

AGENDA
IRVINE RANCH WATER DISTRICT
POST-EMPLOYMENT BENEFITS TRUST RETIREMENT BOARD
QUARTERLY MEETING
TUESDAY, FEBRUARY 7, 2023

This meeting will be held in-person at the District’s headquarters located at 15600 Sand Canyon Avenue, Irvine, California. The meeting will also be broadcasted via Webex for those wanting to observe the meeting virtually.

To observe this meeting virtually, please join online using the link and information below:

Via Web: <https://irwd.webex.com/irwd/j.php?MTID=mc3ec8d01f3fcdcac51107ef720a52aa9>
Meeting Number (Access Code): 2483 908 2332
Meeting Password: 6jB6sQR97fD (65267779 from video systems)

As courtesy to the other participants, please mute your phone when you are not speaking.

PLEASE NOTE: Participants joining the meeting will be placed into the Webex lobby when the Committee enters closed session. Participants who remain in the “lobby” will automatically be returned to the open session of the Committee once the closed session has concluded. Participants who join the meeting while the Committee is in closed session will receive a notice that the meeting has been locked. They will be able to join the meeting once the closed session has concluded.

CALL TO ORDER 12:00 p.m.

ATTENDANCE Board Member: Peer Swan _____
 Board Member: Steve LaMar _____
 Board Member: Paul Cook _____

ALSO PRESENT Cheryl Clary _____ Rob Jacobson _____
 Jennifer Davis _____ Dan Quirk, SageView _____
 _____ _____ _____ _____

PUBLIC COMMENT NOTICE

If you wish to address the Committee on any item, please submit a request to speak via the “chat” feature available when joining the meeting virtually. Remarks are limited to three minutes per speaker on each subject. You may also submit a public comment in advance of the meeting by emailing comments@irwd.com before 7:30 a.m. on Tuesday, February 7, 2023

COMMUNICATIONS

1. Meeting Minutes: Rob Jacobson
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.

INFORMATION

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

Recommendation: That the minutes of the November 21, 2022 Board Meeting of the Irvine Ranch Water District Retirement Board be approved as presented.

ACTION


6. IRWD POST-RETIREMENT BENEFITS TRUST INVESTMENT REVIEW AS OF DECEMBER 31, 2022 – DAVIS / JACOBSON / CLARY

Recommendation: Based on discussions and direction from the Board, staff will implement 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 the Retirement Board, except that if such writings are distributed one hour prior to, or during, the meeting, they will be available electronically via the Webex meeting noted. Upon request, the District will provide for written agenda materials in appropriate alternative formats, and reasonable disability-related modification or accommodation to enable individuals with disabilities to participate in and provide comments at public meetings. Please submit a request, including your name, phone number and/or email address, and a description of the modification, accommodation, or alternative format requested at least two days before the meeting. Requests should be emailed to comments@irwd.com. Requests made by mail must be received at least two days before the meeting. Requests will be granted whenever possible and resolved in favor of accessibility.

February 7, 2023
Prepared by: J. Davis
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 November 21, 2022 meeting of the Irvine Ranch Water District Retirement Board for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE NOVEMBER 21, 2022 BOARD MEETING OF THE IRVINE RANCH WATER DISTRICT RETIREMENT BOARD BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – November 21, 2022 Retirement Board Minutes

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EXHIBIT “A”

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

November 21, 2022

The meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) Retirement Board was called to order by Chairman Swan at 12:00pm. on November 21, 2022.

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 Jennifer Davis and Dan Quirk of SageView Advisory Group.

COMMUNICATION: None.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED: None.

ACTION CALENDAR

MINUTES OF BOARD MEETING

Jennifer Davis presented the minutes from the August 9, 2022 meeting.

On MOTION by Cook, seconded by La Mar and affirmed by Peer Swan, the minutes of the August 9, 2022 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 09/30/2022. All options are currently performing in line with benchmarks or above 50th percentile peer group rankings.
- The Portfolio return and expense ratio, style analysis, and asset allocation by fund were reviewed. Of note was the following:
 - As of September 30, 2022, the IRWD Post-Retirement Benefits Trust market value was \$90,092,481, down from \$94,815,395 on June 30, 2022.
 - For the quarter, the net total return was -4.98%, closely tracking with the index-based custom benchmark return of -4.76%.
 - For the trailing twelve months, the total return was -16.30%, closely tracking the custom benchmark return as well.
 - The portfolio is primarily allocated to index funds, leading to a low overall expense ratio of 0.06%.

- The two actively scored funds by SageView score in the upper half of peer group rankings, while all index funds receive a pass rating.
- There were no recommended trades or portfolio allocation changes made during the meeting.


ADJOURNMENT

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

APPROVED and SIGNED this 7th day of February 2023.

Board Member, IRVINE RANCH WATER DISTRICT
RETIREMENT BOARD

Secretary, IRVINE RANCH WATER DISTRICT
RETIREMENT BOARD

February 7, 2023
 Prepared by: J. Davis
 Submitted by: R. Jacobson / C. Clary
 Approved by: Paul A. Cook 

RETIREMENT BOARD

IRWD POST-RETIREMENT BENEFITS TRUST
INVESTMENT REVIEW AS OF DECEMBER 31, 2022

SUMMARY:

Staff and a representative from IRWD's pension investment advisor SageView Investment Advisors will present the Portfolio Investment Review for the quarter ended December 31, 2022 and provide an update on current market conditions and any recommended portfolio changes.

BACKGROUND:

Quarterly Investment Review:

As of December 31, 2022, the IRWD Post-retirement Benefits Trust market value was \$97,215,451, a net increase of \$7,122,970 from the prior quarter end. The change was due to an increase in market value of \$5,992,787, capital gains distributions of \$478,192 and dividends in the amount of \$667,054. Trust expenses for the quarter included \$15,000 paid to SageView Advisory Group and \$63 for reporting fees paid to Fidelity. Assets in the Trust are sufficient to meet most of IRWD's current CalPERS unfunded liability. The closing balances and fund returns as of December 31, 2022, were as follows:

Investment	Quarterly Return	Month End September 30, 2022	Month End December 31, 2022	Incr/(Decr)	Percent of Portfolio
EQUITIES					
Vanguard Institutional Index Fund.	7.55%	\$44,910,284	\$48,300,807	\$3,390,523	49.7%
Vanguard Extended Mkt (small/mid) Index Fund	5.11%	6,288,333	6,609,828	\$321,495	6.8%
Vanguard Developed Market Index	17.10%	8,509,818	9,964,753	\$1,454,935	10.3%
Vanguard Emerging Markets Index	8.20%	1,271,940	1,376,204	\$104,264	1.4%
Vanguard High Dividend Yield Index Admiral	15.12%	9,123,644	10,503,535	\$1,379,891	10.8%
FIXED INCOME					
Baird Core Plus Bond Fund	2.51%	4,946,977	5,071,364	\$124,387	5.2%
Vanguard High-Yield Corporate Fund	4.88%	5,893,569	6,180,647	\$287,077	6.4%
Fidelity Short Term Treasury Bond	0.83%	9,125,647	9,201,044	\$75,397	9.5%
CASH-SHORT TERM					
Fidelity Government Cash Reserves		22,268	7,269	(\$14,999)	0.0%
Closing Balance		\$90,092,481	\$97,215,451	\$7,122,970	100.0%

For the quarter ended December 31, 2022, the portfolio return was 7.91% compared to the index-based custom benchmark return of 7.48%. For the one-year period ended December 31, 2022, the return was -15.33%, compared to the index-based custom benchmark return of -15.98%. The Portfolio Investment Review as of December 31, 2022 is provided as Exhibit "A".

A representative from SageView will present the Portfolio Investment Review for the quarter ended December 31, 2022, update the Board on current market conditions, and provide any recommended portfolio changes for the Board's consideration.

FISCAL IMPACTS:

Fiscal impacts are as described above.

ENVIRONMENTAL COMPLIANCE:

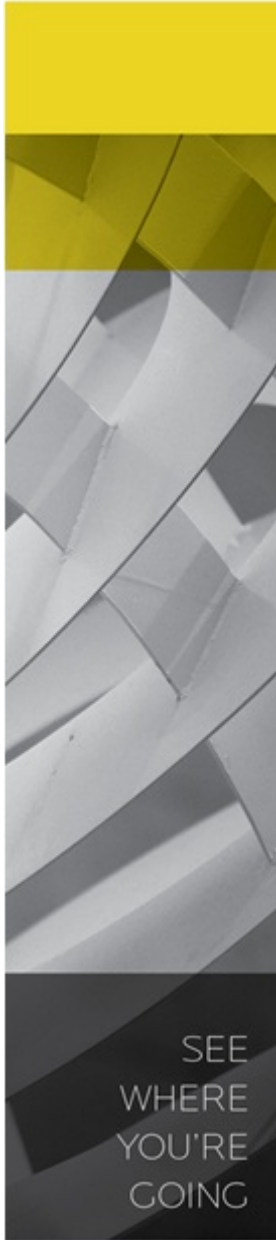
This item is not a project as defined in the California Environmental Quality Act Code of Regulations, Title 14, Chapter 3, Section 15378.

RECOMMENDATION:

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

LIST OF EXHIBITS:

Exhibit "A" – The Portfolio Investment Review as of December 31, 2022



Plan Investment Review

Irvine Ranch Water District Post-Employment Benefits Trust

For period ending December 31, 2022



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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 for more information.

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Q4 2022 BY THE NUMBERS

Inflation Peaked



December's CPI reading of 6.5% reflected the sixth straight monthly decline and the lowest since December 2021. Inflation has steadily declined since June's 9.1% peak. Ocean shipping rates are now at or below their pre-COVID levels. Despite signals of moderating inflation, the Fed voted in December to raise interest rates by 50 basis points to 4.25 - 4.50%, the highest in fifteen years.

-6.4%

Used Cars and Trucks YTD Price (Nov)

\$3.20

Avg price gallon (Q3 \$3.909)

\$1.4k

US/China container cost (\$20k peak, \$1.5k pre-pandemic)

Consumer Spending



In a new sign of a slowing economy, inflation adjusted consumer spending during the holiday season was flat. Additionally, personal savings rates continue to fall as purchasing power weakens. On the positive side, unemployment levels remain low, and job openings remain high. New apartment supply will slow rising rent prices, which have been a burden on renter households.

2.4%

Personal Savings Rate - November (9.3% Feb 2020)

7.65%

Consumer Debt increase from 2021

10.46 M

Total Nonfarm Job Openings (11,855 Mar 22)

Looming Recession?



The National Bureau of Economic Research defines a recession as a broad decline in six economic measures (personal income, nonfarm payroll employment, household employment, consumer spending, retail sales, and industrial production) that last more than a few months. At the end of November, only one (retail sales) was negative. Though multiple economists predict a looming recession, easing wage pressures and a healthy job market make a soft landing possible.

-0.6%

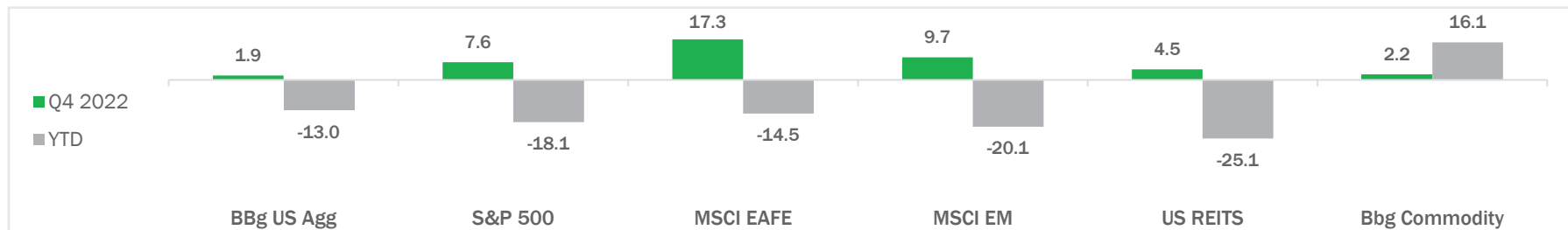
Retail sales month-over-month Nov.

100%

Bloomberg modeled probability of recession in 2023

3.5%

Unemployment Rate

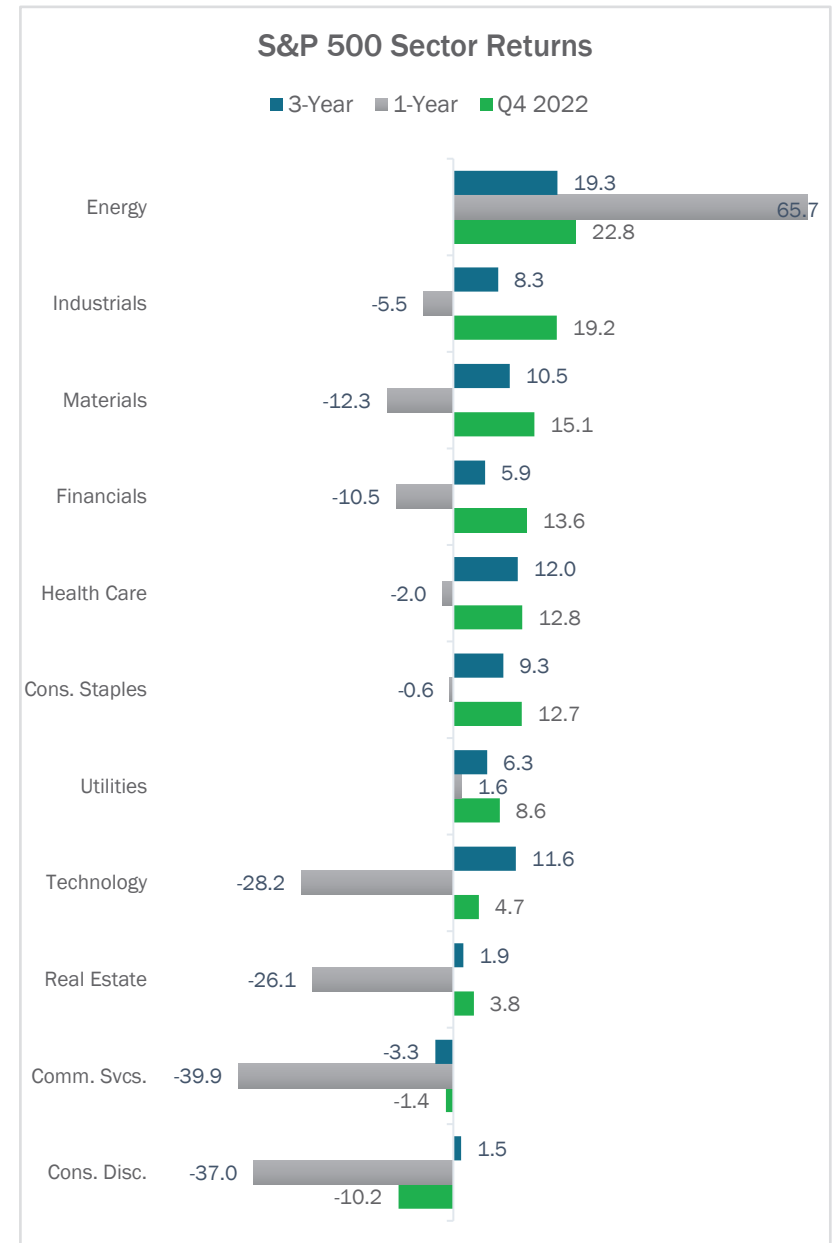
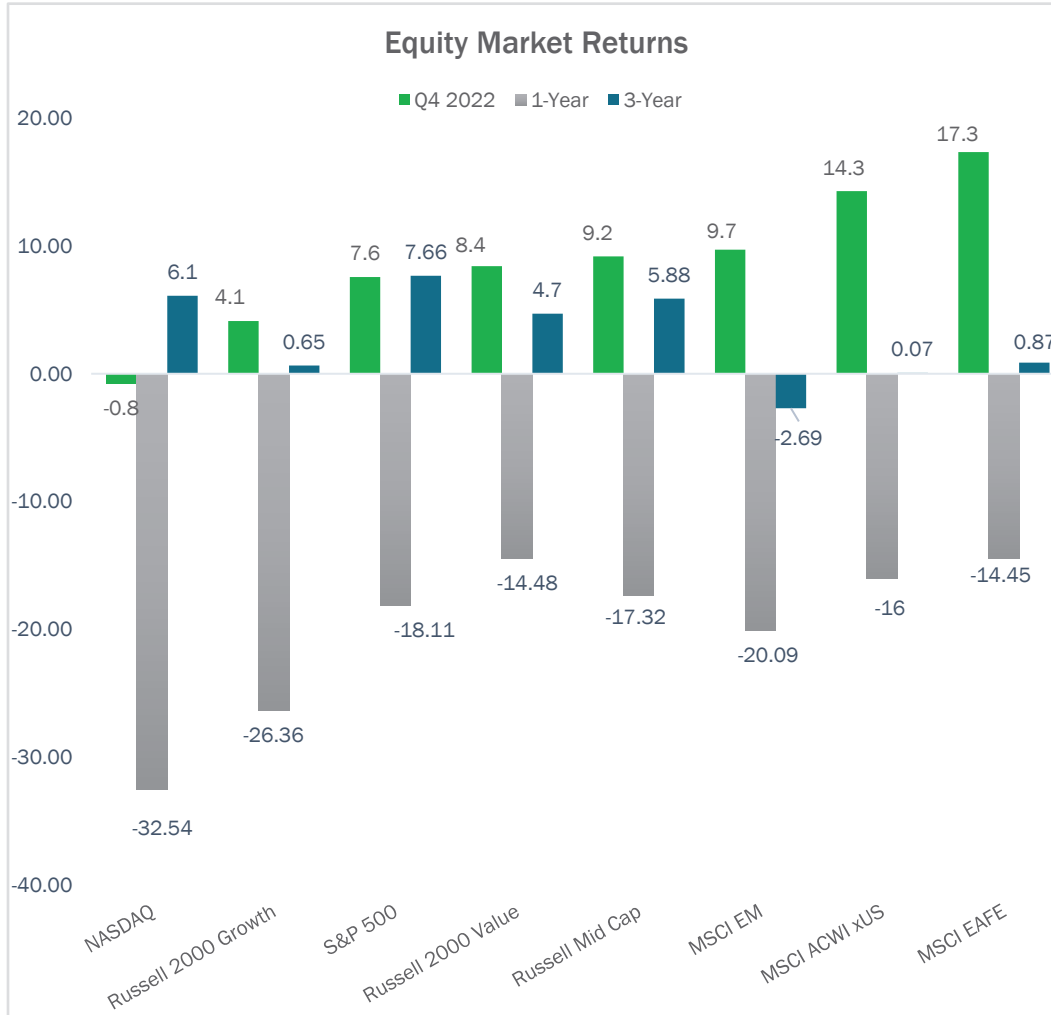


Source: Morningstar. Returns represent cumulative total return, including dividends US REITS – FTSE NAREIT All REITS

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EQUITIES

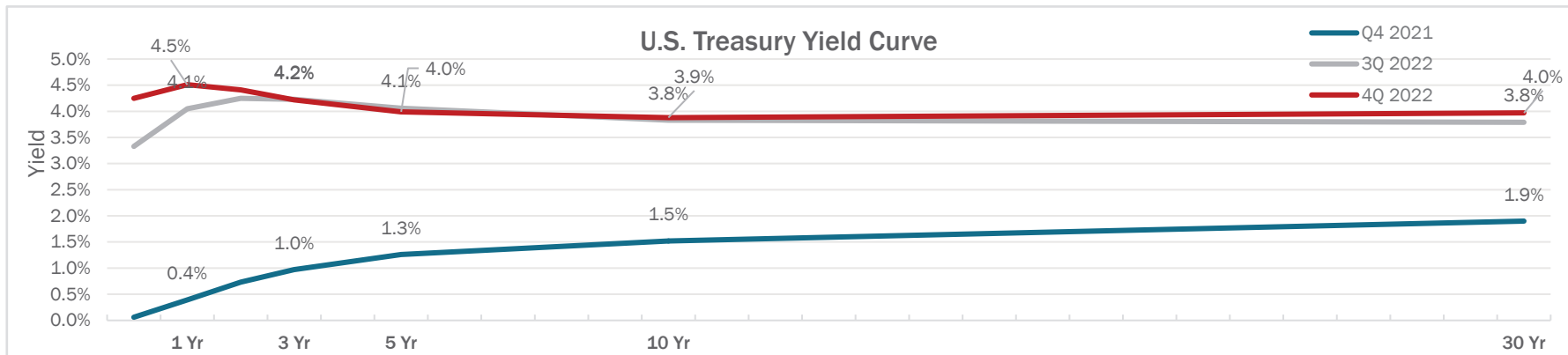
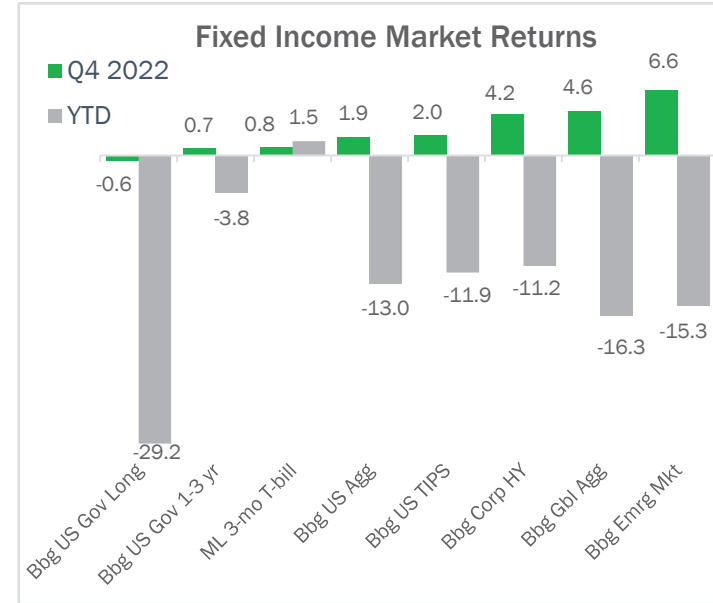
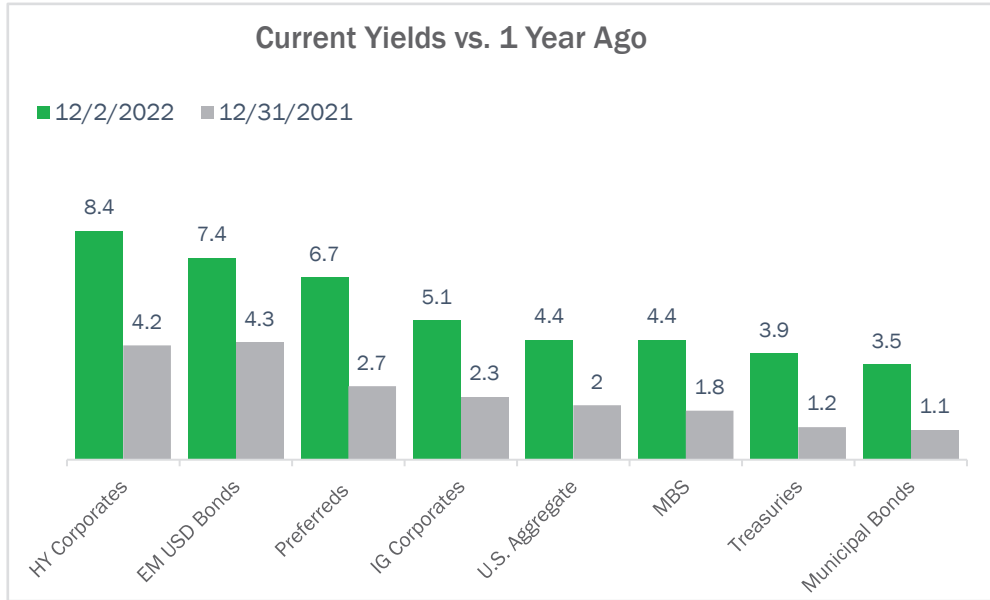
Although 2022 was a rough year for stocks, equity markets snapped a 3-quarter losing streak with most indexes finishing positive for the quarter. US equities were boosted by signs that inflation pressures had finally peaked. International equities were a particularly bright spot, after China ended its “zero-Covid” policy and political changes in the UK boosted market confidence. Energy and Utilities were the only sectors with positive returns for the year, while rate sensitive sectors such as Technology and Consumer Discretionary finished deeply in the red.



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FIXED INCOME

The 4th quarter offered relief for bond investors, as bond indices posted positive returns. Despite positive quarterly results, the Fed's actions to stamp out inflation defined 2022. Going into 2023, bonds are positioned well with yields at the highest levels in over a decade, the Fed hiking cycle nearing completion, and inflation continuing to moderate.



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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 \$97,215,451 at December 31, 2022, up from \$90,092,481 at September 30, 2022.
- Trade activity during the quarter:
-None

Target Allocation vs. Actual

Ticker	Fund	12/31/2022	12/31/2022	12/31/2022
		\$ Actual	% Actual	% Target
FDRXX	Fidelity Government Cash Reserves	7,269	0.0%	0.0%
FUMBX	Fidelity Short Term Treasury Bond Index	9,201,044	9.5%	9.0%
BCOIX	Baird Core Plus Institutional	5,071,364	5.2%	5.0%
VWEAX	Vanguard High Yield Corporate Bond	6,180,647	6.4%	6.0%
	Fixed Income	20,460,323	21.0%	20.0%
VINIX	Vanguard Institutional Index	48,300,807	49.7%	50.5%
VHYAX	Vanguard High Dividend Yield Index Admiral	10,503,535	10.8%	9.0%
VEXAX	Vanguard Extended Market Index	6,609,828	6.8%	8.5%
VTMNX	Vanguard Developed Markets Index	9,964,753	10.3%	10.5%
VEMAX	Vanguard Emerging Markets Index	1,376,204	1.4%	1.5%
	Equity	76,755,128	79.0%	80.0%
	Total	97,215,451	100.0%	100.0%

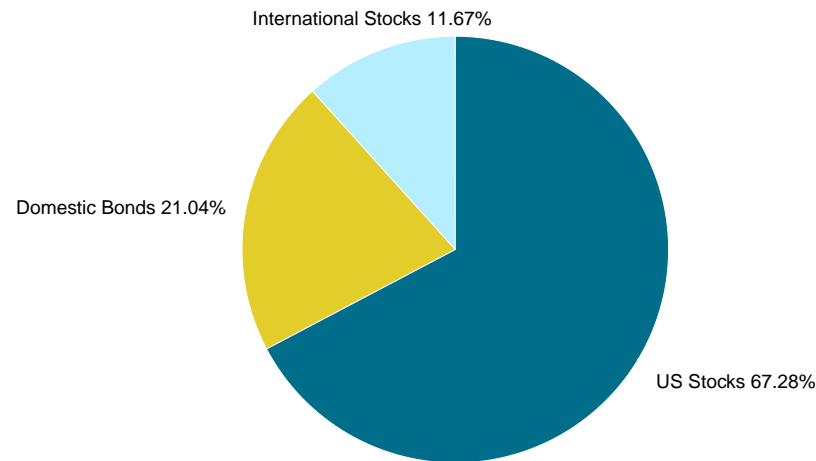
- For the quarter, the net total return was 7.91%, compared to the index-based custom benchmark of 7.48% and the peer-group custom benchmark of 7.79%.
For the past 12 months, the net total return was -15.33%, beating the index-based custom benchmark return of -15.98%, and
- beating the custom peer group return of -15.67%.
- The portfolio is heavily allocated to index funds, leading to a low overall expense ratio of 0.06%.
- Baird Core Plus and Vanguard High Yield Corporate Bond score in the top quartile of SageView's peer group quantitative rankings, while all index funds receive a pass rating.



Asset Allocation by Fund

As of 12/31/2022

Fund	% of Plan Assets	Total Assets
Vanguard Institutional Index I	49.68%	\$48,300,806.79
Vanguard High Dividend Yield Index Adm	10.80%	\$10,503,534.83
Vanguard Developed Markets Index Instl	10.25%	\$9,964,753.44
Fidelity® Shrt-Term Trs Bd Index	9.46%	\$9,201,043.91
Vanguard Extended Market Index Admiral	6.80%	\$6,609,828.40
Vanguard High-Yield Corporate Adm	6.36%	\$6,180,646.84
Baird Core Plus Bond Inst	5.22%	\$5,071,363.70
Vanguard Emerging Mkts Stock Idx Adm	1.42%	\$1,376,204.05
Fidelity® Government Cash Reserves	0.01%	\$7,269.02
Total Market Value:	100.00%	\$97,215,450.98



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Fund Performance Summary

As of 12/31/2022

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	0.01%	0.81	1.35	1.35	0.54	1.01	0.57	0.33	NA
ICE BofA US 3M Trsy Bill TR USD*			0.84	1.46	1.46	0.72	1.26	0.76		
Cat: Morningstar Money Market - Taxable			0.75	1.27	1.27	0.53	0.97	0.54	0.41	
Fidelity® Shrt-Term Trs Bd Index	Short Government	9.46%	0.83	-5.61	-5.61	-0.90	0.57	0.61	0.03	Index
BBgBarc Treasury 1-5 Yr TR USD*			0.94	-5.47	-5.47	-0.85	0.62	0.68		
Cat: Morningstar Short Government			0.59	-5.09	-5.09	-1.05	0.28	0.30	0.63	
Baird Core Plus Bond Inst	Intermediate Core-Plus Bond	5.22%	2.51	-12.87	-12.87	-2.10	0.55	1.73	0.30	TOP DEC
Bloomberg US Agg Bond TR USD*			1.87	-13.01	-13.01	-2.71	0.02	1.06		
Cat: Morningstar Intermediate Core-Plus Bond			1.78	-13.27	-13.27	-2.43	0.15	1.30	0.74	
Vanguard High-Yield Corporate Adm	High Yield Bond	6.36%	4.88	-8.97	-8.97	-0.15	2.31	3.75	0.13	TOP QUAR
ICE BofA US High Yield TR USD*			3.98	-11.22	-11.22	-0.23	2.12	3.94		
Cat: Morningstar High Yield Bond			3.92	-10.11	-10.11	-0.23	1.73	3.20	0.89	
Vanguard High Dividend Yield Index Adm	Large Value	10.80%	15.12	-0.44	-0.44	8.29	8.22	11.58	0.08	Pass
Russell 1000 Value TR USD*			12.42	-7.54	-7.54	5.96	6.67	10.29		
Cat: Morningstar Large Value			12.77	-5.91	-5.91	6.96	7.02	10.21	0.90	
Vanguard Institutional Index I	Large Blend	49.68%	7.55	-18.14	-18.14	7.64	9.40	12.53	0.04	Pass
S&P 500 TR USD*			7.56	-18.11	-18.11	7.66	9.42	12.56		
Cat: Morningstar Large Blend			8.27	-16.96	-16.96	6.86	8.24	11.29	0.79	
Vanguard Extended Market Index Admiral	Mid-Cap Growth	6.80%	5.11	-26.47	-26.47	3.02	4.88	9.62	0.06	Pass
S&P Completion TR USD*			5.07	-26.54	-26.54	2.94	4.77	9.52		
Cat: Morningstar Mid-Cap Growth			5.07	-27.79	-27.79	4.15	7.09	10.67	1.06	
Vanguard Developed Markets Index Instl	Foreign Large Blend	10.25%	17.10	-15.34	-15.34	1.33	1.67	4.93	0.05	Pass
FTSE Dv Ex US TR USD*			16.47	-14.59	-14.59	1.72	2.09	5.09		
Cat: Morningstar Foreign Large Blend			15.96	-15.83	-15.83	0.55	1.16	4.27	0.93	
Vanguard Emerging Mkts Stock Idx Adm	Diversified Emerging Mkts	1.42%	8.20	-17.78	-17.78	-1.50	-0.36	1.55	0.14	Pass
FTSE EMs AC China A Incl (US RIC) NR USD*			8.18	-17.58	-17.58	-1.14	-0.17	2.11		
Cat: Morningstar Diversified Emerging Mkts			9.62	-20.89	-20.89	-2.29	-1.36	1.50	1.16	

***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 5.22 Intermediate Core-Plus Bond	12/31/2022	<p>Performance Update (12/31/2022): The Baird Core Plus Bond fund outperformed the Bloomberg U.S. Universal Bond Index in the fourth quarter. Asset allocation was a key driver of returns, with an overweight to investment grade credit being accretive. Active positioning within investment grade credit was also additive, specifically favoring BBB credit, as well as underweighting non-corporate in favor of corporate credit. Securitized positioning was positive, with an overweight to non-agency CMBS at the top of the capital structure. Over the trailing one-year, the fund outperformed the benchmark. The underweight position to high yield U.S. corporate credit and agency RMBS helped to buoy the negative absolute returns over the trailing twelve months.</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 Bloomberg US Universal Index. The standard category benchmark is the Bloomberg US Aggregate Bond Index. Fund comments are relative to the prospectus benchmark.</p>
Vanguard High-Yield Corporate Adm 6.36 High Yield Bond	12/31/2022	<p>Performance Update (12/31/2022): The Vanguard High Yield fund outperformed for both the quarter and the twelve-month period. US high yield bonds posted positive returns and spreads tightened for the fourth quarter amid some easing of inflation concerns, limited supply, and a large stretch of retail inflows. All credit tiers posted positive total returns for the quarter, with higher quality credit outpacing lower quality debt. For the quarter, the fund's outperformance was driven primarily by security selection within the Healthcare and media and entertainment sectors. For the twelve-month period, an underweight allocation to credit risk, along with strong selection within the wireless, pharmaceutical, and technology sectors were the primary drivers of performance. Its underweight allocation to and selection within the Energy sector was the largest detractor.</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	03/2020	06/2020	09/2020	12/2020	03/2021	06/2021	09/2021	12/2021	03/2022	06/2022	09/2022	12/2022
Fidelity® Government Cash Reserves	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fidelity® Shrt-Term Trs Bd Index	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Baird Core Plus Bond Inst	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP QUAR	TOP QUAR	TOP DEC	TOP QUAR	TOP DEC
Vanguard High-Yield Corporate Adm	TOP DEC	TOP DEC	TOP DEC	TOP DEC	TOP QUAR	TOP QUAR	TOP QUAR	TOP QUAR	TOP QUAR	TOP QUAR	TOP QUAR	TOP QUAR
Vanguard High Dividend Yield Index Adm	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
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.)	RSquared (3 Yrs)	Modified Sharpe Ratio (36 Mos.)	Alpha (60 Mos.)	Up Capture Ratio (10 Yrs.)	Down Capture Ratio (10 Yrs.)	Batting Average (10 Yrs.)	Expense Ratio	SageView Normalized Ranking
Baird Core Plus Bond Inst	BCOIX	21%	37%	28%	24%	19%	20%	36%	9%	7%	8%
Vanguard High-Yield Corporate Adm	VWEAX	27%	37%	48%	42%	24%	64%	19%	19%	3%	17%

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Baird Core Plus Bond Inst

BCOIX

Ranking Vs. Peers - Intermediate Core-Plus Bond

December 31, 2022

Intermediate Core-Plus Bond Universe: 810 Funds

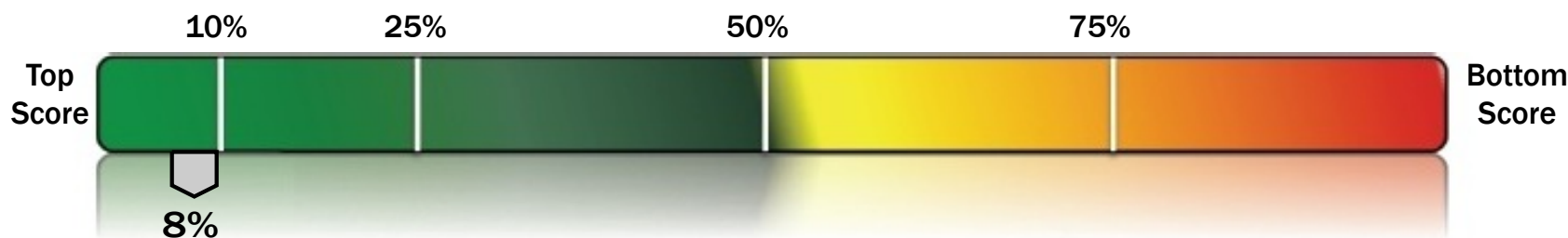
Performance Ranking		Ranking
Total Return Composite Ranking		21.25%
10 Year	17.00%	
5 Year	19.00%	
3 Year	28.00%	
1 Year	21.00%	
Rolling 12 Month - 5 Years		36.76%

Ratio Statistics		Ranking
Modified Sharpe Ratio - 36 Months		24.00%
Alpha - 60 Months		19.00%
Up Capture Ratio - 10 Years		20.00%
Down Capture Ratio - 10 Years		36.00%
Batting Average - 10 Years		9.00%

Style Consistency		Ranking
Style Consistency to Benchmark		
Bloomberg US Agg Bond TR USD	R2	28.00%

Fund Expense		Ranking
Expense Ratio	0.3	7.00%

SageView Normalized Ranking	
SageView Normalized Ranking	8.00%
STATUS	TOP DECILE



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Vanguard High-Yield Corporate Adm

VWEAX

Ranking Vs. Peers - High Yield Bond

December 31, 2022

High Yield Bond Universe: 726 Funds

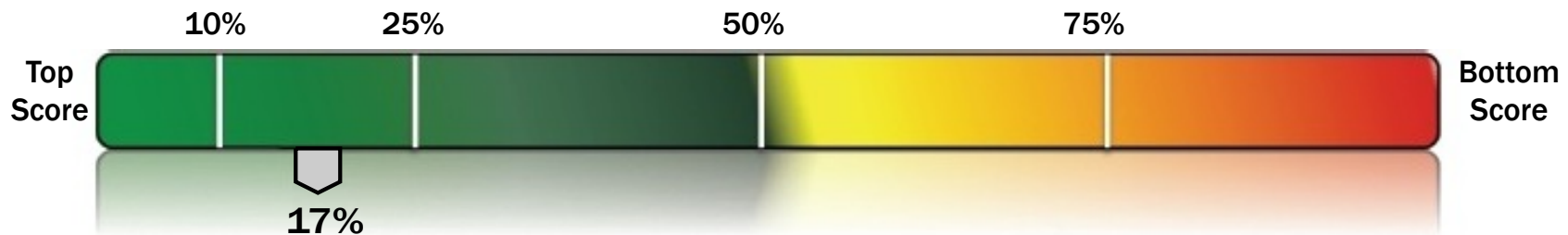
Performance Ranking		Ranking
Total Return Composite Ranking		27.00%
10 Year	24.00%	
5 Year	23.00%	
3 Year	39.00%	
1 Year	22.00%	
Rolling 12 Month - 5 Years		37.10%

Ratio Statistics		Ranking
Modified Sharpe Ratio - 36 Months		42.00%
Alpha - 60 Months		24.00%
Up Capture Ratio - 10 Years		64.00%
Down Capture Ratio - 10 Years		19.00%
Batting Average - 10 Years		19.00%

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

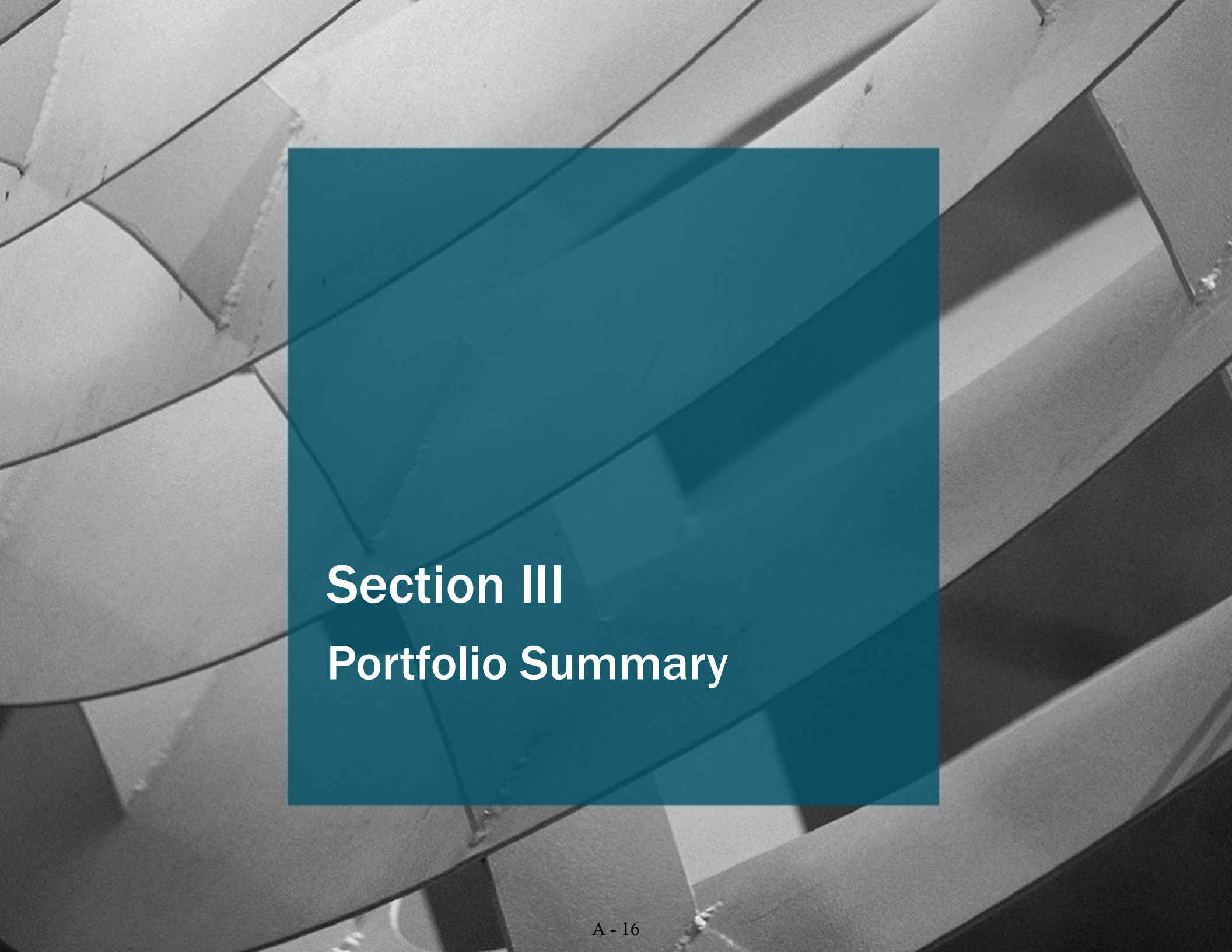
Fund Expense		Ranking
Expense Ratio	0.13	3.00%

SageView Normalized Ranking	
SageView Normalized Ranking	17.00%
STATUS	TOP QUARTILE



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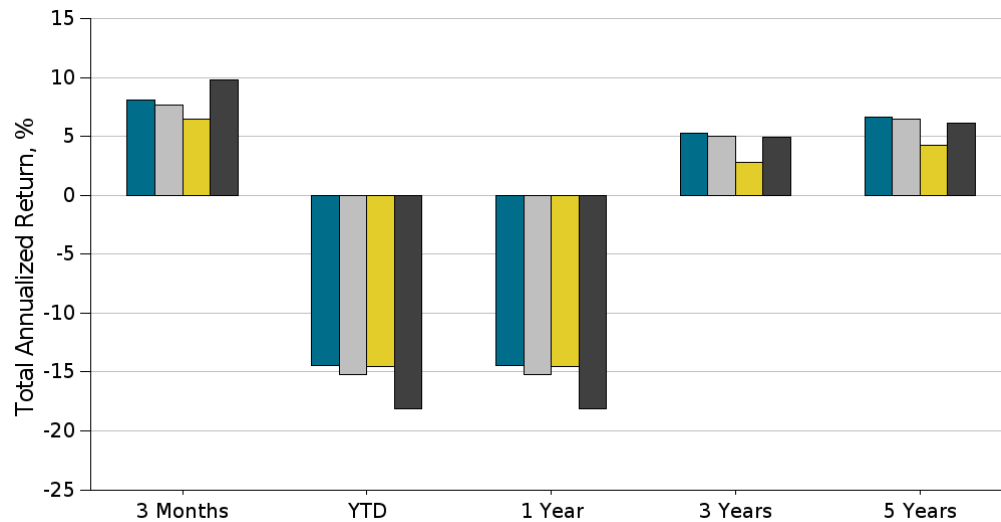
Section III

Portfolio Summary

Portfolio Return vs. Custom Benchmark

As of 12/31/2022

Performance As Of December 31, 2022	3 Month	YTD	1 Year	3 Year	5 Year	Std Dev 5 Yr	Prospectus Exp Ratio
Irvine Ranch Water District Post-Employment Benefits Trust	7.91	-15.33	-15.33	4.96	NA	NA	0.06
Irvine Ranch Water District Post-Employment Benefits Trust Custom Benchmark	7.48	-15.98	-15.98	4.69	NA	NA	NA
Irvine Ranch Water District Post-Employment Benefits Trust Custom Category Averages Benchmark	7.79	-15.67	-15.67	4.01	NA	NA	0.83
Institutional Portfolio 60-30-10	6.51	-14.52	-14.52	2.82	4.28	11.45	NA
MSCI World NR USD	9.77	-18.14	-18.14	4.94	6.14	18.09	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	49.68%
Russell 1000 Value TR USD	10.80%
FTSE Dv Ex US TR USD	10.25%
BBgBarc Treasury 1-5 Yr TR USD	9.46%
S&P Completion TR USD	6.80%
ICE BofA US High Yield TR USD	6.36%
Bloomberg US Agg Bond TR USD	5.22%
FTSE EMs AC China A Incl (US RIC) NR USD	1.42%
ICE BofA US 3M Trsy Bill TR USD	0.01%

⁴Industry Average Expense Ratio Source: 401(k) Averages Book, 20th Edition, published by HR Investment Consultants

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

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Management Style Analysis

As of 12/31/2022

Domestic Equity Style Box

	VALUE	BLEND	GROWTH
LARGE CAP	<ul style="list-style-type: none"> Vanguard High Dividend Yield Index Adm (\$102.82 bn) 	<ul style="list-style-type: none"> Vanguard Institutional Index I(\$175.70 bn) 	
MID CAP			<ul style="list-style-type: none"> Vanguard Extended Market Index Admiral (\$5.77 bn)
SMALL CAP			

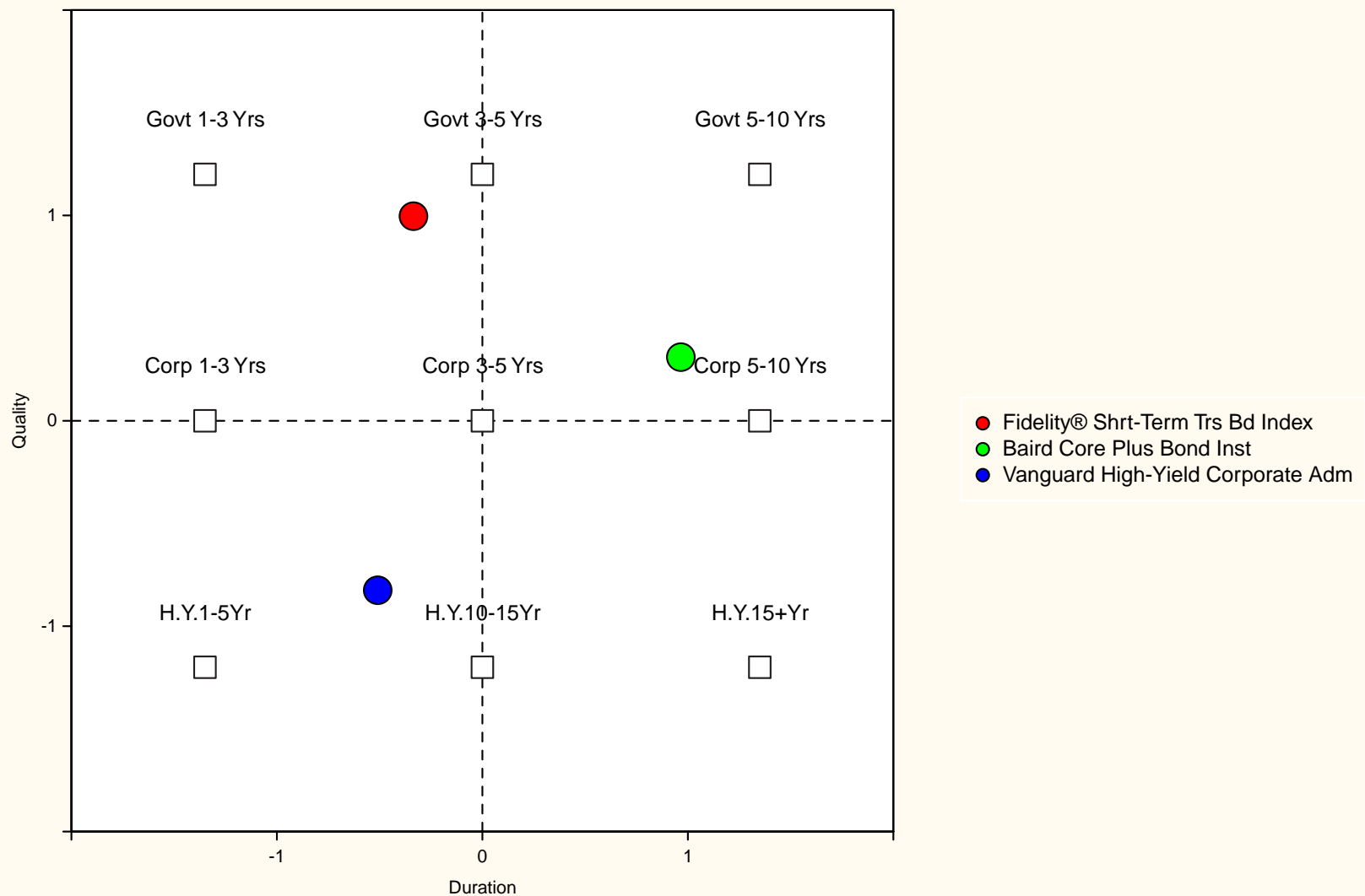
Average Market Cap. listed in parentheses

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Manager Style Box

Fixed Income - Single Computation
January 2013 - December 2022

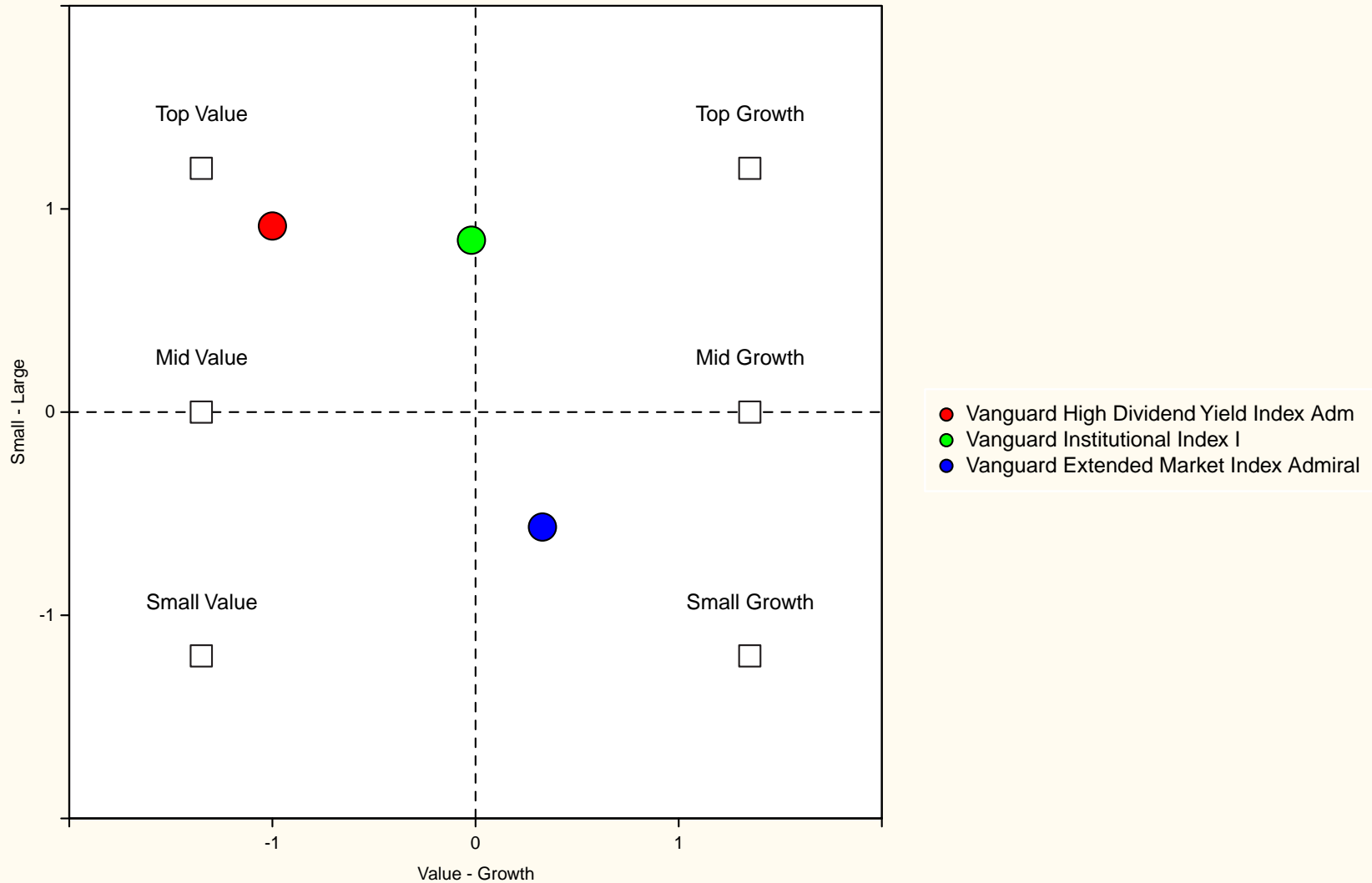


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Manager Style Box

Equity - Single Computation
January 2013 - December 2022

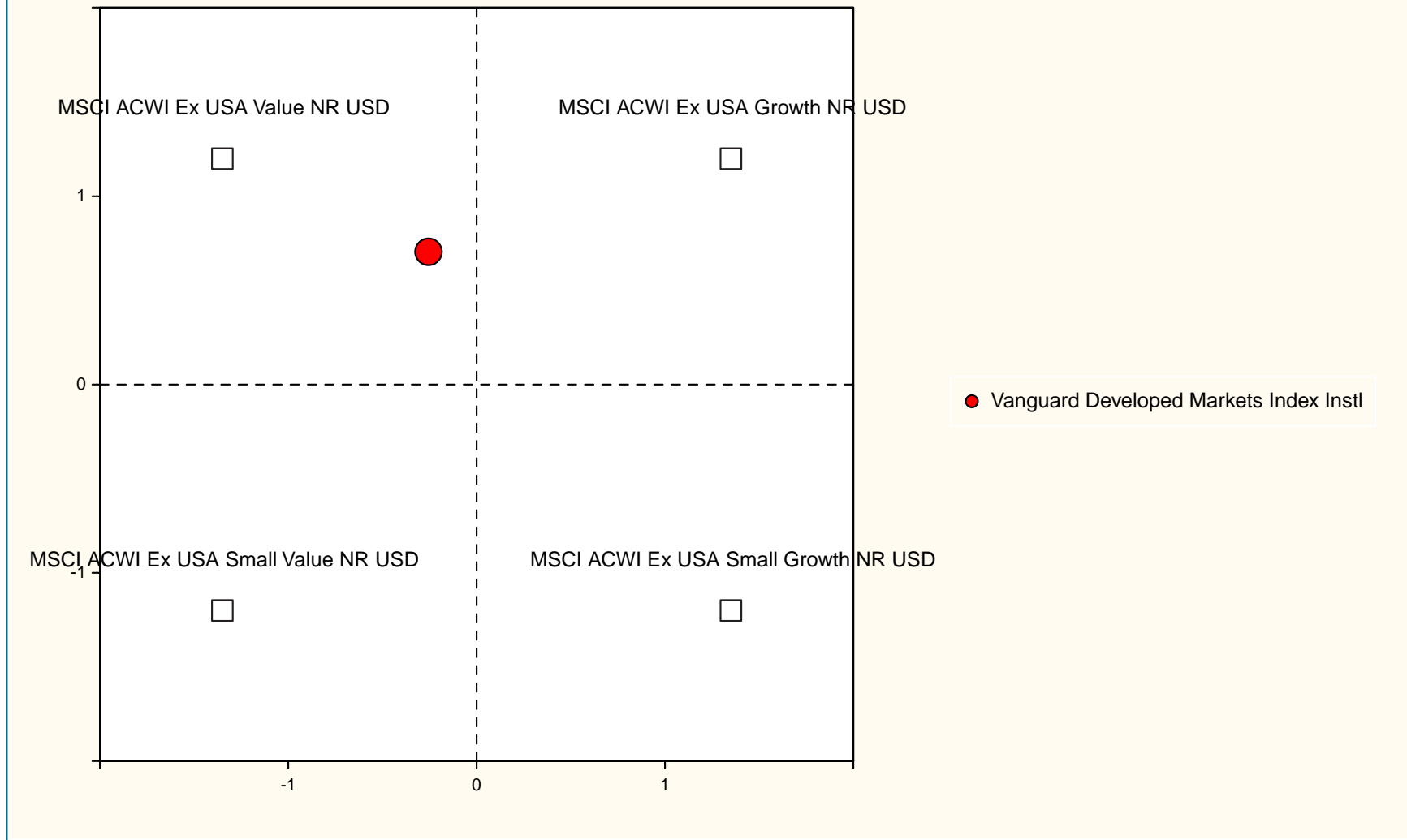


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Manager Style Box

International Equity - Single Computation
January 2013 - December 2022

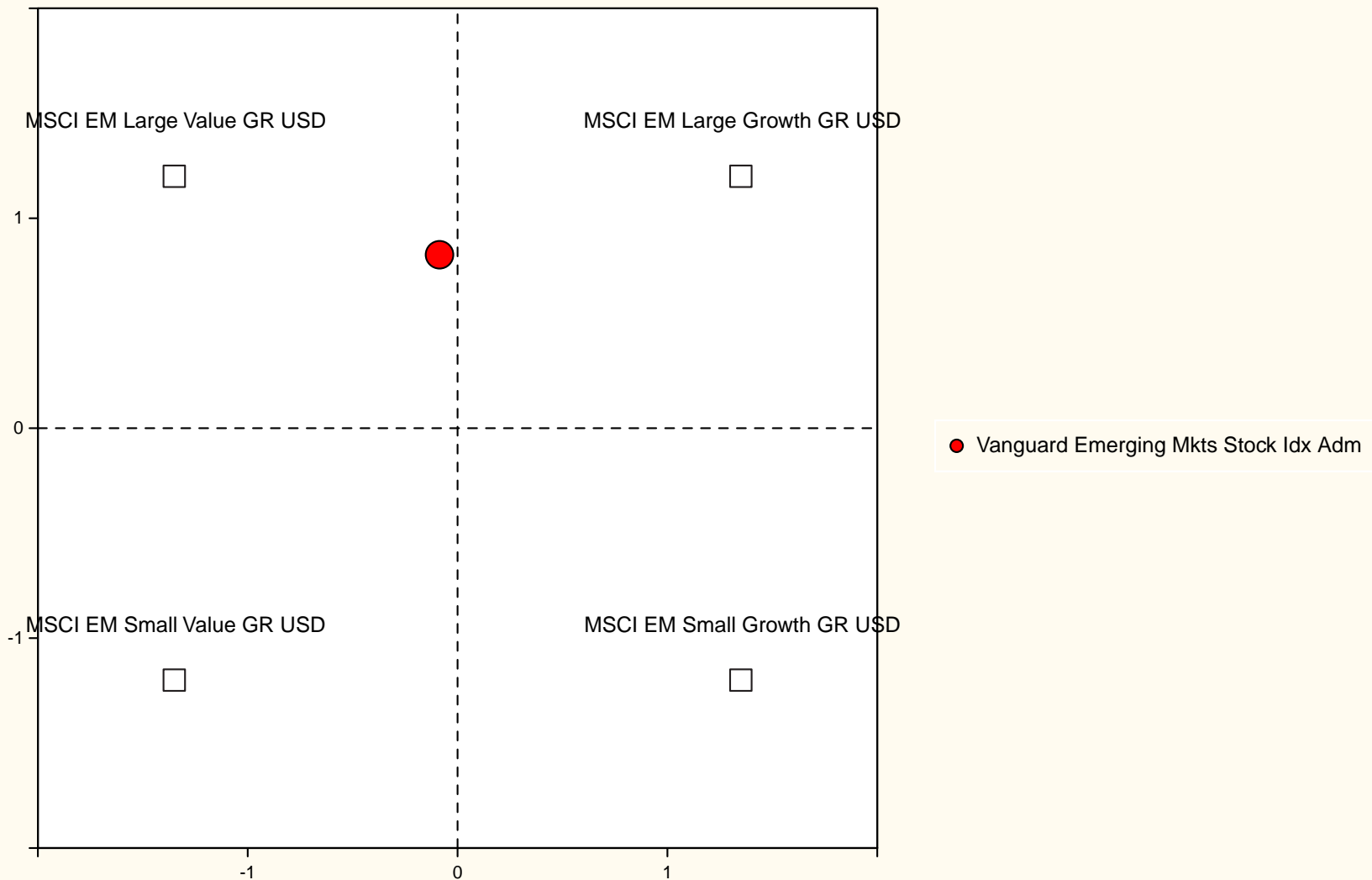


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Manager Style Box

Emerging Market - Single Computation
January 2013 - December 2022



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Section V
Appendix

ACTIVE INVESTMENT OPTIONS 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. 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 period returns – A rolling period return divides a longer time frame into smaller time periods. A rolling 12-month return over five years is computed by first calculating a single period return over the first twelve months. Next, it calculates the 12-month return for months 2-13. The process continues until finally reaching the 12-month period spanning months 48-60. The final rolling figure reflects the average of all of the 12-month returns.
3. Batting Average – Batting average is calculated by (1) tallying the number of months in a given observation window where the investment return is greater than the return of the peer group median return and (2) dividing this amount by the total number of months in the observation window. The result is a ratio that ranges between 0 and 1. A batting average of greater than 0.50 signifies that the investment has outperformed the peer group more frequently than it has underperformed, irrespective of the magnitude of any outperformance or underperformance.
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. Modified Sharpe Ratio – The standard Sharpe Ratio calculation is calculated by subtracting the risk-free rate of return (the US Treasury Bill is typically used) from the portfolio return and dividing the result by the portfolio’s standard deviation. A higher Sharpe ratio indicates that the portfolio was able to generate a higher return per unit of risk. Modified Sharpe Ratio is a related statistic that is equal to the Sharpe Ratio under normal circumstances. However, the Modified Sharpe calculation adds an exponent to the denominator that effectively raises the denominator to the -1 power in circumstances in which an investment’s excess return is negative. This modification ensures that investments with both negative excess returns and higher standard deviations rank lower than investment with negative excess returns and lower standard deviations. Under the standard Sharpe Ratio calculation, the opposite is true.
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 – 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 – 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 – The expense ratio is compared to the appropriate category average expense and then given a score based upon that percentage. This rewards low-cost funds and penalizes high-cost funds. Expense ratios are effectively "double weighted" in our scoring methodology, because performance returns are already net of expenses. Since fiduciaries are encouraged to carefully manage expenses, we believe explicitly factoring in fund fees is prudent.

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. The percentage rankings for all criteria are then averaged to give a fund its average ranking score. 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.

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