

AGENDA
IRVINE RANCH WATER DISTRICT
POST-EMPLOYMENT BENEFITS TRUST RETIREMENT BOARD
QUARTERLY MEETING
WEDNESDAY, MAY 1, 2019

CALL TO ORDER 12:30 p.m., Committee Room, Second Floor, District Office
15600 Sand Canyon Avenue, Irvine, California

ATTENDANCE Board Member: Peer Swan _____ Board Member: Steve LaMar _____
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 on the table outside of the Committee Room. 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 February 5, 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 MARCH 31, 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.

May 1, 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 February 5, 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 FEBRUARY 5, 2019 BOARD MEETING OF THE IRVINE RANCH WATER DISTRICT RETIREMENT BOARD BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – February 5, 2019 Minutes

EXHIBIT “A”

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

February 5, 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 12:30 p.m. on February 5, 2019 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: Chairman Peer Swan, Vice Chairman Steve La Mar, 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 November 6, 2018 meeting.

On MOTION by Cook, seconded by Swan and affirmed by Steve La Mar, the minutes of the November 6, 2018 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 12/31/2018. 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 was the following:
 - As of December 31, 2018, the IRWD Post-Retirement Benefits Trust market value was \$68,847,992, down from \$75,919,891, at September 30, 2018.
 - For the quarter, the net total return was -9.31%. This closely tracked the custom benchmark return of -9.35%, with outperformance from the Vanguard High Yield Corporate bond fund offsetting slight underperformance the Baird Core Plus and Metropolitan West Total Return funds.

- For the trailing twelve months, the total return was -5.57%, closely in line with the custom benchmark return of -5.36%, and ahead of the peer group custom benchmark return of -6.54%.
- 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 fourth quarter.

ADJOURNMENT

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

APPROVED and SIGNED this 1st day of May 2019.

Board Member, IRVINE RANCH WATER DISTRICT
RETIREMENT BOARD

Secretary, IRVINE RANCH WATER DISTRICT
RETIREMENT BOARD

May 1, 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 MARCH 31, 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 March 31, 2019; and provide an update on current market conditions and any recommended portfolio changes.

BACKGROUND:

Quarterly Investment Review:

As of March 31, 2019, the IRWD Post-Retirement Benefits Trust market value was \$75,697,618, which is a net increase of \$6,849,626 from the quarter ended December 31, 2018. The change is primarily due to an increase in market value of \$6,320,014, and dividends and capital gains of \$543,424. Trust expenses for the quarter were \$13,812 paid to SageView for investment advisory services. The closing balances and fund returns as of March 31, 2019 are as follows:

Investment	Quarterly Return	Benchmark Index	Morningstar Peer Category	Quarter Ended December 31 2018	Quarter Ended March 31 2019	Incr/(Decr)	Percent of Portfolio
EQUITIES							
Vanguard Institutional Index Fund	13.65%	13.65%	12.94%	\$28,557,074	\$32,456,427	\$3,899,353	42.9%
Vanguard Extended Mkt (small/mid) Index Fund	15.97%	15.99%	13.94%	4,679,880	5,427,315	\$747,435	7.2%
Vanguard Developed Market Index	10.25%	10.21%	10.24%	9,353,306	10,311,599	\$958,293	13.6%
Vanguard Emerging Markets Index	11.33%	11.26%	10.27%	2,387,361	2,657,740	\$270,379	3.5%
FIXED INCOME							
Metropolitan Total Return Bond Fund	3.20%	2.94%	3.13%	6,558,889	6,768,170	\$209,282	8.9%
Baird Core Plus Bond Fund	3.69%	2.94%	3.13%	10,926,798	11,330,485	\$403,687	15.0%
Vanguard High-Yield Corporate Fund	7.59%	7.40%	6.35%	4,218,239	4,542,230	\$323,991	6.0%
Vanguard Short Term Bond Index Admiral	2.65%	2.39%	1.71%	2,146,099	2,187,565	\$41,466	2.9%
CASH-SHORT TERM							
Fidelity Government Cash Reserves	0.53%	0.60%	0.49%	20,346	16,088	(\$4,258)	0.0%
Closing Balance				\$68,847,992	\$75,697,618	\$6,849,626	100.0%

For the quarter ended March 31, 2019, the portfolio return was 9.95%, which slightly outperformed the custom benchmark return of 9.81%. For the one-year period ended March 31, 2019 the return was 5.49%, which trailed the custom benchmark return of 5.64%, but outperformed the peer-group custom benchmark return of 3.42%. The Portfolio Investment Review as of March 31, 2019 is attached as Exhibit "A".

A representative from SageView will present the Portfolio Investment Review for the quarter ended March 31, 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 March 31, 2019, the IRWD Post-Retirement Benefits Trust market value was \$75,697,618, which is a net increase of \$6,849,626 from the quarter ended December 31, 2018. The change is primarily due to an increase in market value of \$6,320,014, and dividends and capital gains of \$543,424. Trust expenses for the quarter were \$13,812 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 March 31, 2019



Plan Investment Review

Irvine Ranch Water District Post-Employment Benefits Trust

For period ending March 31, 2019

SEE
WHERE
YOU'RE
GOING

Jonathan Upham Registered Representative with and securities offered through Cetera Advisor Networks LLC, member FINRA/SIPC
1920 Main Street, Suite 800, Irvine, CA 92614 | T 949.955.1395 | SageView is not affiliated with Cetera



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Section I

Market Overview

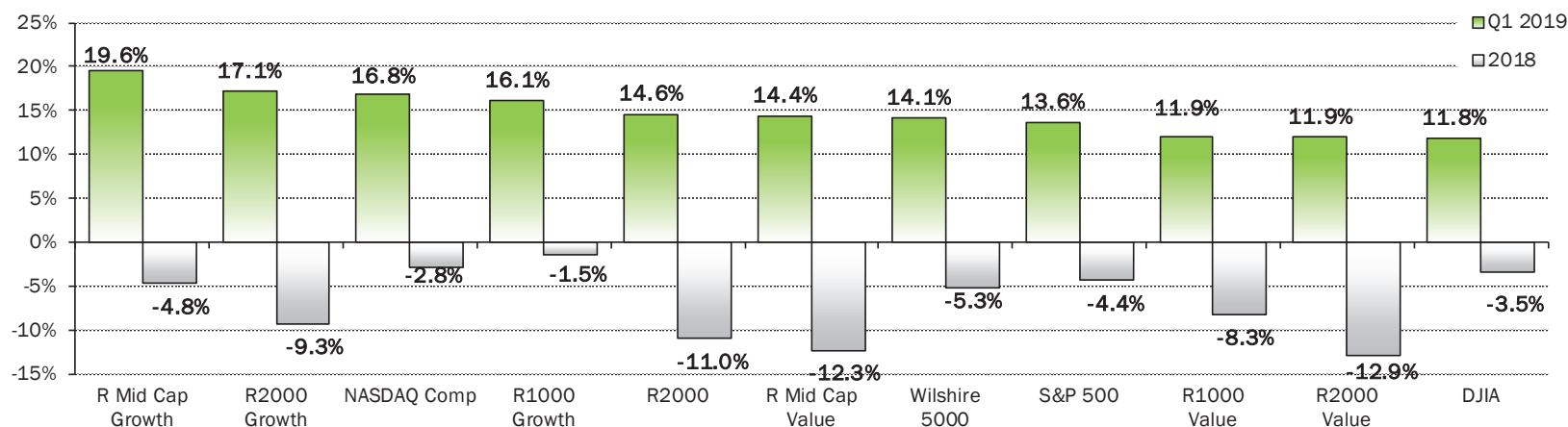
The views are those of SageView Advisory Group and should not be construed as investment advice. All information is believed to be from reliable sources; however, we make no representation as to its completeness or accuracy. All economic and performance information is historical and not indicative of 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 or more information.

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U.S. Equities

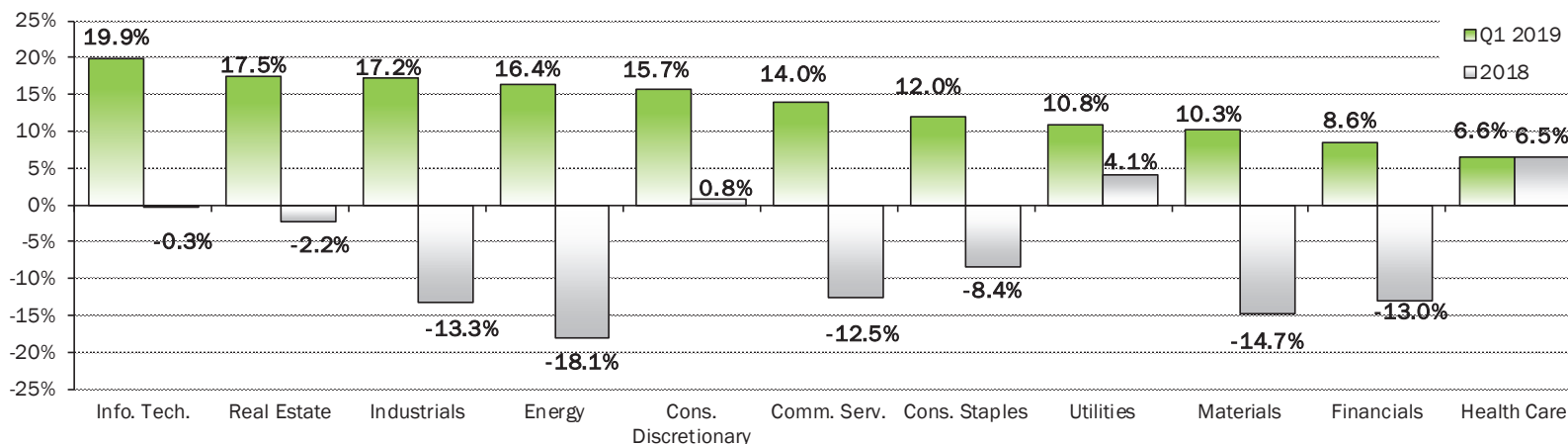
All U.S. equity market sectors and capitalizations posted positive returns in Q1. Growth stocks generally outpaced value stocks for the quarter, but not all growth sectors performed equally well (e.g. Technology vs. Health Care). Economically sensitive stocks, such as Industrials, performed well for Q1, while Financials lagged due to a flattening yield curve.

Performance of Major U.S. Equity Indexes - 2018 and Q1 2019



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

S&P 500 Sector Returns - 2018 and Q1 2019



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

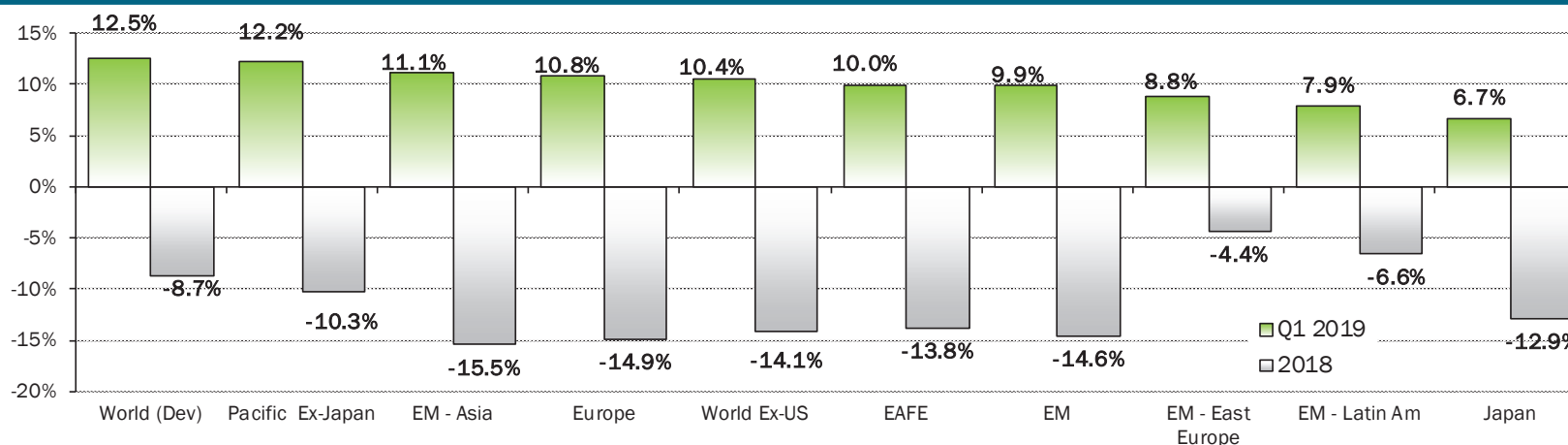
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International Equities

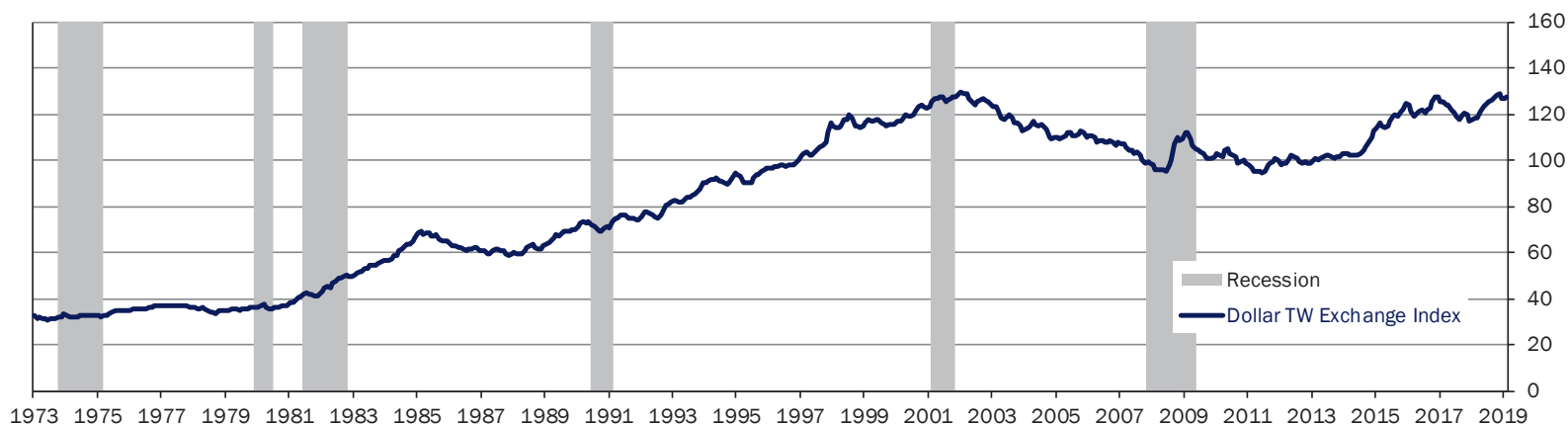
International stock markets also enjoyed strong growth in Q1. Both developed and emerging market stocks produced similar returns for the quarter while underperforming U.S. equities. European markets were resilient in the quarter despite slowing economic data, monetary uncertainty and the overhang of Brexit

International Equity Market Returns - 2018 and Q1 2019



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

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



Source: Bloomberg. Data as of March 31, 2019.

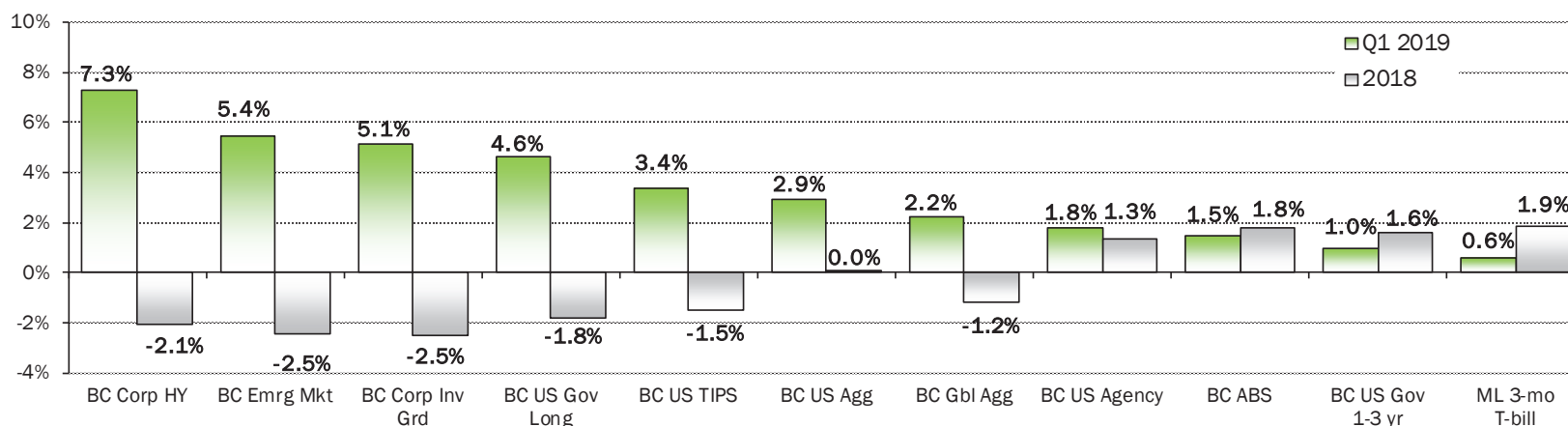
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Fixed Income

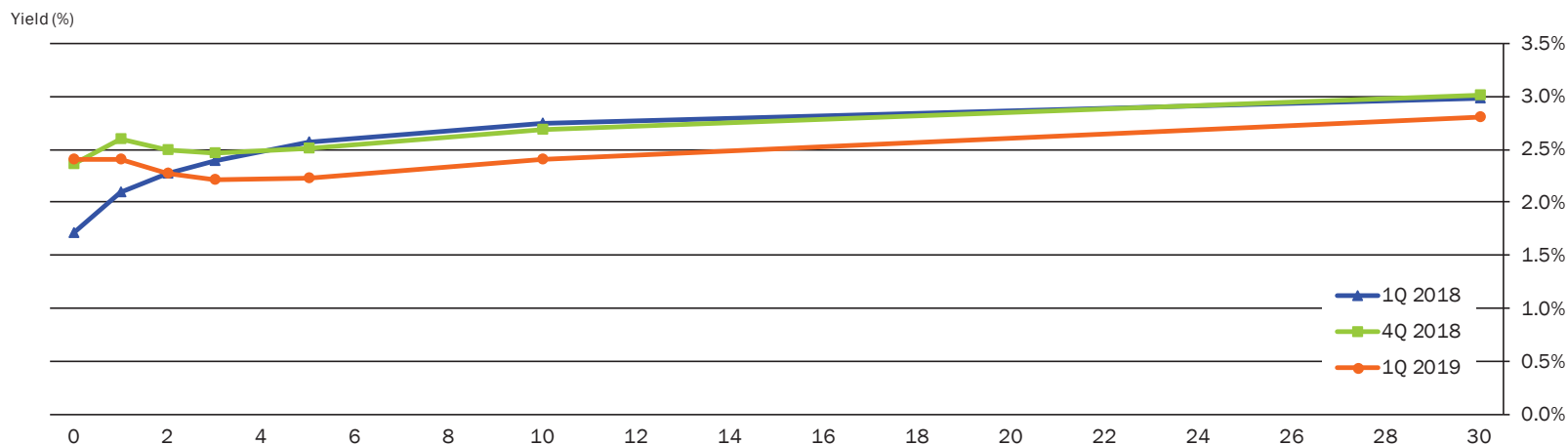
Risk assets were generally in favor in Q1, benefiting fixed income spread sectors. Longer duration debt also performed as the FOMC indicated no further rate hikes are on the horizon for 2019. TIPS lagged as inflation remained subdued. Certain points along the Treasury yield curve remain inverted as of quarter end, signifying caution among bond investors.

Fixed Income Returns - 2018 and Q1 2019



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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Section II

Investment Summary

Executive Summary and Observations

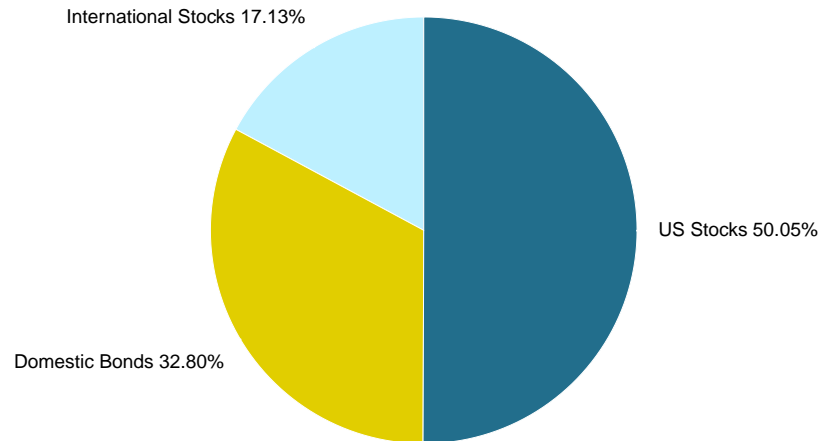
- Assets total \$75,697,618 at March 31, 2019, up from \$68,847,992 at December 31, 2018.
- No trade activity during the quarter.
- For the quarter, the net total return was 9.95% compared to the index-based custom benchmark of 9.81% and the peer-group custom benchmark of 9.31%. Relative to the custom 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 5.49%, slightly trailing the index-based custom benchmark return of 5.64%, due in part to dividend tax impacts on international holdings. The return beat the peer-group custom benchmark return of 3.42%.
- The portfolio is dominated by 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 of rankings, while all index funds receive a pass rating.



Asset Allocation by Fund

As of 03/31/2019

Fund	% of Plan Assets	Total Assets
Vanguard Institutional Index I	42.88%	\$32,456,427.13
Baird Core Plus Bond Inst	14.97%	\$11,330,484.86
Vanguard Developed Markets Index Instl	13.62%	\$10,311,598.96
Metropolitan West Total Return Bd I	8.94%	\$6,768,170.37
Vanguard Extended Market Index Admiral	7.17%	\$5,427,314.50
Vanguard High-Yield Corporate Adm	6.00%	\$4,542,229.66
Vanguard Emerging Mkts Stock Idx Adm	3.51%	\$2,657,739.90
Vanguard Short-Term Corp Bd Idx Admiral	2.89%	\$2,187,564.99
Fidelity® Government Cash Reserves	0.02%	\$16,087.66
Total Market Value:	100.00%	\$75,697,618.03



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Fund Performance Summary

As of 03/31/2019

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%	0.53	0.53	1.78	0.90	0.54	0.31	0.38	NA
ICE BofAML US 3M Trsy Bill TR USD*			0.60	0.60	2.12	1.19	0.74	0.43		
Cat: Morningstar Money Market - Taxable			0.49	0.49	1.66	0.81	0.50	0.26	0.48	
Vanguard Short-Term Corp Bd Idx Admiral	Short-Term Bond	2.89%	2.65	2.65	4.39	2.29	2.19	NA	0.07	Index
BBgBarc Credit 1-5 Yr TR USD*			2.39	2.39	4.27	2.22	2.13	3.85		
Cat: Morningstar Short-Term Bond			1.71	1.71	2.97	1.87	1.45	2.77	0.73	
Baird Core Plus Bond Inst	Intermediate-Term Bond	14.97%	3.69	3.69	4.63	3.14	3.35	5.78	0.30	TOP DEC
BBgBarc US Agg Bond TR USD*			2.94	2.94	4.48	2.03	2.74	3.77		
Cat: Morningstar Intermediate-Term Bond			3.13	3.13	3.98	2.37	2.51	4.56	0.74	
Metropolitan West Total Return Bd I	Intermediate-Term Bond	8.94%	3.20	3.20	4.72	2.26	2.72	6.03	0.45	TOP DEC
BBgBarc US Agg Bond TR USD*			2.94	2.94	4.48	2.03	2.74	3.77		
Cat: Morningstar Intermediate-Term Bond			3.13	3.13	3.98	2.37	2.51	4.56	0.74	
Vanguard High-Yield Corporate Adm	High Yield Bond	6.00%	7.59	7.59	6.04	6.79	4.61	9.49	0.13	TOP DEC
ICE BofAML US High Yield TR USD*			7.40	7.40	5.94	8.69	4.70	11.24		
Cat: Morningstar High Yield Bond			6.35	6.35	4.34	6.97	3.45	9.49	1.01	
Vanguard Institutional Index I	Large Blend	42.88%	13.65	13.65	9.47	13.48	10.88	15.90	0.04	Pass
S&P 500 TR USD*			13.65	13.65	9.50	13.51	10.91	15.92		
Cat: Morningstar Large Blend			12.94	12.94	6.92	11.82	8.92	14.54	0.91	
Vanguard Extended Market Index Admiral	Mid-Cap Blend	7.17%	15.97	15.97	4.95	13.29	7.86	16.59	0.08	Pass
S&P Completion TR USD*			15.99	15.99	4.76	13.17	7.75	16.49		
Cat: Morningstar Mid-Cap Blend			13.94	13.94	2.33	9.67	6.34	14.51	1.01	
Vanguard Developed Markets Index Instl	Foreign Large Blend	13.62%	10.25	10.25	-4.69	7.62	2.75	9.18	0.06	Pass
FTSE Dv Ex US TR USD*			10.21	10.21	-3.58	7.94	2.93	9.51		
Cat: Morningstar Foreign Large Blend			10.24	10.24	-5.01	6.62	2.10	8.43	0.99	
Vanguard Emerging Mkts Stock Idx Adm	Diversified Emerging Mkt	3.51%	11.33	11.33	-6.82	9.84	3.59	8.62	0.14	Pass
FTSE EMs AC China A Incl (US RIC) NR USD*			11.26	11.26	-6.38	9.62	3.99	9.26		
Cat: Morningstar Diversified Emerging Mkt			10.27	10.27	-9.31	9.11	2.61	8.90	1.29	

*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 14.97 Intermediate-Term Bond	03/31/2019	<p>Performance Update (03/31/2019): The fund significantly outperformed the benchmark during the quarter. An overweight to investment grade credit, particularly an overweight to BBB rated bonds boosted performance as spreads tightened and investors sought higher returning sectors of the bond market. Positive contributors included positioning for a flattening in the front end of the yield curve and underweight to high yield and emerging market debt.</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 8.94 Intermediate-Term Bond	03/31/2019	<p>Performance Update (03/31/2019): The fund outperformed its benchmark, the Bloomberg Barclays U.S. Aggregate Index in Q1. Issue selection across several sectors was the biggest positive. An overweight position in financials added as spreads tightened in that sector. Positions in industrial credit were helped by manufacturing, cyclicals, and energy.</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>
Vanguard High-Yield Corporate Adm 6.00 High Yield Bond	03/31/2019	<p>Performance Update (03/31/2019): The fund slightly outperformed its benchmark for the quarter. The primary driver was an allocation to debt rated lower than B. This was a small allocation, but higher than that of the primary benchmark. Also adding to returns was security selection among financial institutions, health care, and pharmaceuticals. Offsetting some of this outperformance was the portfolio's underweight to the energy sector, which rebounded along with oil prices over the quarter.</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 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	06/2016	09/2016	12/2016	03/2017	06/2017	09/2017	12/2017	03/2018	06/2018	09/2018	12/2018	03/2019
Fidelity® Government Cash Reserves	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanguard Short-Term Corp Bd Idx Admiral	Index	Index	Index	Index	Index	Index	Index	Index	Index	Index	Index	Index
Baird Core Plus Bond Inst	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC
Metropolitan West Total Return Bd I	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP QUAR	TOP QUAR	TOP DEC
Vanguard High-Yield Corporate Adm	TOP DEC	TOP QUAR	TOP QUAR	TOP QUAR	TOP QUAR	TOP QUAR	TOP QUAR	TOP QUAR	TOP QUAR	TOP QUAR	TOP QUAR	TOP DEC
Vanguard Institutional Index I	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Vanguard Extended Market Index Admiral	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Vanguard Developed Markets Index Instl	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Vanguard Emerging Mkts Stock Idx Adm	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	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	11%	20%	16%	43%	9%	11%	6%	37%	4%	2%
Metropolitan West Total Return Bd I	MWTIX	28%	36%	18%	4%	25%	34%	39%	25%	15%	9%
Vanguard High-Yield Corporate Adm	VWEAX	29%	40%	40%	55%	10%	10%	53%	18%	2%	10%

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Baird Core Plus Bond Inst

BCOIX

Ranking Vs. Peers - Intermediate-Term Bond

March 31, 2019

Intermediate-Term Bond Universe: 1335 Funds

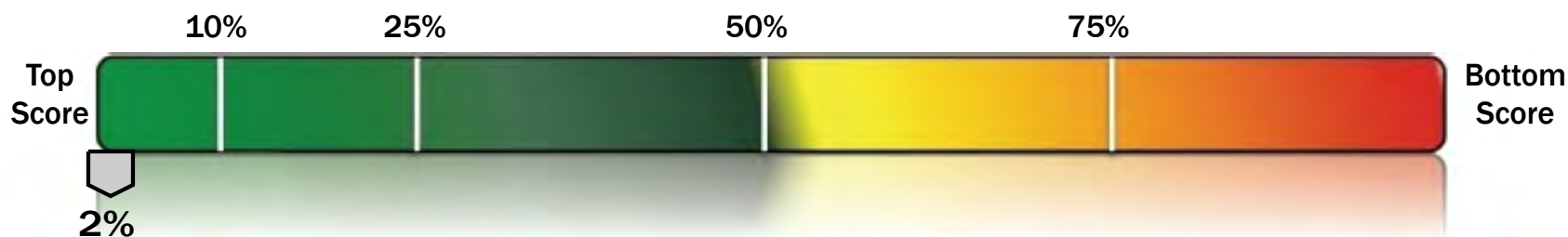
Performance Ranking			Ranking
Total Return Composite Ranking			10.75%
	10 Year	13.00%	
	5 Year	7.00%	
	3 Year	16.00%	
	1 Year	11.00%	
Rolling 12 Month - 5 Years			20.20%
Rolling 36 Month - 10 Years			16.17%

Ratio Statistics		Ranking
Sharpe Ratio - 60 Months		9.00%
Alpha - 60 Months		11.00%
Up Capture Ratio - 5 years		6.00%
Down Capture Ratio - 5 years		37.00%

Fund Expense		Ranking
Expense Ratio	0.3	4.00%

Style Consistency			Ranking
Style Consistency to Benchmark			
BBgBarc US Agg Bond TR USD	R2		43.00%

SageView Normalized Ranking	
SageView Normalized Ranking	2.00%
STATUS	TOP DECILE



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Metropolitan West Total Return Bd I

MWTIX

Ranking Vs. Peers - Intermediate-Term Bond

March 31, 2019

Intermediate-Term Bond Universe: 1335 Funds

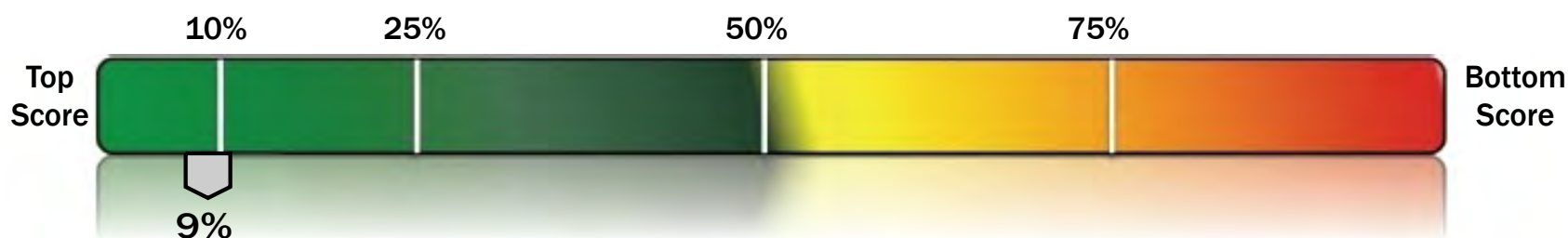
Performance Ranking			Ranking
Total Return Composite Ranking			28.05%
	10 Year	10.00%	
	5 Year	31.00%	
	3 Year	45.00%	
	1 Year	9.00%	
Rolling 12 Month - 5 Years			36.13%
Rolling 36 Month - 10 Years			18.09%

Ratio Statistics		Ranking
Sharpe Ratio - 60 Months		25.00%
Alpha - 60 Months		34.00%
Up Capture Ratio - 5 years		39.00%
Down Capture Ratio - 5 years		25.00%

Fund Expense		Ranking
Expense Ratio	0.45	15.00%

Style Consistency			Ranking
Style Consistency to Benchmark			
BBgBarc US Agg Bond TR USD	R2		4.00%

SageView Normalized Ranking	
SageView Normalized Ranking	9.00%
STATUS	TOP DECILE



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Vanguard High-Yield Corporate Adm

VWEAX

Ranking Vs. Peers - High Yield Bond

March 31, 2019

High Yield Bond Universe: 700 Funds

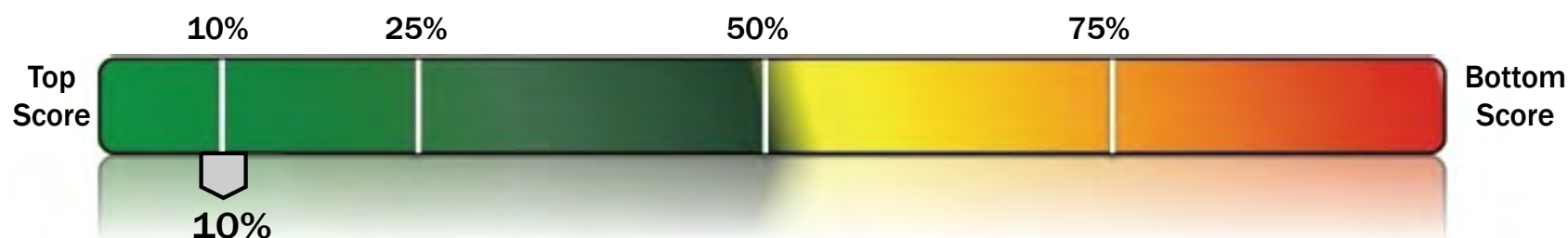
Performance Ranking			Ranking
Total Return Composite Ranking			29.10%
	10 Year	60.00%	
	5 Year	9.00%	
	3 Year	60.00%	
	1 Year	7.00%	
Rolling 12 Month - 5 Years			39.87%
Rolling 36 Month - 10 Years			40.03%

Ratio Statistics		Ranking
Sharpe Ratio - 60 Months		10.00%
Alpha - 60 Months		10.00%
Up Capture Ratio - 5 years		53.00%
Down Capture Ratio - 5 years		18.00%

Fund Expense		Ranking
Expense Ratio	0.13	2.00%

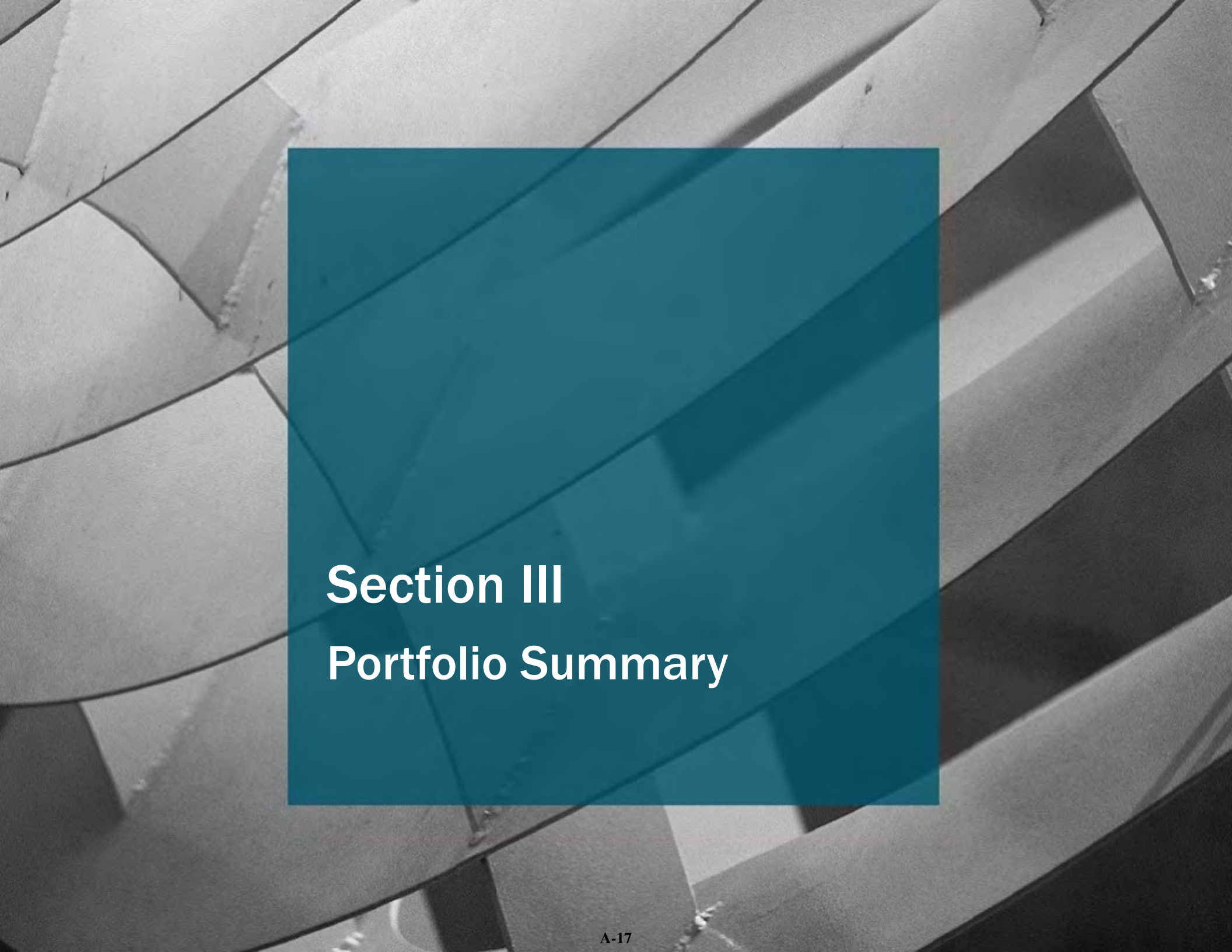
Style Consistency			Ranking
Style Consistency to Benchmark			
BBgBarc US HY 2% Issuer Cap TR USD	R2		55.00%

SageView Normalized Ranking	
SageView Normalized Ranking	10.00%
STATUS	TOP DECILE



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Section III

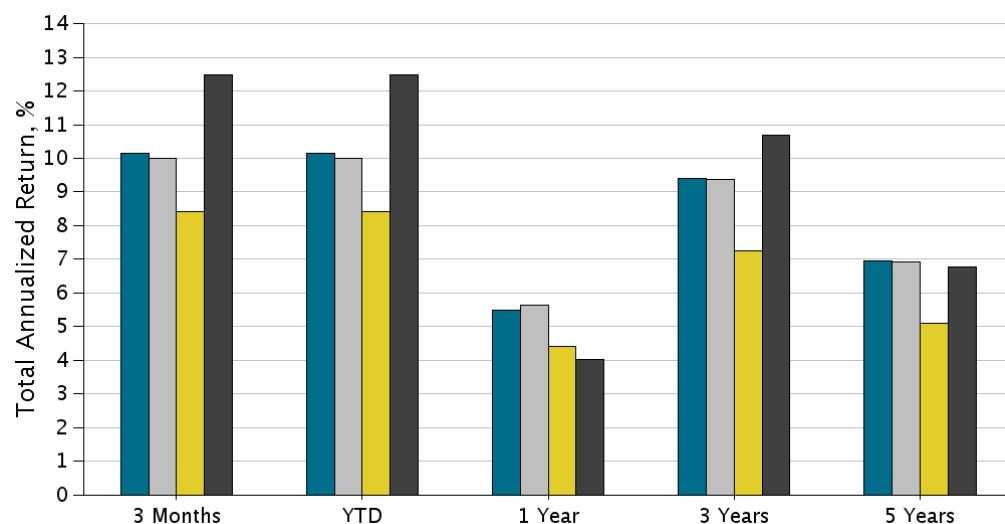
Portfolio Summary

Portfolio Return vs. Custom Benchmark

As of 03/31/2019

Performance As Of March 31, 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	9.95	9.95	5.49	NA	NA	NA	0.13
Irvine Ranch Water District Post-Employment Benefits Trust Custom Benchmark	9.81	9.81	5.64	9.36	6.91	7.72	NA
Irvine Ranch Water District Post-Employment Benefits Trust Custom Category Averages Benchmark	9.31	9.31	3.42	8.02	5.51	8.96	0.90
Institutional Portfolio 60-30-10	8.43	8.43	4.42	7.26	5.10	6.59	NA
MSCI World NR USD	12.48	12.48	4.01	10.68	6.78	10.98	NA

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



- 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

Benchmark	Weight
S&P 500 TR USD	42.88%
BBgBarc US Agg Bond TR USD	23.91%
FTSE Dv Ex US TR USD	13.62%
S&P Completion TR USD	7.17%
ICE BofAML US High Yield TR USD	6.00%
FTSE EMs AC China A Incl (US RIC) NR USD	3.51%
BBgBarc Credit 1-5 Yr TR USD	2.89%
ICE BofAML US 3M Trsy Bill TR USD	0.02%

¹Industry 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 03/31/2019

Domestic Equity Style Box

	VALUE	BLEND	GROWTH
LARGE CAP		<ul style="list-style-type: none"> Vanguard Institutional Index I(\$101.36 bn) 	
MID CAP		<ul style="list-style-type: none"> Vanguard Extended Market Index Admiral (\$4.34 bn) 	
SMALL CAP			

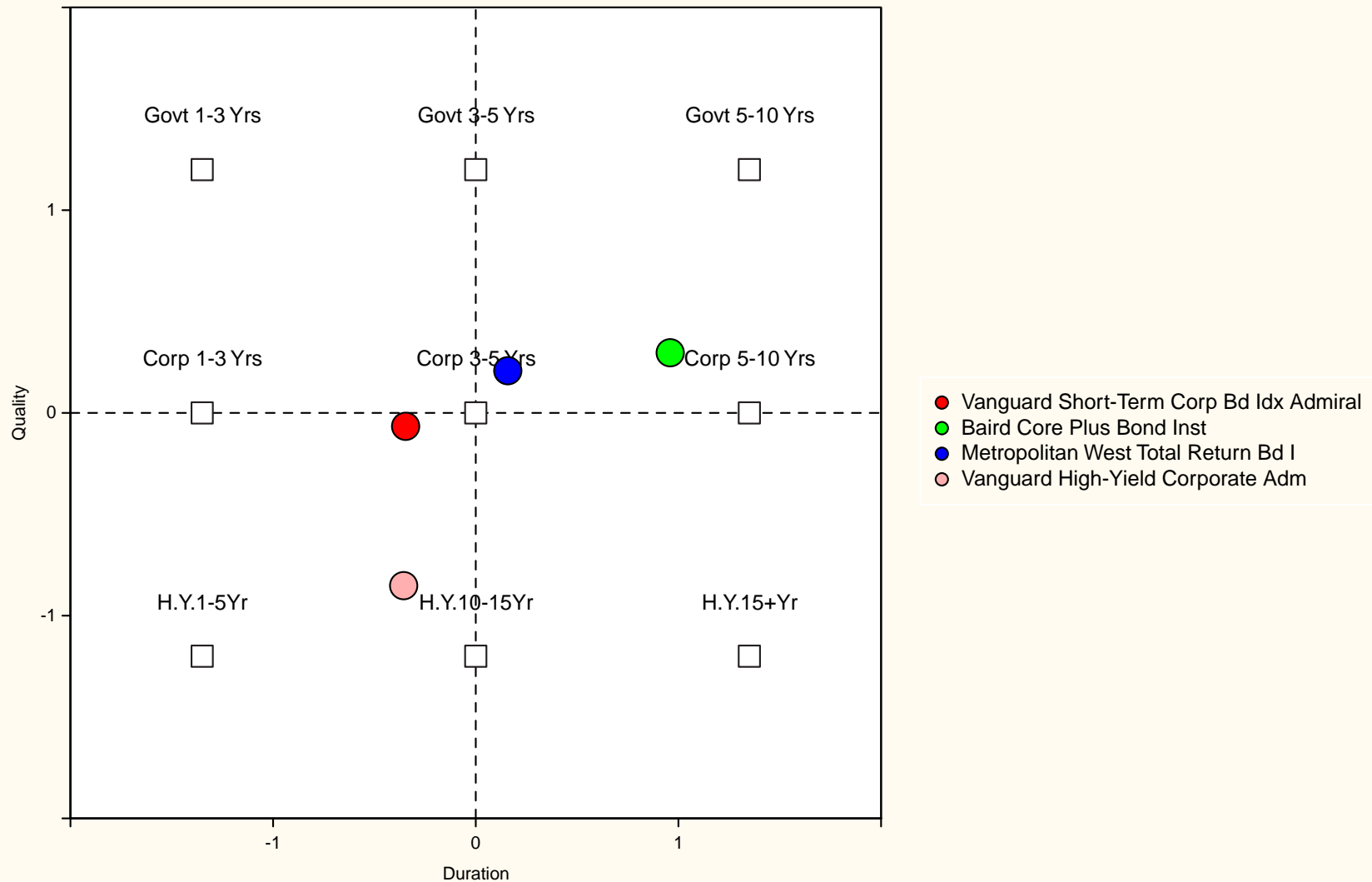
Average Market Cap. listed in parentheses

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Manager Style Box

Fixed Income - Single Computation
April 2009 - March 2019

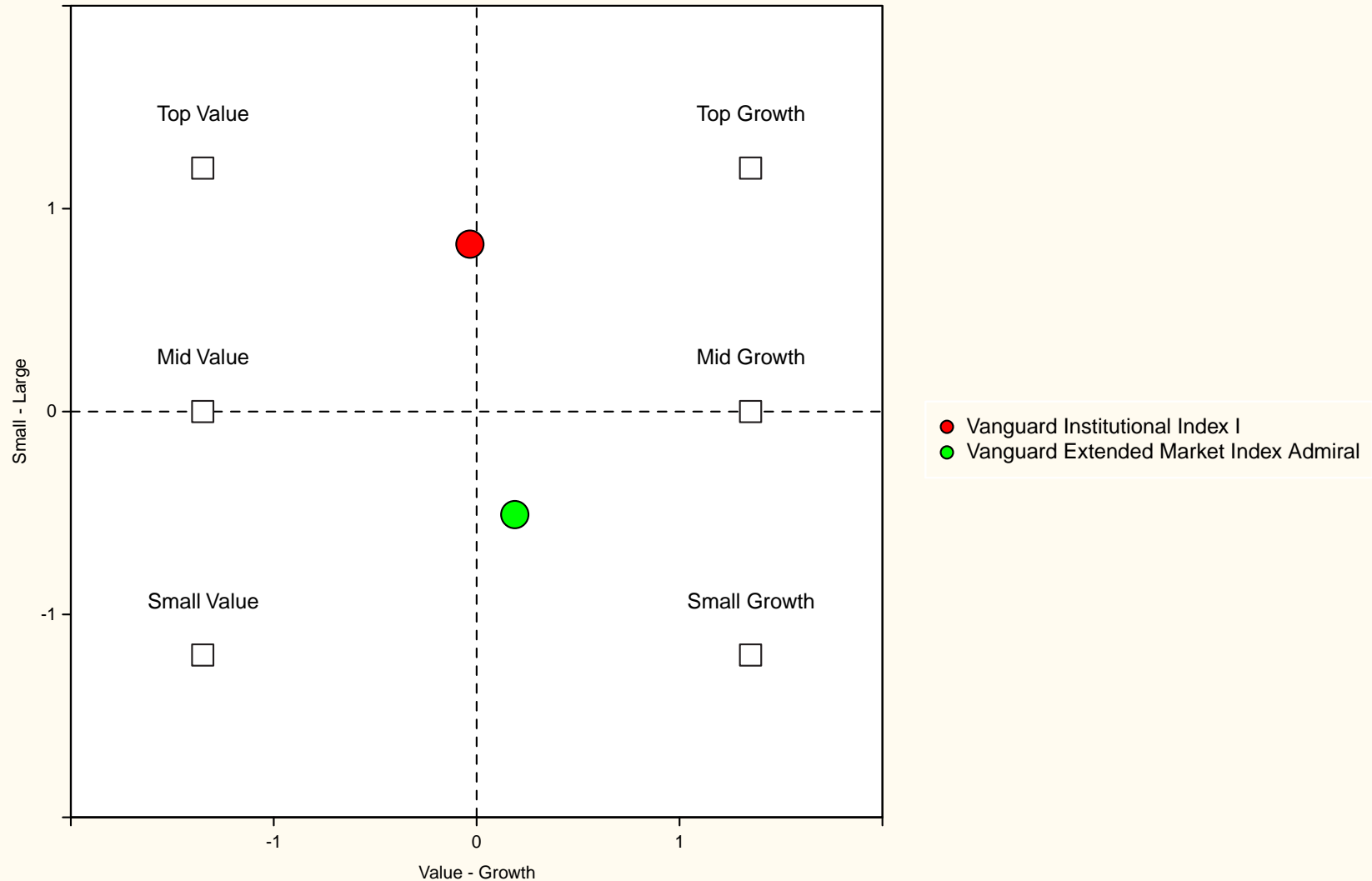


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Manager Style Box

Equity - Single Computation
April 2009 - March 2019

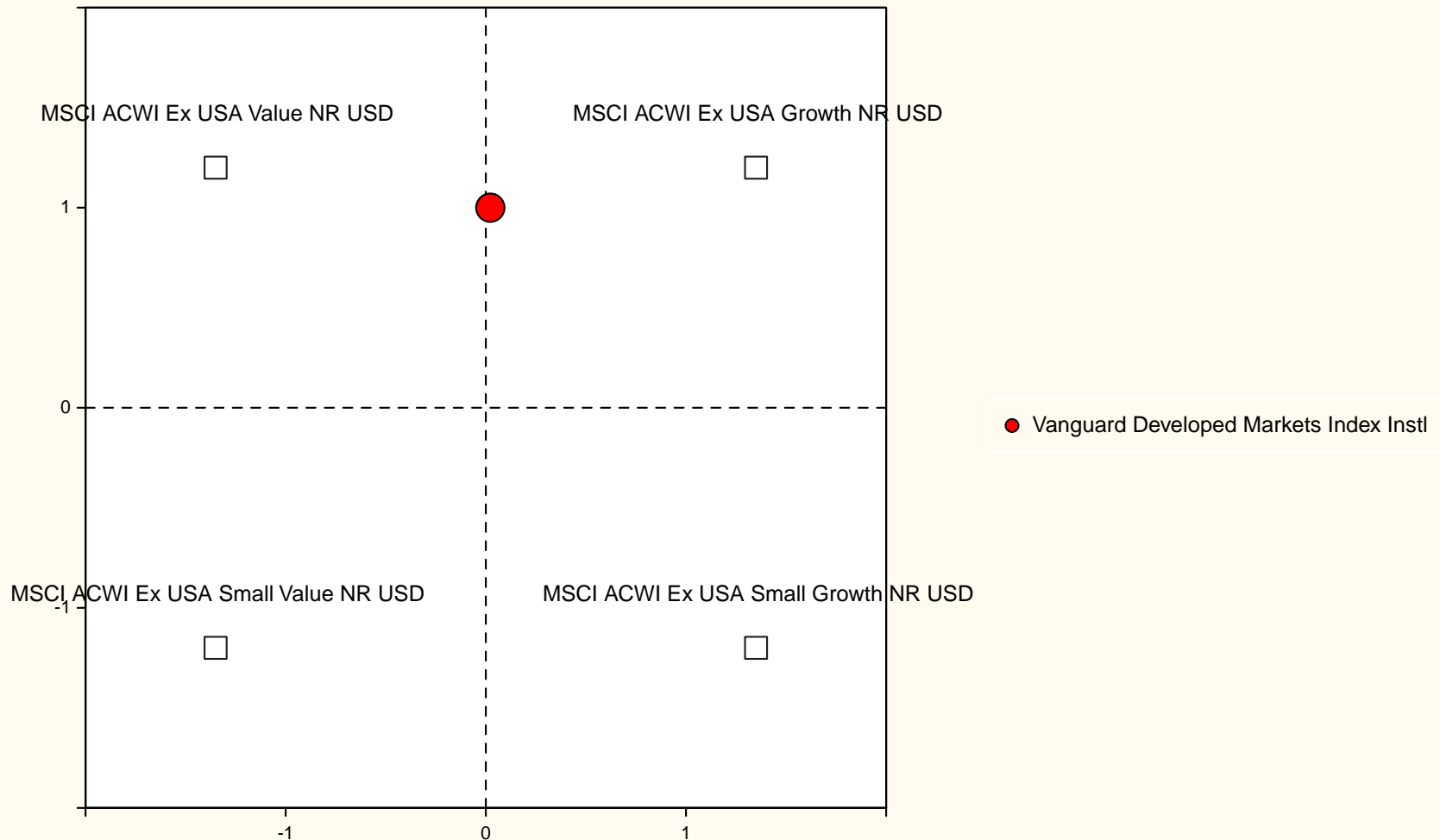


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Manager Style Box

International Equity - Single Computation
April 2009 - March 2019



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The background of the slide is a grayscale photograph of a spiral staircase, viewed from a low angle looking up. A large, solid teal rectangle is overlaid on the right side of the image, serving as a backdrop for the section header text.

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.

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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.

