

FUND EVALUATION REPORT

Plymouth County Retirement Association

Investment Review
April 23, 2019



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Estimated Retirement Association Performance

Estimated Aggregate Performance¹

	March ² (%)	YTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)
Total Retirement Association	0.6	8.1	0.6	7.4	5.1	9.8
<i>60% MSCI ACWI/40% Barclays Global Aggregate</i>	1.3	8.1	1.6	7.0	4.4	8.5
<i>Policy Benchmark</i>	1.1	7.7	3.2	8.6	5.9	10.4

Benchmark Returns

	March (%)	YTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)
<i>Russell 3000</i>	1.5	14.0	8.8	13.5	10.4	16.0
<i>MSCI EAFE</i>	0.6	10.0	-3.7	7.3	2.3	9.0
<i>MSCI Emerging Markets</i>	0.8	9.9	-7.4	10.7	3.7	8.9
<i>Barclays Aggregate</i>	1.9	2.9	4.5	2.0	2.7	3.8
<i>Barclays TIPS</i>	1.8	3.2	2.7	1.7	1.9	3.4
<i>Barclays High Yield</i>	0.9	7.3	5.9	8.6	4.7	11.3
<i>JPM GBI-EM Global Diversified</i>	-1.3	2.9	-7.6	3.3	-0.8	4.4
<i>S&P Global Natural Resources</i>	1.0	12.4	-0.1	13.4	1.8	4.9

Estimated Total Fund Assets

	March Estimate
Total Retirement Association	\$1,001,400,002

¹ The March performance estimates are calculated using index returns as of March 31, 2019 for each asset class. No performance estimate was included for private equity, real estate, infrastructure, and private natural resources asset classes.

² As of March 31, 2019



**Interim Update
As of February 28, 2019**

As of February 28, 2019

Asset Class Net Performance Summary

	Market Value (\$)	% of Portfolio	1 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total Retirement Association	987,585,979	100.0	1.8	7.4	-0.5	8.8	5.0	10.2	7.8	Nov-89
60% ACWI / 40% Barclays Global Aggregate			1.4	6.8	-0.5	8.5	4.2	9.0	6.5	Nov-89
Custom Benchmark - Policy Benchmark (Net)			1.5	6.4	1.8	9.9	5.8	10.7	--	Nov-89
Domestic Equity Assets	237,979,328	24.1	5.0	16.1	6.0	17.1	--	--	13.3	Jan-16
Russell 3000			3.5	12.4	5.0	15.5	10.2	16.8	12.6	Jan-16
International Developed Market Equity Assets	113,748,814	11.5	1.6	10.0	-9.9	8.5	--	--	5.2	Jan-16
MSCI EAFE			2.5	9.3	-6.0	9.3	2.1	9.6	5.6	Jan-16
International Emerging Market Equity Assets	106,629,741	10.8	0.1	7.9	-13.9	12.0	--	--	8.9	Jan-16
MSCI Emerging Markets			0.2	9.0	-9.9	15.0	4.1	10.3	11.7	Jan-16
Global Equity Assets	98,268,610	10.0	2.5	10.8	1.2	--	--	--	-2.7	Feb-18
MSCI ACWI			2.7	10.8	-0.8	12.9	6.3	12.7	-4.6	Feb-18
Core Fixed Income	77,372,820	7.8	0.1	1.2	2.7	2.1	--	--	2.6	Jan-16
75% Bbg Barclays Aggregate/25% Bbg Barclays US TIPs 1-10 year			0.0	1.1	2.9	1.7	2.0	3.6	2.2	Jan-16
Value Added Fixed Income	94,022,496	9.5	1.2	4.5	2.7	7.8	--	--	7.2	Jan-16
Custom Benchmark (1)			1.4	5.2	3.8	7.7	--	--	7.2	Jan-16
Hedge Funds (2)	54,224,080	5.5	0.7	2.6	-6.5	3.9	2.1	--	3.9	Feb-10
HFRI Fund of Funds Composite Index			1.1	3.7	-1.3	3.9	1.9	3.5	2.7	Feb-10
Real Estate (3)	108,086,568	10.9	0.1	1.7	8.2	5.2	--	--	4.5	Jan-16
80% NCREIF ODCE / 20% Wilshire REIT			0.2	2.5	10.9	8.3	--	--	7.6	Jan-16
Private Equity (4)	45,956,785	4.7	0.0	0.0	1.8	4.0	--	--	3.8	Jan-16
Cambridge Associates Fund of Funds Composite 1-Quarter Lag			0.0	0.0	16.1	11.0	12.2	9.3	10.4	Jan-16
Real Assets (5)	45,855,674	4.6	0.0	0.0	-1.6	-3.0	--	--	-2.8	Jan-16
CPI +3%			0.4	0.6	4.5	5.1	4.5	4.8	5.0	Jan-16
Cash and Cash Equivalent	5,441,063	0.6								

(1) The custom benchmark is comprised of 33% BBgBarc US High Yield/ 33% Credit Suisse Leveraged Loans/ 33% JP Morgan EMBI Global diversified.

(2) The data for Entrust Special Opportunities Fund III is lagged as of December 31, 2018.

(3) The market value and performance is one quarter lagged.

(4) The market value and performance is one quarter lagged.

(5) The market value and performance is one quarter lagged.

As of February 28, 2019

Trailing Net Performance

	Market Value (\$)	% of Portfolio	% of Sector	1 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total Retirement Association	987,585,979	100.0	--	1.8	7.4	-0.5	8.8	5.0	10.2	7.8	Nov-89
<i>60% ACWI / 40% Barclays Global Aggregate</i>				1.4	6.8	-0.5	8.5	4.2	9.0	6.5	Nov-89
Domestic Equity Assets	237,979,328	24.1	24.1	5.0	16.1	6.0	17.1	--	--	13.3	Jan-16
<i>Russell 3000</i>				3.5	12.4	5.0	15.5	10.2	16.8	12.6	Jan-16
Rhumblin Russell 1000 Value	34,113,227	3.5	14.3	3.2	11.2	3.2	12.6	8.0	--	9.7	Apr-13
<i>Russell 1000 Value</i>				3.2	11.2	3.2	12.8	8.1	15.4	9.8	Apr-13
Rhumblin Russell 1000 Growth	34,973,101	3.5	14.7	3.6	12.9	6.6	17.9	12.5	--	15.2	Jul-09
<i>Russell 1000 Growth</i>				3.6	12.9	6.6	18.0	12.6	18.2	15.3	Jul-09
Fisher Midcap Value	44,554,280	4.5	18.7	4.6	15.9	2.3	15.8	8.0	17.5	7.4	Apr-07
<i>Russell MidCap Value</i>				3.2	13.8	2.6	12.6	7.4	17.3	6.8	Apr-07
Boston Company Small Cap Growth	52,501,955	5.3	22.1	7.3	22.1	17.1	25.5	11.0	--	15.2	Aug-09
<i>Russell 2000 Growth</i>				6.5	18.8	6.7	18.3	8.2	17.7	14.0	Aug-09
LMCG Small Cap Value	71,821,410	7.3	30.2	5.1	16.2	2.0	11.9	6.9	--	8.2	Mar-11
<i>Russell 2000 Value</i>				3.9	15.2	4.4	15.0	6.5	15.4	8.7	Mar-11
International Developed Market Equity Assets	113,748,814	11.5	11.5	1.6	10.0	-9.9	8.5	--	--	5.2	Jan-16
<i>MSCI EAFE</i>				2.5	9.3	-6.0	9.3	2.1	9.6	5.6	Jan-16
KBI Master Account	49,999,260	5.1	44.0	1.1	8.3	-9.1	7.5	0.4	8.2	3.4	Jul-05
<i>MSCI EAFE</i>				2.5	9.3	-6.0	9.3	2.1	9.6	4.4	Jul-05
HGK TS International Equity	29,802,915	3.0	26.2	2.5	12.1	-7.1	11.4	2.7	--	6.1	Feb-11
<i>MSCI EAFE</i>				2.5	9.3	-6.0	9.3	2.1	9.6	3.8	Feb-11
Copper Rock International Small Cap	33,946,639	3.4	29.8	1.7	10.9	-14.8	--	--	--	-10.6	Nov-17
<i>MSCI EAFE Small Cap</i>				2.2	10.5	-10.5	10.2	4.3	13.5	-5.5	Nov-17

Total Retirement Association

As of February 28, 2019

	Market Value (\$)	% of Portfolio	% of Sector	1 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
International Emerging Market Equity Assets	106,629,741	10.8	10.8	0.1	7.9	-13.9	12.0	--	--	8.9	Jan-16
<i>MSCI Emerging Markets</i>				0.2	9.0	-9.9	15.0	4.1	10.3	11.7	Jan-16
LMCG Emerging Markets	49,350,924	5.0	46.3	-0.6	7.6	-14.2	11.9	2.3	--	1.4	Sep-13
<i>MSCI Emerging Markets</i>				0.2	9.0	-9.9	15.0	4.1	10.3	3.5	Sep-13
ABS Emerging Markets	21,887,546	2.2	20.5	1.7	9.4	--	--	--	--	9.4	Dec-18
<i>MSCI Emerging Markets</i>				0.2	9.0	-9.9	15.0	4.1	10.3	6.1	Dec-18
Copper Rock Emerging Markets Small Cap	10,391,270	1.1	9.7	0.5	4.4	--	--	--	--	4.4	Dec-18
<i>MSCI Emerging Markets</i>				0.2	9.0	-9.9	15.0	4.1	10.3	6.1	Dec-18
Driehaus Emerging Markets Growth	25,000,000	2.5	23.4	--	--	--	--	--	--	--	Mar-19
<i>MSCI Emerging Markets</i>				0.2	9.0	-9.9	15.0	4.1	10.3	--	Mar-19
Global Equity Assets	98,268,610	10.0	10.0	2.5	10.8	1.2	--	--	--	-2.7	Feb-18
<i>MSCI ACWI</i>				2.7	10.8	-0.8	12.9	6.3	12.7	-4.6	Feb-18
First Eagle Global Value Fund	19,294,159	2.0	19.6	2.0	9.2	0.4	--	--	--	-3.3	Feb-18
<i>MSCI ACWI</i>				2.7	10.8	-0.8	12.9	6.3	12.7	-4.6	Feb-18
Kopernik Global All Cap Fund	18,542,752	1.9	18.9	-0.4	7.3	-4.2	--	--	--	-6.7	Feb-18
<i>MSCI ACWI</i>				2.7	10.8	-0.8	12.9	6.3	12.7	-4.6	Feb-18
Lee Munder Global Multi-Cap Strategy	28,158,392	2.9	28.7	2.5	11.7	-1.3	--	--	--	-1.3	Mar-18
<i>MSCI ACWI</i>				2.7	10.8	-0.8	12.9	6.3	12.7	-0.8	Mar-18
Wellington Durable Enterprises, L.P.	32,273,307	3.3	32.8	4.5	13.1	7.6	--	--	--	7.6	Mar-18
<i>MSCI ACWI</i>				2.7	10.8	-0.8	12.9	6.3	12.7	-0.8	Mar-18
Core Fixed Income	77,372,820	7.8	7.8	0.1	1.2	2.7	2.1	--	--	2.6	Jan-16
75% Bbg Barclays Aggregate/25% Bbg Barclays US TIPs 1-10 year				0.0	1.1	2.9	1.7	2.0	3.6	2.2	Jan-16
IR&M Core Bonds	77,372,820	7.8	100.0	0.1	1.2	2.7	1.9	2.1	4.4	4.0	Nov-04
75% Bbg Barclays Aggregate/25% Bbg Barclays US TIPs 1-10 year				0.0	1.1	2.9	1.7	2.0	3.6	3.7	Nov-04

As of February 28, 2019

	Market Value (\$)	% of Portfolio	% of Sector	1 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Value Added Fixed Income	94,022,496	9.5	9.5	1.2	4.5	2.7	7.8	--	--	7.2	Jan-16
<i>Custom Benchmark</i>				1.4	5.2	3.8	7.7	--	--	7.2	Jan-16
Eaton Vance High Yield	26,755,037	2.7	28.5	1.5	5.9	3.8	7.5	4.4	10.9	6.9	Apr-06
<i>ICE BofAML US High Yield TR</i>				1.7	6.4	4.3	9.9	4.5	11.5	7.2	Apr-06
THL Bank Loan Select Fund	35,928,597	3.6	38.2	1.5	4.0	3.5	6.6	4.3	--	5.5	Sep-10
<i>Credit Suisse Leveraged Loans</i>				1.6	3.9	3.8	6.8	3.9	8.1	4.9	Sep-10
Franklin Templeton Emerging Market Bonds	31,338,862	3.2	33.3	0.6	3.8	0.8	9.3	4.7	10.4	6.9	May-06
<i>JP Morgan EMBI Global Diversified</i>				1.0	5.5	3.1	6.4	5.4	8.8	7.1	May-06
Hedge Funds	54,224,080	5.5	5.5	0.7	2.6	-6.5	3.9	2.1	--	3.9	Feb-10
<i>HFRI Fund of Funds Composite Index</i>				1.1	3.7	-1.3	3.9	1.9	3.5	2.7	Feb-10
ABS Offshore SPC - Global Segregated Portfolio	21,036,115	2.1	38.8	1.7	5.4	-2.6	4.7	2.5	--	5.0	Aug-10
<i>HFRI Fund of Funds Composite Index</i>				1.1	3.7	-1.3	3.9	1.9	3.5	2.8	Aug-10
Entrust Special Opportunities Fund III, Ltd.	24,197,668	2.5	44.6	0.0	0.0	-10.8	--	--	--	9.0	Oct-16
<i>HFRI Fund of Funds Composite Index</i>				1.1	3.7	-1.3	3.9	1.9	3.5	3.3	Oct-16
Old Farm Partners Master Fund, L.P.	4,879,709	0.5	9.0	0.4	4.0	--	--	--	--	-2.4	Oct-18
<i>HFRI Fund of Funds Composite Index</i>				1.1	3.7	-1.3	3.9	1.9	3.5	-1.5	Oct-18
EnTrustPermal Special Opportunities Evergreen Fund, Ltd.	4,110,589	0.4	7.6	0.0	0.0	--	--	--	--	0.0	Jan-19
<i>HFRI Fund of Funds Composite Index</i>				1.1	3.7	-1.3	3.9	1.9	3.5	3.7	Jan-19

Entrust Special Opportunities Fund III, Ltd: Performance and market value lagged as of December 31, 2018.
 Invesco REIT: The performance is based on real time.



Total Retirement Association

As of February 28, 2019

	Market Value (\$)	% of Portfolio	% of Sector	1 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Real Estate	108,086,568	10.9	10.9	0.1	1.7	8.2	5.2	--	--	4.5	Jan-16
80% NCREIF ODCE / 20% Wilshire REIT				0.2	2.5	10.9	8.3	--	--	7.6	Jan-16
Core Real Estate	84,131,390	8.5	77.8	0.1	2.2	10.7	8.1	--	--	7.1	Jan-16
NCREIF-ODCE				0.0	0.0	8.3	8.2	10.4	7.0	7.8	Jan-16
PRISA I	40,542,422	4.1	48.2	0.0	0.0	7.8	7.9	10.2	4.0	6.7	Sep-04
NCREIF ODCE				0.0	0.0	8.3	8.2	10.4	7.0	7.9	Sep-04
Invesco Equity Real Estate Securities Trust	17,135,611	1.7	20.4	0.7	11.7	16.6	8.8	8.3	17.4	11.1	Dec-02
Wilshire REIT				0.9	12.4	20.4	7.8	8.5	18.7	10.5	Dec-02
TA Realty Core Property Fund, L.P.	26,453,357	2.7	31.4	0.0	0.0	--	--	--	--	10.1	Apr-18
NCREIF ODCE				0.0	0.0	8.3	8.2	10.4	7.0	6.0	Apr-18
Non-Core Real Estate	23,955,178	2.4	22.2	0.0	0.0	-0.3	-3.8	--	--	-3.6	Jan-16
Private Equity	45,956,785	4.7	4.7	0.0	0.0	1.8	4.0	--	--	3.8	Jan-16
Cambridge Associates Fund of Funds Composite 1-Quarter Lag				0.0	0.0	16.1	11.0	12.2	9.3	10.4	Jan-16
Private Equity	38,025,250	3.9	82.7	0.0	0.0	0.6	1.7	--	--	1.7	Jan-16
Venture Capital	7,931,535	0.8	17.3	0.0	0.0	6.4	11.3	--	--	11.0	Jan-16
Real Assets	45,855,674	4.6	4.6	0.0	0.0	-1.6	-3.0	--	--	-2.8	Jan-16
CPI +3%				0.4	0.6	4.5	5.1	4.5	4.8	5.0	Jan-16
Cash and Cash Equivalent	5,441,063	0.6	0.6								
Cash	5,441,063	0.6	100.0								

Core Real Estate: The market value and performance is one quarter lagged.

Non-Core Real Estate: The market value and performance is one quarter lagged.

Private Equity: The market value and performance is one quarter lagged.

Real Assets: The market value and performance is one quarter lagged.



Total Retirement Association

As of February 28, 2019

Allocation vs. Target

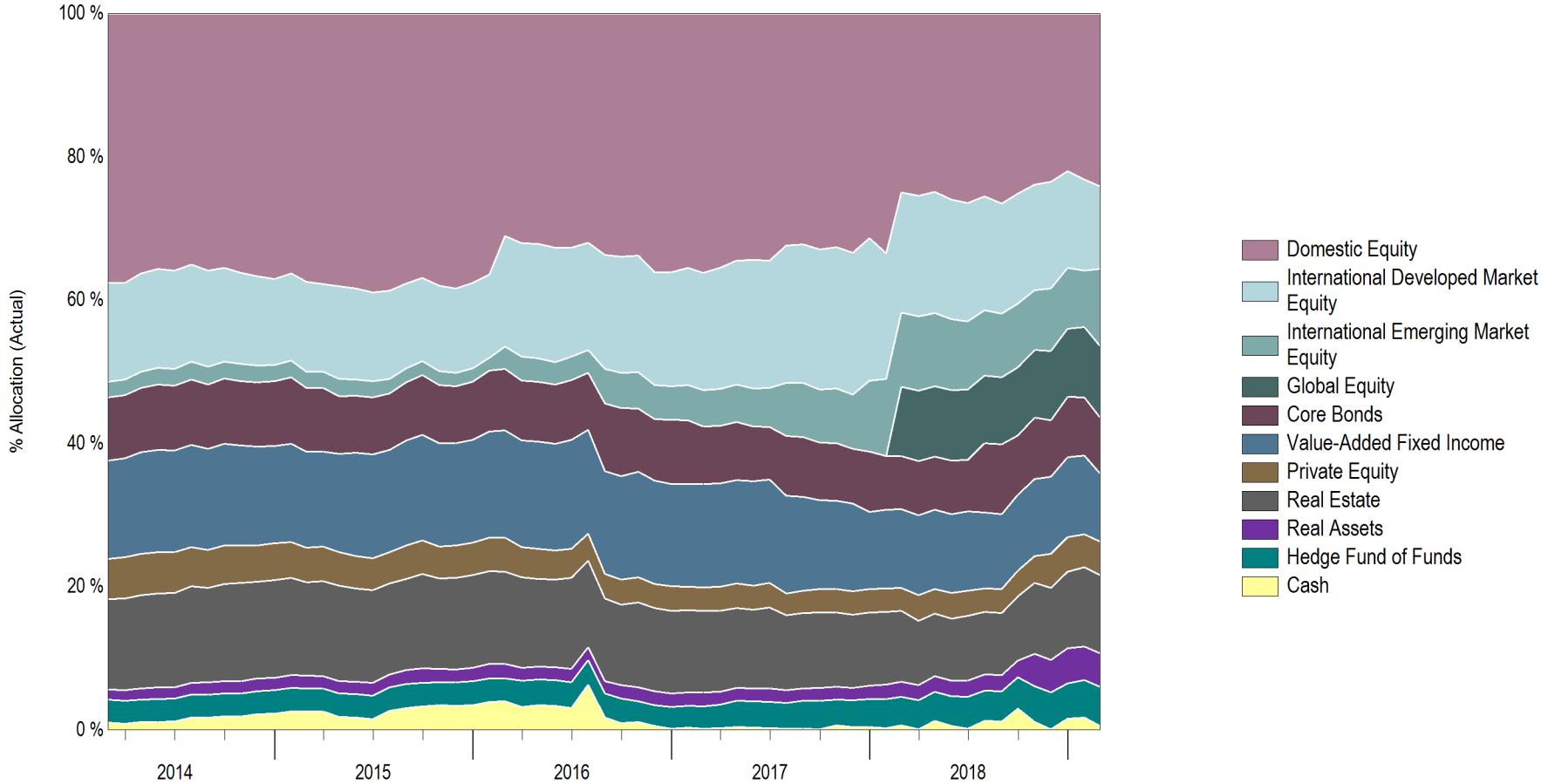
	Current Balance	Current Allocation	Policy	Policy Range	Within IPS Range?
Domestic Equity	\$237,979,328	24%	26%	21% - 36%	Yes
International Developed Market Equity	\$113,748,814	12%	6%	1% - 16%	Yes
International Emerging Market Equity	\$106,629,741	11%	10%	5% - 20%	Yes
Global Equity	\$98,268,610	10%	10%	5% - 20%	Yes
Core Bonds	\$77,372,820	8%	9%	4% - 14%	Yes
Value-Added Fixed Income	\$94,022,496	10%	6%	2% - 12%	Yes
Private Equity	\$45,956,785	5%	13%	4% - 18%	Yes
Real Estate	\$108,086,568	11%	10%	5% - 15%	Yes
Real Assets	\$45,855,674	4%	6%	2% - 10%	Yes
Hedge Fund of Funds	\$54,224,080	5%	4%	2% - 6%	Yes
Cash	\$5,441,063	1%	0%	0% - 3%	Yes
Total	\$987,585,979	100%	100%		

	Current Balance	Current Allocation	Policy	Policy Range	Within IPS Range?
Total Equity	\$656,807,345	67%	69%	60% - 80%	Yes
Total Fixed Income	\$171,395,315	17%	15%	5% - 25%	Yes
Total Real Assets and Real Estate	\$153,942,242	16%	16%	13% - 19%	Yes
Cash	\$5,441,063	1%	0%	0% - 3%	Yes

Plymouth County Retirement Association adopted a new asset allocation as of December 2018.



Asset Allocation History
5 Years Ending February 28, 2019



Investment Expense Analysis

As of February 28, 2019

Annual Investment Expense Analysis

As Of February 28, 2019

Name	Fee Schedule	Market Value	Estimated Fee Value	Estimated Fee
Domestic Equity Assets		\$237,979,328		
Rhumblin Russell 1000 Value	0.05% of First 25.0 Mil, 0.04% of Next 25.0 Mil, 0.03% Thereafter	\$34,113,227	\$16,145	0.05%
Rhumblin Russell 1000 Growth	0.05% of First 25.0 Mil, 0.04% of Next 25.0 Mil, 0.03% Thereafter	\$34,973,101	\$16,489	0.05%
Fisher Midcap Value	0.80% of First 25.0 Mil, 0.75% of Next 25.0 Mil, 0.67% Thereafter	\$44,554,280	\$346,657	0.78%
Boston Company Small Cap Growth	0.45% of Assets	\$52,501,955	\$236,259	0.45%
LMCG Small Cap Value	0.90% of Assets	\$71,821,410	\$646,393	0.90%
International Developed Market Equity Assets		\$113,748,814		
KBI Master Account	0.65% of Assets	\$49,999,260	\$324,995	0.65%
HGK TS International Equity	1.00% of Assets	\$29,802,915	\$298,029	1.00%
Copper Rock International Small Cap	0.85% of Assets	\$33,946,639	\$288,546	0.85%
International Emerging Market Equity Assets		\$106,629,741		
LMCG Emerging Markets	0.75% of Assets	\$49,350,924	\$370,132	0.75%
ABS Emerging Markets	0.35% Management Fee and 10% Performance/Incentive Fee.	\$21,887,546		
Copper Rock Emerging Markets Small Cap	0.85% of Assets	\$10,391,270	\$88,326	0.85%
Driehaus Emerging Markets Growth	0.55% of Assets	\$25,000,000	\$137,500	0.55%
Global Equity Assets		\$98,268,610		
First Eagle Global Value Fund	0.75% of Assets	\$19,294,159	\$144,706	0.75%
Kopernik Global All Cap Fund	0.80% of First 50.0 Mil, 0.75% of Next 150.0 Mil, 0.70% of Next 250.0 Mil, 0.65% of Next 350.0 Mil	\$18,542,752	\$148,342	0.80%
Lee Munder Global Multi-Cap Strategy	0.45% of Assets	\$28,158,392	\$126,713	0.45%
Wellington Durable Enterprises, L.P.	0.60% of Assets	\$32,273,307	\$193,640	0.60%
Core Fixed Income		\$77,372,820		
IR&M Core Bonds	0.25% of First 50.0 Mil, 0.20% of Next 50.0 Mil, 0.15% Thereafter	\$77,372,820	\$179,746	0.23%
Value Added Fixed Income		\$94,022,496		
Eaton Vance High Yield	0.50% of Assets	\$26,755,037	\$133,775	0.50%
THL Bank Loan Select Fund	0.40% of Assets	\$35,928,597	\$143,714	0.40%
Franklin Templeton Emerging Market Bonds	0.99% of Assets	\$31,338,862	\$310,255	0.99%

Total Retirement Association

As of December 31, 2018

Private Equity	Commitment	Total Contributions	Total Distributions	Adjusted Value
Ascend Ventures II, L.P.	2,500,000	2,324,355	925,962	69,137
Ascent Venture Partners IV, L.P.	2,500,000	2,502,219	388,970	176,916
Ascent Venture Partners V, L.P.	5,000,000	5,004,731	3,432,862	4,369,916
Audax Mezzanine Fund IV, L.P.	10,000,000	3,570,409	1,042,071	2,693,546
Charles River Partnership XI, L.P.	1,839,000	1,820,323	1,996,788	140,604
DN Partners II, L.P.	5,000,000	2,351,918	0	898,745
Euro Choice II, L.P.	5,544,472	5,513,805	8,038,110	0
Euro Choice V, L.P.	6,088,074	5,688,459	1,504,116	5,499,684
Globespan Capital Partners V, L.P.	5,000,000	4,852,500	7,149,100	3,417,764
Ironsides Direct Investment Fund V, L.P.	12,000,000	7,228,489	0	7,228,489
Landmark Equity Partners XIV, L.P.	6,000,000	6,288,437	6,417,555	1,226,237
Leeds Equity Partners IV, L.P.	5,000,000	5,089,327	6,224,435	29,820
Leeds Equity Partners V, L.P.	2,500,000	3,570,815	3,511,052	2,195,328
Lexington Capital Partners VII, L.P.	10,000,000	10,472,973	12,384,254	3,017,697
LLR Equity Partners V, L.P.	12,000,000	3,360,000	433,003	2,877,993
Mesirow Financial Capital Partners IX, L.P.	4,000,000	3,840,731	1,897,056	234,287
Rimco Production Company, Inc	2,000,000	2,000,000	7,486,401	1
Siguler Guff Distressed Opportunities Fund III, L.	6,000,000	5,820,000	8,077,618	1,063,406
Summit Partners Growth Equity Fund IX, L.P.	10,000,000	6,400,000	997,650	6,270,492
TRG Growth Partnership II, L.P.	7,500,000	7,450,399	7,463,445	1,237,053
Trilantic Capital Partners VI (North America), L.P	12,000,000	194,243	0	2,199,300
Wellspring Capital Partners VI, L.P.	12,000,000	611,767	0	353,670
Total Plymouth County - PE	144,471,545	95,955,901	79,370,449	45,200,084

Total Retirement Association

As of December 31, 2018

Real Assets	Commitment	Total Contributions	Total Distributions	Adjusted Value
Basalt Infrastructure Partners II	10,000,000	3,133,699	49,561	2,798,525
BTG Pactual Global Timberland Resources Fund, LLC	5,406,477	5,043,536	229,998	2,835,576
Global Infrastructure Partners III, L.P.	10,000,000	7,267,721	348,970	8,241,142
IFM Global Infrastructure (US), L.P.	20,000,000	20,000,000	0	20,000,000
JPMorgan Global Maritime Investment	10,000,000	9,186,014	938,504	6,614,939
Timbervest Partners III, L.P.	5,000,000	5,000,000	1,041,500	5,228,292
Total Plymouth County - RA	60,406,477	49,630,970	2,608,534	45,718,474

Real Estate	Commitment	Total Contributions	Total Distributions	Adjusted Value
1921 Realty, Inc.	5,000,000	5,378,194	0	933,768
AEW Partners Real Estate Fund VIII, L.P.	25,000,000	8,476,455	1,410,695	6,703,992
Berkshire Multifamily Value Fund II, L.P.	10,000,000	11,258,620	17,922,285	0
Carlyle Realty Partners VIII, L.P.	18,000,000	1,319,110	487	978,400
DSF Capital Partners IV, L.P.	5,000,000	5,000,000	5,997,885	81,181
DSF Multi-Family Real Estate Fund III, L.P.	15,000,000	11,425,148	824,248	11,277,938
Hunt Redevelopment and Renovation Fund, LLC	10,000,000	8,971,078	11,708,016	0
Invesco Equity Real Estate Securities Trust	22,000,000	23,908,825	27,000,000	15,335,003
New Boston Institutional Fund, L.P. VII	5,000,000	3,012,998	3,747,492	317,543
PRISA I	14,995,000	17,227,013	0	40,542,422
Real Estate International Partnership Fund I, L.P.	15,000,000	12,674,617	9,197,754	3,175,939
TA Realty Core Property Fund, L.P.	25,000,000	19,111,546	0	20,564,904
Total Plymouth County - RE	169,995,000	127,763,605	77,808,862	99,922,595

High Yield Fixed Income Finalist Overview

Background

- On December 5, 2018, Meketa Investment Group issued a \$35 million high yield RFP on behalf of the Plymouth County Retirement Association. The search was subsequently posted to Meketa's website, sent to PERAC, and picked up by a variety of news sources.
- A total of 23 managers submitted responses to this search. At the February meeting, Meketa presented an overview of all respondents, and gave ratings to each manager based on the criteria presented.
- The Board selected the following four managers to participate in finalist presentations at today's meeting:
 - Eaton Vance
 - Loomis Sayles
 - Lord Abbett
 - Mesirow Financial

Eaton Vance Management

Organization: Eaton Vance was established in 1924 and the firm is based in Boston, MA. The firm is publically traded. Eaton Vance and affiliates managed approximately \$500 billion in assets as of September 30, 2018. The high yield strategy was started in 1997 and product assets are approximately \$12 billion.

Team: Michael Weilheimer oversees the high yield investment team and several high yield strategies. The U.S. High Yield strategy is managed on a day-to-day basis by Stephen Concannon. Mr. Concannon joined Eaton Vance in 2000 and has worked on the strategy since joining. The portfolio managers are supported by ten credit analysts, four associate analysts and two dedicated traders. The team averages 19 years of industry experience and 10 years at the firm.

Investment Philosophy & Process: Eaton Vance seeks to employ a flexible investment strategy that adapts to changing market conditions and opportunities. The portfolio is primarily built from the bottom up based on their fundamental credit research, but the investment team will also consider top down market views and credit market expectations when setting portfolio strategy. At the security level, the investment team seeks to identify catalysts that will drive returns exceeding those of the index. The team expects that 75% of excess returns will be generated through security selection, with the remaining performance driven by country, currency, duration and yield curve positioning.

The investment process begins with an evaluation of the high yield universe using various screens to identify attractive opportunities. The analysts conduct fundamental credit research to assess qualitative, quantitative and structural opportunities and as well as to evaluate relative value between issuers. Following the fundamental analysis, the portfolio is built by incorporating analyst recommendations and by using tactical levers to set positioning. Mr. Weilheimer and Mr. Concannon works closely to build and manage the portfolio.

Loomis Sayles

Organization: Loomis Sayles & Company was established by Robert H. Loomis in 1926 as an investment management company in Boston, Massachusetts. The firm is a wholly owned subsidiary of Natixis, a large French-based financial services company. Total firm assets under management are over \$260 billion with more than \$20 billion in high yield assets across many different accounts and strategies. The U.S. High Yield strategy was inceptioned in 2009 and has approximately \$3.5 billion in total assets.

Team: The U.S. High Yield product is managed by a four-member portfolio management team that consists of Matthew Eagan, Elaine Stokes, Thomas Stolberg, and Todd Vandam. These individuals collectively manage all high yield strategies at the firm. The portfolio managers are supported by product-focused strategists and portfolio specialists, as well as large research teams focused on macroeconomic research, risk management, and credit research.

Investment Philosophy & Process: The U.S. High Yield strategy seeks to outperform the broad high yield universe through security selection that is based on fundamental research, and rigorous relative value analysis. Loomis will augment the high yield credit selection process with robust risk management and portfolio construction methods. They will also selectively invest in non-benchmark credit sectors such as bank loans. Because of their large size, Loomis is able to leverage significant research resources that covers nearly all corporate fixed income securities. The analyst teams conduct thorough credit analysis and assign their own proprietary rating to each security that is evaluated. Analysts discuss these credit assessments with portfolio managers in the context of an issue's relative value in the market. Portfolio managers will incorporate the analyst recommendations with the macro outlook of the firm to build the portfolio. Product teams oversee the portfolio management to ensure that portfolios are being constructed in a way that is consistent with their strategy and guidelines.

Lord Abbett

Organization: Lord Abbett is located in Jersey City, New Jersey and is 100% employee owned, with no single person owning more than 25%. The firm was founded in 1929 and currently manages more than \$160 billion in assets. High yield assets total more than \$11 billion with more than \$3.5 billion in the High Yield Core strategy which was instituted in September 2004.

Team: Steven Rocco has been the lead portfolio manager on the strategy since 2010. Christopher Gizzo was recently promoted to portfolio manager in 2017. Mr. Rocco remains the key portfolio manager when setting portfolio strategy while Mr. Gizzo's role is primarily to liaise with the credit analysts and also ensure accounts are optimally managed. The portfolio managers are supported by 24 analysts who are organized by industry and look across the ratings spectrum from investment grade to high yield.

Investment Philosophy and Process: The team believes that a flexible and opportunistic strategy with careful risk management is the best approach to outperform the high yield index in various market environments. The team seeks to generate excess returns through security selection, sector and credit risk allocations. The portfolio tends to have a credit risk profile at or greater than the index.

The investment process is guided by top-down analysis which lays the framework for the portfolio's credit quality distribution, industry positioning and risk profile. Once top-down views are established analysts aim to delve deep into industry dynamics, and the financial outlooks of the companies in their industries. Proprietary models integrate relative value analysis with analysts' fundamental credit research and quantitative risk reporting. Senior portfolio managers meet on a weekly basis to discuss investment decisions and determine longer-term portfolio strategy.

Mesirow Financial

Organization: Mesirow Financial is based in Chicago and was founded in 1937. The firm now has \$100 billion in assets under management. Mesirow's high yield effort began in 2016 when they purchased the high yield group from Pacific Income Advisors. The team overseeing the strategy has managed it since 1999 and it currently has \$700 million in assets under management.

Team: While the group is relatively new to Mesirow, the senior members of the investment team have worked together for over 20 years. The portfolio management team consists of Bob Sydow, Kevin Buckle and James Lisko. The portfolio managers are supported by a team of three analysts, two of which joined in the past year.

Investment Philosophy and Process: Mesirow Financial investment philosophy emphasizes a value-oriented approach that focuses on selecting higher yielding securities and maintaining a low default rates. The investment team believes that smaller high yield issuers are less followed and misunderstood by other high yield managers, and thus their bonds tend to be inefficiently priced. Smaller issuers also tend to have a yield premium to the larger market issuers. The Mesirow strategy tends to be overweight smaller issue bonds, and also tends to have an overweight to the B-rated market segment. To help minimize defaults, the team seeks to completely avoid industries that they believe will experience a secular decline.

The investment process is led by the portfolio managers who communicate investment ideas to analysts. The three portfolio managers tend to each focus on select industries and drive the portfolio allocation within them. The final portfolio tends to be relatively concentrated in 75-125 issuers with a 2.5% maximum position size. While the portfolio managers collaborate frequently when making portfolio decisions, Bob Sydow is the final decision maker.

Portfolio Characteristics

As of February 28, 2019

	Eaton Vance Management	Loomis Sayles	Lord Abbett	Mesirow Financial	Barclays High Yield
Pricing:					
Average Duration	3.2	3.5	4.5	3.8	3.5
Average Coupon	6.3	6.6	6.3	6.8	6.4
Yield to Worst	5.6	6.4	6.8	7.3	6.5
Average Price	\$100.5	\$99.1	\$98.2	\$98.3	\$97.5
Quality Structure:					
Average Credit Quality	BB	BB-	B+	B	B+
AAA, AA, and A ¹	4	5	0	1	0
BBB	6	4	3	0	0
BB	47	34	37	14	46
B	37	44	41	68	40
CCC and below	5	11	15	16	14
Non-Rated	1	2	4	0	0
Portfolio Concentration					
Number of Issues	473	215	502	131	1,931
Number of Issuers	263	143	390	122	973
Percentage in Top 10 (%)	14	18	14	13	11
Percentage in Top 25 (%)	22	35	24	29	21

¹ Includes Cash.



Portfolio Characteristics

As of February 28, 2019

Sector Allocation	Eaton Vance Management	Loomis Sayles	Lord Abbett	Mesirow Financial	Barclays High Yield
US Treasury and Agency	0	0	0	0	0
U.S. IG Corporate Bonds	0	0	3	0	0
U.S. HY Corporate Bonds	89	70	77	94	86
Non-U.S. Developed	0	15	8	0	14
Emerging Markets Bonds	0	4	6	0	0
Bank Debt	7	6	0	5	0
Convertible Bonds & Equity	0	0	5	0	0
Cash Equivalents	4	5	1	1	0
Other	0	0	0	0	0

Net Trailing and Calendar Year Performance

As of February 28, 2019

	Eaton Vance Management	Loomis Sayles	Lord Abbett	Mesirow Financial	Barclays High Yield
Trailing Period Returns (%):					
1 year	3.9	3.1	2.4	3.3	4.3
3 years	7.5	8.9	8.6	9.3	9.8
5 years	4.6	4.5	4.8	4.9	4.5
10 years	11.1	-	10.6	10.6	11.5
Calendar Year Returns (%):					
2018	-2.2	-3.4	-4.1	-1.3	-2.1
2017	6.8	7.6	7.8	8.4	7.5
2016	13.2	15.7	15.5	14.7	17.1
2015	-1.1	-2.3	-1.6	-1.4	-4.5
2014	3.6	2.9	3.5	2.7	2.5
2013	7.5	8.5	8.5	8.9	7.4
2012	15.0	16.3	15.3	14.0	15.8
2011	5.0	3.1	4.7	4.1	5.0
2010	15.4	15.3	13.9	16.4	15.1
2009	55.0	-	49.4	43.6	58.2
2008	-27.4	-	-22.8	-18.1	-26.2

Common Period Returns and Risk Statistics¹

As of February 28, 2019

	Eaton Vance Management	Loomis Sayles	Lord Abbett	Mesirow Financial	Barclays High Yield
Performance:					
Common Period Performance (%)	7.8	7.8	7.9	8.1	7.9
% of Periods Above Index (%)	47	50	46	51	N/A
Best 3 Months (%)	7.3	8.4	8.1	7.5	9.2
Worst 3 Months (%)	-5.3	-6.8	-6.0	-4.8	-6.2
Risk Measures:					
Standard Deviation (%)	5.6	6.5	6.0	5.1	6.4
Tracking Error (%)	1.3	0.8	1.1	2.3	N/A
Beta	0.87	1.00	0.91	0.74	1.00
Correlation to Benchmark	0.98	0.99	0.99	0.93	1.00
Downside Deviation (%)	3.5	3.9	3.8	3.3	3.9
Upside Capture (%)	91	99	95	87	100
Downside Capture (%)	82	101	90	67	100
Risk-Adjusted Performance:					
Jensen's Alpha (%)	0.9	-0.1	0.6	2.2	N/A
Sharpe Ratio	1.32	1.13	1.25	1.52	1.17
Information Ratio	-0.05	-0.14	-0.01	0.1	N/A

¹ Data shown is net of fees and for the longest common period available, from October 2009 through February 2019.



Fees and Terms

	Eaton Vance Management	Loomis Sayles	Lord Abbett	Mesirow Financial
Proposed Investment Vehicle	Commingled Fund	Commingled Trust	Collective Trust	Collective Trust
Strategy Name	High Yield Bond	U.S. High Yield	High Yield Core	Mesirow Financial High Yield Fixed Income
Liquidity	Daily	Daily	Daily	Daily
Management Fee	0.50	0.50	0.38	0.40
Operating Expenses	Included	Included	Variable, but capped at 0.08%	Included
Estimated Effective Fee	0.50%	0.50%	0.46%	0.40%

Relative Strengths & Weaknesses

	Relative Strengths	Relative Weaknesses
Eaton Vance Management	<ul style="list-style-type: none"> Organization and high yield portfolio management team has been stable for nearly 20 years. Strongest return over 10-year period with attractive downside capture as well. 	<ul style="list-style-type: none"> Weakest results over 3-year period of the finalists.
Loomis	<ul style="list-style-type: none"> Loomis has extremely deep resources and systems to leverage when managing the strategy. Two of the high yield portfolio managers have been working together for more than 20 years. Strong batting average. 	<ul style="list-style-type: none"> While Loomis has been managing high yield assets for several decades, the U.S. high yield strategy has not been managed through a default cycle. Weakest downside capture and Sharpe Ratio.
Lord Abbett	<ul style="list-style-type: none"> Historically most flexible strategy to own opportunistic non-benchmark securities. Fees are very attractive relative to the peer group. 	<ul style="list-style-type: none"> Risk-adjusted statistics somewhat less attractive relative to other finalists.
Mesirow Financial	<ul style="list-style-type: none"> Three senior portfolio managers and one analyst have worked together on strategy since 2002. Strongest returns over common period. Most attractive fees. 	<ul style="list-style-type: none"> The team has worked together for many years however has been at Mesirow for approximately two years. Also two of three analysts are relatively new to the firm. While historical performance has been strong, it was achieved at relatively low asset levels.

Non-Core Real Estate RFP Respondents

Non-Core Real Estate Respondents
Alex Brown Realty, Inc
Ascentris
Berkshire Residential Investments
Blue Vista Capital Management, LLC
CenterSquare Investment Management LLC
The DSF Group
Equus Capital Partners, Ltd.
LaSalle Investment Management
Long Wharf Capital LLC
Oaktree Capital Management, L.P.
Oz Management
Partners Group (USA), Inc.
Rockpoint Group
Rockwood Capital, LLC ¹
TA Realty
TerraCap Management, LLC
True North Management Group
Virtus Real Estate, LLC

¹ Rockwood Capital, LLC RFP response was received after the posted April 10, 2019 deadline.



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PERFORMANCE DATA CONTAINED HEREIN REPRESENT PAST PERFORMANCE. PAST PERFORMANCE IS NO GUARANTEE OF FUTURE RESULTS.

Credit Risk: Refers to the risk that the issuer of a fixed income security may default (i.e., the issuer will be unable to make timely principal and/or interest payments on the security.)

Duration: Measure of the sensitivity of the price of a bond to a change in its yield to maturity. Duration summarizes, in a single number, the characteristics that cause bond prices to change in response to a change in interest rates. For example, the price of a bond with a duration of three years will rise by approximately 3% for each 1% decrease in its yield to maturity. Conversely, the price will decrease 3% for each 1% increase in the bond's yield. Price changes for two different bonds can be compared using duration. A bond with a duration of six years will exhibit twice the percentage price change of a bond with a three-year duration. The actual calculation of a bond's duration is somewhat complicated, but the idea behind the calculation is straightforward. The first step is to measure the time interval until receipt for each cash flow (coupon and principal payments) from a bond. The second step is to compute a weighted average of these time intervals. Each time interval is measured by the present value of that cash flow. This weighted average is the duration of the bond measured in years.

Information Ratio: This statistic is a measure of the consistency of a portfolio's performance relative to a benchmark. It is calculated by subtracting the benchmark return from the portfolio return (excess return), and dividing the resulting excess return by the standard deviation (volatility) of this excess return. A positive information ratio indicates outperformance versus the benchmark, and the higher the information ratio, the more consistent the outperformance.

Jensen's Alpha: A measure of the average return of a portfolio or investment in excess of what is predicted by its beta or "market" risk. $\text{Portfolio Return} - [\text{Risk Free Rate} + \text{Beta} * (\text{market return} - \text{Risk Free Rate})]$.

Market Capitalization: For a firm, market capitalization is the total market value of outstanding common stock. For a portfolio, market capitalization is the sum of the capitalization of each company weighted by the ratio of holdings in that company to total portfolio holdings; thus it is a weighted-average capitalization. Meketa Investment Group considers the largest 65% of the broad domestic equity market as large capitalization, the next 25% of the market as medium capitalization, and the smallest 10% of stocks as small capitalization.

Market Weighted: Stocks in many indices are weighted based on the total market capitalization of the issue. Thus, the individual returns of higher market-capitalization issues will more heavily influence an index's return than the returns of the smaller market-capitalization issues in the index.

Maturity: The date on which a loan, bond, mortgage, or other debt/security becomes due and is to be paid off.

Prepayment Risk: The risk that prepayments will increase (homeowners will prepay all or part of their mortgage) when mortgage interest rates decline; hence, investors' monies will be returned to them in a lower interest rate environment. Also, the risk that prepayments will slow down when mortgage interest rates rise; hence, investors will not have as much money as previously anticipated in a higher interest rate environment. A prepayment is any payment in excess of the scheduled mortgage payment.

Price-Book Value (P/B) Ratio: The current market price of a stock divided by its book value per share. Meketa Investment Group calculates P/B as the current price divided by Compustat's quarterly common equity. Common equity includes common stock, capital surplus, retained earnings, and treasury stock adjusted for both common and nonredeemable preferred stock. Similar to high P/E stocks, stocks with high P/B's tend to be riskier investments.

Price-Earnings (P/E) Ratio: A stock's market price divided by its current or estimated future earnings. Lower P/E ratios often characterize stocks in low growth or mature industries, stocks in groups that have fallen out of favor, or stocks of established blue chip companies with long records of stable earnings and regular dividends. Sometimes a company that has good fundamentals may be viewed unfavorably by the market if it is an industry that is temporarily out of favor. Or a business may have experienced financial problems causing investors to be skeptical about its future. Either of these situations would result in lower relative P/E ratios. Some stocks exhibit above-average sales and earnings growth or expectations for above average growth. Consequently, investors are willing to pay more for these companies' earnings, which results in elevated P/E ratios. In other words, investors will pay more for shares of companies whose profits, in their opinion, are expected to increase faster than average. Because future events are in no way assured, high P/E stocks tend to be riskier and more volatile investments. Meketa Investment Group calculates P/E as the current price divided by the I/B/E/S consensus of twelve-month forecast earnings per share.

Quality Rating: The rank assigned a security by such rating services as Fitch, Moody's, and Standard & Poor's. The rating may be determined by such factors as (1) the likelihood of fulfillment of dividend, income, and principal payment of obligations; (2) the nature and provisions of the issue; and (3) the security's relative position in the event of liquidation of the company. Bonds assigned the top four grades (AAA, AA, A, BBB) are considered investment grade because they are eligible bank investments as determined by the controller of the currency.

Sharpe Ratio: A commonly used measure of risk-adjusted return. It is calculated by subtracting the risk free return (usually three-month Treasury bill) from the portfolio return and dividing the resulting excess return by the portfolio's total risk level (standard deviation). The result is a measure of return per unit of total risk taken. The higher the Sharpe ratio, the better the fund's historical risk adjusted performance.

Standard Deviation: A measure of the total risk of an asset or a portfolio. Standard deviation measures the dispersion of a set of numbers around a central point (e.g., the average return). If the standard deviation is small, the distribution is concentrated within a narrow range of values. For a normal distribution, about two thirds of the observations will fall within one standard deviation of the mean, and 95% of the observations will fall within two standard deviations of the mean.

STIF Account: Short-term investment fund at a custodian bank that invests in cash-equivalent instruments. It is generally used to safely invest the excess cash held by portfolio managers.

Style: The description of the type of approach and strategy utilized by an investment manager to manage funds. For example, the style for equities is determined by portfolio characteristics such as price-to-book value, price-to-earnings ratio, and dividend yield. Equity styles include growth, value, and core.

Yield to Maturity: The yield, or return, provided by a bond to its maturity date; determined by a mathematical process, usually requiring the use of a “basis book.” For example, a 5% bond pays \$5 a year interest on each \$100 par value. To figure its current yield, divide \$5 by \$95—the market price of the bond—and you get 5.26%. Assume that the same bond is due to mature in five years. On the maturity date, the issuer is pledged to pay \$100 for the bond that can be bought now for \$95. In other words, the bond is selling at a discount of 5% below par value. To figure yield to maturity, a simple and approximate method is to divide 5% by the five years to maturity, which equals 1% pro rata yearly. Add that 1% to the 5.26% current yield, and the yield to maturity is roughly 6.26%.

$$\frac{5\% \text{ (discount)}}{5 \text{ (yrs. to maturity)}} = 1\% \text{ pro rata, plus } 5.26\% \text{ (current yield)} = 6.26\% \text{ (yield to maturity)}$$

Sources: [Investment Terminology](#), International Foundation of Employee Benefit Plans, 1999.
[The Handbook of Fixed Income Securities](#), Fabozzi, Frank J., 1991.

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Throughout this report, numbers may not sum due to rounding.

Returns for periods greater than one year are annualized throughout this report.

Values shown are in millions of dollars, unless noted otherwise.