13.3 % 36.8 % (12.2)%			
				Police	Offi	icers' Retireme	nt System		
Fiscal Year Ended September 30, (Note 1)		Total Pension Liability		Plan Net Position		Net Pension Liability	Plan Net Position as a Percentage of Total Pension Liability	Covered Payroll	Net Pension Liability as a Percentage of Covered Payroll
2019 2018 2017 2016 2015 2014	\$	156,009,037 143,873,027 128,408,958 251,876,403 238,707,736 230,215,467	\$	98,566,550 94,110,114 87,855,313 167,594,006 153,260,618 154,305,985	\$	57,442,487 49,762,913 40,553,645 84,282,397 85,447,118 75,909,482	63.2% 65.4% 68.4% 66.5% 64.2% 67.0%	\$ 12,078,834 11,125,424 10,738,126 19,643,308 18,107,436 16,474,658	475.6 % 447.3 % 377.7 % 429.1 % 471.9 % 460.8 %
				Firef	ight	ers' Retiremen	t System		
Fiscal Year Ended September 30, (Note 1)		Total Pension Liability		Plan Net Position		Net Pension Liability	Plan Net Position as a Percentage of Total Pension Liability	Covered Payroll	Net Pension Liability as a Percentage of Covered Payroll
2019 2018 2017 2016 2015 2014	\$	170,260,456 157,086,016 142,041,316 251,876,403 238,707,736 230,215,467	\$	108,903,399 104,168,271 97,996,277 167,594,006 153,260,618 154,305,985	\$	61,357,057 52,917,745 44,045,039 84,282,397 85,447,118 75,909,482	64.0% 66.3% 69.0% 66.5% 64.2% 67.0%	\$ 11,003,736 10,494,232 8,954,177 19,643,308 18,107,436 16,474,658	557.6 % 504.3 % 491.9 % 429.1 % 471.9 % 460.8 %

Notes to Schedule:

Information prior to adoption of GASB Statement No. 68 in fiscal year 2014 is not avalable.

Note 1 - Change in Reporting Entity

Prior to 2017, the Police Officers' and Firefighters' Retirement Systems were operated as a single plan covering both employee groups. The City adopted Ordinance No. 17-16 effective October 1, 2016, that established a separate pension plan for police officers and a separate pension plan for firefighters. Information for 2016 and prior years is for the combined pension plan.

Required Supplementary Information - Pension Funds Schedules of City Contributions

Last Six Fiscal Years

	Fiscal	Fiscal Year		
	2019	2018		
General Employees' Pension Plan Actuarially determined contribution	\$ 2,360,582	\$ 2,151,438		
Contributions in relation to actuarially determined contribution	2,360,582	2,151,438		
Contribution deficiency (excess)	\$ -	\$ -		
Covered payroll	\$ 20,025,730	\$ 18,060,007		
Contributions as a percentage of covered payroll	11.8%	11.9%		
Police Officers' Retirement System Actuarially determined contribution	\$ 6,854,111	\$ 5,985,879		
Contributions in relation to actuarially determined contribution	6,854,111	5,720,507		
Contribution deficiency (excess)	\$ -	\$ 265,372		
Covered payroll	\$ 12,078,834	\$ 11,125,424		
Contributions as a percentage of covered payroll	56.7%	51.4%		
Firefighters' Retirement System				
Actuarially determined contribution Contributions in relation to actuarially	\$ 7,582,571	\$ 6,538,017		
determined contribution Contribution deficiency (excess)	7,582,571 \$ -	\$ 1,088,805		
Covered payroll	\$ 11,003,736	\$ 10,494,232		
Contributions as a percentage of covered payroll	68.9%	51.9%		

Fiscal Year								
	2017		2016 (Note 1)		2015 (Note 1)		2014 (Note 1)	
\$	1,969,163	\$	2,046,827	\$	2,178,705	\$	2,084,010	
	1,969,163		2,046,827		2,178,705		2,084,010	
\$		\$	_	\$	_	\$		
\$	15,449,062	\$	15,371,826	\$	15,895,095	\$	16,527,919	
	12.7%		13.3%		13.7%		12.6%	
\$	5,503,513	\$	11,294,379	\$	11,293,235	\$	9,209,334	
\$	5,904,709 (401,196)	\$	11,294,379	\$	11,342,291 (49,056)	\$	9,561,997 (352,663)	
\$	10,738,126	\$	19,643,308	\$	18,107,436	\$	16,474,658	
	55.0%		57.5%		62.6%		58.0%	
\$	5,332,347	\$	11,294,379	\$	11,293,235	\$	9,209,334	
\$	6,856,203 (1,523,856)	\$	11,294,379	\$	11,342,291 (49,056)	\$	9,561,997 (352,663)	
\$	8,954,177	\$	19,643,308	\$	18,107,436	\$	16,474,658	
	76.6%		57.5%		62.6%	*	58.0%	

Required Supplementary Information - Pension Funds Notes to Schedules of City Contributions

Last Six Fiscal Years

Notes to Schedule:

Information prior to adoption of GASB Statement No. 68 in fiscal year 2014 is not avalaible.

Note 1 - Change in Reporting Entity

Prior to 2017, the Police Officers' and Firefighters' Retirement Systems were operated as a single plan covering both employee groups. The City adopted Ordinance No. 17-16 effective October 1, 2016, that established a separate pension plan for police officers and a separate pension plan for firefighters. Information for 2016 and prior years is for the combined pension plan.

Note 2 - Significant Actuarial Assumptions			
	General	Police	
	Employees'	Officers'	Firefighters'
Actuarial valuation date	10/1/2018	10/1/2018	10/1/2018
Measurement date	9/30/2019	9/30/2019	9/30/2019
Actuarially determined contribution rates are calculated at October 1, one year	r prior to the end of the fisca	l year in which the contribut	ions are reported.
Methods and assumptions used to determine contribution rates:			
Actuarial cost method	Entry Age Normal	Entry Age Normal	Entry Age Normal
Amortization method	Level Dollar, Closed	Level Dollar, Closed	Level Dollar, Closed
Remaining amortization period	25 years	20 years	20 years
Asset valuation method	5 Year Smoothed	4 Year Smoothed	4 Year Smoothed
Inflation	2.5% / year	2.5% / year	2.5% / year
Salary increases (with inflation)	4.4% - 7.2% / year	6.25% / year for first 10 years, 5.0% thereafter	6.25% / year for first 10 years, 5.0% thereafter
Investment rate of return (net of expenses, with inflation)	6.75% / year	7.00% / year	7.00% / year
Cost of living adjustments	None	1.0% / year	1.0% / year
Retirement age	Experienced-based table of rates	25% retire on normal retirement date, 10% each next two years	25% retire on normal retirement date, 10% each next two years
Mortality	RP-2000 Combined Healthy Participant, Female - 100% White Collar, Male - 50% White Collar/50% Blue	RP-2000 Combined Healthy Participant, Female - 100% White Collar, Male - 10% White Collar/90% Blue	RP-2000 Combined Healthy Participant, Female - 100% White Collar, Male - 10% White Collar/90% Blue
	Collar, Scale BB	Collar, Scale BB	Collar, Scale BB

Required Supplementary Information - Pension Funds Schedules of Investment Returns

Last Six Fiscal Years

Annual money-weighted rate of return, net of investment expenses Police General Officers' Firefighters' Employees'

Fiscal Year Ended September 30,	Employees: Pension Plan	Retirement System	Retirement System
2019	2.65%	4.43 %	4.39 %
2018	10.68%	7.81 %	8.01 %
2017	12.59%	10.74 %	10.78 %
2016	10.30%	8.86 %	8.86 %
2015	0.43%	(1.23)%	(1.23)%
2014	12.26%	9.32 %	9.32 %

Notes to Schedule:

Information prior to adoption of GASB Statement No. 68 in fiscal year 2014 is not avalable.

Prior to 2017, the Police Officers' and Firefighters' Retirement Systems were operated as a single plan covering both employee groups. The City adopted Ordinance No. 17-16 effective October 1, 2016, that established a separate pension plan for police officers and a separate pension plan for firefighters. Information for 2016 and prior years is for the combined pension plan.

Item 8

Adjournment

(No backup for this Item)