

AGENDA
IRVINE RANCH WATER DISTRICT
POST-EMPLOYMENT BENEFITS TRUST RETIREMENT BOARD
QUARTERLY MEETING
TUESDAY, AUGUST 6, 2019

CALL TO ORDER 12:00 p.m., IRWD Headquarters, Committee Room (second floor)
15600 Sand Canyon Avenue, Irvine, California

ATTENDANCE Board Member: Steve LaMar ____ Board Member: Doug Reinhart ____
Board Member: Paul Cook ____

ALSO PRESENT Cheryl Clary ____
Rob Jacobson ____
Tanja Fournier ____

NOTICE: If you wish to address the Committee on any item, please file your name with the Committee. Forms are provided at the meeting. Remarks are limited to three minutes per speaker on each subject.

COMMUNICATIONS

1. Meeting Minutes: Tanja Fournier
2. Public Comments
3. Determine the need to discuss and/or take action on item(s) introduced, which came to the attention of the District subsequent to the agenda being posted.
4. Determine which items may be approved without discussion.

ACTION

5. MINUTES OF THE MEETING OF THE IRVINE RANCH WATER DISTRICT RETIREMENT BOARD – FOURNIER / JACOBSON / CLARY

Recommendation: That the minutes of the May 1, 2019, Board Meeting of the Irvine Ranch Water District Retirement Board be approved as presented.

6. IRWD POST-RETIREMENT BENEFITS TRUST INVESTMENT REVIEW AS OF JUNE 30, 2019 – FOURNIER / JACOBSON / CLARY

Recommendation: Based on discussions and direction from the Board, staff will implement agreed-upon changes to the investment portfolio, if any.

OTHER BUSINESS

7. Directors' Comments
8. Adjourn

Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the above-named Retirement Board in connection with a matter subject to discussion or consideration at an open meeting of the Retirement Board are available for public inspection in the District's office, 15600 Sand Canyon Avenue, Irvine, California ("District Office"). If such writings are distributed to members of the Retirement Board less than 72 hours prior to the meeting, they will be available from the District Secretary of the District Office at the same time as they are distributed to Retirement Board Members, except that if such writings are distributed one hour prior to, or during, the meeting, they will be available at the entrance of the meeting room at the District Office. The Irvine Ranch Water District Committee Room is wheelchair accessible. If you require any special disability-related accommodations (e.g., access to an amplified sound system, etc.), please contact the District Secretary at (949) 453-5300 during business hours at least seventy-two (72) hours prior to the scheduled meeting. This agenda can be obtained in an alternative format upon written request to the District Secretary at least seventy-two (72) hours prior to the scheduled meeting.

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August 6, 2019
Prepared by: T. Fournier
Submitted by: R. Jacobson / C. Clary
Approved by: Paul A. Cook



RETIREMENT BOARD

MINUTES OF THE MEETING OF THE
IRVINE RANCH WATER DISTRICT RETIREMENT BOARD

SUMMARY:

Provided are the minutes of the May 1, 2019 meeting of the Irvine Ranch Water District Retirement Board for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE MAY 1, 2019 BOARD MEETING OF THE IRVINE RANCH WATER DISTRICT RETIREMENT BOARD BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – May 1, 2019 Minutes

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EXHIBIT “A”

MINUTES OF THE MEETING OF THE BOARD OF DIRECTORS OF THE IRVINE RANCH WATER DISTRICT RETIREMENT BOARD

May 1, 2019

The meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) Retirement Board was called to order by Chairman Swan at 12:45 p.m. on May 1, 2019 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: Chairman Peer Swan, Vice Chairman Steve LaMar, and Paul Cook

Also Present: Treasurer Robert Jacobson, Executive Director of Finance and Administrative Services Cheryl Clary, Assistant Treasurer Tanja Fournier, and Dan Quirk of SageView Advisory Group.

COMMUNICATION: None.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED: None.

ACTION CALENDAR

MINUTES OF BOARD MEETING

Tanja Fournier presented the minutes from the February 5, 2019 meeting.

On MOTION by LaMar, seconded by Cook, and affirmed by Peer Swan, the minutes of the February 5, 2019 meeting were approved as presented.

Trust Investment Review

- A capital markets and legislative update was provided by SageView.
- All trust investment options were reviewed as of 03/31/2019. All options are performing in line with benchmarks or above 50th percentile peer group rankings at this time.
- The portfolio return and expense ratio, style analysis, and asset allocation by fund were reviewed. Of note were the following:
 - As of March 31, 2019, the IRWD Post-Retirement Benefits Trust market value was \$75,697,618, an increase from \$68,847,992, at December 31, 2018.
 - For the quarter, the net total return was 9.95%. This slightly beat the custom benchmark return of 9.81%, with outperformance from Vanguard High Yield Corporate bond, Baird Core Plus, and Metropolitan West Total Return contributing to the positive performance.

- For the trailing twelve months, the total return was 5.49%, closely in line with the custom benchmark return of 5.64%, and ahead of the peer group custom benchmark return of 3.42%.
- The portfolio is primarily allocated to index funds, leading to a low overall expense ratio of 0.13%.
- The three actively scored funds by SageView all score in the top quartile of rankings, while all index funds receive a pass rating.
- There was no trading activity for the first quarter.
- Future Considerations:
 - The committee will monitor the performance of two bond funds for potential inclusion in the portfolio:

Vanguard Long Term Treasury Fund Admiral (VUSUX)
 Vanguard Long Term Corporate Bond Index (VLTCX)

The strategy would include replacing the Vanguard Short Term Corporate Bond Fund and the Metropolitan West Total Return Fund. These two long duration funds benefit from the generally steep structural shape of the yield curve through higher yields, and can also improve portfolio risk dynamics, as high-quality long duration bonds tend to rally meaningfully during volatile periods for equities.

ADJOURNMENT

There being no further business, Chairman Swan adjourned the meeting.

APPROVED and SIGNED this 6th day of August 2019.

 Board Member, IRVINE RANCH WATER DISTRICT
 RETIREMENT BOARD

 Secretary, IRVINE RANCH WATER DISTRICT
 RETIREMENT BOARD

August 6, 2019
 Prepared by: T. Fournier
 Submitted by: R. Jacobson / C. Clary
 Approved by: Paul A. Cook



RETIREMENT BOARD

**IRWD POST RETIREMENT BENEFITS TRUST
 INVESTMENT REVIEW AS OF JUNE 30, 2019**

SUMMARY:

Staff and a representative from the District’s pension investment advisor, SageView Investment Advisors, will present the Portfolio Investment Review for the quarter ended June 30, 2019, and provide an update on current market conditions and any recommended portfolio changes.

BACKGROUND:

Quarterly Investment Review:

As of June 30, 2019, the IRWD Post-Retirement Benefits Trust market value was \$78,372,930, which was a net increase of \$2,675,312 from the quarter ended March 31, 2019. The change was primarily due to an increase in market value of \$2,186,332, and dividends of \$502,793. Trust expenses for the quarter were \$13,813 paid to SageView for investment advisory services.

The closing balances and fund returns as of June 30, 2019 are as follows:

Investment	Quarterly Return	Benchmark Index	Morningstar Peer Category	Quarter Ended March 31 2019	Quarter Ended June 30 2019	Incr/(Decr)	Percent of Portfolio
EQUITIES							
Vanguard Institutional Index Fund.	4.30%	4.30%	3.82%	\$32,456,427	\$33,851,109	\$1,394,682	43.2%
Vanguard Extended Mkt (small/mid) Index Fund	3.04%	3.02%	3.04%	5,427,315	5,592,136	\$164,821	7.1%
Vanguard Developed Market Index	3.27%	3.66%	2.98%	10,311,599	10,648,532	\$336,933	13.6%
Vanguard Emerging Markets Index	0.93%	0.84%	1.57%	2,657,740	2,676,457	\$18,717	3.4%
FIXED INCOME							
Metropolitan Total Return Bond Fund	3.20%	3.08%	2.93%	6,768,170	6,986,472	\$218,302	8.9%
Baird Core Plus Bond Fund	3.23%	3.08%	2.93%	11,330,485	11,696,962	\$366,477	14.9%
Vanguard High-Yield Corporate Fund	3.15%	2.57%	2.29%	4,542,230	4,687,177	\$144,947	6.0%
Vanguard Short Term Bond Index Admiral	2.04%	2.06%	1.48%	2,187,565	2,214,872	\$27,307	2.8%
CASH-SHORT TERM							
Fidelity Government Cash Reserves	0.52%	0.64%	0.49%	16,088	19,213	\$3,125	0.0%
Closing Balance				\$75,697,618	\$78,372,930	\$2,675,312	100.0%

For the quarter ended June 30, 2019, the portfolio return was 3.53%, which was in line with the custom benchmark return of 3.52%. For the one-year period ended June 30, 2019 the return was 7.22%, which outperformed the custom benchmark return of 7.14%, and outperformed the peer-group custom benchmark return of 6.00%. The Portfolio Investment Review, as of June 30, 2019, is attached as Exhibit “A”.

A representative from SageView will present the Portfolio Investment Review for the quarter ended June 30, 2019, an update on the portfolio and current market conditions, as well as any recommended portfolio changes for the Board’s consideration.

FISCAL IMPACTS:

As of June 30, 2019, the IRWD Post-Retirement Benefits Trust market value was \$78,372,930, which is was a net increase of \$2,675,312 from the quarter ended March 31, 2019. The change was primarily due to an increase in market value of \$2,186,332, and dividends of \$502,793. Trust expenses for the quarter were \$13,813 paid to SageView for investment advisory services.

ENVIRONMENTAL COMPLIANCE:

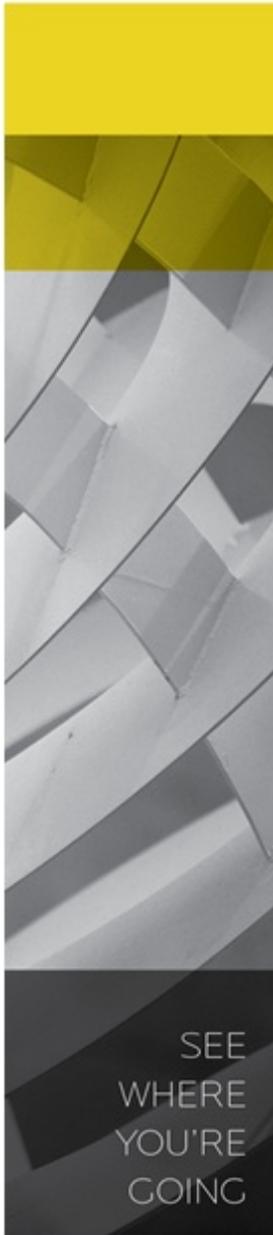
This item is not a project as defined in the California Environmental Quality Act Code of Regulations, Title 14, Chapter 3 Section 15378.

RECOMMENDATION:

BASED ON DISCUSSIONS AND DIRECTION FROM THE BOARD, STAFF WILL IMPLEMENT AGREED UPON CHANGES TO THE INVESTMENT PORTFOLIO, IF ANY.

LIST OF EXHIBITS:

Exhibit "A" – The Portfolio Investment Review as of June 30, 2019



Plan Investment Review

Irvine Ranch Water District Post-Employment Benefits Trust

For period ending June 30, 2019



Table of Contents



Section - I	Market Overview.....	3
	Industry Analysis	
Section - II	Investment Summary.....	8
	Asset Allocation by Fund	
	Portfolio Composition	
	Fund Performance Summary	
	Investment Discussion Summary - Current Investments	
	Historical IPS Ranking	
	Fund Score Summary	
	IPS Performance Analysis	
Section - III	Portfolio Summary.....	20
	Portfolio Return vs. Custom Benchmark	
	Management Style Analysis	
	Style Map	
Section - IV	Appendix.....	27
	Appendix	



Section I

Market Overview

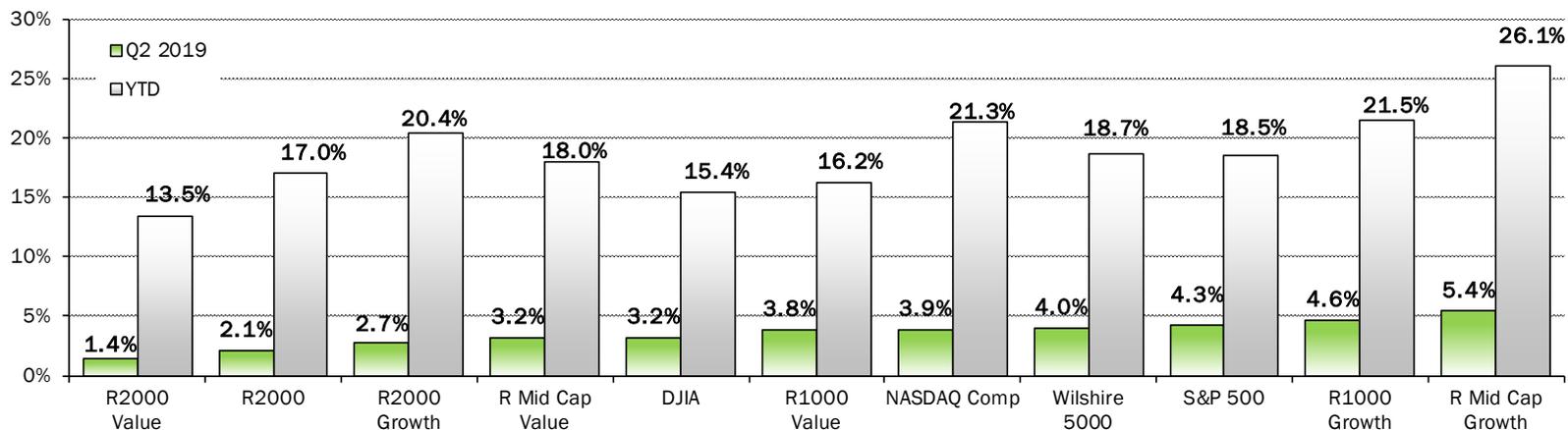
The views are those of SageView Advisory Group and should not be construed as investment advice. All information is believed to be from reliable sources; however, we make no representation as to its completeness or accuracy. All economic and performance information is historical and not indicative of future results. The market indices discussed are unmanaged. Investors cannot directly invest in unmanaged indices. Additional risks are associated with international investing, such as currency fluctuations, political and economic stability, and differences in accounting standards. Please consult your financial advisor for more information.

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U.S. Equities

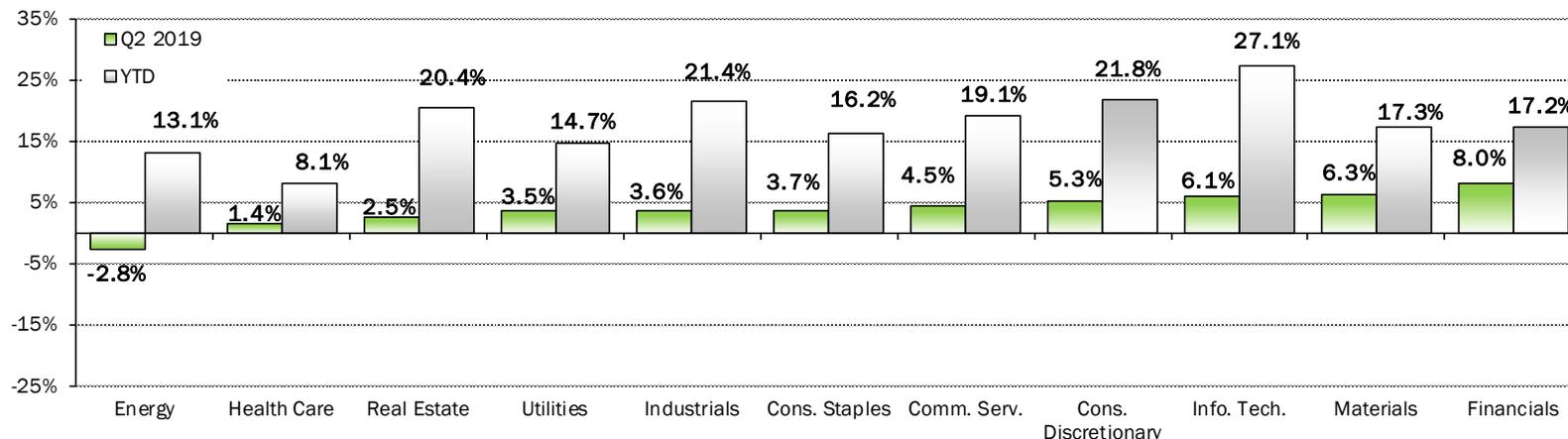
All U.S. equity market sectors and capitalizations posted positive returns in Q2. Growth stocks once again outpaced value stocks for the quarter, but performance differentials between the best and worst market sectors were small. Despite a flattening yield curve and the prospect of multiple rate cuts in 2019, Financials were the best-performing sector.

Performance of Major U.S. Equity Indexes - Q2 2019 and YTD



Source: Morningstar. Returns represent total return, including dividends.

S&P 500 Sector Returns - Q2 2019 and YTD



Source: Morningstar. Returns represent cumulative total return, including dividends.

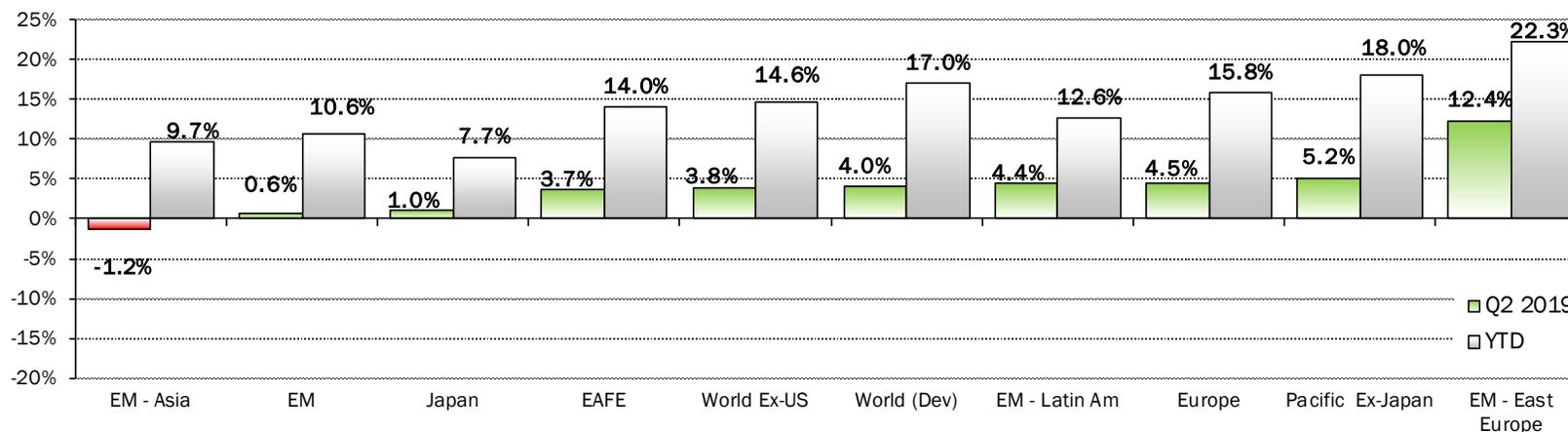
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International Equities

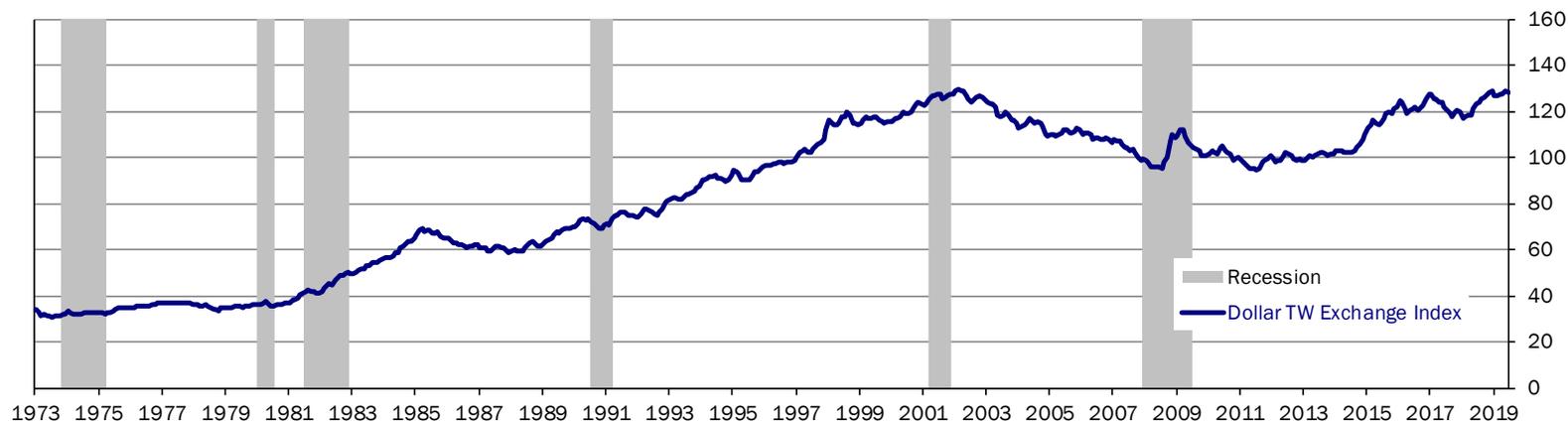
Bolstered by ECB President Mario Draghi's dovish comments in early June, international markets reacted favorably to potential stimulus measures. The expected resignation of UK's Theresa May did little to move markets. Tory favorite Boris Johnson is known as a Brexit hardliner, which could have more of an impact on international markets going forward.

International Equity Market Returns - Q2 2019 and YTD



Source: Morningstar. Returns represent cumulative total return, including dividends.

Dollar Trade Weighted Exchange Index for Broad Currencies: 1973 - 2019



Source: Bloomberg. Data as of June 30, 2019.

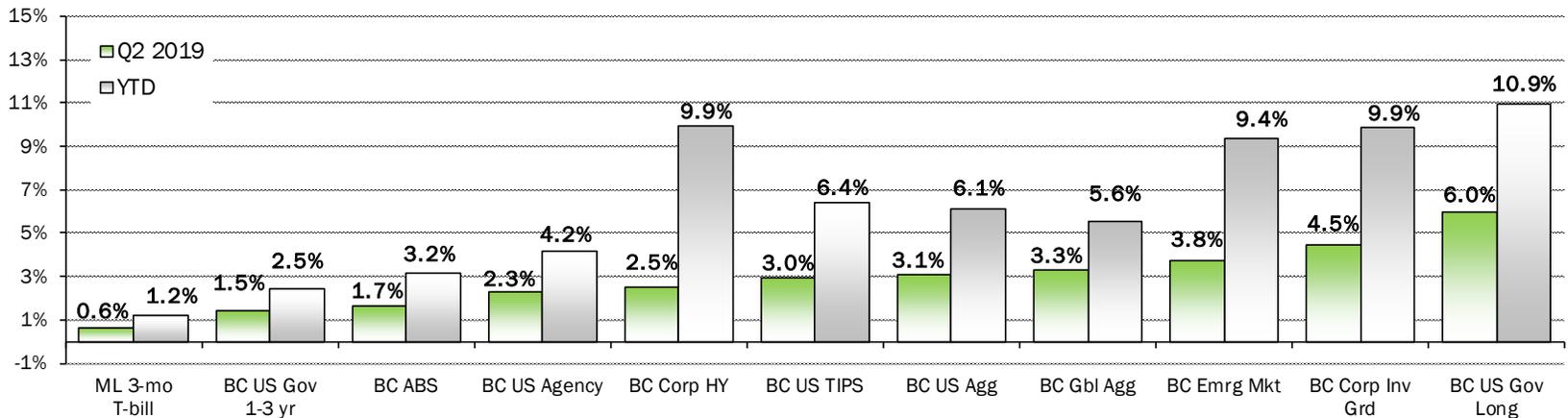
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Fixed Income

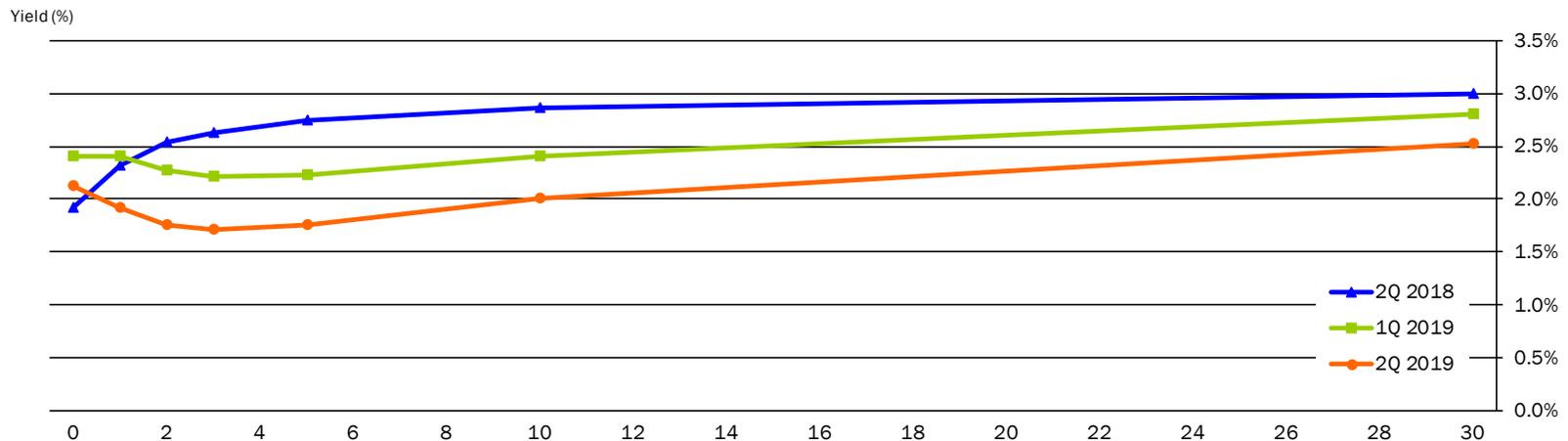
Fixed Income assets rose in Q2 as credit spreads tightened and as the yield curve shifted lower following dovish Fed statements in May. Longer maturity bonds were the best performing segment this quarter, followed by riskier bond categories. The yield curve remains inverted, with the 3-month T-bill yielding more than the 10 year Treasury bond.

Fixed Income Returns - Q2 2019 and YTD



Source: Morningstar. Returns represent total return, including dividends.

U.S. Treasury Yield Curve



Source: Bloomberg. Data as of respective quarter end.

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Asset Class Returns

																2004 - 2018	
2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	YTD	Ann.	Vol.
REITs 31.6%	EM Equity 34.5%	REITs 35.1%	EM Equity 39.8%	Fixed Income 5.2%	EM Equity 79.0%	REITs 27.9%	REITs 8.3%	REITs 19.7%	Small Cap 38.8%	REITs 28.0%	REITs 2.8%	Small Cap 21.3%	EM Equity 37.8%	Cash 1.8%	REITs 19.3%	REITs 8.5%	REITs 22.4%
EM Equity 26.0%	Comdty. 21.4%	EM Equity 32.6%	Comdty. 16.2%	Cash 1.8%	High Yield 59.4%	Small Cap 26.9%	Fixed Income 7.8%	High Yield 19.6%	Large Cap 32.4%	Large Cap 13.7%	Large Cap 1.4%	High Yield 14.3%	DM Equity 25.6%	Fixed Income 0.0%	Large Cap 18.5%	EM Equity 8.3%	EM Equity 22.1%
DM Equity 20.7%	DM Equity 14.0%	DM Equity 26.9%	DM Equity 11.6%	Asset Alloc. -25.4%	DM Equity 32.5%	EM Equity 19.2%	High Yield 3.1%	EM Equity 18.6%	DM Equity 23.3%	Fixed Income 6.0%	Fixed Income 0.5%	Large Cap 12.0%	Large Cap 21.8%	REITs -4.0%	Small Cap 17.0%	Large Cap 7.8%	Small Cap 18.6%
Small Cap 18.3%	REITs 12.2%	Small Cap 18.4%	Asset Alloc. 7.1%	High Yield -26.9%	REITs 28.0%	Comdty. 16.8%	Large Cap 2.1%	DM Equity 17.9%	Asset Alloc. 14.9%	Asset Alloc. 5.2%	Cash 0.0%	Comdty. 11.8%	Small Cap 14.6%	High Yield -4.1%	DM Equity 14.5%	Small Cap 7.5%	Comdty. 18.6%
High Yield 13.2%	Asset Alloc. 8.1%	Large Cap 15.8%	Fixed Income 7.0%	Small Cap -33.8%	Small Cap 27.2%	Large Cap 15.1%	Cash 0.1%	Small Cap 16.3%	High Yield 7.3%	Small Cap 4.9%	DM Equity -0.4%	EM Equity 11.6%	Asset Alloc. 14.6%	Large Cap -4.4%	Asset Alloc. 12.3%	High Yield 7.3%	DM Equity 17.6%
Asset Alloc. 12.8%	Large Cap 4.9%	Asset Alloc. 15.3%	Large Cap 5.5%	Comdty. -35.6%	Large Cap 25.5%	High Yield 14.8%	Asset Alloc. -0.7%	Large Cap 16.0%	REITs 2.9%	Cash 0.0%	Asset Alloc. -2.0%	REITs 8.6%	High Yield 10.4%	Asset Alloc. -5.8%	EM Equity 10.8%	Asset Alloc. 6.2%	Large Cap 14.5%
Large Cap 10.9%	Small Cap 4.6%	High Yield 13.7%	Cash 4.8%	Large Cap -37.0%	Asset Alloc. 25.0%	Asset Alloc. 13.3%	Small Cap -4.2%	Asset Alloc. 12.2%	Cash 0.0%	High Yield 0.0%	High Yield -2.7%	Asset Alloc. 8.3%	REITs 8.7%	Small Cap -11.0%	High Yield 9.5%	DM Equity 5.2%	High Yield 11.0%
Comdty. 9.1%	High Yield 3.6%	Cash 4.8%	High Yield 3.2%	REITs -37.7%	Comdty. 18.9%	DM Equity 8.2%	DM Equity -11.7%	Fixed Income 4.2%	Fixed Income -2.0%	EM Equity -1.8%	Small Cap -4.4%	Fixed Income 2.6%	Fixed Income 3.5%	Comdty. -11.2%	Fixed Income 6.1%	Fixed Income 3.9%	Asset Alloc. 10.3%
Fixed Income 4.3%	Cash 3.0%	Fixed Income 4.3%	Small Cap -1.6%	DM Equity -43.1%	Fixed Income 5.9%	Fixed Income 6.5%	Comdty. -13.3%	Cash 0.1%	EM Equity -2.3%	DM Equity -4.5%	EM Equity -14.6%	DM Equity 1.5%	Comdty. 1.7%	DM Equity -13.4%	Comdty. 5.1%	Cash 1.3%	Fixed Income 3.3%
Cash 1.2%	Fixed Income 2.4%	Comdty. 2.1%	REITs -15.7%	EM Equity -53.2%	Cash 0.1%	Cash 0.1%	EM Equity -18.2%	Comdty. -1.1%	Comdty. -9.5%	Comdty. -17.0%	Comdty. -24.7%	Cash 0.3%	Cash 0.8%	EM Equity -14.2%	Cash 1.2%	Comdty. -2.5%	Cash 0.8%

Source: Barclays, Bloomberg, FactSet, MSCI, NAREIT, Russell, Standard & Poor's, J.P. Morgan Asset Management.

Large cap: S&P 500, Small cap: Russell 2000, EM Equity: MSCI EME, DM Equity: MSCI EAFE, Comdty: Bloomberg Commodity Index, High Yield: Bloomberg Barclays Global HY Index, Fixed Income: Bloomberg Barclays US Aggregate, REITs: NAREIT Equity REIT Index, Cash: Bloomberg Barclays 1-3m Treasury. The "Asset Allocation" portfolio assumes the following weights: 25% in the S&P 500, 10% in the Russell 2000, 15% in the MSCI EAFE, 5% in the MSCI EME, 25% in the Bloomberg Barclays US Aggregate, 5% in the Bloomberg Barclays 1-3m Treasury, 5% in the Bloomberg Barclays Global High Yield Index, 5% in the Bloomberg Commodity Index and 5% in the NAREIT Equity REIT Index. Balanced portfolio assumes annual rebalancing. Annualized (Ann.) return and volatility (Vol.) represents period of 12/31/03 – 12/31/18. Annualized volatility is calculated as the standard deviation of quarterly returns multiplied by the square root of 4. Please see disclosure page at end for index definitions. All data represents total return for stated period. Past performance is not indicative of future returns.

Guide to the Markets – U.S. Data are as of June 30, 2019.

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The background of the slide is a grayscale image of a globe, showing latitude and longitude lines. A large, semi-transparent teal rectangle is overlaid on the center of the globe. Inside this rectangle, the text "Section II" and "Investment Summary" is written in white, bold, sans-serif font.

Section II

Investment Summary

Executive Summary and Observations

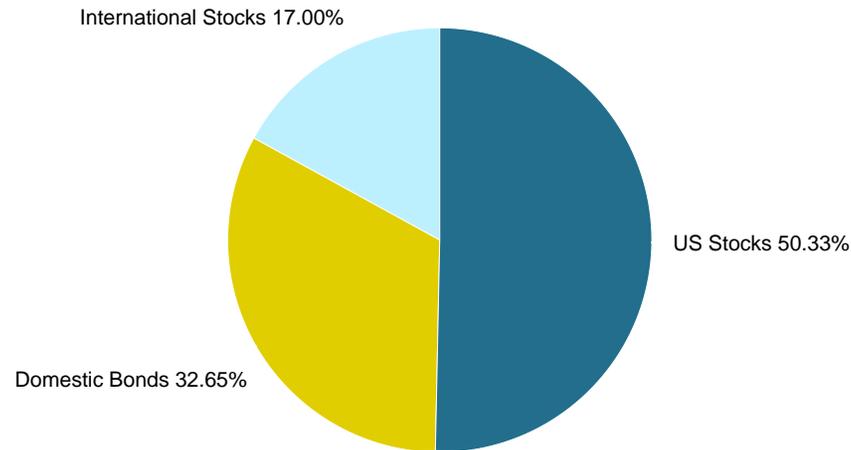
- Assets total \$78,372,929 at June 30, 2019, up from \$75,697,618 at March 31, 2019.
- No trade activity during the quarter.
- For the quarter, the net total return was 3.53% compared to the index based custom benchmark of 3.52% and the peer group custom benchmark of 3.20%. Relative to the custom index benchmark, out-performance resulted from Baird Core Plus, Metropolitan West Total Return, and Vanguard High Yield Corporate.
- For the past 12 months, the net total return was 7.22%, slightly beating the index-based custom benchmark return of 7.14%, due in part to Baird Core Plus, Metropolitan West Total Return, and Vanguard High Yield. Dividend tax impacts on international holdings caused a mild drag vs. the fund's benchmark. The return for the portfolio also beat the the peer-group custom benchmark return of 6.00%.
- The portfolio is heavily allocated to index funds, leading to a low overall expense ratio of 0.13%.
- The three actively scored funds by SageView all score in the top decile or top quartile of rankings, while all index funds receive a pass rating.



Asset Allocation by Fund

As of 06/30/2019

Fund	% of Plan Assets	Total Assets
Vanguard Institutional Index I	43.19%	\$33,851,109.37
Baird Core Plus Bond Inst	14.92%	\$11,696,961.99
Vanguard Developed Markets Index Instl	13.59%	\$10,648,532.13
Metropolitan West Total Return Bd I	8.91%	\$6,986,472.26
Vanguard Extended Market Index Admiral	7.14%	\$5,592,135.88
Vanguard High-Yield Corporate Adm	5.98%	\$4,687,176.67
Vanguard Emerging Mkts Stock Idx Adm	3.42%	\$2,676,456.87
Vanguard Short-Term Corp Bd Idx Admiral	2.83%	\$2,214,871.63
Fidelity® Government Cash Reserves	0.02%	\$19,212.98
Total Market Value:	100.00%	\$78,372,929.78



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Portfolio Allocation versus Target

As of 06/30/2019

Ticker	Fund	Amount	6/30/2019	
			Actual	Target
FDRXX	Fidelity Government Cash Reserves	\$19,213	0.02%	0.00%
VSCSX	Vanguard Short Term Corporate Bond Index Admiral	\$2,214,872	2.83%	3.00%
BCOIX	Baird Core Plus Institutional	\$11,696,962	14.92%	15.00%
MWTIX	Metropolitan West Total Return I	\$6,986,472	8.91%	9.00%
VWEAX	Vanguard High Yield Corporate Admiral	\$4,687,177	5.98%	6.00%
	Total Fixed Income	\$25,604,696	32.67%	33.00%
VINIX	Vanguard Institutional Index	\$33,851,109	43.19%	43.00%
VEXAX	Vanguard Extended Market Index Admiral	\$5,592,136	7.14%	7.00%
VTMNX	Vanguard Developed Markets Index Institutional	\$10,648,532	13.59%	14.00%
VEMAX	Vanguard Emerging Markets Index Admiral	\$2,676,457	3.42%	3.00%
	Total Equity	\$52,768,234	67.33%	67.00%
	Total Portfolio	\$78,372,930	100.00%	100.00%

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Fund Performance Summary

As of 06/30/2019

Fund Benchmark Category	Asset Class	(%) of Plan	3 Month	YTD	1 Year	3 Years Annualized	5 Years Annualized	10 Years Annualized	Expense Ratio	SageView Ranking
Fidelity® Government Cash Reserves	Money Market-Taxable	0.02%	0.52	1.05	1.95	1.07	0.65	0.35	0.38	NA
ICE BofAML US 3M Trsy Bill TR USD*			0.64	1.24	2.31	1.38	0.87	0.49		
Cat: Morningstar Money Market - Taxable			0.49	0.99	1.84	0.98	0.60	0.30	0.47	
Vanguard Short-Term Corp Bd Idx Admiral	Short-Term Bond	2.83%	2.04	4.75	6.24	2.53	2.42	NA	0.07	Pass
BBgBarc Credit 1-5 Yr TR USD*			2.06	4.50	6.13	2.47	2.36	3.44		
Cat: Morningstar Short-Term Bond			1.48	3.20	4.19	1.97	1.60	2.51	0.73	
Baird Core Plus Bond Inst	Intermediate Core-Plus Bond	14.92%	3.23	7.05	8.39	3.23	3.52	5.53	0.30	TOP DEC
BBgBarc US Agg Bond TR USD*			3.08	6.11	7.87	2.31	2.95	3.90		
Cat: Morningstar Intermediate Core-Plus Bond			2.93	6.40	7.35	2.95	2.84	4.82	0.78	
Metropolitan West Total Return Bd I	Intermediate Core-Plus Bond	8.91%	3.20	6.50	8.17	2.66	2.92	5.87	0.45	TOP QUAR
BBgBarc US Agg Bond TR USD*			3.08	6.11	7.87	2.31	2.95	3.90		
Cat: Morningstar Intermediate Core-Plus Bond			2.93	6.40	7.35	2.95	2.84	4.82	0.78	
Vanguard High-Yield Corporate Adm	High Yield Bond	5.98%	3.15	10.98	8.98	6.71	4.80	8.36	0.13	TOP DEC
ICE BofAML US High Yield TR USD*			2.57	10.16	7.58	7.54	4.70	9.22		
Cat: Morningstar High Yield Bond			2.29	8.80	6.20	6.31	3.48	7.95	1.00	
Vanguard Institutional Index I	Large Blend	43.19%	4.30	18.54	10.39	14.15	10.68	14.68	0.04	Pass
S&P 500 TR USD*			4.30	18.54	10.42	14.19	10.71	14.70		
Cat: Morningstar Large Blend			3.82	17.22	8.22	12.51	8.74	13.24	0.90	
Vanguard Extended Market Index Admiral	Mid-Cap Blend	7.14%	3.04	19.49	2.04	13.16	7.80	14.66	0.07	Pass
S&P Completion TR USD*			3.02	19.49	1.88	13.05	7.69	14.55		
Cat: Morningstar Mid-Cap Blend			3.04	17.52	2.41	9.98	6.04	12.87	1.01	
Vanguard Developed Markets Index Instl	Foreign Large Blend	13.59%	3.27	13.85	0.01	8.86	2.55	7.08	0.05	Pass
FTSE Dv Ex US TR USD*			3.66	14.24	0.95	9.55	2.69	7.33		
Cat: Morningstar Foreign Large Blend			2.98	13.58	-0.05	8.13	2.03	6.44	0.98	
Vanguard Emerging Mkts Stock Idx Adm	Diversified Emerging Mkts	3.42%	0.93	12.36	3.45	9.33	2.31	5.57	0.14	Pass
FTSE EMs AC China A Incl (US RIC) NR USD*			0.84	12.19	3.01	9.40	2.70	5.99		
Cat: Morningstar Diversified Emerging Mkts			1.57	12.06	1.16	8.92	1.71	5.81	1.28	

***Investment Policy Benchmark**

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Investment Discussion Summary - Current Investments

Fund Name % of Plan Assets Category	Comment Date	Comments
Baird Core Plus Bond Inst 14.92 Intermediate Core-Plus Bond	06/30/2019	<p>Performance Update (6/30/2019): The fund outperformed the Bloomberg Barclays U.S. Universal Bond Index in 2. An overweight to investment grade credit, particularly an overweight to BBB rated bonds contributed to performance over the quarter as investment grade spreads tightened. Positioning in securitized sectors and along the yield curve also added to performance. The underweight to high yield and emerging market debt, which performed well over the quarter were a drag on returns. The fund beat the benchmark over the trailing 1 year. Positive performance was driven by the investment grade credit and BBB overweight throughout the year.</p> <p>Strategy Summary: The fund utilizes a duration neutral approach relative to the benchmark. Typically, portfolio managers hope to generate the most excess return (about 40% of alpha) through security selection, then sector allocation (30% of alpha), yield curve positioning (25% of alpha), and lastly trade execution (5% of alpha). Credit analysts first determine which issuers appear to offer the best value within each sector. Only US dollar denominated securities are utilized in this fund with no use of derivative securities. The prospectus benchmark for the strategy is the BBGBarclays US Universal Index. The standard category benchmark is the BBGBarclays US Aggregate Bond Index. Fund comments are relative to the prospectus benchmark.</p>
Metropolitan West Total Return Bd I 8.91 Intermediate Core-Plus Bond	06/30/2019	<p>Performance Update (6/30/2019): The fund outperformed the return of the Bloomberg Barclays US Aggregate Bond Index in Q2. The manager lengthened duration relative to the benchmark in 2018 which benefitted performance in the first quarter as yields declined. A defensive posture with an underweight to tech and cyclical weighed on returns but were balanced by solid gains in communications and non cyclical. Over the trailing 1 year the fund beat the benchmark. The funds duration positioning relative to the index as well as an underweight to industrial credit one of the worst performing sectors over the last 12 months were key drivers.</p> <p>Strategy Summary: The MetWest Total Return fund applies a long term value discipline while emphasizing fundamental bottom up research, which represents the most important facet of portfolio construction process. The core of the investment process is a long term economic outlook, which is determined by the generalist investment team on a quarterly basis and reviewed constantly. The portfolio construction process is made up of five strategies that include: 1) duration management, 2) yield curve positioning, 3) sector allocation, 4) security selection, and 5) opportunistic ideas. The prospectus benchmark for the strategy is the BBGBarc US Agg Bond Index.</p>

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Investment Discussion Summary - Current Investments

Fund Name % of Plan Assets Category	Comment Date	Comments
Vanguard High-Yield Corporate Adm 5.98 High Yield Bond	06/30/2019	<p>Performance Update (6/30/2019): The fund outperformed its benchmark for the quarter and for the 12 month period. The second quarter of 2019 saw a continuation from the the first quarter in both market sentiment and performance. While the lower quality sub-B, out-of-benchmark allocation did boost relative performance, the bigger driver was positive security selection across the quality spectrum. Security selection was strongest among financial institutions and in health care as a few issuers rebounded after being hit hard in the previous quarter. For the 12 month period, strong selection within, and underweight to, the energy sector was a bright spot.</p> <p>Strategy Summary: The Fund invests primarily in a diversified group of high yielding, higher risk corporate bonds with medium and lower range credit quality ratings. The Fund invests at least 80% of its assets in corporate bonds that are rated below Baa by Moody's. The Fund may not invest more than 20% of its assets in any of the following, in the aggregate: bonds with credit ratings lower than B or the equivalent, convertible securities, preferred stocks, and fixed and floating rate loans of medium to lower range credit quality. The standard category benchmark is the BB Barclays US Corporate High Yield Bond Index. Fund comments are relative to the prospectus benchmark.</p>

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IPS Historical Ranking

Fund Name	09/2016	12/2016	03/2017	06/2017	09/2017	12/2017	03/2018	06/2018	09/2018	12/2018	03/2019	06/2019
Fidelity® Government Cash Reserves	NA	NA	NA									
Vanguard Short-Term Corp Bd Idx Admiral	Pass	Pass	Pass									
Baird Core Plus Bond Inst	TOP DEC	TOP DEC	TOP DEC									
Metropolitan West Total Return Bd I	TOP DEC	TOP QUAR	TOP QUAR	TOP DEC	TOP QUAR							
Vanguard High-Yield Corporate Adm	TOP QUAR	TOP DEC	TOP DEC									
Vanguard Institutional Index I	Pass	Pass	Pass									
Vanguard Extended Market Index Admiral	Pass	Pass	Pass									
Vanguard Developed Markets Index Instl	Pass	Pass	Pass									
Vanguard Emerging Mkts Stock Idx Adm	Pass	Pass	Pass									

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Fund Score Summary

Fund Name	Ticker	Total Return Composite Ranking	Rolling 12 Mo Perf. (5 Yrs.)	Rolling 36 Mo Perf. (10 Yrs.)	RSquared (3 Yrs)	Sharpe Ratio (60 Mos.)	Alpha (60 Mos.)	Up Capture Ratio (5 Yrs.)	Down Capture Ratio (5 Yrs.)	Expense Ratio	SageView Normalized Ranking
Baird Core Plus Bond Inst	BCOIX	17%	28%	25%	11%	15%	19%	8%	50%	5%	3%
Metropolitan West Total Return Bd I	MWTIX	41%	48%	27%	1%	37%	51%	46%	35%	17%	25%
Vanguard High-Yield Corporate Adm	VWEAX	19%	37%	40%	48%	9%	9%	47%	19%	2%	7%

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Baird Core Plus Bond Inst

BCOIX

Ranking Vs. Peers - Intermediate Core-Plus Bond

June 30, 2019

Intermediate Core-Plus Bond Universe: 748 Funds

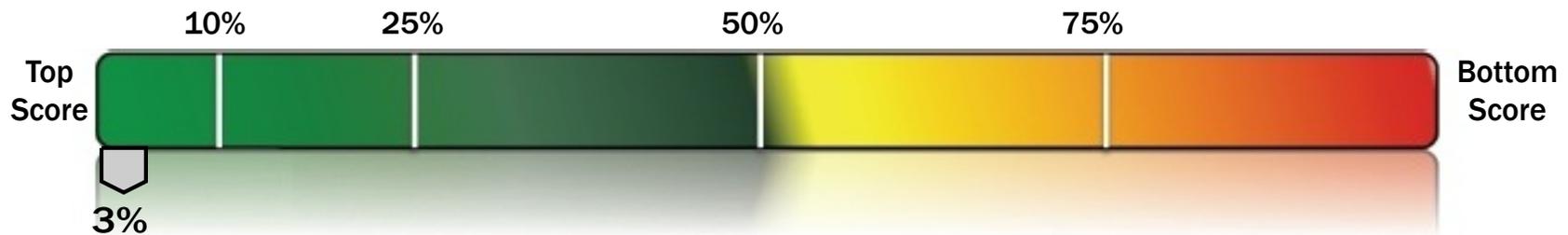
Performance Ranking		Ranking
Total Return Composite Ranking		16.95%
10 Year	17.00%	
5 Year	11.00%	
3 Year	30.00%	
1 Year	13.00%	
Rolling 12 Month - 5 Years		27.83%
Rolling 36 Month - 10 Years		24.72%

Ratio Statistics		Ranking
Sharpe Ratio - 60 Months		15.00%
Alpha - 60 Months		19.00%
Up Capture Ratio - 5 years		8.00%
Down Capture Ratio - 5 years		50.00%

Fund Expense		Ranking
Expense Ratio	0.3	5.00%

Style Consistency		Ranking
Style Consistency to Benchmark		
BBgBarc US Agg Bond TR USD	R2	11.00%

SageView Normalized Ranking	
SageView Normalized Ranking	3.00%
STATUS	TOP DECILE



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Metropolitan West Total Return Bd I

MWTIX

Ranking Vs. Peers - Intermediate Core-Plus Bond

June 30, 2019

Intermediate Core-Plus Bond Universe: 748 Funds

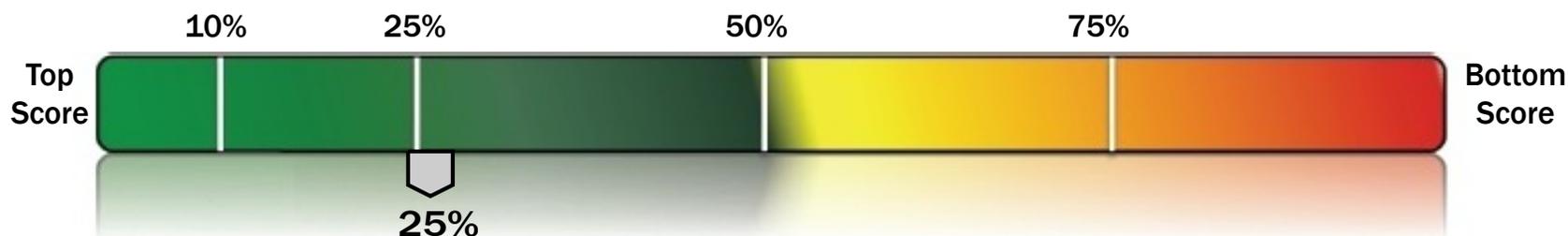
Performance Ranking		Ranking
Total Return Composite Ranking		40.95%
10 Year	10.00%	
5 Year	46.00%	
3 Year	63.00%	
1 Year	20.00%	
Rolling 12 Month - 5 Years		48.48%
Rolling 36 Month - 10 Years		27.03%

Ratio Statistics		Ranking
Sharpe Ratio - 60 Months		37.00%
Alpha - 60 Months		51.00%
Up Capture Ratio - 5 years		46.00%
Down Capture Ratio - 5 years		35.00%

Fund Expense		Ranking
Expense Ratio	0.45	17.00%

Style Consistency		Ranking
Style Consistency to Benchmark		
BBgBarc US Agg Bond TR USD	R2	1.00%

SageView Normalized Ranking	
SageView Normalized Ranking	25.00%
STATUS	TOP QUARTILE



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Vanguard High-Yield Corporate Adm

VWEAX

Ranking Vs. Peers - High Yield Bond

June 30, 2019

High Yield Bond Universe: 755 Funds

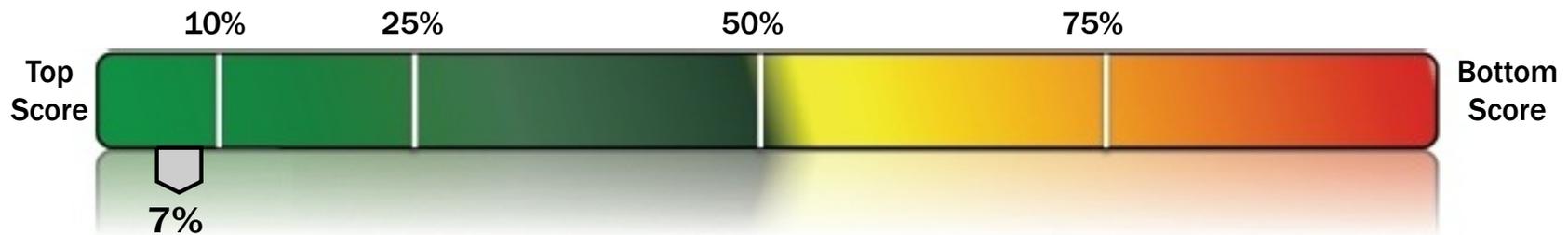
Performance Ranking		Ranking
Total Return Composite Ranking		19.40%
10 Year	37.00%	
5 Year	7.00%	
3 Year	41.00%	
1 Year	3.00%	
Rolling 12 Month - 5 Years		36.52%
Rolling 36 Month - 10 Years		40.38%

Ratio Statistics	Ranking
Sharpe Ratio - 60 Months	9.00%
Alpha - 60 Months	9.00%
Up Capture Ratio - 5 years	47.00%
Down Capture Ratio - 5 years	19.00%

Fund Expense	Ranking
Expense Ratio	0.13
	2.00%

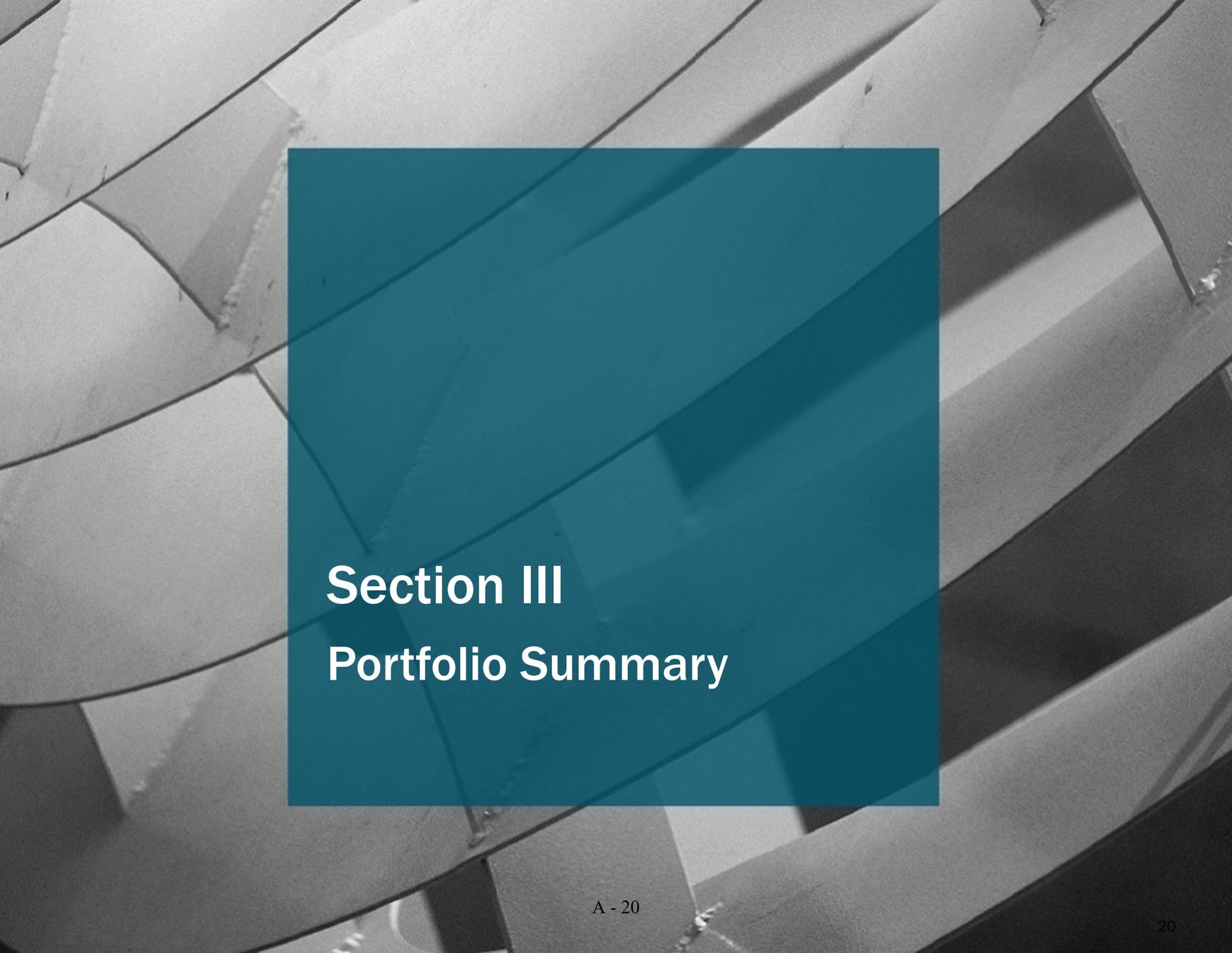
Style Consistency		Ranking
Style Consistency to Benchmark		
BBgBarc US HY 2% Issuer Cap TR USD	R2	48.00%

SageView Normalized Ranking	
SageView Normalized Ranking	7.00%
STATUS	TOP DECILE



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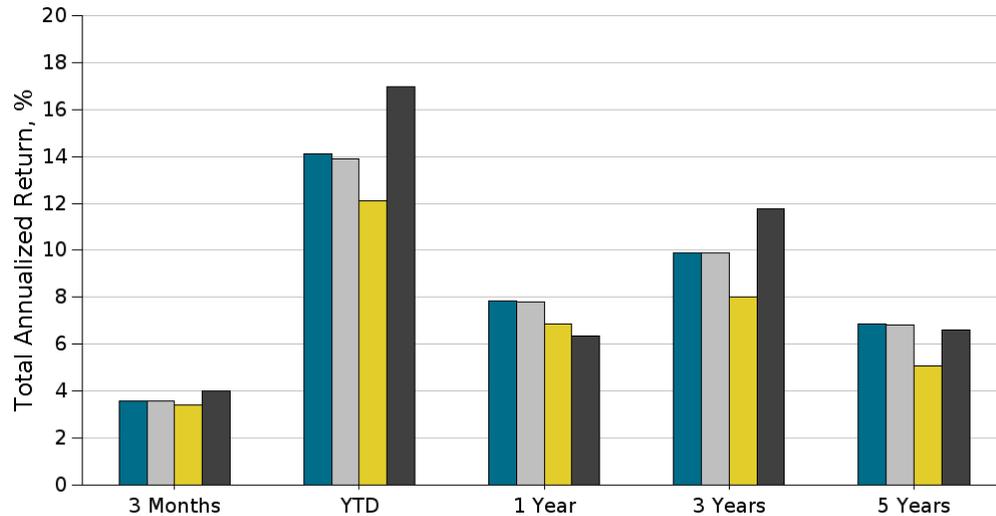
Section III

Portfolio Summary

Portfolio Return vs. Custom Benchmark

As of 06/30/2019

Performance As Of June 30, 2019	3 Month	YTD	1 Year	3 Year	5 Year	Std Dev 5 Yr	Prospectus Exp Ratio
Irvine Ranch Water District Post-Employment Benefits Trust	3.53	13.83	7.22	NA	NA	8.28	0.13
Irvine Ranch Water District Post-Employment Benefits Trust Custom Benchmark	3.52	13.67	7.14	9.68	6.83	8.24	NA
Irvine Ranch Water District Post-Employment Benefits Trust Custom Category Averages Benchmark	3.20	13.09	6.00	8.66	5.47	9.49	0.90
Institutional Portfolio 60-30-10	3.39	12.10	6.85	8.00	5.07	7.01	NA
MSCI World NR USD	4.00	16.98	6.33	11.77	6.60	11.71	NA



- Irvine Ranch Water District Post-Employment Benefits Trust
- Irvine Ranch Water District Post-Employment Benefits Trust Custom Benchmark
- Institutional Portfolio 60-30-10
- MSCI World NR USD

¹Industry Average Exp Ratio 0.89%. Based on plan assets \$50Mil+

Benchmark	Weight
S&P 500 TR USD	43.19%
BBgBarc US Agg Bond TR USD	23.84%
FTSE Dv Ex US TR USD	13.59%
S&P Completion TR USD	7.14%
ICE BofAML US High Yield TR USD	5.98%
FTSE EMs AC China A Incl (US RIC) NR USD	3.42%
BBgBarc Credit 1-5 Yr TR USD	2.83%
ICE BofAML US 3M Trsy Bill TR USD	0.02%

⁴Industry Average Expense Ratio Source: 401(k) Averages Book, 18th Edition, published by HR Investment Consultants

The Institutional Portfolio 60-30-10 consists of 60% MSCI World NR USD, 30% BBgBarc US Agg Bond TR USD and 10% ICE BofAML US 3M Trsy Bill TR USD

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Management Style Analysis

As of 06/30/2019

Domestic Equity Style Box

	VALUE	BLEND	GROWTH
LARGE CAP		<ul style="list-style-type: none"> Vanguard Institutional Index I(\$102.79 bn) 	
MID CAP		<ul style="list-style-type: none"> Vanguard Extended Market Index Admiral (\$4.37 bn) 	
SMALL CAP			

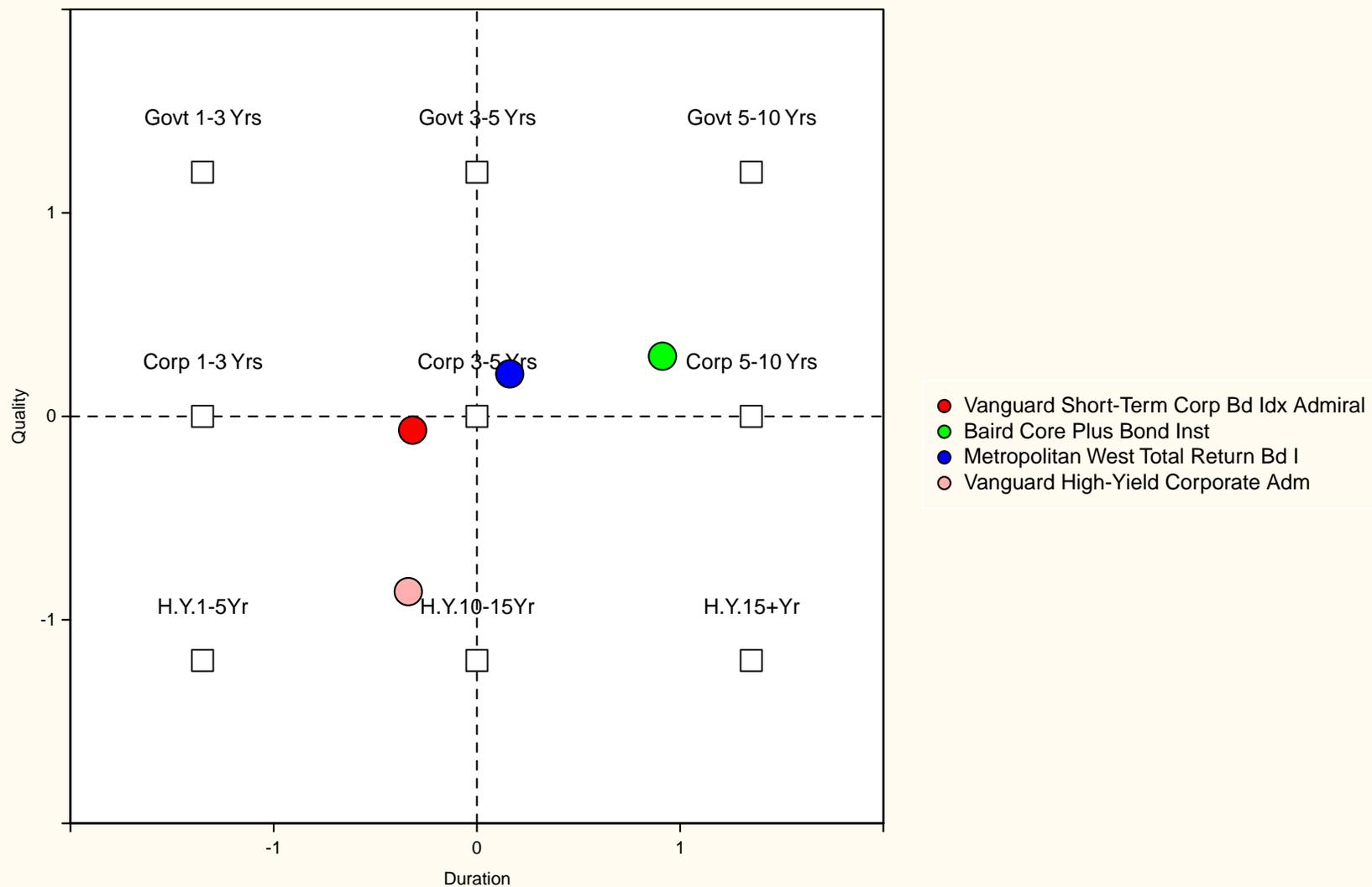
Average Market Cap. listed in parentheses

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Manager Style Box

Fixed Income - Single Computation
July 2009 - June 2019

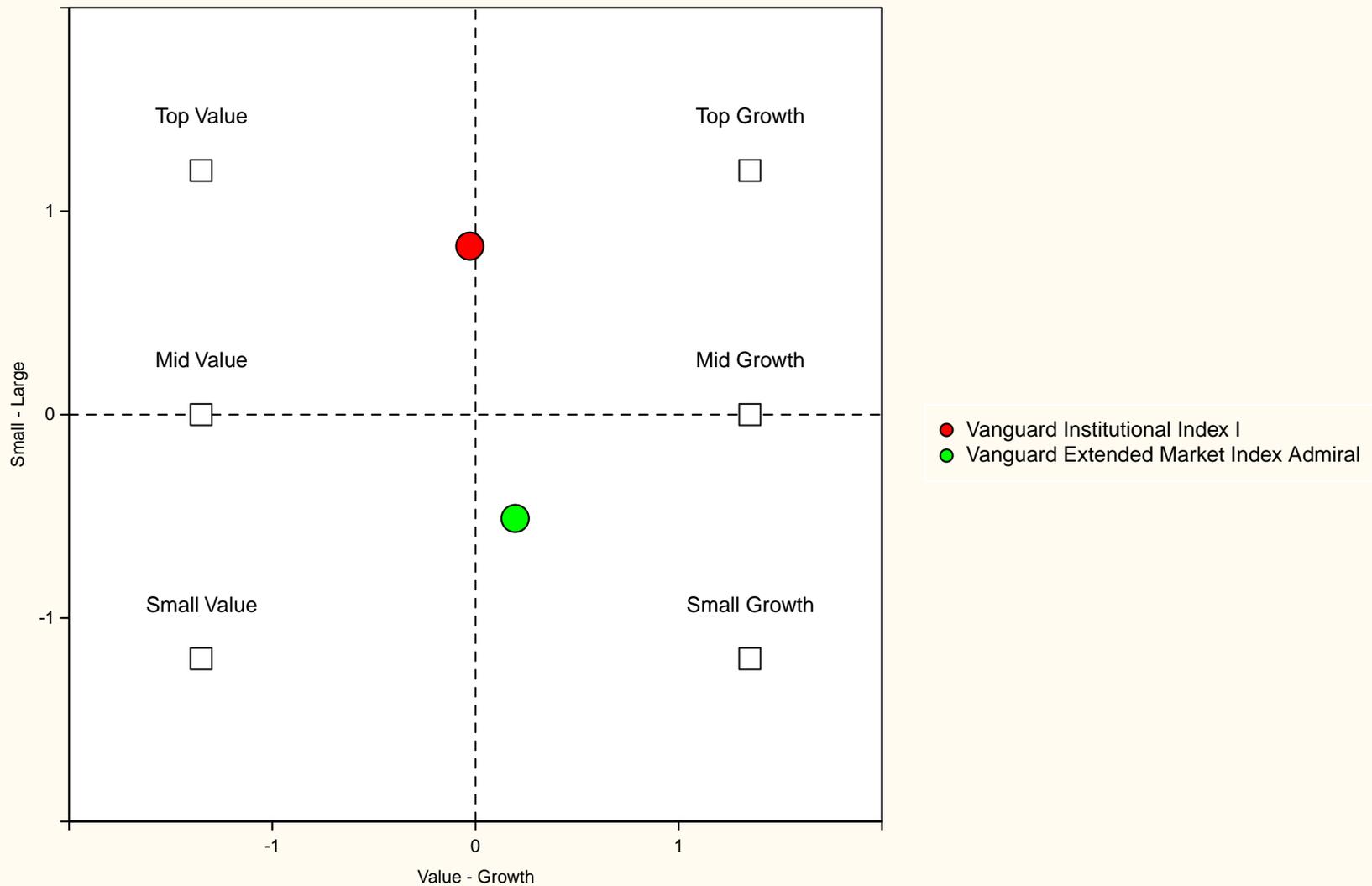


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Manager Style Box

Equity - Single Computation
July 2009 - June 2019

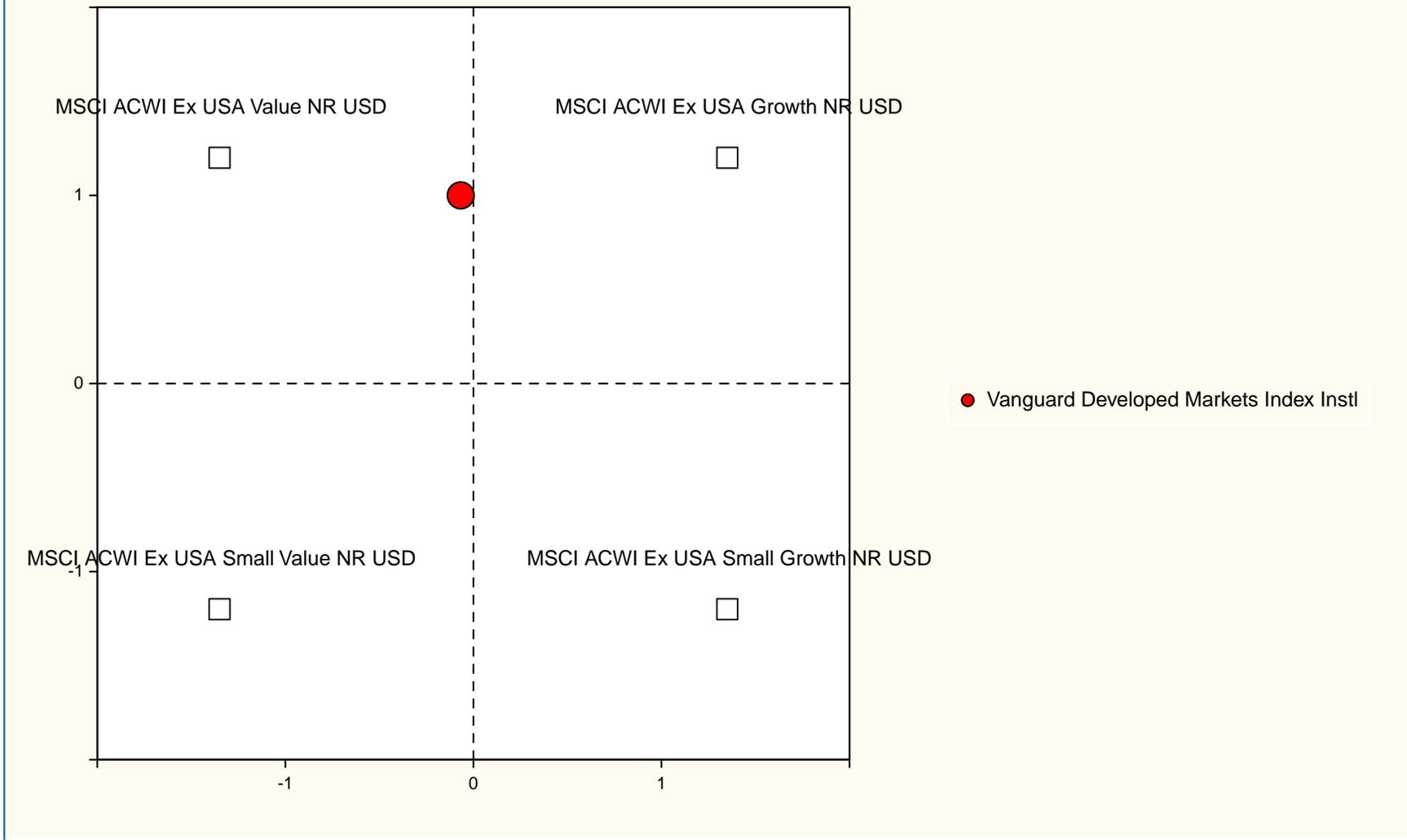


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Manager Style Box

International Equity - Single Computation
July 2009 - June 2019

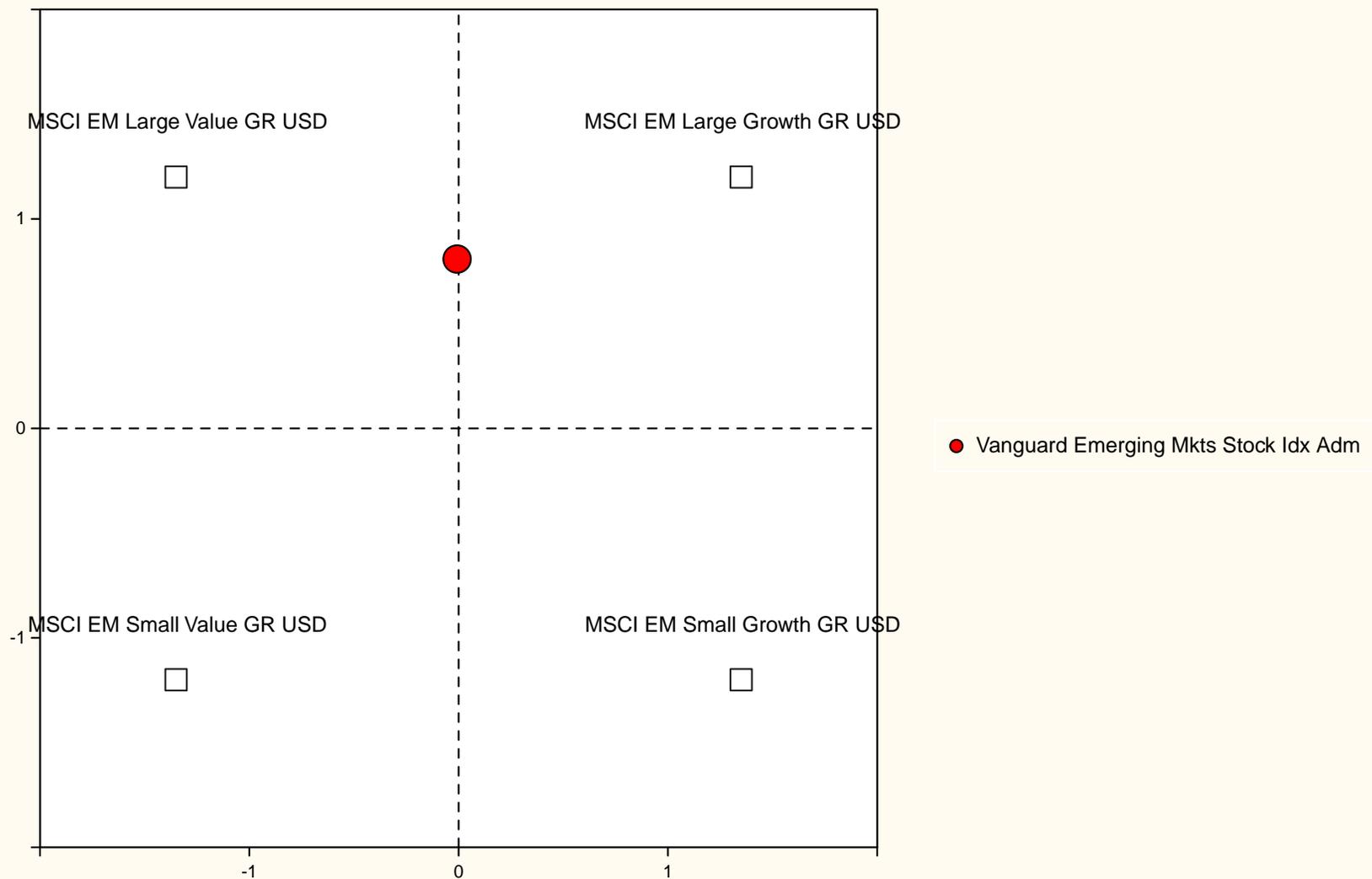


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Manager Style Box

Emerging Market - Single Computation
July 2009 - June 2019



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Section IV
Appendix

Quarterly Investment Analysis Criteria

All active plan investment options are reviewed quarterly against their peer group and index benchmark to determine the performance and quality of each offering. Each are evaluated using the following criteria:

1. Trailing 1, 3, 5 and 10 year returns – Total return is a basic measure of a fund's performance. Investors tend to focus more on total return than any other measure of a fund's success or failure. Fund returns over each period are factored into a weighted average, based on the life of a fund. Recent returns receive a slightly higher weighting, while older returns, which may have been produced under different conditions, are weighted less.
2. Rolling 12-month returns (5 years) – The use of 12-month rolling returns minimizes the problem of end-point sensitivity. To score high, a manager must consistently outperform peers across a variety of market cycles, not just the current cycle.
3. Rolling 36 month returns (10 years) – Using 36-month rolling returns allows us to assess fund returns over longer time segments, thus putting more emphasis on performance across different market cycles.
4. Style Consistency to the appropriate index – We utilize R-squared to assess whether the funds selected for the plan continue to operate and perform as expected within their appropriate asset class. R-squared measures the closeness between a fund's returns and movements in the benchmark. All active funds have some deviation from their benchmark, but excessive deviation could indicate that a fund is drifting away from its stated category mandate.
5. Sharpe Ratio – This is a measure of a fund's risk-adjusted performance. How much additional risk did an investor have to assume to achieve a greater return? The Sharpe Ratio is calculated by dividing the annualized return in excess of the risk free Treasury bill rate by the standard deviation of returns earned over that same time frame. This ratio is an excellent measure for determining whether an investor is being rewarded for taking on additional risk.
6. Alpha – The use of Alpha allows us to gauge the effectiveness of the manager. Alpha is the difference between the portfolio's actual return and its expected return given the funds level of risk as calculated by beta.
7. Up Capture Ratio (5 years) – The up capture ratio calculates the percentage of return of an index that a fund has captured during up market cycles. It tracks the fund's relative performance versus the appropriate index when the index is going up.
8. Down Capture Ratio (5 year) – The down capture ratio calculates the percentage of return of an index a fund has captured during down market cycles. Funds that perform well in this category tend to reduce the downside loss for investors during bear markets.
9. Expense Ratio – All else equal, a lower expense ratio is preferred. The expense ratio is compared as a percentage of the appropriate category average and then given a score based upon that percentage. This rewards low-cost funds and penalizes high-cost funds. Some may (correctly) argue that expense ratios are "double weighted" in our scoring methodology, because performance returns are net of expenses, but fiduciaries are encouraged to carefully manage expenses.

Each fund is benchmarked to a specific market index, and fund performance is evaluated and compared to a relevant peer group using Morningstar category classifications. A fund is given a peer group ranking for each criterion, shown as a percentage. A ranking of 10% indicates a fund is in the top 10% of its peer group for that criterion. The percentage rankings for all criteria are then averaged to give a fund its average ranking score.

The lower the average ranking score the better. For example, a fund with an average ranking score of 25% would in general be a better overall fund than a comparable fund with a ranking score of 50%.

All funds with at least a three year track record are scored in the above manner. A fund is then classified as Top Decile, top Quartile, 2nd Quartile, 3rd Quartile or 4th Quartile based upon the overall score compared to all other funds within that particular asset category.



Passive Investment Options Analysis Criteria

All passive investment options are reviewed quarterly against their peer group and index benchmark to determine the performance and quality of each offering. Each are evaluated using the following criteria:

1. Expense Ratio – The percentage of fund assets, net of reimbursements, used to pay for operating expenses and management fees, including 12b-1 fees, administrative fees, and all other asset-based costs incurred by the fund, except brokerage costs. Fund expenses are reflected in the fund's NAV. Sales charges are not included in the expense ratio. The Prospectus Net Expense Ratio is collected annually from a fund's prospectus.
2. Tracking Error – A measure of the difference in returns between an investment and a benchmark. Tracking error is reported as a standard deviation of the difference between the returns of an investment and its benchmark.
3. R-Squared – A statistical metric that ranges from zero to 100 and measures the percentage of portfolio's performance that is explained by the movement of its benchmark index. R-Squared is helpful in assessing the reliability of alpha and beta in explaining a portfolio risk and return characteristics. An r-squared of 100 would mean that the portfolio's performance movements are perfectly correlated with those of the benchmark over time, and would suggest that alpha and beta may be relied upon with a high degree of confidence.
4. Beta – A measure of the volatility, or systematic risk, of an investment in comparison to a market index as a whole. Beta is calculated using regression analysis. Beta represents the tendency of an investment's returns to respond to moves in the market or index that it's calculated against. A beta of 1 indicates that the investment's price moves with the market. A beta of less than 1 means that the investment is theoretically less volatile than the market. A beta of greater than 1 indicates that the investment's price is theoretically more volatile than the market. The reliability of an investment's beta is a function of the investment's r-squared value in relation to the benchmark. A high r-squared value signifies that the beta measure is reliable, while a low r-squared signifies that it is potentially inaccurate.

Each of the criteria above carries a proprietary weight. An index fund is evaluated and ranked in each of the above criteria relative to their peer group. A fund is given a peer group ranking for each criterion. The percentage rankings for all criteria are then weighted to give a fund its average ranking score.

The raw score is then normalized on a scale of 1 to 100, with 1 being the best and 100 the worst. The top 75% of the funds in a category receive a passing score, while the bottom 25% fail.

