



Memorandum

То	Wyoming State Loan and Investment Board
From	RVK, Inc.
Subject	Investment Performance Analysis – Summary of Contents
Date	March 31, 2021

To assist in your review of the Investment Performance Analysis for the quarter ended March 31, 2021, we have provided below an outline and summary of the information contained within each section of this report.

MEMORANDUM – Investment Performance Analysis Commentary

 This two page memo provides a written summary of significant observations regarding performance of the State's Funds and an overview of performance during the quarter for each of the State's asset classes.

TAB 1 – Market Environment

• This section is intended to review capital markets in general (i.e. not specific to Wyoming), and includes a written summary of events during the quarter, including economic influences and review of equity and bond markets as a whole. This section also includes various charts and exhibits displaying key characteristics of major market indices representing the broad range of available asset classes, including alternative investments such as absolute return and real estate. Also included is an asset class summary that describes the structure of each of the State's composites. Lastly, this section includes a review of the benchmarks referenced within the quarterly report.

TAB 2 - Total Fund

 This section provides an overview of all of the State's investments, both permanent and non-permanent. Exhibits include an outline of the aggregate asset allocation – by manager, by investment fund, by asset class, and compared to peers. This section also includes Total Fund performance compared to other plan sponsors and highlights the risk and return profile of the State.

TAB 3 - Investment Funds

 This section details the asset allocation versus target of each of the State's investment funds. In addition, a summary page highlighting the performance of each fund compared to the respective total fund index is included.

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TAB 4 – Total Equity

This section summarizes the State's allocation to traditional equity managers – both
domestic and international – and details the performance of each manager versus both their
corresponding benchmark as well as their direct peer universe. Attribution pages are also
incorporated, which outline the allocation by sector (or region) for each sub-composite and
the corresponding performance.

TAB 5 – Alternative Assets

• This section includes allocation and performance information for the State's alternative investments, which include real estate, absolute return, and private equity strategies.

TAB 6 - Total Fixed Income

 Similar to the equity section, this section summarizes the allocation to and performance of each of the State's fixed income managers, including the internally managed portfolio. Characteristics pages are also included for each sub-composite.

TAB 7 – Cash and Cash Equivalents

• This two-page summary outlines the performance of the State's cash portfolios compared to current T-Bill rates and a custom blended index for JP Morgan.

Tab 8 – Investment Manager Profile Pages

This section contains a number of portfolio characteristic pages for the State's investment
managers, including historical strategy performance prior to the State's investment. These
pages include such characteristics as risk, upside/downside capture, market capitalization,
allocation by sector and more.

TAB 9 – Investment Policy Objective Review

• The section provides a compliance check for the Total Fund, and for each individual manager portfolio, versus the guidelines and expectations outlined in the State's Master Investment Policy and Sub-Policies.

APPENDIX

The appendix includes a glossary, providing definitions and other information on data
included throughout the report, including financial terms and ratios, indices, and peers
groups. The addendum page in the appendix includes important comments specific to
Wyoming regarding market value, performance, and allocation information provided
throughout the report.

WYOMING STATE TREASURER'S OFFICE

First QUARTER 2021

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Memorandum

То	Wyoming State Loan and Investment Board
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Outlined below please find a summary of significant observations regarding performance of the State's Funds for the period ended March 31, 2021. We hope this summary will facilitate your review of our Investment Performance Analysis Report.

The Total Fund returned 1.3% net of fees during the first quarter as risk assets produced positive returns. Long-term performance for the Total Fund remains strong, with the State earning returns of 5.0% and 5.1% per annum over the trailing seven- and ten-year periods.

Absolute results were positive for most of the State's investment pools, with each pool keeping pace with, or modestly outperforming, their respective benchmarks during the quarter. The State's non-permanent funds with larger strategic allocations to fixed income investments generated lower returns on an absolute basis, but similar returns on a relative basis, compared to the State's permanent funds.

The Bloomberg US Aggregate Bond Index declined by 3.4% in the quarter, as treasury yields rose this quarter. Diversification away from core US bonds had mixed results as bank loans, EMD, and low duration outperformed the broad market, while long duration underperformed. The State's core fixed income managers slightly underperformed the broad market index, collectively returning -3.4%. Emerging markets debt and low duration outperformed their respective benchmarks, while long duration and bank loans modestly underperformed their respective benchmarks during the quarter.

US equity markets had a strong recovery across all market capitalizations and styles during the first quarter. Major US equity indices finished the quarter in positive territory, with the Russell 3000 Index returning 6.3% for the quarter. The State's All Cap and Small Cap US equity composites had positive returns during the first quarter, keeping pace with or modestly underperforming their respective indices.

Developed international markets outperformed emerging markets during the quarter, with the MSCI EAFE Index returning 3.5% and the MSCI Emerging Markets Index returning 2.3%. The State's international equity composite returned 4.4% during the quarter, outperforming the MSCI ACW Ex US

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Index by 0.9%. Passively managed strategies within the State's international equity portfolio kept pace with their respective benchmarks, while Arrowstreet outperformed its respective benchmark by 4.4%. Harding Loevner had underperformance of 2.6%.

Mixed assets, including preferred stock and MLPs, generated mixed absolute returns during the quarter. Cohen & Steers returned -0.1% in the quarter, but underperformed its benchmark by 0.1%. MLPs had strong positive performance as Harvest Active and Harvest Passive returned 18.6% and 21.3%, respectively, but both underperformed the index.

Core real estate generated a positive return during the quarter, with income and capital appreciation approximately equal. The State's core real estate composite earned 1.9% in the quarter, equal to the NCREIF ODCE Index. Clarion earned 2.1%, while UBS returned 1.1%. MS Prime also had a positive return of 1.9%.

Diversified hedge funds returned -0.8% during the quarter, underperforming the HFRI FOF Composite Index by 2.8%. Grosvenor Diversified Hedge Funds and Internal Diversified Hedge Funds returned -0.6% and -0.9%, respectively.

Capital Markets Review



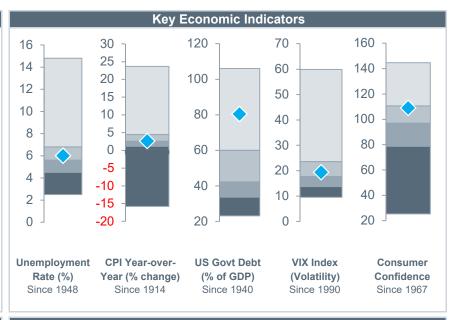
Capital Markets Review As of March 31, 2021

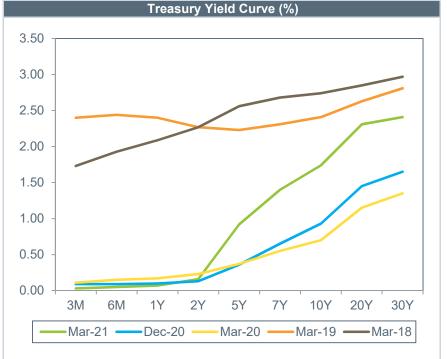
First Quarter Economic Environment

Investor expectations for a swift global economic recovery rose with the progress of vaccination distribution in the US being a key catalyst. The passage of further fiscal support in the US and anticipation of a bill more focused on infrastructure spending also factored into rising global and US GDP growth forecasts for 2021-22. Monetary policies remained supportive with the Federal Open Markets Committee (FOMC) and other major central banks maintaining interest rate levels near or below zero. In addition, the FOMC reiterated a commitment to accommodative policies until its inflation target is reached and a stronger labor market is sustained. As investors digested the potential for higher future growth and inflation, long-term bond yields moved higher throughout Q1. However, potential drags on sustained economic growth, including newer variants of the coronavirus and the prospect of rising inflationary pressures, remain as risks to the ongoing recovery. Another headwind to the recovery is the lower vaccination rates reported in other developed countries and some emerging market countries making parts of the world more susceptible to further outbreaks. With this backdrop, risk assets delivered positive returns in Q1 with most fixed income groups experiencing negative returns as longer-dated Treasury yields moved higher. Most commodity prices rose during Q1, notably crude oil appreciated quickly, partially driven by a tanker blocking passage of the Suez Canal in March.

Economic Indicators	Mar-21		Dec-20	Mar-20	Mar-18	20 Yr
Federal Funds Rate (%)	0.06	▼	0.09	0.08	1.68	1.42
Breakeven Infl 5 Yr (%)	2.60		1.97	0.53	2.04	1.83
Breakeven Infl 10 Yr (%)	2.37	A	1.99	0.93	2.06	2.01
CPI YoY (Headline) (%)	2.6	A	1.4	1.5	2.4	2.1
Unemployment Rate (%)	6.0	▼	6.7	4.4	4.0	6.1
Real GDP YoY (%)	0.4	A	-2.4	0.3	3.1	1.7
PMI - Manufacturing	64.7		60.5	49.7	59.2	52.9
USD Total Wtd Idx	114.13	A	111.55	122.82	107.67	103.22
WTI Crude Oil per Barrel (\$)	59.2		48.5	20.5	64.9	62.7
Gold Spot per Oz (\$)	1,708	▼	1,898	1,577	1,326	1,028

Gold Spot per Oz (\$)	1,700	1,090	1,377	1,320	1,020
Market Performance (%)	QTD	CYTD	1 Yr	5 Yr	10 Yr
S&P 500 (Cap Wtd)	6.17	6.17	56.35	16.29	13.91
Russell 2000	12.70	12.70	94.85	16.35	11.68
MSCI EAFE (Net)	3.48	3.48	44.57	8.85	5.52
MSCI EAFE SC (Net)	4.50	4.50	61.98	10.50	8.01
MSCI Emg Mkts (Net)	2.29	2.29	58.39	12.07	3.65
Bloomberg US Agg Bond	-3.38	-3.38	0.71	3.10	3.44
ICE BofAML 3 Mo US T-Bill	0.02	0.02	0.12	1.19	0.63
NCREIF ODCE (Gross)	2.11	2.11	2.32	6.20	9.67
FTSE NAREIT Eq REIT (TR)	8.87	8.87	37.78	5.33	8.56
HFRI FOF Comp	2.01	2.01	24.00	5.64	3.44
Bloomberg Cmdty (TR)	6.92	6.92	35.04	2.31	-6.28







US Equity Review As of March 31, 2021

First Quarter Review

Broad Market

US equity markets opened 2021 with solid performance in Q1, driven by the passage of the \$1.9 trillion American Recovery Plan and hopes for a full reopening of the US economy with an ahead of schedule vaccine rollout. After poor performance at the start of Q1, the S&P 500 Index bounced back to finish the guarter up 6.2%.

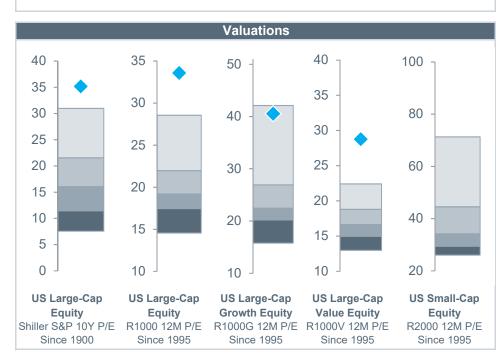
Market Cap

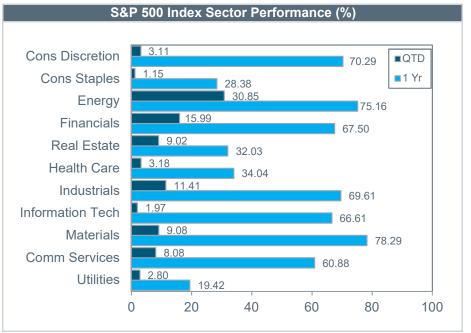
Small-cap stocks significantly outperformed their larger-cap counterparts. The Russell 2000 Index returned 12.7% compared to 6.2% for the S&P 500.

Style and Sector

Value continued to outperform growth, to a much greater extent than in Q4 2020, across the market capitalization spectrum. The Russell 1000 Value Index returned 11.2% in Q1, versus 0.9% for the Russell 1000 Growth Index.







Valuation data courtesy of Bloomberg Professional Service and Robert J. Shiller, Irrational Exuberance, Second Edition.

P/E metrics shown represent the 5th through 95th percentiles to minimize the effect of outliers. Current R2000 P/E is unavailable due to negative earnings per share as of 03/31



Non-US Equity Review

As of March 31, 2021

First Quarter Review

Developed Markets

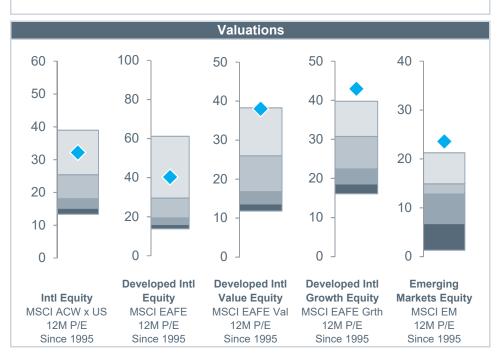
Developed international equity lagged the US market in Q1, but did provide positive absolute returns. The rotation into value stocks continued in Q1 with growth stocks finishing in negative territory and small-cap stocks outperforming large. Median manager performance indicates that active management delivered mixed results amid the positive market returns in Q1.

Emerging Markets

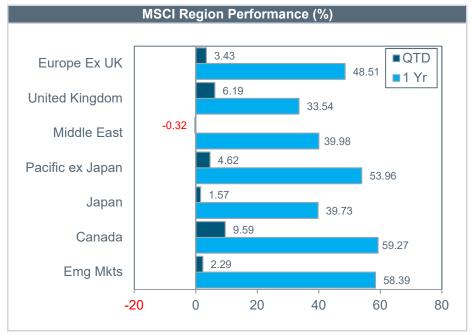
Emerging markets ended Q1 with positive returns, but underperformed developed markets. Value stocks outperformed growth and small cap outperformed large, but the spreads between these groups were not as significant as in developed international markets. Active management continued to add value this quarter and universe median excess returns indicate significant alpha has been produced in the last twelve months.

Market Cap & Style

In both developed international markets and emerging markets, value stocks outperformed growth, while small-cap stocks outperformed large-cap.









P/E metrics shown represent the 5th through 95th percentiles to minimize the effect of outliers. All returns are shown net of foreign taxes on dividends.



Fixed Income Review

As of March 31, 2021

First Quarter Review

Broad Market

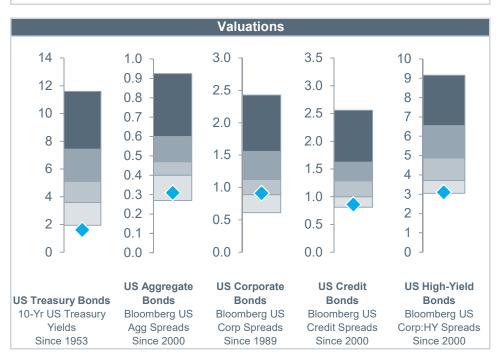
The Bloomberg US Aggregate Index declined -3.4% in Q1 as Treasury yields rose abruptly. The yield movement was primarily driven by investors reacting to potential inflationary pressure caused by a strong economic recovery.

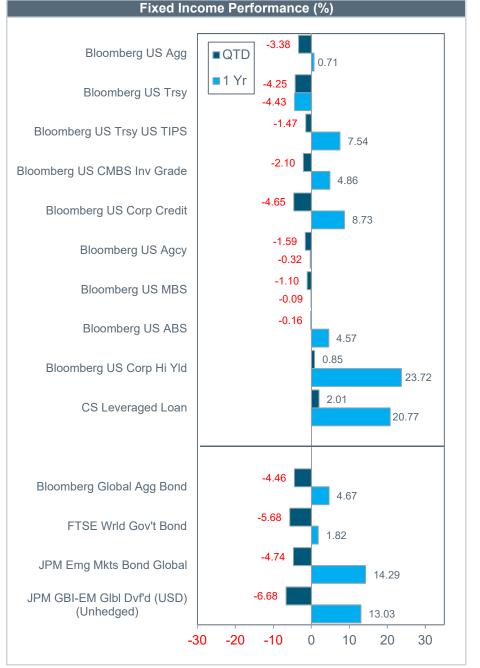
Credit Market

Below investment grade rated debt continued outperforming the broader market, a trend also seen in Q4 2020. The Bloomberg US Credit Index declined -4.5%, while the Bloomberg US High Yield Index returned 0.9% in Q1, largely carried by the lowest quality debt, with Caa rated debt returning 3.6% QTD in particular.

Emerging Market Debt

Increased US stimulus and an improving US economy contributed to a strengthening US Dollar. Local currency denominated debt as measured by the JPM GBI-EM Global Diversified Index returned -6.7%, underperforming both hard currency and corporate emerging market debt.







Valuations shown represent the 5th through 95th percentiles to minimize the effect of outliers.



Alternatives Review As of March 31, 2021

First Quarter Review - Absolute Return

General Market - Hedge Funds

Hedge fund returns in Q1 were positive in aggregate, though with considerable dispersion across strategies and trading styles. The HFRI Fund Weighted Composite Index returned 6.1% in Q1, outperforming its asset weighted counterpart. Given the style shifts seen in equity markets, managers with growth tilts lagged peers. Short alpha was particularly challenged, with prime brokerage data pointing to one of the worst quarters on record for stock picking on the short side.

General Market - Global Tactical Asset Allocation (GTAA)

GTAA strategies RVK follows closely largely generated positive absolute returns in Q1, ranging from low- to mid-single digits. Long-biased strategies performed well, though with some divergence, versus a static and less diversified blend of 60% US equity and 40% US fixed income. Generally, strategies that have continued to maintain a value bias relative to peers outperformed in Q1. Many of the strategies that outperformed peers have continued adding to alternative exposures.

HFRI Hedge Fund Performance (%) 2.01 HFRI FOF QTD 24.00 3.93 Conv Arbitrage ■1 Yr 24.74 6.82 **Equity Hedge** 47.42 1.77 Mkt Neutral Eq 5.29 8.50 Distressed 4.20 Macro 11.60 3.67 Relative Value 19.48 7.60 **Event Driven** 38.17 4.83 Merger Arb 23.76 4.86 Credit Arb 27.76 -30 -10 10 30 50 70

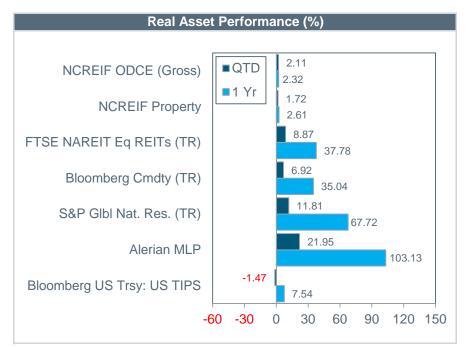
First Quarter Review - Real Assets

General Market - Diversified Inflation Strategies (DIS)

DIS managers that RVK follows closely largely generated positive absolute performance during Q1, ranging from low- to mid-single digits. For the quarter, traditional inflation-sensitive assets such as commodities, listed infrastructure, natural resource equities, and REITs posted positive absolute returns. Strategies with higher relative weights to these asset classes generally outperformed peers with higher relative exposures to TIPS, as the increase in yields during the quarter was a drag on performance.

General Market - Real Estate

Core private real estate generated a gross 2.1% return in Q1, as reported by the NFI-ODCE Index, with the total return comprising of 1.0% income and 1.1% price appreciation. While the income component improved over the prior quarter and is more in line with historical levels, price appreciation rebounded meaningfully by 0.7% from the level recorded in Q4 2020. Investors of publicly traded real estate outperformed their private market counterparts.





Annual Asset Class Performance As of March 31, 2021

				Calen	dar Year	Perform	ance					Annualized Statis	stics (01/2	2006 - 03/20)21)
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	CYTD (As of 03/21)		Return	Standard Deviation	Sharpe Ratio
Best	15.99	18.64	38.82	14.07	15.02	21.95	27.19	18.04	31.49	22.93	21.42	S&P 500 Index - US Large Cap	10.14	16.45	0.60
	14.47	16.83	32.39	13.69	5.71	21.31	21.83	8.35	25.53	19.96	12.70	Russell 2000 Index - US Small Cap	9.62	22.39	0.47
	11.25	16.76	29.75	12.50	5.47	13.34	18.04	1.87	21.51	18.40	6.17	International Equity Custom Index - International	4.49	19.13	0.27
	7.84	16.35	21.51	11.34	1.38	11.96	15.21	0.44	17.64	10.88	3.49	Cambridge US PE Index - Private Equity	12.48	9.16	1.21
	2.11	16.00	15.29	7.66	0.55	10.16	14.65	0.01	13.84	10.65	2.11	NCREIF ODCE Index - Real Estate	6.46	7.11	0.77
	1.52	13.49	13.94	5.97	0.18	9.94	9.11	-4.02	13.47	7.97	2.01	HFRI FOF Comp Index	3.11	7.13	0.30
	0.66	10.94	8.96	4.89	-0.27	8.77	7.77	-4.25	8.72	7.51	1.78	S&P U.S. Preferred Stock Index	5.42	18.30	0.31
	-1.16	9.66	5.29	3.37	-0.69	4.50	7.62	-4.38	8.64	3.12	0.02	MLP Custom Index	5.44	27.65	0.30
	-1.75	4.95	0.12	1.60	-4.41	2.65	4.12	-6.21	8.39	1.50	0.00	Bloomberg US Agg Bond Index - Fixed Income	4.18	3.38	0.88
	-4.18	4.79	-0.17	0.18	-5.66	1.94	3.54	-11.01	7.55	1.19	-0.01	S&P LSTA Lvgd Loan Index - Bank Loans	4.67	10.50	0.37
ļ	-5.72	4.21	-2.02	-3.87	-14.92	0.51	0.84	-11.67	5.34	0.67	-3.38	EMD Custom Index	4.66	11.65	0.35
Worst	-13.71	0.26	-8.98	-5.72	-35.07	0.38	-5.58	-14.20	2.47	-25.60	-4.02	JP Morgan Cash Custom Index - Cash Equiv	1.49	0.85	1.09

The International Equity Custom Index consists of the MSCI EAFE Index (USD) (Gross) through July 2010 and the MSCI ACW Ex US Index (USD) (Net) thereafter.

The MLP Custom Index consists of the S&P MLP Index (TR) through 06/30/2019, the Alerian MLP Index through 12/31/2019, and 50% Alerian MLP Index / 50% Alerian Midstream Energy Index thereafter.

The EMD Custom Index consists of the JPM GBI-EM GbI Dvf'd Index through 02/29/2020, 70% JPM GBI-EM GbI Dvf'd Index / 30% JPM CEMBI Brd Dvf'd Index thereafter through 11/30/2020, and 1/3 JPM GBI-EM GbI Dvf'd Index, 1/3 JPM CEMBI Brd Dvf'd Index, and 1/3 JPM EMBI GbI Dvf'd Index thereafter.

The JP Morgan Cash Custom Index is calculated monthly using beginning of the month investment weights applied to each corresponding primary benchmark return.

The primary benchmark for JP Morgan Cash is the ICE BofAML 3 Mo US T-Bill Index and for JP Morgan Extd is the JP Morgan Blended Index through 06/30/2019, and the ICE BofAML 3 Mo US T-Bill Index thereafter.

The Cambridge US Private Equity Index is shown for informational purposes only. Due to availability of data, current quarter performance assumes a 0.00% return.



ASSET CLASS SUMMARY

US Equity: The **US Equity** structure employs a core-satellite approach, which gains passive, low-cost beta exposure at its core. The core component of the portfolio utilizes passive management intended to replicate a broad market index. The Small Cap investment managers include both active management as well as passive strategies.

International Equity: The **International Equity** structure follows an ACWI Ex US approach, which offers coverage of the broad international equity market, including developed and emerging markets. The International Equity portfolio is comprised of both passive and active management styles. The mix of passive and active management helps to minimize costs, while striving to maximize the probability of alpha generation at a similar absolute risk level.

Private Equity: The **Private Equity** asset class has primarily been accessed through fund of funds and customized fund of one structures. Investments also include exposure to direct co-investments and secondaries. Recent commitments within this asset class have added global diversification to the portfolio.

Real Estate: The **Real Estate** portfolio currently consists of Core and Non-Core Real Estate investments. The overall asset class structure has remained relatively conservative with regard to asset types and the use of financial leverage. Core Real Estate has historically been focused on diversified US markets, lower leverage and higher occupancy rates, while Non-Core Real Estate investments allow for greater investment flexibility.

Diversified Hedge Funds: The **Diversified Hedge Funds** structure historically consisted of multi-Hedge Fund of Fund investments. In 2015, the portfolio began a transition to a core-satellite approach, utilizing a single Fund of Fund manager and satellite direct Hedge Funds. Initial funding was completed in July 2018 for a custom fund of one, consisting of a discretionary multi-strategy FoF portfolio and a non-discretionary portfolio of direct hedge funds managed by the Treasurer's Office. An increase in the use of direct Hedge Funds is anticipated to lower external management expenses and allow for greater control over the program.

Preferred Stock: The **Preferred Stock** portfolio consists of a single, specialized preferred stock investment manager. The portfolio invests in a diversified portfolio of preferred securities including exchange-traded and over-the-counter preferreds and contingent convertibles (CoCos). The investment team seeks to take advantage of the various term structures of preferreds in order to optimize the yield and interest rate sensitivity of the portfolio.

MLPs: The **MLPs** portfolio consists of two portfolios with a specialized investment manager. The passive strategy is designed to replicate the market index, whereas the active strategy investment objective is to deliver both high yield and stable growth through the disciplined application of its fundamental bottom-up analysis as well as its trading strategies and investments in MLP and energy infrastructure assets.

Fixed Income: The **Fixed Income** portfolio employs a core-satellite approach. Serving as "the anchor" to the portfolio, Core Fixed Income aims to preserve capital, by providing relatively "safe" investments and stable income. Core Fixed Income has disaggregated segments comprised of investment grade corporate, MBS, and government. The Internally Managed Portfolio also provides liquidity and safety of capital. The satellite portfolios serve as dedicated specialists. Bank Loans provide diversification from traditional fixed income investments and the potential for enhanced return. Investments in Emerging Market Debt diversify US Dollar exposure and provide opportunities to capitalize on global growth trends. Opportunistic Fixed Income is employed to capitalize on severe market dislocations, such as European Debt.



INDEX GLOSSARY

MSCI ACW: The **MSCI All Country World Index** is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets. The index consists of the 23 developed countries that make up the MSCI World Index as well as the following emerging market countries: *Brazil, Chile, China, Colombia, Czech Republic, Egypt, Greece, Hungary, India, Indonesia, Korea, Malaysia, Mexico, Pakistan, Peru, Philippines, Poland, Russia, Qatar, South Africa, Taiwan, Thailand, Turkey, and United Arab Emirates.*

Russell 3000: The **Russell 3000 Index** is a market-capitalization weighted index of 3,000 widely held equity securities designed to measure performance of the entire US stock market.

State Street All Cap Custom Index: The **State Street All Cap Custom Index** consists of 69% Russell 3000 Index, 24% FTSE RAFI US 1000 Index, and 7% MSCI US Min Vol Index (USD) (Gross) through 02/27/2020, State Street All Cap account performance on 02/28/2020, and the S&P 500 Index thereafter.

S&P 500: The **S&P 500 Index (Cap Wtd)** is a commonly recognized, market-capitalization weighted index of 500 widely held equity securities designed to measure broad US equity performance.

All Cap US Equity Custom Index: The **All Cap US Equity Custom Index** consists of the Russell 3000 Index through 02/29/2020, and the S&P 500 Index thereafter.

Russell 2000: The **Russell 2000 Index** measures the performance of the small-cap segment of the US equity market. It includes approximately 2,000 of the smallest securities by market cap from the Russell 3000 Index.

International Equity Custom Index: The **International Equity Custom Index** consists of the MSCI EAFE Index through July 2010 and the MSCI ACW Ex US Index thereafter.

MSCI EAFE: The **MSCI EAFE** (Europe, Australasia, Far East) Index is designed to measure equity market performance of 21 developed countries, excluding the US & Canada: Australia, Austria, Belgium, Denmark, Finland, France, Germany, Hong Kong, Ireland, Israel, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland, and the United Kingdom.

MSCI ACW Ex US: The **MSCI ACW (All Country World) Ex US Index** consists of large cap and mid cap representation within the same countries that comprise the MSCI ACW Index, excluding the United States.

MSCI ACW Ex US IM: The **MSCI ACW (All Country World) Ex US Investable Market Index** consists of large cap, mid cap, and small cap representation within the same countries that comprise the MSCI ACW Index, excluding the United States.

S&P US Preferred Stock: The **S&P US Preferred Stock Index** covers the US market of capital stock that pays dividends at a specified rate and has a preference over common stock in the payment of dividends and the liquidation of assets.

S&P MLP: The **S&P MLP** Index is a float-adjusted, cap-weighted index of energy MLPs and publicly traded limited liability companies, which have a similar legal structure to MLPs and share the same tax benefits. Constituents must have a minimum float-adjusted market cap of USD 300 million.

MLP Custom Index: The **MLP Custom Index** consists of the S&P MLP Index (TR) through 06/30/2019, the Alerian MLP Index through 12/31/2019, and 50% Alerian MLP Index / 50% Alerian Midstream Energy Index thereafter.



Alerian MLP Index: The **Alerian MLP Index** is an index of energy infrastructure Master Limited Partnerships (MLPs). It is a capped, float-adjusted, capitalization-weighted index, whose constituents represent approximately 85% of the total float-adjusted market capitalization.

Alerian Midstream Energy Index: The **Alerian Midstream Energy Index** is an index of energy infrastructure Master Limited Partnerships (MLPs), whose constituents earn the majority of their cash flow from midstream activities involving energy commodities.

NCREIF ODCE: The **NCREIF ODCE** (Open End Diversified Core) Index is an index of investment returns reporting on both a historical and current basis the results of 38 open-end commingled funds pursuing a core investment strategy, some of which have performance histories dating back to the 1970s. The NCREIF ODCE Index is capitalization-weighted and performance is time-weighted.

NCREIF Property: The **NCREIF Property Index** prepared by the National Council of Real Estate Investment Fiduciaries is a quarterly time series composite return measure for over 6,000 individual commercial real estate properties acquired in the private market for investment purposes. Total performance represents returns from appreciation and income, and includes multi-family, office, retail, and industrial properties.

HFRI FOF Comp Index: The **HFRI FOF (Fund of Funds) Comp Index** average is created by Hedge Fund Research, Inc. and contains over 800 funds of hedge funds that are each invested in multiple investment strategies.

Bloomberg US Agg Bond: The **Bloomberg US Aggregate Bond Index** covers the US dollar-denominated, investment-grade, fixed-rate, taxable bond market of SEC-registered securities: US Treasury and agency bonds, domestic corporate debt, and mortgage-backed securities.

Bloomberg US Agg Int Index: The **Bloomberg US Aggregate Intermediate Index** covers the subsection of the Bloomberg US Aggregate Bond Index with remaining maturities between one and ten years.

PIMCO Custom Index: The **PIMCO Custom Index** consists of the Bloomberg US Agg Bond Index through February 2018, the Bloomberg US Agg Int Index through June 2019, the Bloomberg US Agg Bond Index through 03/26/2020, account performance from 03/27/2020 through 04/03/2020, and the Bloomberg US Agg Bond Index thereafter.

Payden & Rygel Custom Index: The **Payden & Rygel Custom Index** consists of the Bloomberg US Corp Inv Grade Index through 03/25/2020, account performance from 03/26/2020 through 03/31/2020, and Bloomberg US Corp Inv Grade Index thereafter.

Internal Intermediate Govt Fixed Income Portfolio Index: The Internal Intermediate Govt Fixed Income Portfolio Index currently consists of the Bloomberg US Treasury Index. November 2019 performance consists of the Internal Intermediate Govt Fixed Income Portfolio. Prior to November 2019, the index consists of Bloomberg US Gov't Int Term Bond Index. Prior to December 2009, the index consisted of the Bloomberg US Gov't Crdt Bond Index.

S&P/LSTA Leveraged Loan: The **S&P/LSTA Leveraged Loan Index** reflects the market-weighted performance of institutional leveraged loans in the US loan market.

CS Western European Hi Yld: The **Credit Suisse Western European High Yield Index** is designed to mirror the investable universe of the Western European high yield debt market. The index includes issues denominated in \$US and Western European currencies.



EMD Custom Index: The **EMD Custom Index** consists of the JPM GBI-EM GbI Dvf'd Index through 02/29/2020, 70% JPM GBI-EM GbI Dvf'd Index / 30% JPM CEMBI Brd Dvf'd Index thereafter through 11/30/2020, and 1/3 JPM GBI-EM GbI Dvf'd Index, 1/3 JPM CEMBI Brd Dvf'd Index, and 1/3 JPM EMBI GbI Dvf'd Index thereafter.

JP Morgan EMB (JEMB) Hard Currency/Local Currency 50/50: The JP Morgan EMB (JEMB) Hard Currency/Local Currency 50/50 consists of 50% JPM GBI-EM GbI Dvf'd Index, 25% JPM CEMBI Brd Dvf'd Index, and 25% JPM EMBI GbI Dvf'd Index.

Goldman Sachs Index: The **Goldman Sachs Index** consists of JPM CEMBI Brd Dvf'd Index through 11/22/2020, account performance from 11/23/2020 through 11/30/2020, and the JPM CEMBI Brd Dvf'd Index thereafter.

JP Morgan GBI-EM GlbI Dvf'd: The JPMorgan GBI-EM Global Diversified Total Return Index (Unhedged) is a global emerging markets index that consists of regularly traded, liquid fixed-rate, domestic currency government bonds.

JP Morgan CEMBI Broad Diversified Index: The JP Morgan CEMBI Broad Diversified Index is an index that is comprised of the corporate segment of emerging markets debt.

JP Morgan Emerging Markets Bond Global Diversified Index: The JP Morgan Global Diversified Index is an index comprised of the hard currency segment of emerging markets debt.

Bloomberg US Govt/Credit: Long Trm Bond: The **Bloomberg US Gov't/Credit Long Term Bond Index** covers the non-securitized component of the US Aggregate Index, with maturities of 10 years or more. It includes investment grade, US dollar-denominated, fixed-rate Treasuries, government-related and corporate securities.

Bloomberg US Govt: Long Trm Bond: The **Bloomberg US Gov't Long Term Bond Index** covers public US government obligations with remaining maturities of ten years or more.

Bloomberg US Credit: Long Trm Bond: The **Bloomberg US Credit Long Term Bond Index** covers public US investment grade corporate bonds with remaining maturities of ten years or more.

Bloomberg US Govt: Int Trm Bond: The **Bloomberg US Gov't Intermediate Term Bond Index** covers public US government obligations with remaining maturities between one and ten years.

Bloomberg US Corp Int Trm Bond: The Bloomberg US Corporate Intermediate Term Bond Index covers US investment grade corporate bonds with remaining maturities between one and ten years.

Bloomberg US Gov't/Credit 1-3 Yr Bond Index: The Bloomberg US Gov't/Credit 1-3 Year Bond Index covers all medium and larger issues of U.S. government, investment-grade corporate, and investment-grade international dollar-denominated bonds that have maturities of between one and three years and are publicly issued.

Bloomberg US Gov't 1-3 Yr Bond Index: The Bloomberg US Gov't 1-3 Year Bond Index covers public US government obligations with remaining maturities between one and three years.

Bloomberg US Credit 1-3 Yr Bond Index: The **Bloomberg US Credit 1-3 Year Bond Index** covers public investment-grade corporate, and investment-grade international dollar-denominated bonds that have maturities of between one and three years.

Bloomberg US MBS Index: The **Bloomberg US MBS Index** covers the public U.S. mortgage backed securities market.



Bloomberg US Corp Inv Grade Index: The **Bloomberg US Corp Inv Grade Index** covers the public U.S. investment grade corporate bond market.

Low Duration Fixed Income Custom Index: The **Low Duration Fixed Income Custom Index** consists of the Bloomberg US Gov't Crdt 1-3 Yr Bond Index through 06/30/2019 and the Bloomberg US Gov't 1-3 Yr Bond Index thereafter.

Opportunistic Investments Index: The **Opportunistic Investments Index** is the weighted average of the permanent funds' target allocation indices, excluding the opportunistic allocation.

JP Morgan Cash Custom Index: The JP Morgan Cash Custom Index is calculated monthly using beginning of the month investment weights applied to each corresponding primary benchmark return. The primary benchmark for JP Morgan Cash is the ICE BofAML 3 Mo US T-Bill Index and for JP Morgan Extd is the JP Morgan Blended Index through 06/30/2019, and the ICE BofAML 3 Mo US T-Bill Index thereafter.

JP Morgan Blended Index: The **JP Morgan Blended Index** consists of an equal-weighted allocation to the ICE BofAML 1-3 Year US Treasury Index, ICE BofAML 1-3 Year Agencies Index, and ICE BofAML 0-3 Year Weighted Average Life Mortgage Index.



Total Fund



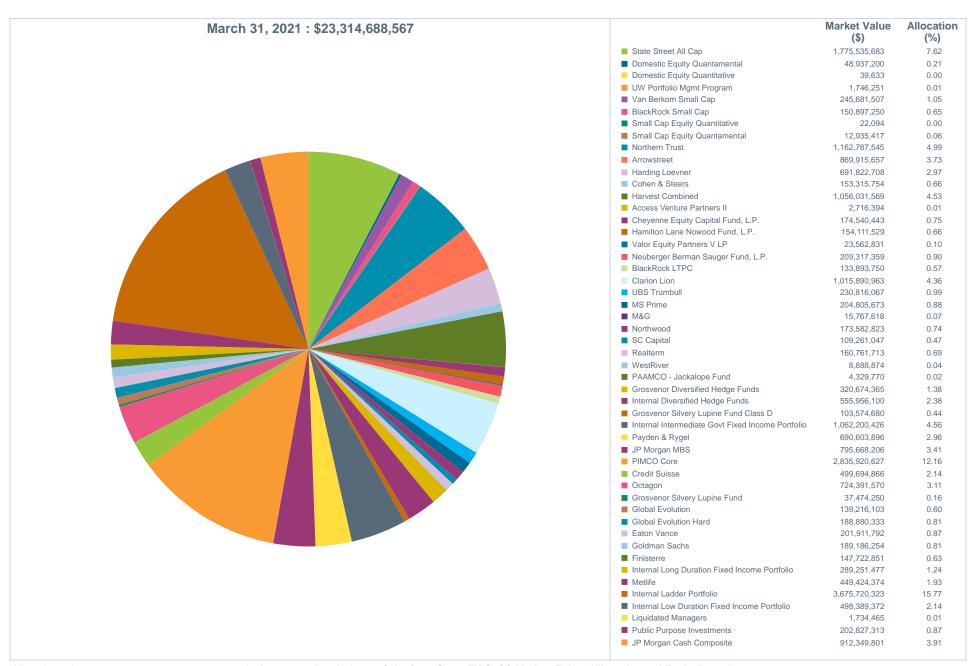
Wyoming State Treasurer's Office Asset Allocation, Performance & Schedule of Investable Assets

Asset Al	llocation & Perforn	nance		Asset Allo	cation & Performar	ice	
	Allocation		Performance (%)		Allocation		Performance (%)
	Market Value (\$)	%	FYTD		Market Value (\$)	%	FYTD
Total Fund	23,314,688,567	100.00	9.95	Diversified Hedge Funds Composite	880,960,235	3.78	9.74
All Cap US Equity Composite	1,824,512,516	7.83	29.61	PAAMCO - Jackalope Fund	4,329,770	0.02	N/A
State Street All Cap	1,775,535,683	7.62	29.66	Grosvenor Diversified Hedge Funds	320,674,365	1.38	10.54
Domestic Equity Quantamental	48,937,200	0.21	N/A	Internal Diversified Hedge Funds	555,956,100	2.38	9.35
Domestic Equity Quantitative	39,633	0.00	N/A	Core Fixed Income Composite	5,384,393,155	23.09	-1.87
UW Portfolio Mgmt Program	1,746,251	0.01	26.91	Internal Intermediate Gov't Fixed Income	1,062,200,426	4.56	-4.84
Small Cap US Equity Composite	409,536,268	1.76	49.03	Payden & Rygel IGC	690,603,896	2.96	-0.31
Van Berkom	245,681,507	1.05	39.85	JP Morgan MBS	795,668,206	3.41	1.24
BlackRock Small Cap	150,897,250	0.65	N/A	PIMCO	2,835,920,627	12.16	-1.92
Small Cap Equity Quantamental	12,935,417	0.06	N/A	Laddered Treasury Composite	3,675,720,323	15.77	0.11
Small Cap Equity Quantitative	22,094	0.00	N/A	Internal Ladder Portfolio	3,675,720,323	15.77	0.11
Int'l Equity Composite	2,724,525,910	11.69	32.76	Bank Loans Composite	1,224,086,436	5.25	9.09
Northern Trust	1,162,787,545	4.99	28.73	Credit Suisse	499,694,866	2.14	9.02
Arrowstreet	869,915,657	3.73	42.78	Octagon	724,391,570	3.11	9.26
Harding Loevner	691,822,708	2.97	27.56	Emerging Market Debt Composite	866,917,333	3.72	6.43
Preferred Stock Composite	153,315,754	0.66	11.20	Global Evolution	139,216,103	0.60	3.61
Cohen & Steers Preferred Stock	153,315,754	0.66	11.20	Global Evolution Hard	188,880,333	0.81	N/A
MLPs Composite	1,056,031,569	4.53	32.88	Goldman Sachs	189,186,254	0.81	7.27
Harvest Fund Advisors	528,770,547	2.27	31.29	Eaton Vance	201,911,792	0.87	N/A
Harvest Fund Advisors Passive	527,261,022	2.26	34.46	Finisterre	147,722,851	0.63	N/A
Private Equity Composite	698,142,306	2.99	N/A	Long Duration Fixed Income Composite	738,675,852	3.17	-8.82
Access Venture Partners II	2,716,394	0.01	N/A	Internal Long Duration Fixed Income	289,251,477	1.24	-16.03
Cheyenne Equity Capital Fund, L.P.	174,540,443	0.75	N/A	Metlife	449,424,374	1.93	-3.12
Hamilton Lane Nowood Fund, L.P.	154,111,529	0.66	N/A	Low Duration Fixed Income Composite	498,389,372	2.14	0.19
Neuberger Berman Sauger Fund, L.P.	209,317,359	0.90	N/A	Internal Low Duration Fixed Income	498,389,372	2.14	0.19
BlackRock LTPC, L.P.	133,893,750	0.57	N/A	Grosvenor Silvery Lupine Fund	37,474,250	0.16	4.58
Valor Equity Partners V LP	23,562,831	0.10	N/A	Grosvenor Opportunistic Class D	103,574,680	0.44	64.29
Real Estate Composite	1,919,774,779	8.23	N/A	Cash Equivalents	914,084,266	3.92	0.02
Clarion Lion	1,015,890,963	4.36	4.55	Fisher Investments	1,062,053	0.00	N/A
UBS Trumbull	230,816,067	0.99	-1.38	State Street Low Duration	29,699	0.00	N/A
MS Prime	204,805,673	0.88	N/A	Allianz Global Investors	36,297	0.00	N/A
SC Capital	109,261,047	0.47	N/A	Neuberger Berman Credit	574,056	0.00	N/A
Realterm	160,761,713	0.69	N/A	Cornerstone	2,354	0.00	N/A
M&G	15,767,618	0.07	N/A	TA Associates Realty	26,118	0.00	N/A
Northwood	173,582,823	0.74	N/A	Seix	1,520	0.00	N/A
WestRiver	8,888,874	0.04	N/A	Internal Equity Russell 2000	1,095	0.00	N/A
				Heitman	1,273	0.00	N/A
				Public Purpose Investments	202,827,313	0.87	N/A

	Schedule of Investabl	e Assets - Total Fund Co	omposite Ex Public Purp	ose Investments	
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	Unit Value
FYTD	22,455,329,030	-1,379,274,900	2,035,807,124	23,111,861,254	109.41

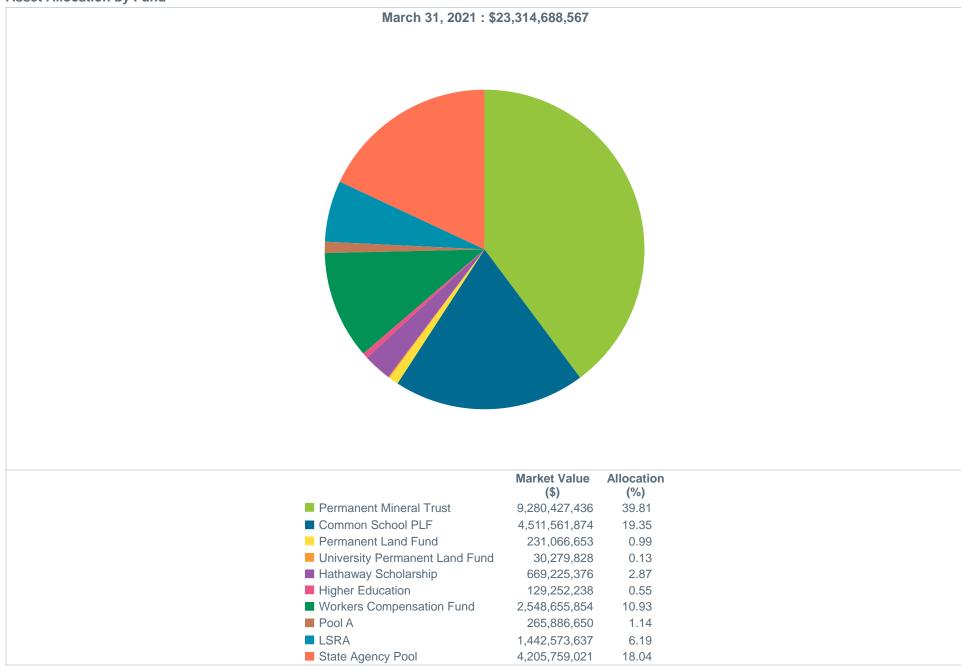
Allocations may not sum up to 100% exactly due to rounding. Performance shown is net of fees and excludes Public Purpose Investments (PPIs) and operational cash. Market value shown for Public Purpose Investments (PPIs) is as of 3/31/2021. Investment manager fees are accounted for on a quarterly basis. Wyoming State Treasurer's Office fiscal year ends on June 30th. Fiscal year begins 7/1/2020.





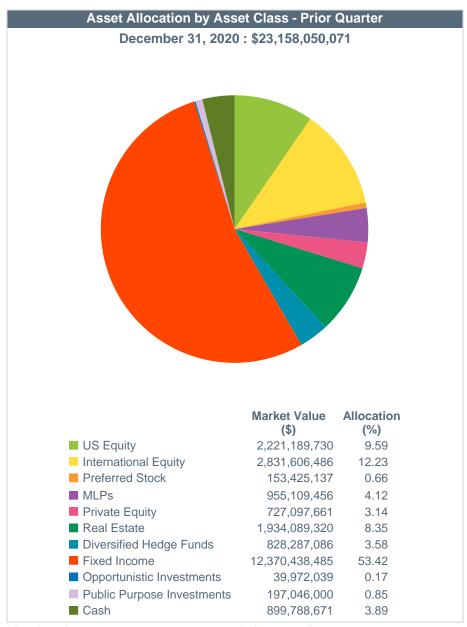
Allocations shown may not sum up to 100% exactly due to rounding. Heitman, Seix, State Street TIPS, CS McKee, Fisher, Allianz, Internal Equity Russell 2000, TA Realty, Cornerstone, NB Credit and State Street Low Duration are combined because the page shown only allows 50 managers to be included.

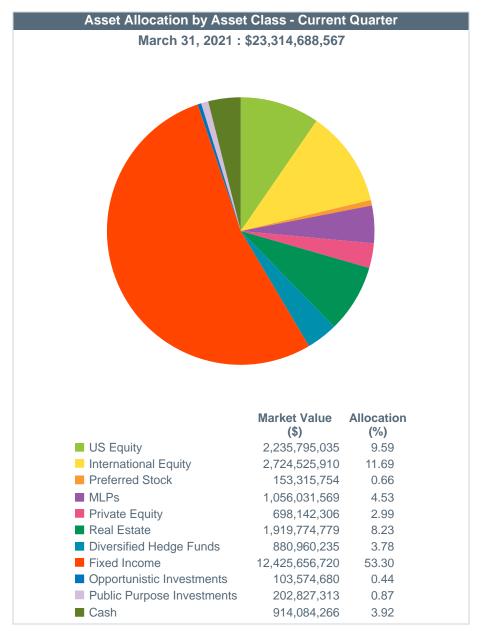




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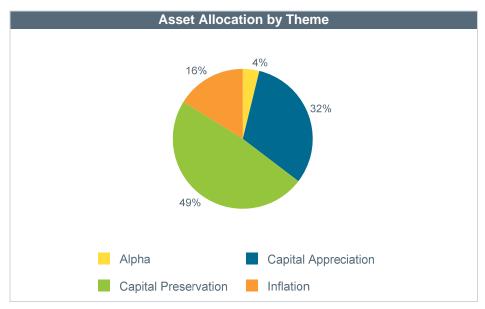


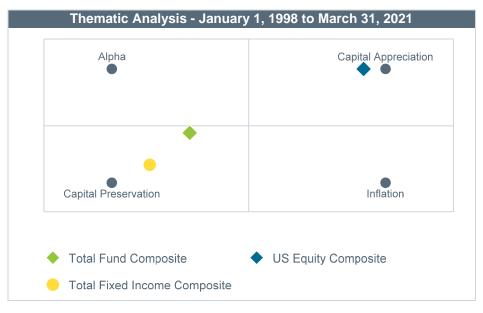


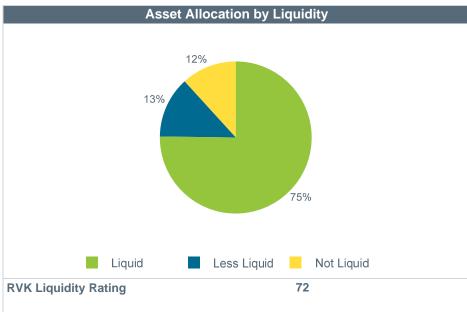


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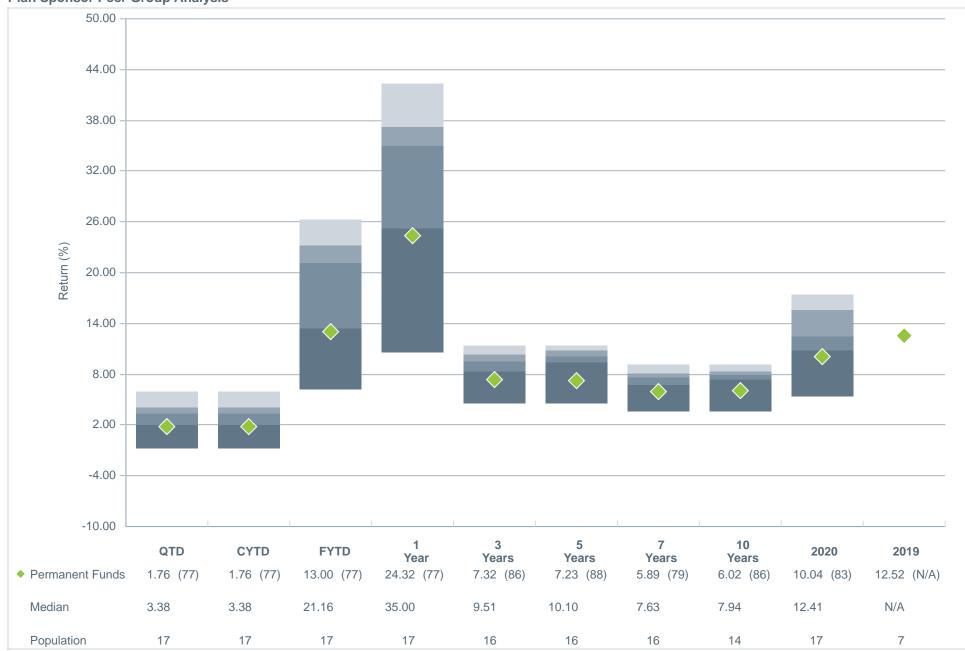


		Correlation Mat	rix - 10 Years	
	Α	В	С	D
Α	1.00			
В	0.70	1.00		
С	-0.28	-0.39	1.00	
D	0.60	0.79	-0.11	1.00
A B C D	= = = = = = = = = = = = = = = = = = = =	HFRI EH: Equity Market Not MSCI ACW Index (USD) (Considered Bloomberg US Gov't Bond Real Return Custom Index	Gross) (Capital Appre Index (Capital Prese	

Asset Allocation by Theme is based on dedicated manager allocations; as such, thematic allocations are approximations. The RVK Liquidity Rating is calculated using beginning of month investment weights applied to each corresponding asset class liquidity rating. Please see the Glossary for additional information regarding these metrics. Allocations may not sum to 100% exactly due to rounding.

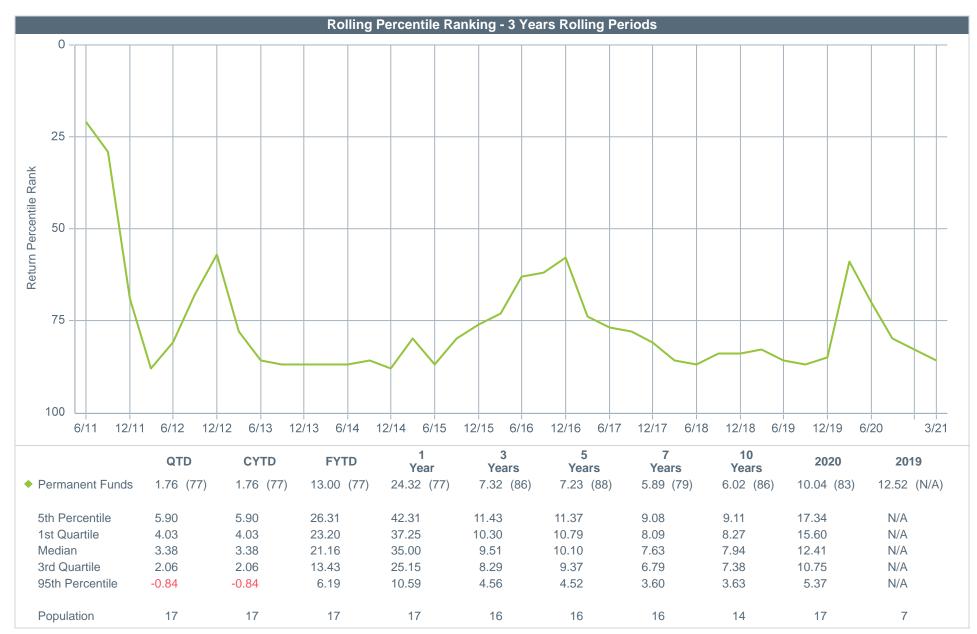


Wyoming State Treasurer's Office All Endowment&Foundation > \$1B-Total Fund Plan Sponsor Peer Group Analysis



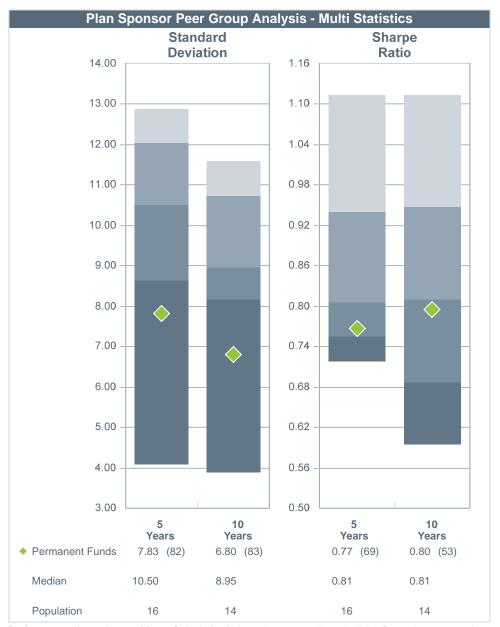
Performance shown is net of fees. Calculation is based on quarterly periodicity. Parentheses contain percentile ranks. Wyoming State Treasurer's Office fiscal year ends on June 30th.





Performance shown is net of fees. Calculation is based on quarterly periodicity. Parentheses contain percentile ranks. Wyoming State Treasurer's Office fiscal year ends on June 30th.



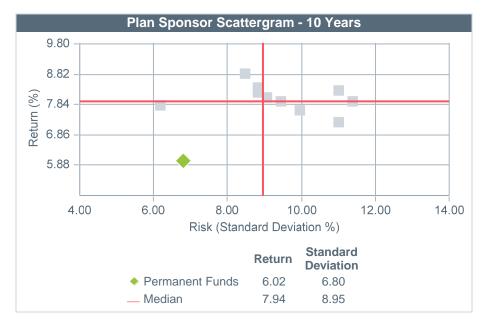




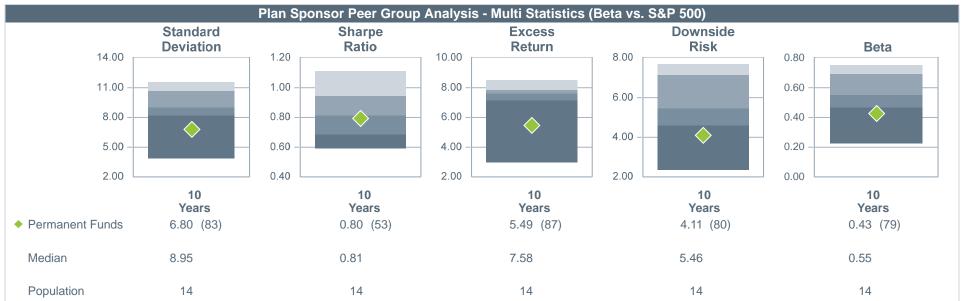


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Wyoming State Treasurer's Office Permanent Funds - Long-Term Total Return Focus

	Investme			Lo	ong-Te	rm Targ	et Allo	cation						
Fund Type: Perma	anent Fund Produce maximized long-te	erm investment income	and capital ga	nins				Minimul Range (Target	(%)	Maxim Range		
	appropriate level of safety		and capital ga	P	ermanent Mineral	Trust		-		100.0	00		-	
	nt Goals: Capital appreci		protection again	inst Br	Broad US Equity			5.50			11.00		16.50	
	eservation and liquidity ar		nall Cap US Equity		1.50 9.00			3.	00	4.5	4.50 27.00			
Maximum Equity	Allocation: 70%		ernational Equity					18.		27.0				
	m Target Equity Allocati		LPs			2.75			50	8.2				
Spending Policy					ivate Equity		4.00				00	12.0		
 Permanent Mine 	eral Trust Fund: 5% of th	e five-year trailing avera	age market va	ilue.	ore Real Estate			3.00			00	9.00		
	first day of the fiscal year	te will No	on-Core Real Estate			2.50			00	7.5				
be 4.75%. In fisc	al year 2024 and thereafte	er, the spending rate wil	ll be 4.5%.		Diversified Hedge Funds 3.75				7.50		11.25			
 Hathaway Scho 	larship: The amount nece	ded	ore Fixed Income			12.50		25.		37.50 9.00				
under W.S. 21-10	under W.S. 21-16-1301 et seq.				ank Loans			3.00 0.00		6.00 0.00		9.0 5.0		
	•				oportunistic Fixed Income	е	2.50				5.00 7.5			
	Thematic	Allocation			oportunistic Investments		0.00 0.00			5.0				
	Thematic .	Allocation			ash (inv. in SAP)			0.00		0.		5.0		
7	46%													
_								Risk Me	trics					
		28%	18%				5 Y	ears			10 Ye	ears		
8%			10%			PMTF	PLF	UPLF	Hath	PMTF	PLF	UPLF	Hath	
0 70				SI	harpe Ratio	0.7	0.8	0.7	0.7	0.8	0.8	0.7	0.7	
Alpha	Capital Appreciation	Capital Preservation	Inflation	St	tandard Deviation	8.7	8.4	9.7	8.7	7.5	7.2	8.1	7.2	
ирпа	Oapital Approciation	Capital i reservation	mation	В	eta	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.4	
			Compa	arative Pe	erformance									
		Allocation				Perfo	rmance	e (%)						
		Market Value (\$)	QTD	CYTD	FYTD	1 Year		3 Years	5 Yea		7 Years	Υ	10 'ears	

Comparative Performance												
	Allocation				Perform	ance (%)						
	Market Value (\$)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years			
Permanent Mineral Trust	9,280,427,436	2.6	2.6	15.8	28.1	7.7	7.6	6.2	6.3			
PMTF - Total Fund Index		2.6	2.6	15.3	27.5	7.5	7.4	6.1	6.2			
Difference		0.0	0.0	0.5	0.6	0.2	0.2	0.1	0.1			
Permanent Land Fund	231,066,653	2.6	2.6	15.5	27.2	7.7	7.5	6.1	6.2			
PLF - Total Fund Index		2.6	2.6	15.3	27.5	7.6	7.3	6.1	6.1			
Difference		0.0	0.0	0.2	-0.3	0.1	0.2	0.0	0.1			
University Permanent Land Fund	30,279,828	2.6	2.6	16.5	30.9	7.9	8.0	6.4	6.4			
UPLF - Total Fund Index		2.6	2.6	15.3	27.5	7.7	7.8	6.4	6.4			
Difference		0.0	0.0	1.2	3.4	0.2	0.2	0.0	0.0			
Hathaway Scholarship	669,225,376	2.9	2.9	15.6	27.8	7.6	7.1	5.8	5.8			
Hathaway - Total Fund Index		2.6	2.6	15.3	27.5	7.4	7.0	5.9	5.8			
Difference		0.3	0.3	0.3	0.3	0.2	0.1	-0.1	0.0			

Performance shown is net of fees and annualized for periods greater than one year. Wyoming State Treasurer's Office fiscal year ends on June 30th. Beta is calculated relative to the MSCI ACW Index (Net). Calculations are based on quarterly periodicity. Allocations shown may not sum up to 100% exactly due to rounding. Thematic Allocation shown represents the Permanent Mineral Trust.



				Peri	manent Mir	neral Trust				
	Allocation	Allocation	Minimum	Target	Maximum					
	(\$)	(%)	(%)	(%)	(%)	Grosvenor		0.1%		
Grosvenor	13,286,129	0.1	0.0	0.0	0.0	Broad US Equity		0.0%		
Broad US Equity	1,005,832,522	11.0	5.5	11.0	16.5	Small Cap US Equity	-0.4	1%		
Small Cap US Equity	239,055,064	2.6	1.5	3.0	4.5	Broad International Equity	-0.8%			
Broad International Equity	1,578,061,444	17.2	9.0	18.0	27.0	MLPs		0.0%		
MLPs	499,476,738	5.5	2.8	5.5	8.3	Private Equity	-0.9%			
Private Equity	646,624,674	7.1	4.0	8.0	12.0	Core Real Estate			1.2%	
Core Real Estate	660,436,136	7.2	3.0	6.0	9.0	Non-Core Real Estate	-2.0%			
Non-Core Real Estate	278,002,434	3.0	2.5	5.0	7.5	Diversified Hedge Funds		0.2%	6	
Diversified Hedge Funds	708,890,264	7.7	3.8	7.5	11.3	Core Fixed Income	-0.7%			
Core Fixed Income	2,223,354,796	24.3	12.5	25.0	37.5	Bank Loans EMD		0.1% 0.2% 		
Bank Loans	539,583,255	5.9	3.0	6.0	9.0	Opportunistic	-(.7%	
EMD	442,970,130	4.8	2.5	5.0	7.5	Cash (Liquidated Managers)		0.0%	.1 70	
Opportunistic	60,901,198	0.7	0.0	0.0	5.0	Cash Equivalents		0.070		2.8%
Cash (Liquidated Managers)	750,248	0.0	0.0	0.0	0.0	-4.0%	-2.0%	0.0%	2.0%	4.0%
Cash Equivalents	258,384,829	2.8	0.0	0.0	5.0	-4.070			2.070	4.070
Total	9,155,609,861	100.0		100.0		Allocation Differences				

				Pe	rmanent L	and Fund				
	Allocation	Allocation	Minimum	Target	Maximum					
	(\$)	(%)	(%)	(%)	(%)	Grosvenor		0.1%		
Grosvenor	244,901	0.1	0.0	0.0	0.0	Broad US Equity		0.2%		
Broad US Equity	25,863,669	11.2	5.5	11.0	16.5	Small Cap US Equity	-0.4%	0.270		
Small Cap US Equity	5,986,543	2.6	1.5	3.0	4.5	Broad International Equity	-0.2%			
Broad International Equity	41,167,177	17.8	9.0	18.0	27.0	MLPs		0.1%		
MLPs	12,880,338	5.6	2.8	5.5	8.3	Private Equity	-1.8%			
Private Equity	14,341,612	6.2	4.0	8.0	12.0	Core Real Estate			1.4%	
Core Real Estate	17,066,765	7.4	3.0	6.0	9.0	Non-Core Real Estate	-1.9%			
Non-Core Real Estate	7,175,192	3.1	2.5	5.0	7.5	Diversified Hedge Funds		0.6	%	
Diversified Hedge Funds	18,706,848	8.1	3.8	7.5	11.3	Core Fixed Income	-0.3%	\neg		
Core Fixed Income	57,186,903	24.7	12.5	25.0	37.5	Bank Loans EMD	0.0%			
Bank Loans	13,763,921	6.0	3.0	6.0	9.0	Opportunistic	-0.1%).9%	
EMD	11,352,695	4.9	2.5	5.0	7.5	Cash (Liquidated Managers)		0.0%	7.5 70	
Opportunistic	2,101,701	0.9	0.0	0.0	5.0	Cash Equivalents		0.070	1.4%	
Cash (Liquidated Managers)	17,516	0.0	0.0	0.0	0.0	-4.0%	-2.0%	0.0%	2.0%	4.0%
Cash Equivalents	3,210,873		0.0	0.0	5.0	-4.0%			2.070	4.070
Total	231,066,653			100.0			Allocation Differences	S		



				Universi	ty Perman	ent Land Fund					
	Allocation	Allocation	Minimum	Target	Maximum						
	(\$)	(%)	(%)	(%)	(%)	Grosvenor		0.1%			
Grosvenor	27,267	0.1	0.0	0.0	0.0	Broad US Equity		0.6%			
Broad US Equity	3,521,093	11.6	5.5	11.0	16.5	Small Cap US Equity		0.0%			
Small Cap US Equity	919,239	3.0	1.5	3.0	4.5	Broad International Equity	-2.2%				
Broad International Equity	4,770,730	15.8	9.0	18.0	27.0	MLPs	-0.5%				
MLPs	1,519,352	5.0	2.8	5.5	8.3	Private Equity	-2.4%				
Private Equity	1,702,552	5.6	4.0	8.0	12.0	Core Real Estate		2.1	1%		
Core Real Estate	2,466,059	8.1	3.0	6.0	9.0	Non-Core Real Estate	-2.4%	0.40/			
Non-Core Real Estate	779,977	2.6	2.5	5.0	7.5	Diversified Hedge Funds Core Fixed Income	-2.4%	0.4%			
Diversified Hedge Funds	2,385,392	7.9	3.8	7.5	11.3	Bank Loans	-2.4%				
Core Fixed Income	6,834,045	22.6	12.5	25.0	37.5	EMD	-0.0 /	0.3%			
Bank Loans	1,645,583	5.4	3.0	6.0	9.0	Opportunistic		0.6%			
EMD	1,616,802	5.3	2.5	5.0	7.5	Cash (Liquidated Managers)		0.0%			
Opportunistic	177,209	0.6	0.0	0.0	5.0	Cash Equivalents				6.3%	
Cash (Liquidated Managers)	2,030	0.0	0.0	0.0	0.0	-5.0)%	0.0%	5.0%		10.0%
Cash Equivalents	1,912,497	6.3	0.0	0.0	5.0			Differences	21070		
Total	30,279,828	100.0		100.0			= Allocation	Differences			

				Hat	thaway Scl	nolarship			
	Allocation	Allocation	Minimum	Target	Maximum				
	(\$)	(%)	(%)	(%)	(%)	Grosvenor		0.1%	
Grosvenor	802,634	0.1	0.0	0.0	0.0	Broad US Equity		0.3%	
Broad US Equity	75,424,536	11.3	5.5	11.0	16.5	Small Cap US Equity	-0.3%		
Small Cap US Equity	18,172,709	2.7	1.5	3.0	4.5	Broad International Equity		0.1%	
Broad International Equity	120,825,901	18.1	9.0	18.0	27.0	MLPs		0.2%	
MLPs	38,103,218	5.7	2.8	5.5	8.3	Private Equity	-2.7%		
Private Equity	35,473,468	5.3	4.0	8.0	12.0	Core Real Estate		1.5%	
Core Real Estate	49,936,222	7.5	3.0	6.0	9.0	Non-Core Real Estate	-1.9%	_	
Non-Core Real Estate	20,840,246	3.1	2.5	5.0	7.5	Diversified Hedge Funds		0.4%	
Diversified Hedge Funds	52,970,907	7.9	3.8	7.5	11.3	Core Fixed Income		0.1%	
Core Fixed Income	167,733,893	25.1	12.5	25.0	37.5	Bank Loans EMD	0.0%	0.1%	
Bank Loans	41,040,764	6.1	3.0	6.0	9.0	Opportunistic	0.0%	0.7%	
EMD	33,247,325	5.0	2.5	5.0	7.5	Cash (Liquidated Managers)		0.0%	
Opportunistic	4,594,361	0.7	0.0	0.0	5.0	Cash Equivalents		1.5%	
Cash (Liquidated Managers)	56,609	0.0	0.0	0.0	0.0	-5.0%	0	.0%	5.0%
Cash Equivalents	10,002,583	1.5	0.0	0.0	5.0	-3.0%			3.0 /0
Total	669,225,376	100.0		100.0			Allocation Differences		



Wyoming State Treasurer's Office Permanent Funds - Income Focus

Investment Profile
Fund Type: Permanent Fund

Main Objective: Produce maximized long-term investment income and capital gains while providing an appropriate level of safety and liquidity.

Primary Investment Goals: Income generation, capital appreciation, total return, and protection against inflation. Capital preservation and liquidity are important secondary goals.

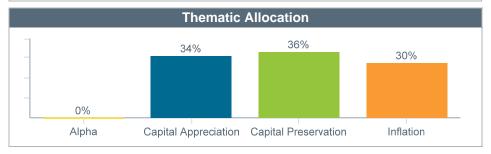
Maximum Equity Allocation: 70%

Current Long-Term Target Equity Allocation: 46%

Spending Policy

- Common School Permanent Land Fund: 5% of the five-year trailing average market value, calculated on the first day of the fiscal year. In fiscal year 2025, the spending rate will be 4.75%. In fiscal year 2026 and thereafter, the spending rate will be 4.5%.
- **Higher Education:** 4.75% of the five-year trailing average market value, calculated on the first day of the fiscal year.

Long-T	erm Target Allo	cation	
	Minimum Range (%)	Target (%)	Maximum Range (%)
Common School PLF	-	100.00	-
Broad US Equity	4.00	8.00	12.00
Small Cap US Equity	1.00	2.00	3.00
International Equity	6.00	12.00	18.00
Preferred Stock	1.50	3.00	4.50
MLPs	3.50	7.00	10.50
Core Real Estate	5.50	11.00	16.50
Non-Core Real Estate	1.50	3.00	4.50
Core Fixed Income	17.50	35.00	52.50
Bank Loans	6.00	12.00	18.00
Opportunistic Fixed Income	0.00	0.00	5.00
EMD	3.50	7.00	10.50
Opportunistic Investments	0.00	0.00	5.00
Cash (inv. in SAP)	0.00	0.00	5.00



	R	isk Metrics		
	5 Ye	ars	10 Ye	ears
_	CSPLF	HiEd	CSPLF	HiEd
Sharpe Ratio	0.7	0.6	0.8	0.7
Standard Deviation	7.7	7.8	6.9	6.6
Beta	0.4	0.4	0.4	0.4

		Compa	arative Perfo	rmance						
	Allocation	location Performance (%)								
	Market Value (\$)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	
Common School Perm Land Fund	4,511,561,874	1.8	1.8	11.2	22.0	6.3	6.8	5.6	5.9	
CSPLF - Total Fund Index		1.6	1.6	10.5	21.3	5.9	6.4	5.5	5.7	
Difference		0.2	0.2	0.7	0.7	0.4	0.4	0.1	0.2	
Higher Education	129,252,238	1.8	1.8	11.3	21.6	5.9	6.1	5.1	5.3	
Higher Education - Total Fund Index		1.6	1.6	10.5	21.3	5.8	6.0	5.2	5.4	
Difference		0.2	0.2	0.8	0.3	0.1	0.1	-0.1	-0.1	

Performance shown is net of fees and annualized for periods greater than one year. Wyoming State Treasurer's Office fiscal year ends on June 30th. Beta is calculated relative to the MSCI ACW Index (Net). Calculations are based on quarterly periodicity. Allocations shown may not sum up to 100% exactly due to rounding. Thematic Allocation shown represents the Common School Permanent Land Fund.



				Common	School Pe	erm Land Fund					
	Allocation	Allocation	Minimum	Target	Maximum						
	(\$)	(%)	(%)	(%)	(%)	Grosvenor		0.1%			
Grosvenor	4,982,492	0.1	0.0	0.0	0.0	Private Equity		0.0%			
Private Equity	0	0.0	0.0	0.0	0.0	Broad US Equity		0.2%			
Broad US Equity	368,239,276	8.2	4.0	8.0	12.0	Small Cap US Equity	-0.3%				
Small Cap US Equity	77,233,485	1.7	1.0	2.0	3.0	International Equity	-0.6%				
International Equity	513,398,613	11.4	6.0	12.0	18.0	Preferred Stock	0.09				
Preferred Stock	132,802,107	3.0	1.5	3.0	4.5	MLPs	-0.1%				
MLPs	309,210,212	6.9	3.5	7.0	10.5	Core Real Estate		0.5	%		
Core Real Estate	514,621,094	11.5	5.5	11.0	16.5	Non-Core Real Estate	-0.7%				
Non-Core Real Estate	102,330,317	2.3	1.5	3.0	4.5	Core Fixed Income Bank Loans	-0.8% -0.3%				
Core Fixed Income	1,534,885,568	34.2	17.5	35.0	52.5	EMD	-0.3%				
Bank Loans	525,726,148	11.7	6.0	12.0	18.0	Opportunistic	0.270	0.4	1%		
EMD	307,361,570	6.8	3.5	7.0	10.5	Cash (Liquidated Managers)		0.0%	. 70		
Opportunistic	16,387,303	0.4	0.0	0.0	5.0	Cash Equivalents				1.9%	
Cash (Liquidated Managers)	361,253	0.0	0.0	0.0	0.0	-2.0%	-1.0%	0.0%	1.0%	2.0%	3.0%
Cash Equivalents	85,662,698	1.9	0.0	0.0	5.0	2.073				70	2.070
Total	4,493,202,136	100.0		100.0			■ Allocation Diff	ierences			

					Higher Edu	cation				
	Allocation	Allocation	Minimum	Target	Maximum					
	(\$)	(%)	(%)	(%)	(%)	Grosvenor		0.1%	, 0	
Grosvenor	165,780	0.1	0.0	0.0	0.0	Broad US Equity		0.2		
Broad US Equity	10,612,200	8.2	4.0	8.0	12.0	Small Cap US Equity	-0	.1%		
Small Cap US Equity	2,481,254	1.9	1.0	2.0	3.0	International Equity	-0.5%			
International Equity	14,850,699	11.5	6.0	12.0	18.0	Preferred Stock	-0.2	%		
Preferred Stock	3,618,179	2.8	1.5	3.0	4.5	MLPs	-0	.1%		
MLPs	8,933,826	6.9	3.5	7.0	10.5	Core Real Estate			0.6%	
Core Real Estate	15,040,302	11.6	5.5	11.0	16.5	Non-Core Real Estate	-0.7%			
Non-Core Real Estate	2,999,461	2.3	1.5	3.0	4.5	Core Fixed Income	-0.9%			
Core Fixed Income	44,125,189	34.1	17.5	35.0	52.5	Bank Loans EMD	-0.29			
Bank Loans	15,191,382	11.8	6.0	12.0	18.0	Opportunistic	(0.0%	0.4%	
EMD	9,012,676	7.0	3.5	7.0	10.5	Cash (Liquidated Managers)		0.0%	0.470	
Opportunistic	540,577	0.4	0.0	0.0	5.0	Cash Equivalents		0.070	1.	.3%
Cash (Liquidated Managers)	11,643	0.0	0.0	0.0	0.0	-2.0%	-1.0%	0.0%	1.0%	2.0%
Cash Equivalents	1,669,071	1.3	0.0	0.0	5.0		■ Allocation Differe		1.076	2.070
Total	129,252,238	100.0		100.0			Anocation Differe	11003		



Wyoming State Treasurer's Office Permanent Funds - Workers' Compensation Fund

Fund Type: Permanent Fund

Main Objective: Provide a return that assures the Workers' Compensation Fund will be self-funding or nearly self-funding in order to substantially reduce or eliminate the need for employer contributions.

Investment Profile

Primary Investment Goals: Long-term return, safety of capital, yield and capital appreciation.

Maximum Equity Allocation: 70%

Current Long-Term Target Equity Allocation: 38%

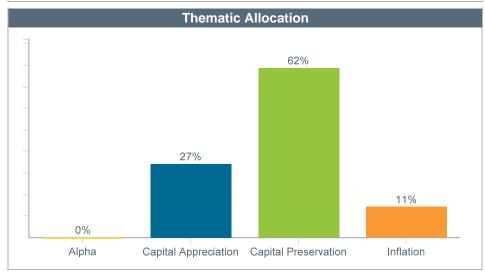
Actuarial Discount Rate: 2.5%*

Funded Status: >100%*

Duration of Liabilities: 11.4 years*

*As of the most recent report.

Long-Te	rm Target Alloca	ation	
	Minimum Range (%)	Target (%)	Maximum Range (%)
Workers Compensation Fund	-	100.00	-
Broad US Equity	4.00	8.00	12.00
Small Cap US Equity	1.00	2.00	3.00
International Equity	6.25	12.50	18.75
MLPs	2.25	4.50	6.75
Core Real Estate	2.25	4.50	6.75
Non-Core Real Estate	2.00	4.00	6.00
Liability Driven Fixed Income	31.00	62.00	93.00
Opportunistic Fixed Income	0.00	0.00	5.00
EMD	1.25	2.50	3.75
Opportunistic Investments	0.00	0.00	5.00
Cash (inv. in SAP)	0.00	0.00	5.00



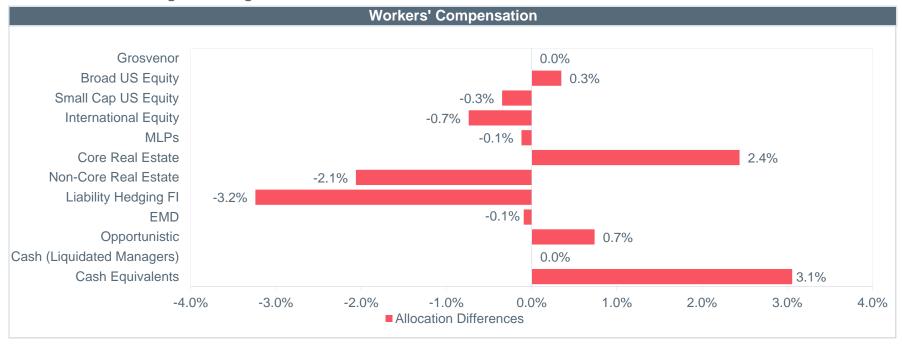
Fixed Income Char	acteristics vs. BB US A	gg Bond Index
ffective Duration vg. Quality ield To Maturity (%)	Portfolio	Benchmark
Effective Duration	10.7	6.4
Avg. Quality	A1	Aa1/Aa2
Yield To Maturity (%)	2.5	1.6
Coupon Rate (%)	3.0	2.6

	Risk Metrics	
	5	10
	Years	Years
Sharpe Ratio	1.0	1.0
Standard Deviation	5.4	4.7
Beta	0.3	0.3

	Comparative Performance										
	Allocation		Performance (%)								
	Market Value (\$)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years		
Workers' Compensation Fund	2,548,655,854	-1.6	-1.6	6.0	14.9	7.9	6.7	5.5	5.4		
WC - Total Fund Index		-2.0	-2.0	5.6	15.1	7.5	6.2	5.4	5.3		
Difference		0.4	0.4	0.4	-0.2	0.4	0.5	0.1	0.1		

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	Market Value	Allocation	Minimum	Target	Maximum
	(\$)	(%)	(%)	(%)	(%)
Grosvenor	13,325	0.0	0.0	0.0	0.0
Broad US Equity	212,796,772	8.3	4.0	8.0	12.0
Small Cap US Equity	42,190,424	1.7	1.0	2.0	3.0
International Equity	299,771,944	11.8	6.3	12.5	18.8
MLPs	111,684,234	4.4	2.3	4.5	6.8
Core Real Estate	176,889,167	6.9	2.3	4.5	6.8
Non-Core Real Estate	49,405,081	1.9	2.0	4.0	6.0
Liability Hedging FI	1,497,610,963	58.8	31.0	62.0	93.0
EMD	61,356,137	2.4	1.3	2.5	3.8
Opportunistic	18,872,331	0.7	0.0	0.0	5.0
Cash (Liquidated Managers)	134,249	0.0	0.0	0.0	0.0
Cash Equivalents	77,931,227	3.1	0.0	0.0	5.0
Total	2,548,655,854	100.0		100.0	



Wyoming State Treasurer's Office Pool A Investment Account

Investment Profile
Fund Type: Non-Permanent Fund

Main Objective: Provide a diverse array of securities including equities, while

maintaining adequate liquidity, stability, and return on investment.

Primary Investment Goal: Pool A is intended to be moderately liquid and safely

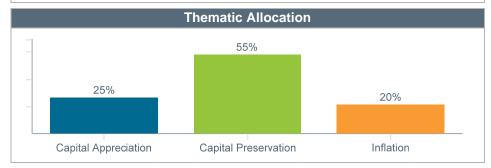
invested but also be invested for return and growth.

Maximum Equity Allocation: 60% Current Target Equity Allocation: 36%

Participating Funds:

- Tobacco Settlement Trust Fund
- Wildlife and Natural Resource Trust Account
- Cultural Trust Fund
- Public Television Matching Fund Account
- Game and Fish Fund Trust Account

Risk Metrics				
	5 Years	10 Years		
Sharpe Ratio	0.6	0.8		
Standard Deviation	5.4	4.3		
Beta	0.3	0.2		



Long-Term Target Allocation						
	Minimum Range (%)	Target (%)	Maximum Range (%)			
Pool A	-	100.00	-			
Broad US Equity	3.75	7.50	11.25			
Small Cap US Equity	0.50	1.00	1.50			
International Equity	3.75	7.50	11.25			
Preferred Stock	3.50	7.00	10.50			
MLPs	2.50	5.00	7.50			
Core Real Estate	2.00	4.00	6.00			
Non-Core Real Estate	2.00	4.00	6.00			
Core Fixed Income	24.50	49.00	73.50			
Bank Loans	5.00	10.00	15.00			
Opportunistic Investments	0.00	0.00	5.00			
Cash (inv. in SAP)	2.50	5.00	7.50			

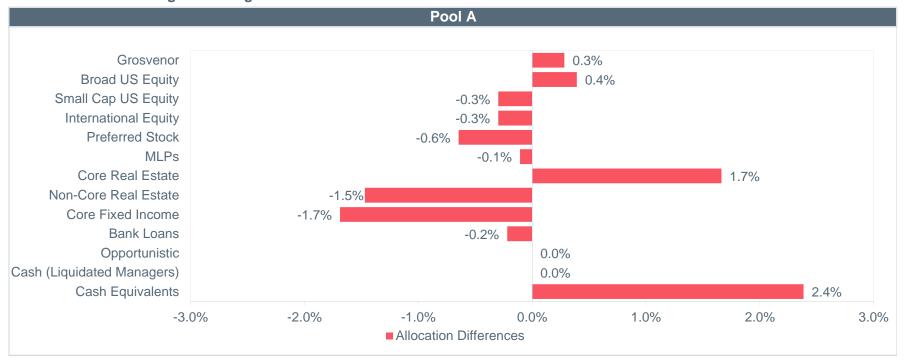


Comparative Performance									
	Allocation				Perform	Performance (%)			
	Market Value (\$)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years
Pool A	265,886,650	0.6	0.6	8.1	16.6	5.9	4.5	4.0	3.9
Pool A - Total Fund Index		0.5	0.5	7.4	16.1	5.5	3.8	3.7	3.8
Difference		0.1	0.1	0.7	0.5	0.4	0.7	0.3	0.1

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Asset Allocation vs. Long-Term Target



	Market Value	Allocation	Minimum	Target	Maximum
	(\$)	(%)	(%)	(%)	(%)
Grosvenor	751,372	0.3	0.0	0.0	0.0
Broad US Equity	20,983,897	7.9	3.8	7.5	11.3
Small Cap US Equity	1,869,815	0.7	0.5	1.0	1.5
International Equity	19,149,115	7.2	3.8	7.5	11.3
Preferred Stock	16,895,468	6.4	3.5	7.0	10.5
MLPs	13,011,507	4.9	2.5	5.0	7.5
Core Real Estate	15,056,958	5.7	2.0	4.0	6.0
Non-Core Real Estate	6,729,368	2.5	2.0	4.0	6.0
Core Fixed Income	125,798,211	47.3	24.5	49.0	73.5
Bank Loans	26,005,648	9.8	5.0	10.0	15.0
Opportunistic	0	0.0	0.0	0.0	5.0
Cash (Liquidated Managers)	677	0.0	0.0	0.0	0.0
Cash Equivalents	19,634,614	7.4	2.5	5.0	7.5
Total	265,886,650	100.0		100.0	



Wyoming State Treasurer's Office State Agency Pool

Fund	Type:	Non-Permanent	Fund

Main Objective: Produce an investment return so that State agencies have the advantage of better income from their invested funds, while maintaining stability.

Primary Investment Goal: Capital preservation, yield, and liquidity

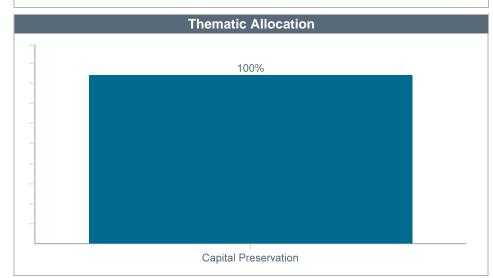
Liquidity Constraints: The Fund must meet the day-to-day cash flow needs of the

Investment Profile

State

Maximum Equity Allocation: 0% Current Target Equity Allocation: 0%

Long-Term Target Allocation							
	Minimum Allocation (%)	Target Allocation (%)	Maximum Allocation (%)				
State Agency Pool Excluding PPI	-	100.00	-				
Laddered Short-Term Treasury	100.00	100.00	100.00				
Core Fixed Income	0.00	0.00	0.00				
Low Duration Fixed Income	0.00	0.00	0.00				
Bank Loans	0.00	0.00	0.00				
Opportunistic Fixed Income	0.00	0.00	0.00				
EMD	0.00	0.00	0.00				
Cash Equivalents	0.00	0.00	0.00				



Fixed Income Characteristics vs. BB US Agg Bond Index				
	Portfolio	Benchmark		
Effective Duration	1.7	6.4		
Avg. Quality	Aaa	Aa1/Aa2		
Yield To Maturity (%)	0.2	1.6		
Coupon Rate (%)	1.0	2.6		

	Risk Metrics	
	5	10
	Years	Years
Sharpe Ratio	0.8	1.0
Standard Deviation	1.8	2.1
Beta	0.0	0.0

Comparative Performance									
	Allocation				Perform	ance (%)			
	Market Value (\$)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years
State Agency Pool	4,205,759,021	0.0	0.0	0.2	0.6	2.8	2.5	2.5	2.7
State Agency Pool - Actual Allocation Index		0.0	0.0	0.3	0.7	2.9	2.2	2.5	2.7
Difference		0.0	0.0	-0.1	-0.1	-0.1	0.3	0.0	0.0

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Wyoming State Treasurer's Office LSRA Investment Account

Fund Type: Non-Permanent Fund

Main Objective: LSRA will be invested to obtain the highest possible return while seeking to preserve the balance necessary to address potential budget shortfalls or a budget deficit.

Investment Profile

Primary Investment Goal: liquidity, capital preservation, and capital appreciation.

Maximum Equity Allocation: 36%

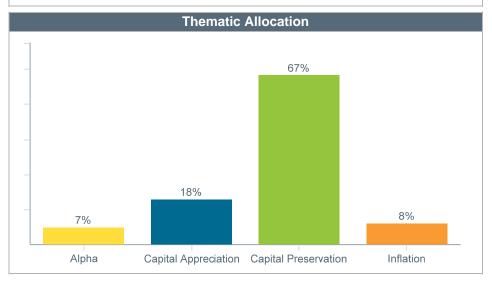
Current Target Equity Allocation: 29.17% Spending Policy: Legislative Appropriation

Participating Funds: Long Term Reserve

• Intermediate Term Reserve

• Short Term Reserve

Long-Term Target Allocation							
	Minimum Range (%)	Target (%)	Maximum Range (%)				
LSRA Long Term Reserve	-	100.00	-				
Broad US Equity	17.00	22.00	27.00				
Small Cap US Equity	4.00	6.00	8.00				
International Equity	21.00	28.00	35.00				
Bank Loans	10.00	12.50	15.00				
MLPs	10.00	12.50	15.00				
Diversified Hedge Funds	15.00	19.00	23.00				
Opportunistic Investments	0.00	0.00	0.00				
Cash (inv. in SAP)	0.00	0.00	0.00				



	Risk Metrics	
	Since Incep.	Inception Date
Standard Deviation	8.3	07/01/2019
Beta	0.3	
Sharpe Ratio	0.5	

Comparative Performance									
	Allocation				Perform	ance (%)			
	Market Value (\$)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years
LSRA	1,442,573,637	0.6	0.6	7.5	14.8	N/A	N/A	N/A	N/A
LSRA - Total Fund Index		0.9	0.9	7.4	14.6	N/A	N/A	N/A	N/A
Difference		-0.3	-0.3	0.1	0.2	N/A	N/A	N/A	N/A

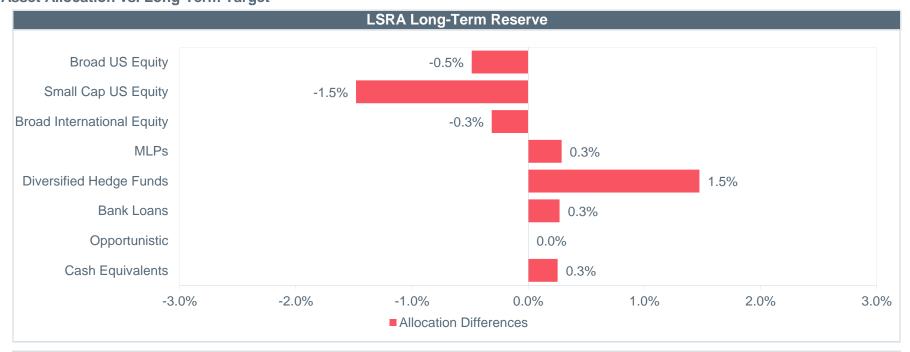
Performance shown is net of fees and annualized for periods greater than one year. Wyoming State Treasurer's Office fiscal year ends on June 30th. Beta is calculated relative to the MSCI ACW Index (Net). Calculations are based on quarterly periodicity. Allocations shown may not sum up to 100% exactly due to rounding. Long-Term Target Allocation represents long term reserve.



Wyoming State Treasurer's Office Total LSRA Asset Allocation vs. Long-Term Target

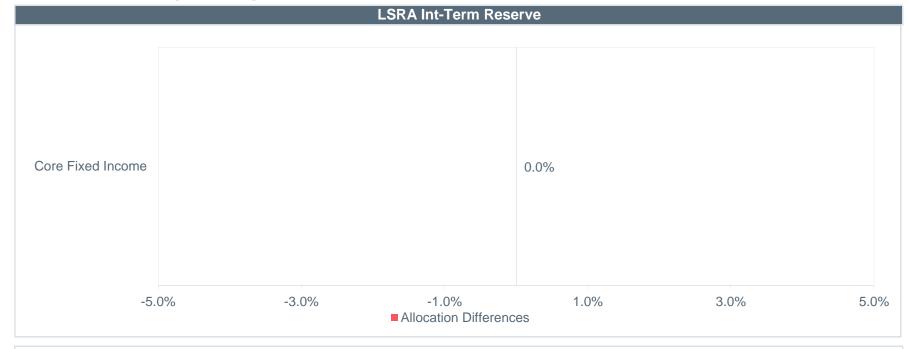
Total LSRA						
	Market Value	Allocation	Target			
	(\$)	(%)	(%)			
Broad US Equity	102,984,803	7.1	N/A			
Small Cap US Equity	21,627,736	1.5	N/A			
Broad International Equity	132,530,288	9.2	N/A			
MLPs	61,212,143	4.2	N/A			
Diversified Hedge Funds	98,006,823	6.8	N/A			
Core Fixed Income	465,539,439	32.3	N/A			
Low Duration Fixed Income	498,329,405	34.5	N/A			
Bank Loans	61,129,735	4.2	N/A			
Opportunistic	0	0.0	N/A			
Cash Equivalents	1,213,266	0.1	N/A			
Total	1,442,573,637	100.0	N/A			





	Market Value	Allocation	Minimum	Target	Maximum
	(\$)	(%)	(%)	(%)	(%)
Broad US Equity	102,984,803	21.5	17.0	22.0	27.0
Small Cap US Equity	21,627,736	4.5	4.0	6.0	8.0
Broad International Equity	132,530,288	27.7	21.0	28.0	35.0
MLPs	61,212,143	12.8	10.0	12.5	15.0
Diversified Hedge Funds	98,006,823	20.5	15.0	19.0	23.0
Bank Loans	61,129,735	12.8	10.0	12.5	15.0
Opportunistic	0	0.0	0.0	0.0	0.0
Cash Equivalents	1,213,266	0.3	0.0	0.0	0.0
Total	478,704,793	100.0		100.0	





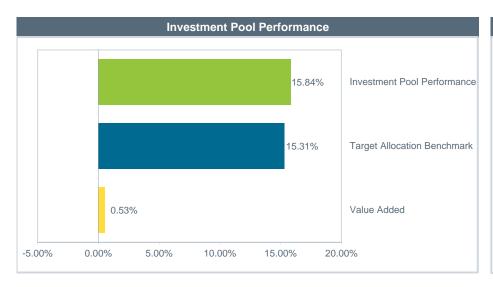
	Market Value	Allocation	Minimum	Target	Maximum
	(\$)	(%)	(%)	(%)	(%)
Core Fixed Income	465,539,439	100.0	100.0	100.0	100.0
Total	465,539,439	100.0		100.0	

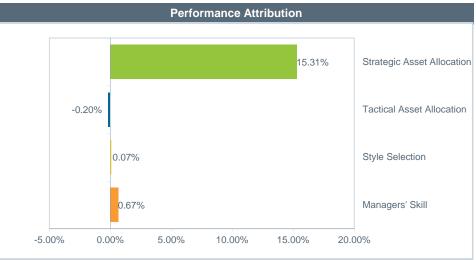


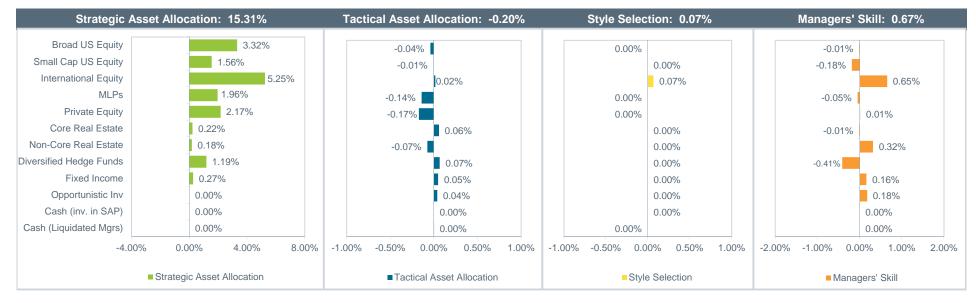


	Market Value	Allocation	Minimum	Target	Maximum
	(\$)	(%)	(%)	(%)	(%)
Low Duration Fixed Income	498,329,405	100.0	100.0	100.0	100.0
Total	498,329,405	100.0		100.0	

Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Permanent Mineral Trust Fund vs. Target Allocation Index FYTD Ending March 31, 2021

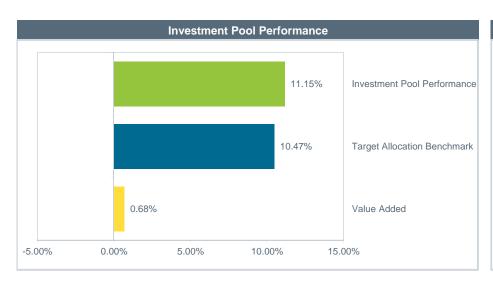


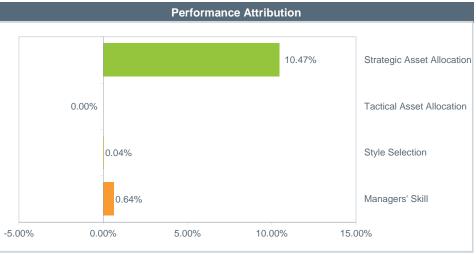


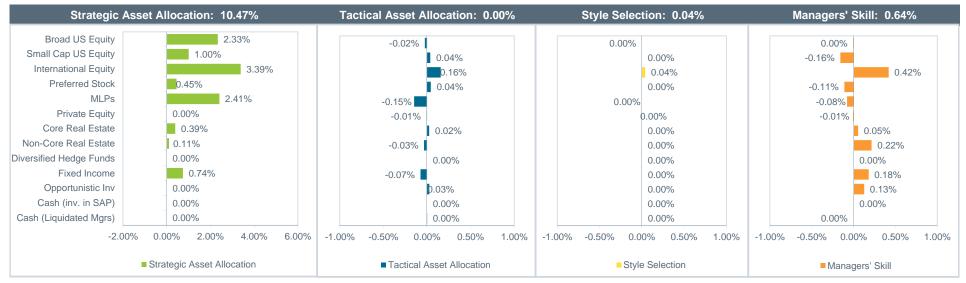




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Common School Permanent Land Fund vs. Target Allocation Index FYTD Ending March 31, 2021

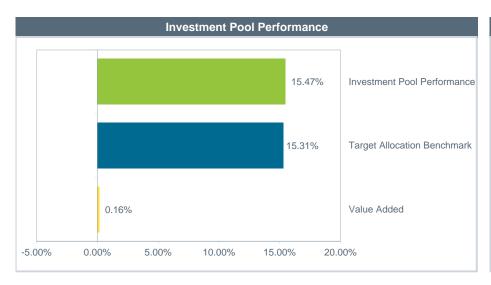


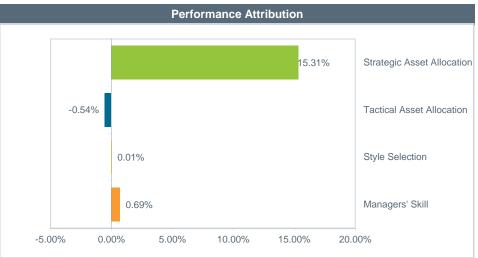


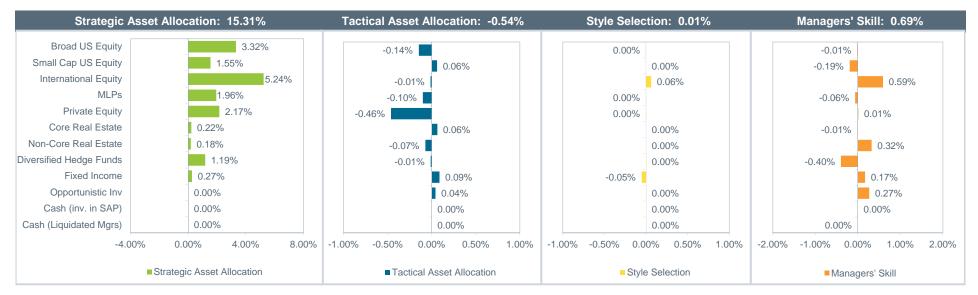




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Permanent Land Fund vs. Target Allocation Index FYTD Ending March 31, 2021

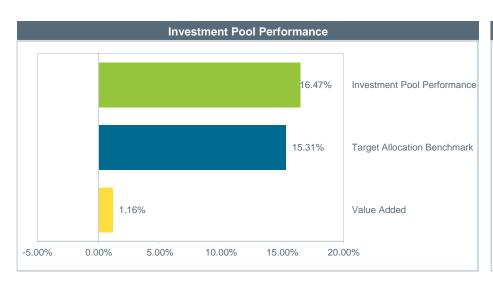


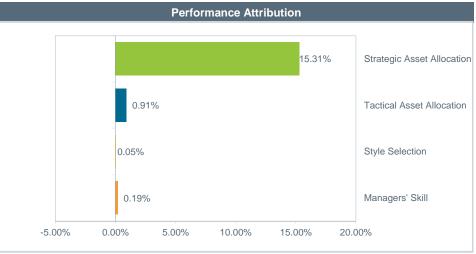


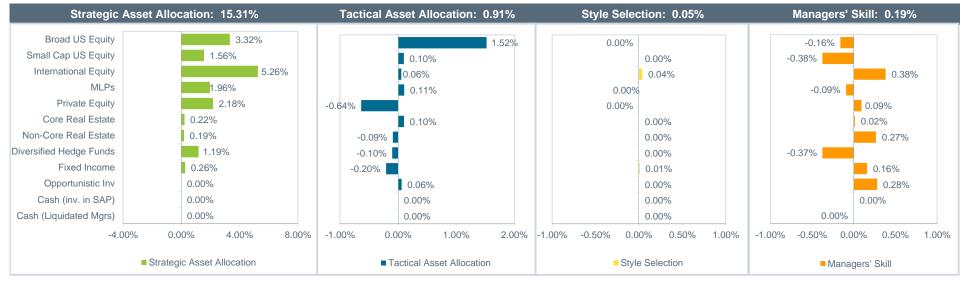




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology University Permanent Land Fund vs. Target Allocation Index FYTD Ending March 31, 2021

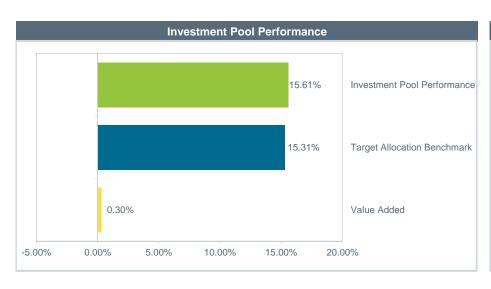


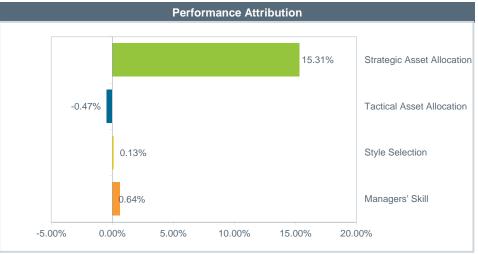


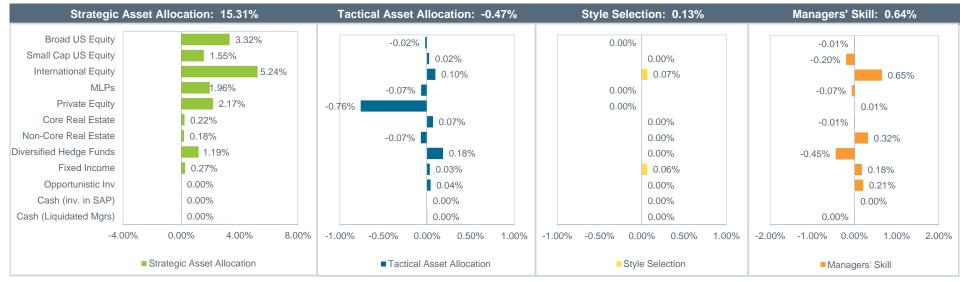




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Hathaway Scholarship Endowment Fund vs. Target Allocation Index FYTD Ending March 31, 2021

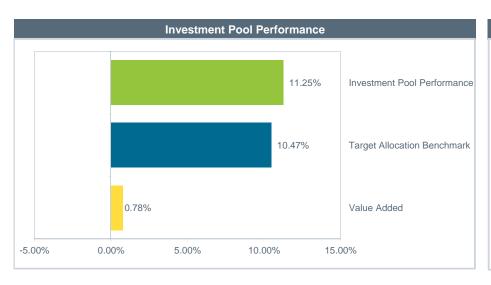


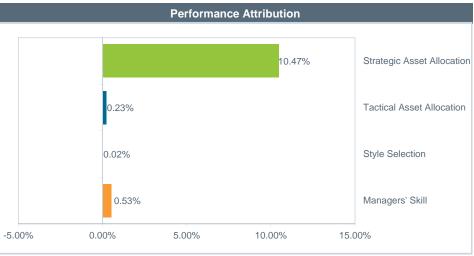


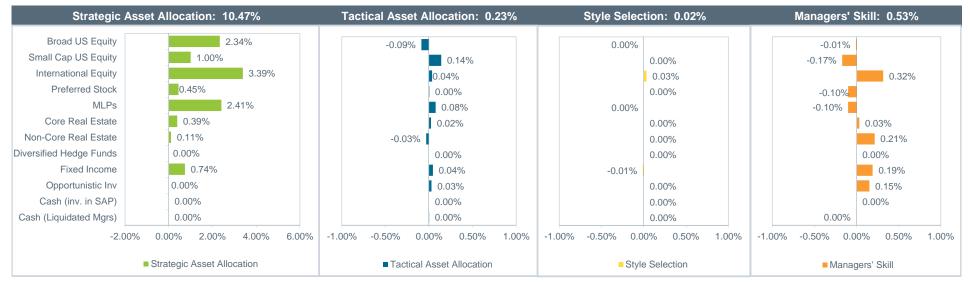




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Higher Education Endowment Fund vs. Target Allocation Index FYTD Ending March 31, 2021

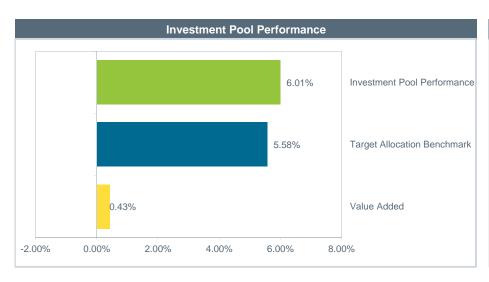


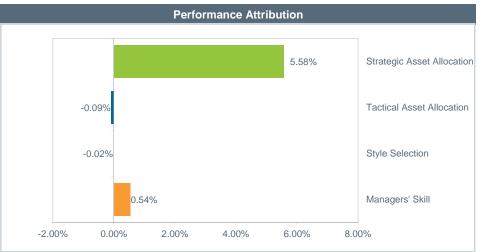


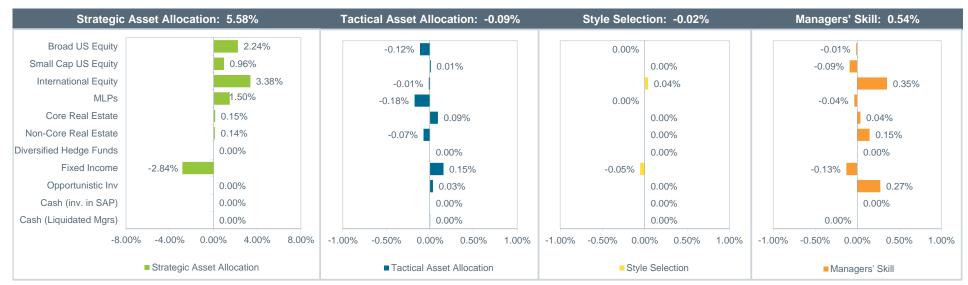




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Workers Compensation Fund vs. Target Allocation Index FYTD Ending March 31, 2021

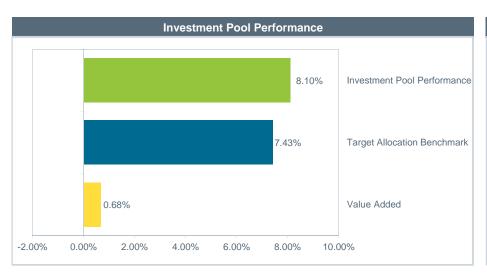


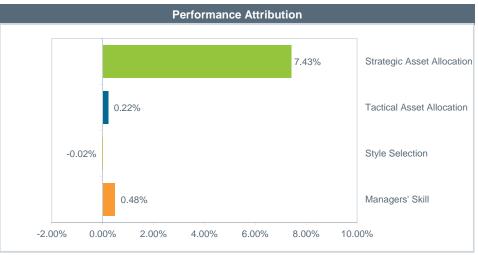


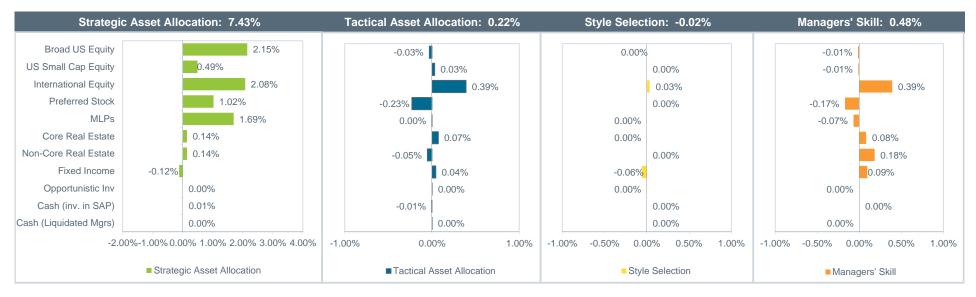




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Pool A vs. Target Allocation Index FYTD Ending March 31, 2021

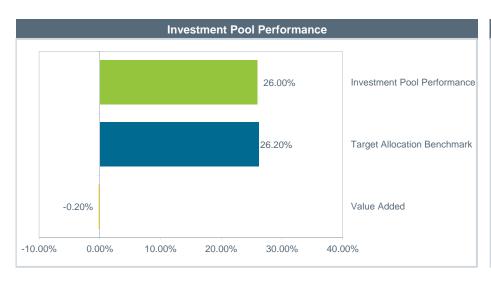


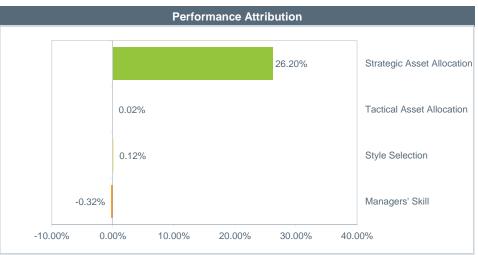


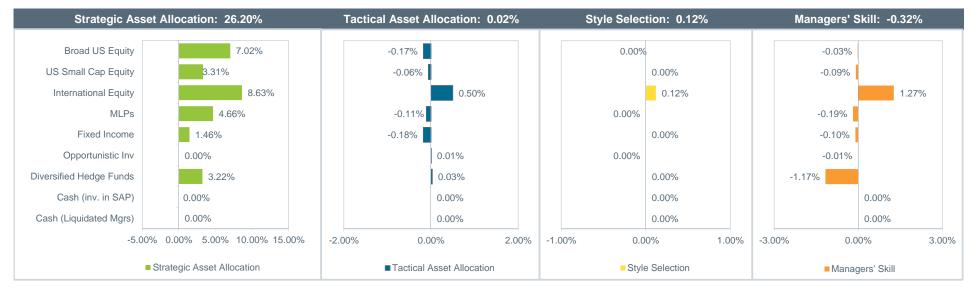




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology LSRA LT Reserve vs. Target Allocation Index FYTD Ending March 31, 2021



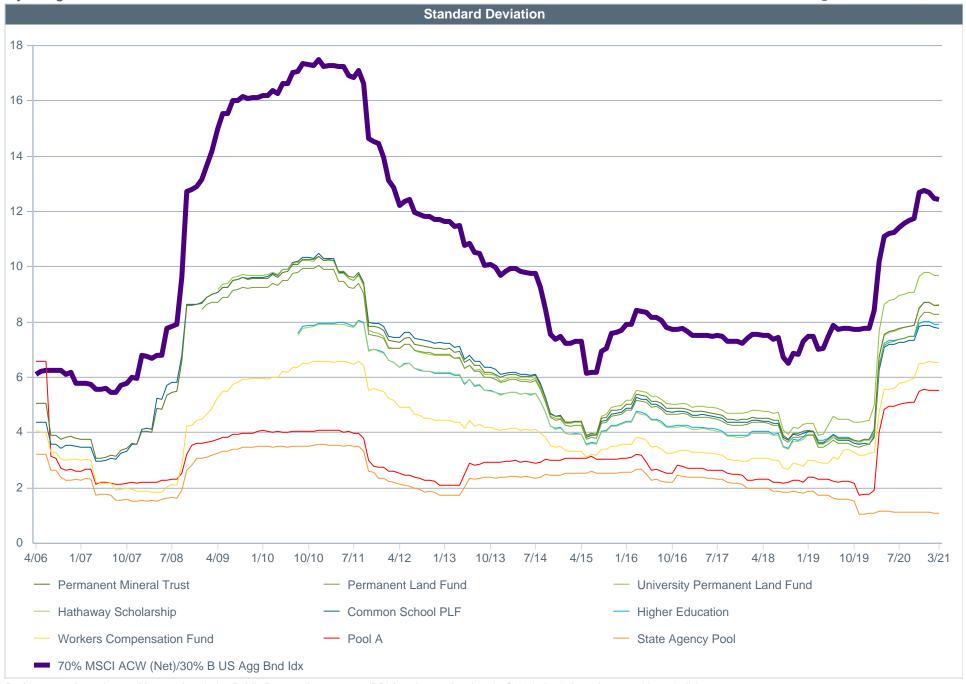






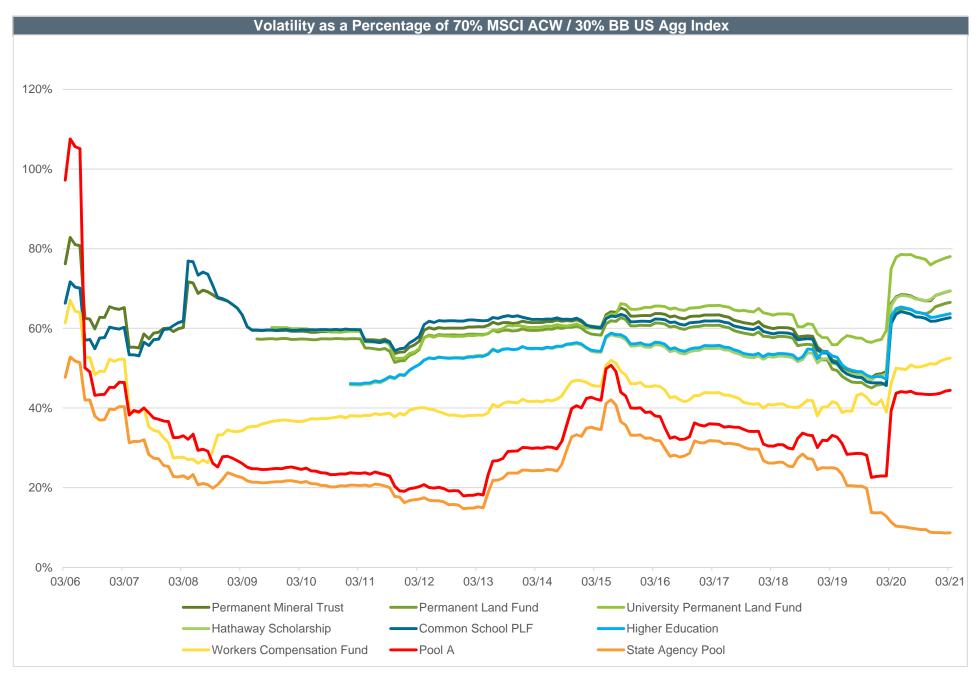
	Allocation	า				Performance (%)						
	Market	%	QTD	CYTD	FYTD	1	3	5	7	10	Since	Inception
	Value (\$)	70	QID			Year	Years	Years	Years	Years	Incep.	Date
Permanent Funds	17,400,469,259	74.6	1.8	1.8	13.0	24.3	7.3	7.2	5.9	6.0	6.3	07/01/200
ermanent Mineral Trust	9,280,427,436	39.8	2.6	2.6	15.8	28.1	7.7	7.6	6.2	6.3	6.3	06/01/200
MTF - Total Fund Index			2.6	2.6	15.3	27.5	7.5	7.4	6.1	6.2	5.8	
Difference			0.0	0.0	0.5	0.6	0.2	0.2	0.1	0.1	0.5	
Common School Permanent Land Fund	4,511,561,874	19.4	1.8	1.8	11.2	22.0	6.3	6.8	5.6	5.9	6.3	06/01/200
Common School - Total Fund Index			1.6	1.6	10.5	21.3	5.9	6.4	5.5	5.7	5.5	
Difference			0.2	0.2	0.7	0.7	0.4	0.4	0.1	0.2	0.8	
Permanent Land Fund	231,066,653	1.0	2.6	2.6	15.5	27.2	7.7	7.5	6.1	6.2	5.8	02/01/200
PLF - Total Fund Index			2.6	2.6	15.3	27.5	7.6	7.3	6.1	6.1	5.5	
Difference			0.0	0.0	0.2	-0.3	0.1	0.2	0.0	0.1	0.3	
Iniversity Permanent Land Fund	30,279,828	0.1	2.6	2.6	16.5	30.9	7.9	8.0	6.4	6.4	5.8	05/01/200
Iniversity PLF - Total Fund Index			2.6	2.6	15.3	27.5	7.7	7.8	6.4	6.4	5.6	
Difference			0.0	0.0	1.2	3.4	0.2	0.2	0.0	0.0	0.2	
lathaway Scholarship	669,225,376	2.9	2.9	2.9	15.6	27.8	7.6	7.1	5.8	5.8	5.9	09/01/200
lathaway - Total Fund Index			2.6	2.6	15.3	27.5	7.4	7.0	5.9	5.8	5.7	
Difference			0.3	0.3	0.3	0.3	0.2	0.1	-0.1	0.0	0.2	
ligher Education	129,252,238	0.6	1.8	1.8	11.3	21.6	5.9	6.1	5.1	5.3	5.5	09/01/200
ligher Education - Total Fund Index	, ,		1.6	1.6	10.5	21.3	5.8	6.0	5.2	5.4	5.3	
Difference			0.2	0.2	0.8	0.3	0.1	0.1	-0.1	-0.1	0.2	
Vorkers Compensation Fund	2,548,655,854	10.9	-1.6	-1.6	6.0	14.9	7.9	6.7	5.5	5.4	5.8	06/01/200
/orkers Comp - Total Fund Index	,,,		-2.0	-2.0	5.6	15.1	7.5	6.2	5.4	5.3	5.5	
Difference			0.4	0.4	0.4	-0.2	0.4	0.5	0.1	0.1	0.3	
Ion-Permanent Funds	5,914,219,309	25.4	0.2	0.2	2.4	4.4	3.3	2.8	2.7	2.8	3.8	07/01/200
Pool A	265,886,650	1.1	0.6	0.6	8.1	16.6	5.9	4.5	4.0	3.9	4.5	01/01/200
ool A - Total Fund Index	,,		0.5	0.5	7.4	16.1	5.5	3.8	3.7	3.8	5.1	
Difference			0.1	0.1	0.7	0.5	0.4	0.7	0.3	0.1	-0.6	
SRA	1,442,573,637	6.2	0.6	0.6	7.5	14.8	N/A	N/A	N/A	N/A	5.1	07/01/201
SRA - Total Fund Index	.,,,	0.2	0.9	0.9	7.4	14.6	N/A	N/A	N/A	N/A	5.4	017017201
Difference			-0.3	-0.3	0.1	0.2	N/A	N/A	N/A	N/A	-0.3	
SRA Long Term Reserve	478,704,793	2.1	5.7	5.7	26.0	48.8	N/A	N/A	N/A	N/A	10.2	07/01/201
SRA Long Term Reserve - Total Fund Index	3,1 0-1,1 00	2.11	6.3	6.3	26.2	49.7	N/A	N/A	N/A	N/A	11.2	0.701720
Difference			-0.6	-0.6	-0.2	-0.9	N/A	N/A	N/A	N/A	-1.0	
SRA Intermediate Term Reserve	465,539,439	2.0	-3.8	-3.8	-1.9	2.0	N/A	N/A	N/A	N/A	4.2	08/01/201
SRA Int Term Reserve - Total Fund Index	700,000,700	2.0	-3.4	-3.4	-2.1	0.7	N/A	N/A	N/A	N/A	3.7	00/01/20
Difference			-0.4	-0.4	0.2	1.3	N/A	N/A	N/A	N/A	0.5	
SRA Short Term Reserve	498,329,405	2.1	0.0	0.0	0.2	0.4	N/A	N/A	N/A	N/A	2.5	01/01/202
SRA Short Term Reserve - Total Fund Index	430,323,403	2.1	-0.1	-0.1	0.2	0.4	N/A N/A	N/A N/A	N/A N/A	N/A N/A	2.5	01/01/202
Difference			0.1	0.1	0.1	0.4	N/A	N/A	N/A	N/A	0.0	
	4,205,759,021	18.0	0.1	0.1	0.1	0.0	2.8	2.5	2.5	2.7	3.8	06/01/200
tate Agency Pool	4,203,739,021	10.0	0.0	0.0	0.2	0.6	2.8	2.2	2.5 2.5	2.7	3.8 3.7	06/01/20
State Agency Pool - Actual Allocation Index												
Difference	00 044 000 505	400.0	0.0	0.0	-0.1	-0.1	-0.1	0.3	0.0	0.0	0.1	40/04/40
otal Fund	23,314,688,567	100.0	1.3	1.3	9.9	18.2	6.1	6.0	5.0	5.1	5.6	10/01/199
Vyoming State Total Fund Index			1.3	1.3	9.7	18.1	6.2	5.7	5.0	5.1	5.5	
Difference			0.0	0.0	0.2	0.1	-0.1	0.3	0.0	0.0	0.1	









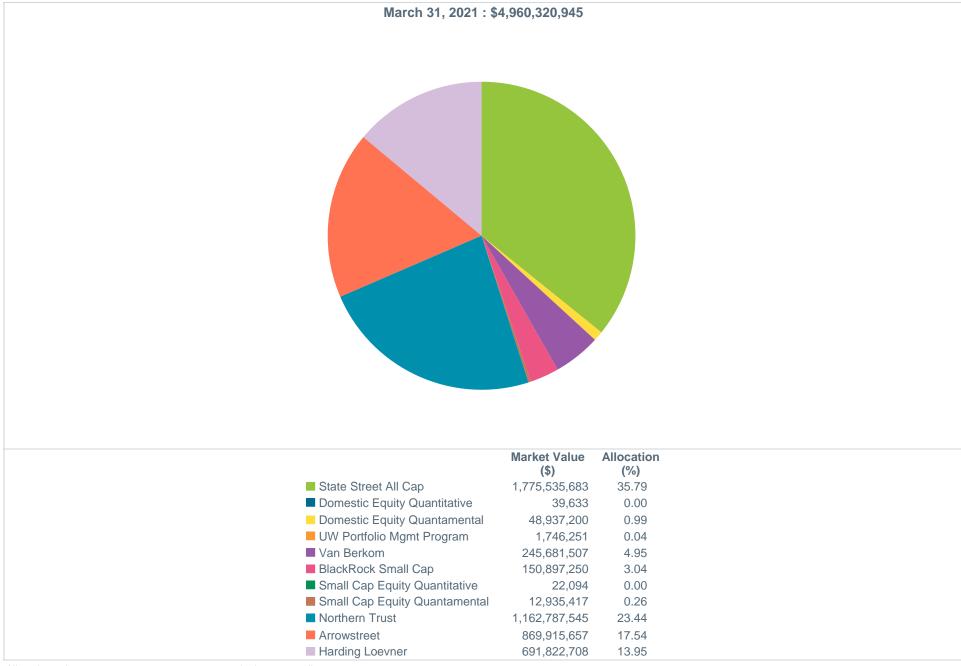












Allocations shown may not sum up to 100% exactly due to rounding.



	Allocation	n					Р	erforman	rce (%)				
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
All Cap US Equity Composite	1,824,512,516	36.78	6.11	6.11	29.61	56.22	15.59	15.02	N/A	N/A	17.54	13.31	11/01/2014
All Cap US Equity Custom Index			6.17	6.17	29.71	56.35	16.24	16.11	13.07	13.53	18.37	13.02	
Difference			-0.06	-0.06	-0.10	-0.13	-0.65	-1.09	N/A	N/A	-0.83	0.29	
State Street All Cap	1,775,535,683	35.79	6.15	6.15	29.66	56.28	15.92	15.59	N/A	N/A	17.54	12.57	01/01/2015
State Street All Cap Custom Index			6.17	6.17	29.71	56.35	15.80	15.58	12.76	13.39	17.65	12.58	
Difference			-0.02	-0.02	-0.05	-0.07	0.12	0.01	N/A	N/A	-0.11	-0.01	
Domestic Equity Quantamental	48,937,200	0.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	04/01/2021
S&P 500 Index (Cap Wtd)			6.17	6.17	29.71	56.35	16.78	16.29	13.59	13.91	18.40	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Domestic Equity Quantitative	39,633	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	06/01/2021
S&P 500 Index (Cap Wtd)			6.17	6.17	29.71	56.35	16.78	16.29	13.59	13.91	18.40	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
UW Portfolio Mgmt Program	1,746,251	0.04	4.37	4.37	26.91	46.97	11.97	13.04	11.21	10.64	14.73	6.40	04/01/2006
S&P 500 Index (Cap Wtd)			6.17	6.17	29.71	56.35	16.78	16.29	13.59	13.91	18.40	10.02	
Difference			-1.80	-1.80	-2.80	-9.38	-4.81	-3.25	-2.38	-3.27	-3.67	-3.62	
Small Cap US Equity Composite	409,536,268	8.26	12.04	12.04	49.03	84.70	10.70	12.92	N/A	N/A	14.53	8.96	11/01/2014
Russell 2000 Index			12.70	12.70	55.36	94.85	14.76	16.35	11.05	11.68	19.96	11.98	
Difference			-0.66	-0.66	-6.33	-10.15	-4.06	-3.43	N/A	N/A	-5.43	-3.02	
Van Berkom	245,681,507	4.95	9.25	9.25	39.85	71.24	N/A	N/A	N/A	N/A	N/A	31.79	03/01/2020
Russell 2000 Index			12.70	12.70	55.36	94.85	14.76	16.35	11.05	11.68	19.96	47.64	
Difference			-3.45	-3.45	-15.51	-23.61	N/A	N/A	N/A	N/A	N/A	-15.85	
BlackRock Small Cap	150,897,250	3.04	12.95	12.95	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.22	08/01/2020
Russell 2000 Index			12.70	12.70	55.36	94.85	14.76	16.35	11.05	11.68	19.96	51.17	
Difference			0.25	0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.05	
Small Cap Equity Quantamental	12,935,417	0.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	06/01/2021
Russell 2000 Index			12.70	12.70	55.36	94.85	14.76	16.35	11.05	11.68	19.96	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Performance shown is net of fees. International Equity Custom Index consists of the MSCI EAFE Index (Gross) through July 2010 and the MSCI ACW Ex US Index (Net) thereafter. The All Cap US Equity Custom Index consists of the Russell 3000 Index through 02/29/2020, and the S&P 500 Index thereafter. SSGA Custom Index consists of 69% Russell 3000 Index, 24% FTSE RAFI US 1000 Index, and 7% MSCI US Min Vol Index (USD) (Gross) through 02/27/2020, State Street All Cap account performance on 02/28/2020, and the S&P 500 Index thereafter. Wyoming State Treasurer's Office fiscal year ends on June 30th. Since Inception date shown represents the first full month following initial funding.



	Allocation	Allocation Performance (%)											
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Small Cap Equity Quantitative	22,094	0.00											
Russell 2000 Index			12.70	12.70	55.36	94.85	14.76	16.35	11.05	11.68	19.96	1.00	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Performance shown is net of fees. International Equity Custom Index consists of the MSCI EAFE Index (Gross) through July 2010 and the MSCI ACW Ex US Index (Net) thereafter. The All Cap US Equity Custom Index consists of the Russell 3000 Index through 02/29/2020, and the S&P 500 Index thereafter. SSGA Custom Index consists of 69% Russell 3000 Index, 24% FTSE RAFI US 1000 Index, and 7% MSCI US Min Vol Index (USD) (Gross) through 02/27/2020, State Street All Cap account performance on 02/28/2020, and the S&P 500 Index thereafter. Wyoming State Treasurer's Office fiscal year ends on June 30th. Since Inception date shown represents the first full month following initial funding.



	Allocatio	ation Performance (%)											
	Market Value (\$)	% (JII) (:YII) FY			FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Int'l Equity Composite	2,724,525,910	54.93	4.42	4.42	32.76	56.79	9.09	11.19	6.31	5.74	16.88	6.66	01/01/2004
International Equity Custom Index			3.49	3.49	28.67	49.41	6.51	9.76	5.26	4.93	10.65	5.90	
Difference			0.93	0.93	4.09	7.38	2.58	1.43	1.05	0.81	6.23	0.76	
Northern Trust	1,162,787,545	23.44	3.65	3.65	28.73	49.37	6.71	9.90	5.41	5.08	10.66	6.42	08/01/2010
MSCI ACW Ex US Index (USD) (Net)			3.49	3.49	28.67	49.41	6.51	9.76	5.26	4.93	10.65	6.29	
Difference			0.16	0.16	0.06	-0.04	0.20	0.14	0.15	0.15	0.01	0.13	
Arrowstreet	869,915,657	17.54	8.20	8.20	42.78	72.91	11.52	N/A	N/A	N/A	22.78	10.63	03/01/2018
MSCI ACW Ex US IM Index (USD) (Net)			3.77	3.77	29.91	51.94	6.51	9.84	5.45	5.11	11.12	5.75	
Difference			4.43	4.43	12.87	20.97	5.01	N/A	N/A	N/A	11.66	4.88	
Harding Loevner	691,822,708	13.95	0.89	0.89	27.56	50.60	N/A	N/A	N/A	N/A	20.31	16.76	01/01/2020
MSCI ACW Ex US Index (USD) (Net)			3.49	3.49	28.67	49.41	6.51	9.76	5.26	4.93	10.65	11.45	
Difference			-2.60	-2.60	-1.11	1.19	N/A	N/A	N/A	N/A	9.66	5.31	





	Allocatio	Allocation			Performance (%)								
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
All Cap US Equity Composite	1,824,512,516	36.78	6.13	6.13	29.65	56.28	15.67	15.13	N/A	N/A	17.58	13.46	11/01/2014
All Cap US Equity Custom Index			6.17	6.17	29.71	56.35	16.24	16.11	13.07	13.53	18.37	13.02	
Difference			-0.04	-0.04	-0.06	-0.07	-0.57	-0.98	N/A	N/A	-0.79	0.44	
State Street All Cap	1,775,535,683	35.79	6.17	6.17	29.70	56.34	15.97	15.63	N/A	N/A	17.58	12.61	01/01/2015
State Street All Cap Custom Index			6.17	6.17	29.71	56.35	15.80	15.58	12.76	13.39	17.65	12.58	
Difference			0.00	0.00	-0.01	-0.01	0.17	0.05	N/A	N/A	-0.07	0.03	
IM U.S. All Cap Equity (SA+CF) Median			7.76	7.76	35.31	66.36	16.06	16.26	12.49	13.32	15.95	12.64	
State Street All Cap Rank			61	61	75	77	52	55	N/A	N/A	47	51	
Domestic Equity Quantamental	48,937,200	0.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	04/01/2021
S&P 500 Index (Cap Wtd)			6.17	6.17	29.71	56.35	16.78	16.29	13.59	13.91	18.40	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
IM U.S. All Cap Equity (SA+CF) Median			7.76	7.76	35.31	66.36	16.06	16.26	12.49	13.32	15.95	N/A	
Domestic Equity Quantamental Rank			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Domestic Equity Quantitative	39,633	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	06/01/2021
S&P 500 Index (Cap Wtd)			6.17	6.17	29.71	56.35	16.78	16.29	13.59	13.91	18.40	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
IM U.S. All Cap Equity (SA+CF) Median			7.76	7.76	35.31	66.36	16.06	16.26	12.49	13.32	15.95	N/A	
Domestic Equity Quantitative Rank			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
UW Portfolio Mgmt Program	1,746,251	0.04	4.37	4.37	26.91	46.97	11.97	13.04	11.21	10.64	14.73	6.40	04/01/2006
S&P 500 Index (Cap Wtd)			6.17	6.17	29.71	56.35	16.78	16.29	13.59	13.91	18.40	10.02	
Difference			-1.80	-1.80	-2.80	-9.38	-4.81	-3.25	-2.38	-3.27	-3.67	-3.62	
IM U.S. Large Cap Core Equity (SA+CF) Median			6.75	6.75	30.50	57.08	15.89	16.06	13.25	13.74	17.13	10.12	
UW Portfolio Mgmt Program Rank			84	84	76	83	86	82	83	92	59	99	

Performance shown is gross of fees. International Equity Custom Index consists of the MSCI EAFE Index (Gross) through July 2010 and the MSCI ACW Ex US Index (Net) thereafter. The All Cap US Equity Custom Index consists of the Russell 3000 Index through 02/29/2020, and the S&P 500 Index thereafter. SSGA Custom Index consists of 69% Russell 3000 Index, 24% FTSE RAFI US 1000 Index, and 7% MSCI US Min Vol Index (USD) (Gross) through 02/27/2020, State Street All Cap account performance on 02/28/2020, and the S&P 500 Index thereafter. Wyoming State Treasurer's Office fiscal year ends on June 30th. Since Inception date shown represents the first full month following initial funding.



	Allocation					P	erformar	nce (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Small Cap US Equity Composite	409,536,268	8.26	12.19	12.19	49.61	85.57	11.05	13.42	N/A	N/A	14.96	9.48	11/01/2014
Russell 2000 Index			12.70	12.70	55.36	94.85	14.76	16.35	11.05	11.68	19.96	11.98	
Difference			-0.51	-0.51	-5.75	-9.28	-3.71	-2.93	N/A	N/A	-5.00	-2.50	
Van Berkom	245,681,507	4.95	9.47	9.47	40.68	72.59	N/A	N/A	N/A	N/A	N/A	32.80	03/01/2020
Russell 2000 Index			12.70	12.70	55.36	94.85	14.76	16.35	11.05	11.68	19.96	47.64	
Difference			-3.23	-3.23	-14.68	-22.26	N/A	N/A	N/A	N/A	N/A	-14.84	
IM U.S. Small Cap Core Equity (SA+CF) Median			13.74	13.74	53.94	93.00	15.05	16.12	12.10	12.86	17.85	45.83	
Van Berkom Rank			83	83	95	88	N/A	N/A	N/A	N/A	N/A	96	
BlackRock Small Cap	150,897,250	3.04	13.06	13.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52.67	08/01/2020
Russell 2000 Index			12.70	12.70	55.36	94.85	14.76	16.35	11.05	11.68	19.96	51.17	
Difference			0.36	0.36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.50	
IM U.S. Small Cap Core Equity (SA+CF) Median			13.74	13.74	53.94	93.00	15.05	16.12	12.10	12.86	17.85	47.98	
BlackRock Small Cap Rank			55	55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28	
Small Cap Equity Quantamental	12,935,417	0.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	06/01/2021
Russell 2000 Index			12.70	12.70	55.36	94.85	14.76	16.35	11.05	11.68	19.96	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
IM U.S. Small Cap Core Equity (SA+CF) Median			13.74	13.74	53.94	93.00	15.05	16.12	12.10	12.86	17.85	N/A	
Small Cap Equity Quantamental Rank			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Small Cap Equity Quantitative	22,094	0.00											
Russell 2000 Index			12.70	12.70	55.36	94.85	14.76	16.35	11.05	11.68	19.96	1.00	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
IM U.S. Small Cap Core Equity (SA+CF) Median			13.74	13.74	53.94	93.00	15.05	16.12	12.10	12.86	17.85	2.44	
Small Cap Equity Quantitative Rank			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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	Allocatio	Allocation					Po	erformar	nce (%)				
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Int'l Equity Composite	2,724,525,910	54.93	4.48	4.48	33.00	57.18	9.33	11.43	6.55	5.99	17.18	6.86	01/01/2004
International Equity Custom Index			3.49	3.49	28.67	49.41	6.51	9.76	5.26	4.93	10.65	5.90	
Difference			0.99	0.99	4.33	7.77	2.82	1.67	1.29	1.06	6.53	0.96	
Northern Trust	1,162,787,545	23.44	3.66	3.66	28.75	49.41	6.74	9.94	5.44	5.11	10.69	6.46	08/01/2010
MSCI ACW Ex US Index (USD) (Net)			3.49	3.49	28.67	49.41	6.51	9.76	5.26	4.93	10.65	6.29	
Difference			0.17	0.17	0.08	0.00	0.23	0.18	0.18	0.18	0.04	0.17	
Arrowstreet	869,915,657	17.54	8.31	8.31	43.22	73.61	12.01	N/A	N/A	N/A	23.28	11.11	03/01/2018
MSCI ACW Ex US IM Index (USD) (Net)			3.77	3.77	29.91	51.94	6.51	9.84	5.45	5.11	11.12	5.75	
Difference			4.54	4.54	13.31	21.67	5.50	N/A	N/A	N/A	12.16	5.36	
IM All ACWI Ex US (SA+CF) Median			3.25	3.25	31.26	55.53	8.38	11.07	6.58	7.06	14.60	7.56	
Arrowstreet Rank			11	11	6	8	20	N/A	N/A	N/A	22	21	
Harding Loevner	691,822,708	13.95	0.99	0.99	27.96	51.25	N/A	N/A	N/A	N/A	20.86	17.29	01/01/2020
MSCI ACW Ex US Index (USD) (Net)			3.49	3.49	28.67	49.41	6.51	9.76	5.26	4.93	10.65	11.45	
Difference			-2.50	-2.50	-0.71	1.84	N/A	N/A	N/A	N/A	10.21	5.84	
IM All ACWI Ex US (SA+CF) Median			3.25	3.25	31.26	55.53	8.38	11.07	6.58	7.06	14.60	14.87	
Harding Loevner Rank			80	80	74	67	N/A	N/A	N/A	N/A	31	36	

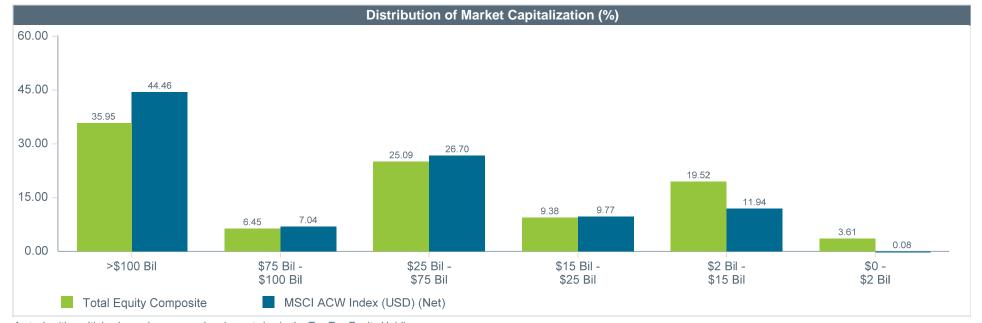
Performance shown is gross of fees. International Equity Custom Index consists of the MSCI EAFE Index (Gross) through July 2010 and the MSCI ACW Ex US Index (Net) thereafter. The All Cap US Equity Custom Index consists of the Russell 3000 Index through 02/29/2020, and the S&P 500 Index thereafter. SSGA Custom Index consists of 69% Russell 3000 Index, 24% FTSE RAFI US 1000 Index, and 7% MSCI US Min Vol Index (USD) (Gross) through 02/27/2020, State Street All Cap account performance on 02/28/2020, and the S&P 500 Index thereafter. Wyoming State Treasurer's Office fiscal year ends on June 30th. Since Inception date shown represents the first full month following initial funding.



Wyoming State Treasurer's Office Total Equity Composite vs. MSCI ACW Index (USD) (Net) Portfolio Characteristics

Top 1	Γen Equity Η	Holdings		
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Apple Inc	2.11	3.36	-1.25	-7.81
Microsoft Corp	1.97	2.74	-0.77	6.25
Amazon.com Inc	1.42	2.13	-0.71	-5.00
Taiwan Semiconductor Mfg (ADR)	1.20	0.82	0.38	8.87
Tencent Holdings LTD	0.89	0.73	0.16	7.85
Facebook Inc	0.79	1.15	-0.36	7.82
Roche Holding AG	0.78	0.37	0.41	-4.46
Samsung Electronics Co Ltd	0.70	0.56	0.14	-2.60
Ping An Insurance Group	0.69	0.11	0.58	-2.85
Alphabet Inc	0.68	1.00	-0.32	17.68
% of Portfolio	11.23	12.97	-1.74	

	lio Characteristics	Danahasada
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	226,289	295,622
Median Mkt. Cap (\$M)	2,334	12,843
Price/Earnings Ratio	24.37	25.82
Price/Book Ratio	3.37	3.61
5 Yr. EPS Growth Rate (%)	12.13	12.88
Current Yield (%)	1.82	1.78
Beta (5 Years, Monthly)	1.01	1.00
Number of Securities	8,198	2,974

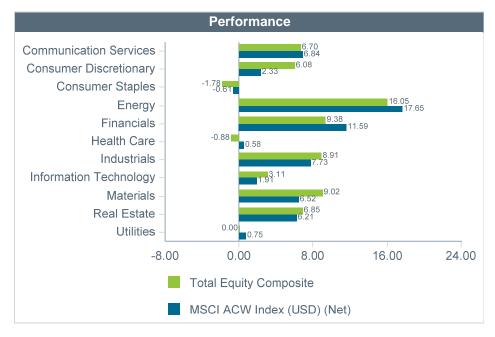


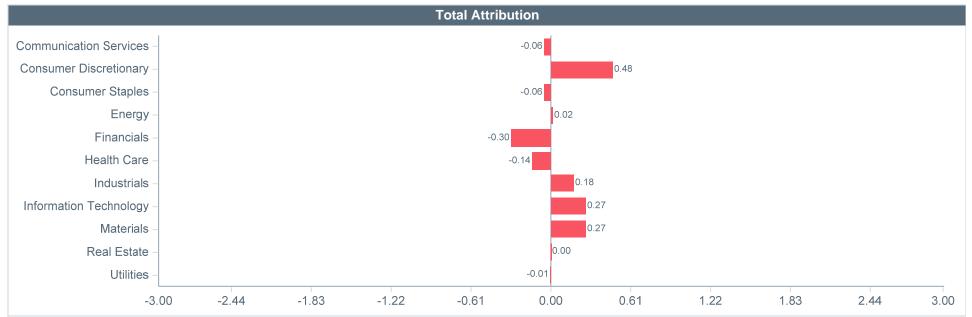
A stock with multiple share classes may be shown twice in the Top Ten Equity Holdings.



Wyoming State Treasurer's Office Total Equity Composite vs. MSCI ACW Index (USD) (Net) Buy and Hold Sector Attribution Graph

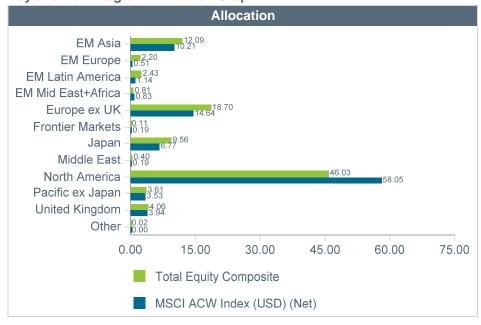


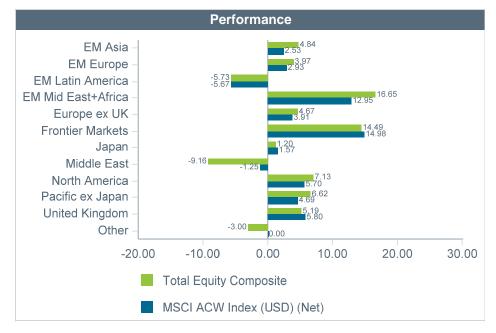


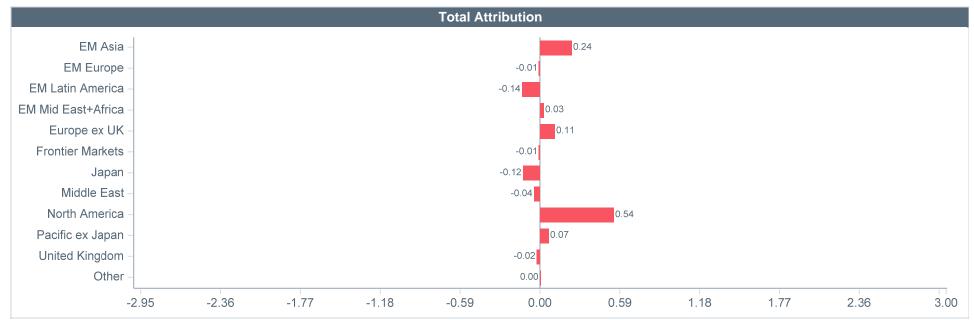




Wyoming State Treasurer's Office Total Equity Composite vs. MSCI ACW Index (USD) (Net) Buy and Hold Region Attribution Graph





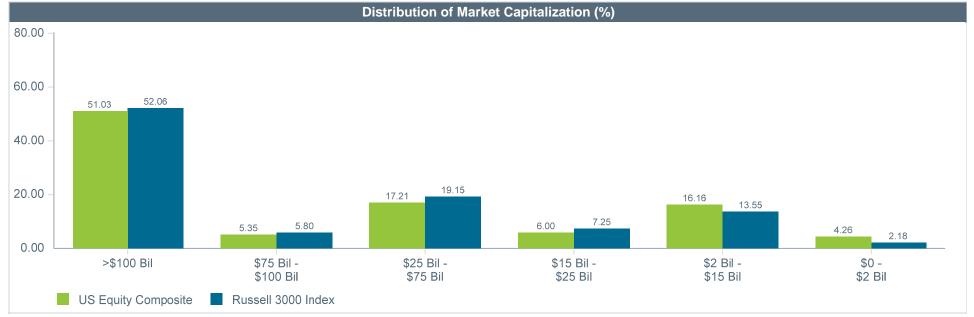




Wyoming State Treasurer's Office US Equity Composite vs. Russell 3000 Index Portfolio Characteristics

	Top Ten Eq	uity Holdings		
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Apple Inc	4.68	4.80	-0.12	-7.81
Microsoft Corp	4.37	4.38	-0.01	6.25
Amazon.com Inc	3.15	3.25	-0.10	-5.00
Facebook Inc	1.75	1.75	0.00	7.82
Alphabet Inc	1.51	1.53	-0.02	17.68
Alphabet Inc	1.50	1.49	0.01	18.08
Tesla Inc	1.25	1.27	-0.02	-5.35
Berkshire Hathaway Inc	1.16	1.19	-0.03	10.18
JPMorgan Chase & Co	1.13	1.14	-0.01	20.66
Johnson & Johnson	1.05	1.07	-0.02	5.08
% of Portfolio	21.55	21.87	-0.32	

Portfolio	Benchmark
	Delicilliark
378,157	385,239
1,780	2,265
28.33	29.31
4.21	4.30
16.80	17.01
1.33	1.37
1.01	1.00
2,861	3,079
	28.33 4.21 16.80 1.33 1.01



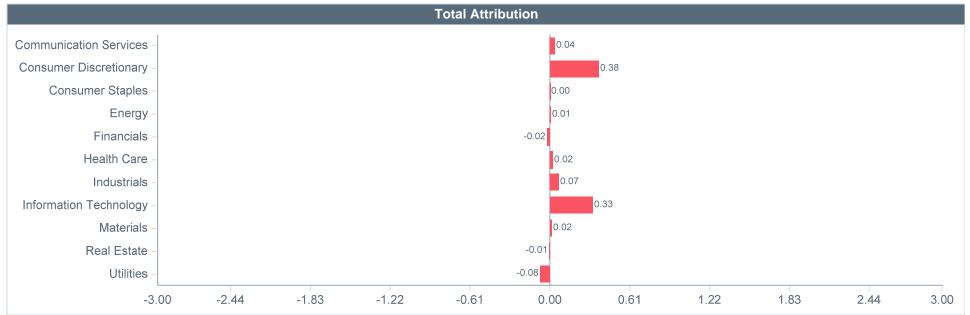
A stock with multiple share classes may be shown twice in the Top Ten Equity Holdings.



Wyoming State Treasurer's Office US Equity Composite vs. Russell 3000 Index Buy and Hold Sector Attribution Graph





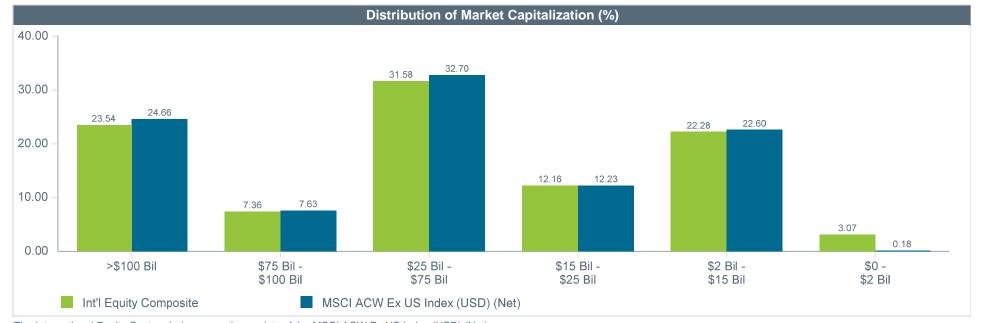




Wyoming State Treasurer's Office Int'l Equity Composite vs. MSCI ACW Ex US Index (USD) (Net) Portfolio Characteristics

Тор Т	en Equity F	Holdings		
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Taiwan Semiconductor Mfg (ADR)	2.19	1.95	0.24	8.87
Tencent Holdings LTD	1.62	1.73	-0.11	7.85
Roche Holding AG	1.42	0.87	0.55	-4.46
Samsung Electronics Co Ltd	1.28	1.32	-0.04	-2.60
Ping An Insurance Group	1.25	0.27	0.98	-2.85
nfineon Technologies AG	1.23	0.21	1.02	11.19
ASML Holding NV	1.17	0.99	0.18	24.78
Alibaba Group Holding Ltd	1.11	1.65	-0.54	-2.58
Adyen N.V	1.02	0.16	0.86	-4.13
Atlas Copco AB	1.01	0.16	0.85	18.87
% of Portfolio	13.30	9.31	3.99	

Median Mkt. Cap (\$M) 2,749 9,646 Price/Earnings Ratio 21.58 21.14 Price/Book Ratio 2.80 2.67 5 Yr. EPS Growth Rate (%) 7.73 6.23 Current Yield (%) 2.22 2.26 Beta (5 Years, Monthly) 1.01 1.00	Wtd. Avg. Mkt. Cap (\$M) 101,224 99,939 Median Mkt. Cap (\$M) 2,749 9,646 Price/Earnings Ratio 21.58 21.14 Price/Book Ratio 2.80 2.67 5 Yr. EPS Growth Rate (%) 7.73 6.23 Current Yield (%) 2.22 2.26 Beta (5 Years, Monthly) 1.01 1.00	1 011101	io Characteristics	
Median Mkt. Cap (\$M) 2,749 9,646 Price/Earnings Ratio 21.58 21.14 Price/Book Ratio 2.80 2.67 5 Yr. EPS Growth Rate (%) 7.73 6.23 Current Yield (%) 2.22 2.26 Beta (5 Years, Monthly) 1.01 1.00	Median Mkt. Cap (\$M) 2,749 9,646 Price/Earnings Ratio 21.58 21.14 Price/Book Ratio 2.80 2.67 5 Yr. EPS Growth Rate (%) 7.73 6.23 Current Yield (%) 2.22 2.26 Beta (5 Years, Monthly) 1.01 1.00		Portfolio	Benchmark
Price/Earnings Ratio 21.58 21.14 Price/Book Ratio 2.80 2.67 5 Yr. EPS Growth Rate (%) 7.73 6.23 Current Yield (%) 2.22 2.26 Beta (5 Years, Monthly) 1.01 1.00	Price/Earnings Ratio 21.58 21.14 Price/Book Ratio 2.80 2.67 5 Yr. EPS Growth Rate (%) 7.73 6.23 Current Yield (%) 2.22 2.26 Beta (5 Years, Monthly) 1.01 1.00	Vtd. Avg. Mkt. Cap (\$M)	101,224	99,939
Price/Book Ratio 2.80 2.67 5 Yr. EPS Growth Rate (%) 7.73 6.23 Current Yield (%) 2.22 2.26 Beta (5 Years, Monthly) 1.01 1.00	Price/Book Ratio 2.80 2.67 5 Yr. EPS Growth Rate (%) 7.73 6.23 Current Yield (%) 2.22 2.26 Beta (5 Years, Monthly) 1.01 1.00	Median Mkt. Cap (\$M)	2,749	9,646
5 Yr. EPS Growth Rate (%) 7.73 6.23 Current Yield (%) 2.22 2.26 Beta (5 Years, Monthly) 1.01 1.00	5 Yr. EPS Growth Rate (%) 7.73 6.23 Current Yield (%) 2.22 2.26 Beta (5 Years, Monthly) 1.01 1.00	Price/Earnings Ratio	21.58	21.14
Current Yield (%) 2.22 2.26 Beta (5 Years, Monthly) 1.01 1.00	Current Yield (%) 2.22 2.26 Beta (5 Years, Monthly) 1.01 1.00	Price/Book Ratio	2.80	2.67
Beta (5 Years, Monthly) 1.01 1.00	Beta (5 Years, Monthly) 1.01 1.00	5 Yr. EPS Growth Rate (%)	7.73	6.23
		Current Yield (%)	2.22	2.26
Number of Securities 5,376 2,353	Number of Securities 5,376 2,353	Beta (5 Years, Monthly)	1.01	1.00
		Number of Securities	5,376	2,353

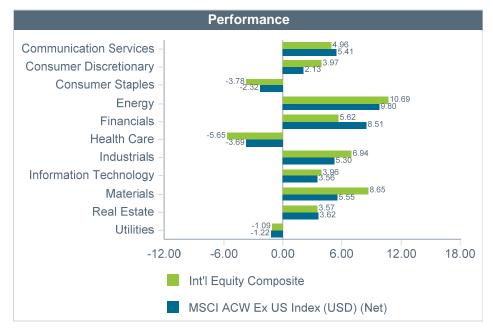


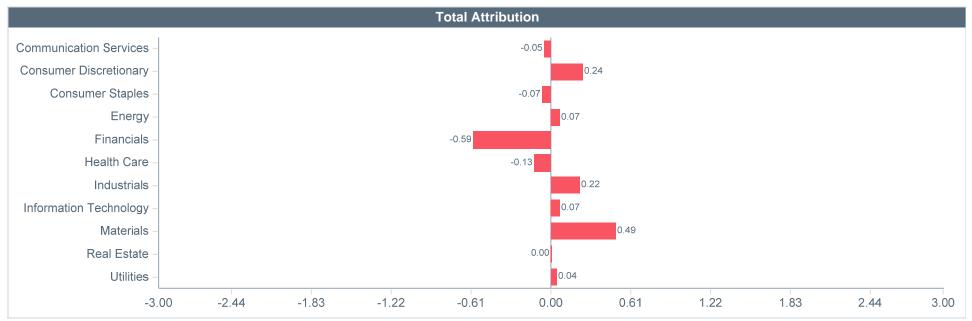
The International Equity Custom Index currently consists of the MSCI ACW Ex US Index (USD) (Net).



Wyoming State Treasurer's Office Int'l Equity Composite vs. MSCI ACW Ex US Index (USD) (Net) Buy and Hold Sector Attribution Graph



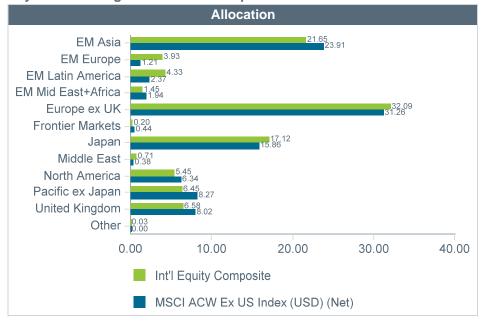


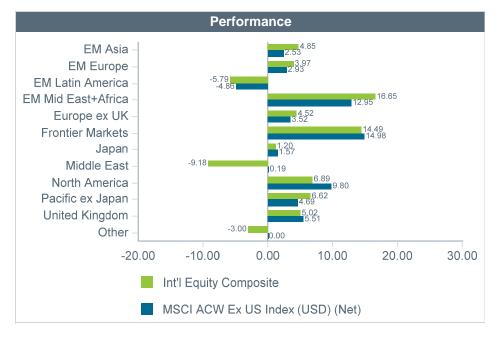


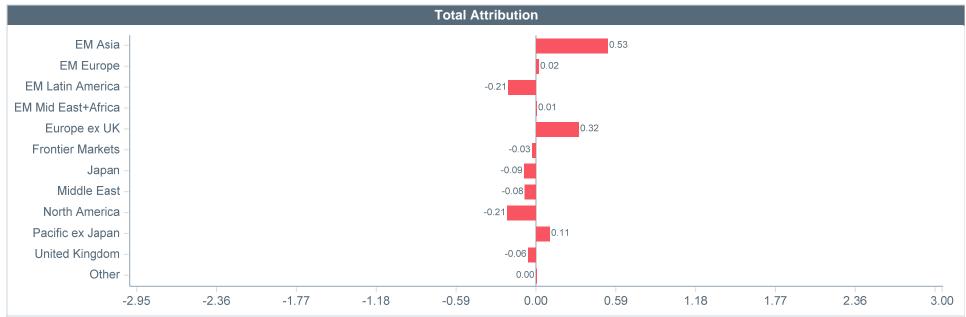
The International Equity Custom Index currently consists of the MSCI ACW Ex US Index (USD) (Net).



Wyoming State Treasurer's Office Int'l Equity Composite vs. MSCI ACW Ex US Index (USD) (Net) Buy and Hold Region Attribution Graph

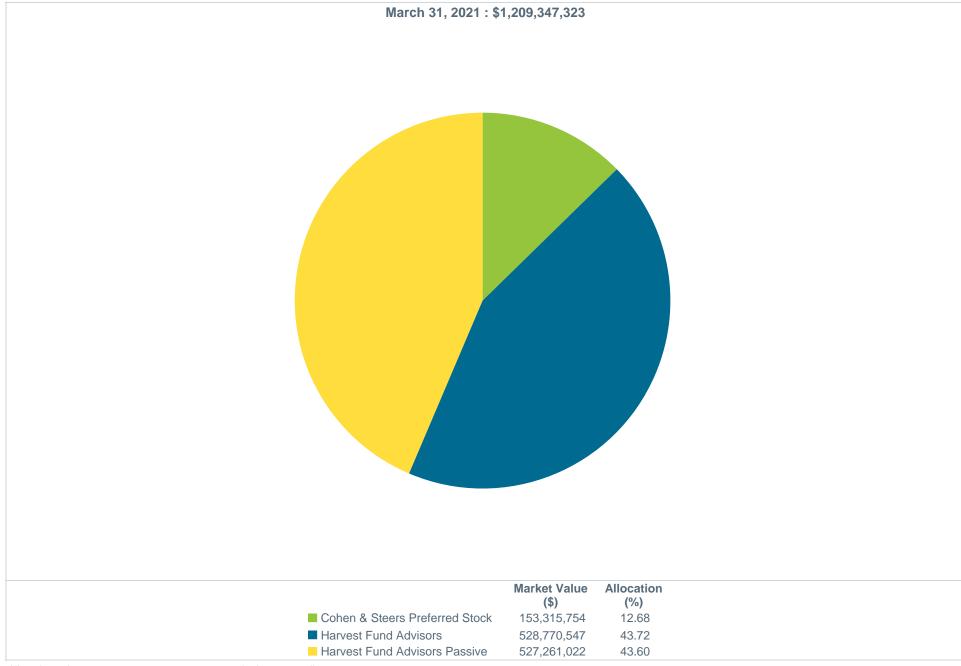






The International Equity Custom Index currently consists of the MSCI ACW Ex US Index (USD) (Net).





Allocations shown may not sum up to 100% exactly due to rounding.

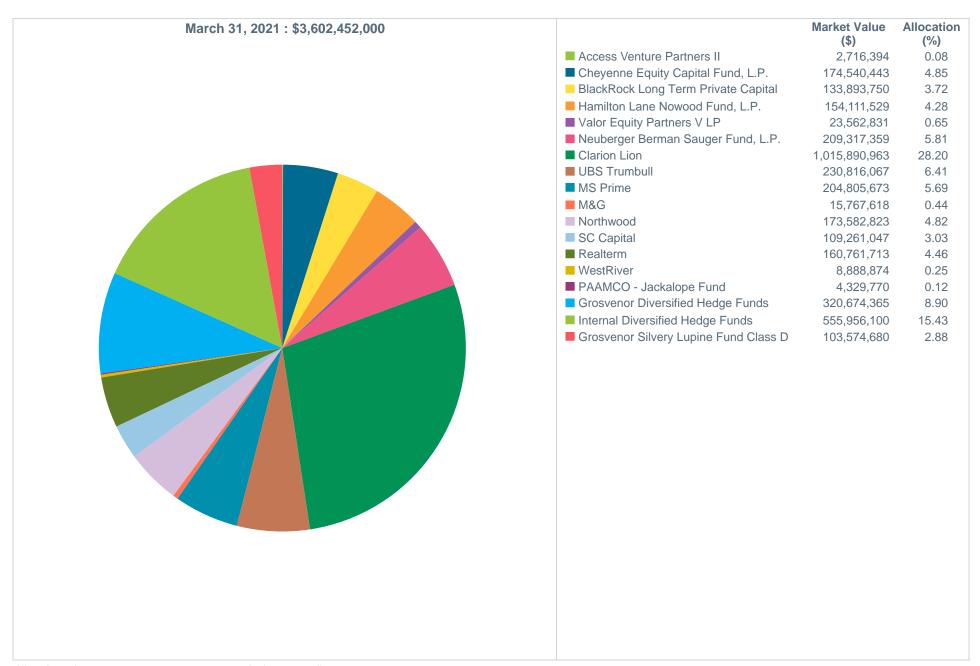


	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Cohen & Steers Preferred Stock	-0.07	-0.07	11.20	23.83	N/A	N/A	N/A	N/A	7.68	8.71	07/01/2018
S&P US Preferred Stock Index	-0.01	-0.01	14.54	26.89	6.94	5.97	6.18	6.30	7.97	6.88	
Difference	-0.06	-0.06	-3.34	-3.06	N/A	N/A	N/A	N/A	-0.29	1.83	
MLP Composite	19.95	19.95	32.88	80.89	N/A	N/A	N/A	N/A	-24.38	-7.75	08/01/2018
MLP Custom Index	21.42	21.42	33.51	88.97	-1.31	1.07	-5.52	0.10	-25.60	-8.00	
Difference	-1.47	-1.47	-0.63	-8.08	N/A	N/A	N/A	N/A	1.22	0.25	
Harvest Fund Advisors	18.59	18.59	31.29	74.19	N/A	N/A	N/A	N/A	-24.38	-8.15	08/01/2018
MLP Custom Index	21.42	21.42	33.51	88.97	-1.31	1.07	-5.52	0.10	-25.60	-8.00	
Difference	-2.83	-2.83	-2.22	-14.78	N/A	N/A	N/A	N/A	1.22	-0.15	
Harvest Fund Advisors Passive	21.31	21.31	34.46	87.01	N/A	N/A	N/A	N/A	N/A	-4.44	02/01/2020
MLP Custom Index	21.42	21.42	33.51	88.97	-1.31	1.07	-5.52	0.10	-25.60	-4.82	
Difference	-0.11	-0.11	0.95	-1.96	N/A	N/A	N/A	N/A	N/A	0.38	



	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Cohen & Steers Preferred Stock	0.00	0.00	11.44	24.19	N/A	N/A	N/A	N/A	8.01	9.05	07/01/2018
S&P US Preferred Stock Index	-0.01	-0.01	14.54	26.89	6.94	5.97	6.18	6.30	7.97	6.88	
Difference	0.01	0.01	-3.10	-2.70	N/A	N/A	N/A	N/A	0.04	2.17	
MLP Composite	20.04	20.04	33.18	81.41	N/A	N/A	N/A	N/A	-24.16	-7.31	08/01/2018
MLP Custom Index	21.42	21.42	33.51	88.97	-1.31	1.07	-5.52	0.10	-25.60	-8.00	
Difference	-1.38	-1.38	-0.33	-7.56	N/A	N/A	N/A	N/A	1.44	0.69	
Harvest Fund Advisors	18.76	18.76	31.86	75.21	N/A	N/A	N/A	N/A	-23.94	-7.58	08/01/2018
MLP Custom Index	21.42	21.42	33.51	88.97	-1.31	1.07	-5.52	0.10	-25.60	-8.00	
Difference	-2.66	-2.66	-1.65	-13.76	N/A	N/A	N/A	N/A	1.66	0.42	
Harvest Fund Advisors Passive	21.32	21.32	34.47	87.02	N/A	N/A	N/A	N/A	N/A	-4.44	02/01/2020
MLP Custom Index	21.42	21.42	33.51	88.97	-1.31	1.07	-5.52	0.10	-25.60	-4.82	
Difference	-0.10	-0.10	0.96	-1.95	N/A	N/A	N/A	N/A	N/A	0.38	

As of March 31, 2021



Allocations shown may not sum up to 100% exactly due to rounding.



Wyoming State Treasurer's Office Comparative Performance

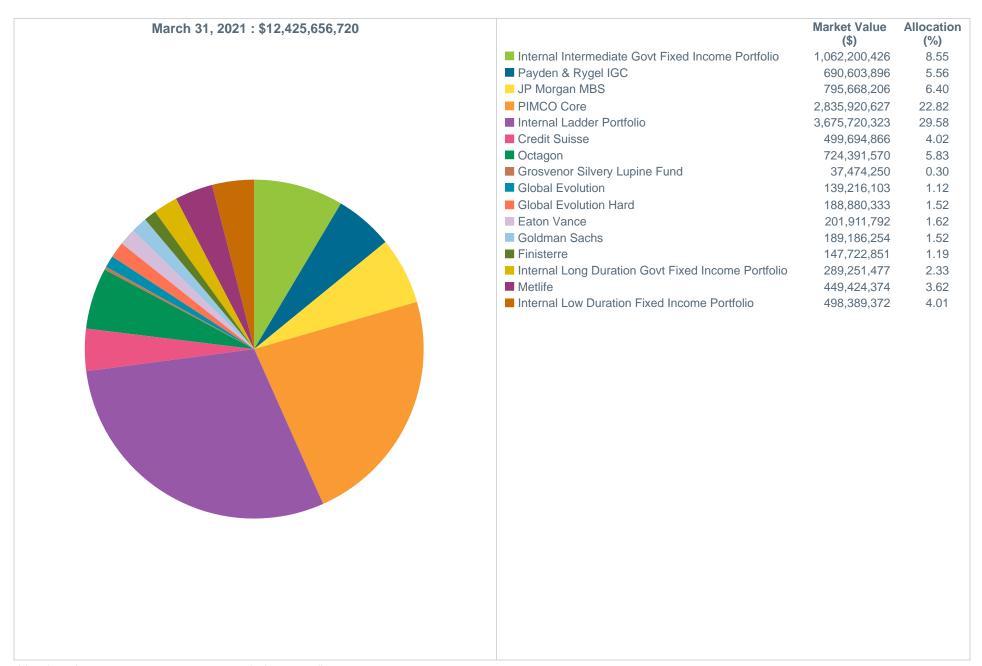
	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Core Real Estate Composite	1.89	1.89	3.48	1.33	3.52	4.87	7.14	8.20	0.51	5.32	01/01/2006
NCREIF ODCE Index (AWA) (Net)	1.89	1.89	3.28	1.47	3.96	5.26	7.28	8.67	0.34	5.50	
Difference	0.00	0.00	0.20	-0.14	-0.44	-0.39	-0.14	-0.47	0.17	-0.18	
Clarion Lion	2.08	2.08	4.55	2.51	5.59	6.52	8.71	9.57	1.67	5.35	01/01/2006
NCREIF ODCE Index (AWA) (Net)	1.89	1.89	3.28	1.47	3.96	5.26	7.28	8.67	0.34	5.50	
Difference	0.19	0.19	1.27	1.04	1.63	1.26	1.43	0.90	1.33	-0.15	
UBS Trumbull	1.09	1.09	-1.38	-3.95	-0.76	1.78	4.32	5.93	-4.74	4.25	07/01/2006
NCREIF ODCE Index (AWA) (Net)	1.89	1.89	3.28	1.47	3.96	5.26	7.28	8.67	0.34	5.17	
Difference	-0.80	-0.80	-4.66	-5.42	-4.72	-3.48	-2.96	-2.74	-5.08	-0.92	
MS Prime	1.91	1.91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.41	10/01/2020
NCREIF ODCE Index (AWA) (Net)	1.89	1.89	3.28	1.47	3.96	5.26	7.28	8.67	0.34	3.00	
Difference	0.02	0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.41	
Diversified Hedge Funds Composite	-0.75	-0.75	9.74	15.12	3.36	3.62	2.11	3.09	7.14	2.59	12/01/2007
HFRI FOF Comp Index	2.01	2.01	14.97	24.00	5.48	5.64	3.90	3.44	10.88	2.08	
Difference	-2.76	-2.76	-5.23	-8.88	-2.12	-2.02	-1.79	-0.35	-3.74	0.51	
Grosvenor Diversified Hedge Funds	-0.58	-0.58	10.54	18.33	N/A	N/A	N/A	N/A	9.70	4.07	07/01/2018
HFRI FOF Comp Index	2.01	2.01	14.97	24.00	5.48	5.64	3.90	3.44	10.88	5.81	
Difference	-2.59	-2.59	-4.43	-5.67	N/A	N/A	N/A	N/A	-1.18	-1.74	
Internal Diversified Hedge Funds	-0.85	-0.85	9.35	13.54	N/A	N/A	N/A	N/A	5.83	4.30	07/01/2018
HFRI FOF Comp Index	2.01	2.01	14.97	24.00	5.48	5.64	3.90	3.44	10.88	5.81	
Difference	-2.86	-2.86	-5.62	-10.46	N/A	N/A	N/A	N/A	-5.05	-1.51	
Grosvenor Opportunistic Class D	26.77	26.77	64.29	N/A	N/A	N/A	N/A	N/A	N/A	64.29	07/01/2020
Grosvenor Opportunistic Class D Custom Benchmark	1.96	1.96	13.56	N/A	N/A	N/A	N/A	N/A	N/A	13.56	
Difference	24.81	24.81	50.73	N/A	N/A	N/A	N/A	N/A	N/A	50.73	



Wyoming State Treasurer's Office Comparative Performance

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Core Real Estate Composite	2.06	2.06	3.96	1.95	4.18	5.59	7.93	9.05	1.11	6.15	01/01/2006
NCREIF ODCE Index (AWA) (Gross)	2.11	2.11	3.94	2.32	4.88	6.20	8.25	9.67	1.19	6.46	
Difference	-0.05	-0.05	0.02	-0.37	-0.70	-0.61	-0.32	-0.62	-0.08	-0.31	
Clarion Lion	2.22	2.22	4.98	3.07	6.22	7.19	9.43	10.34	2.23	6.12	01/01/2006
NCREIF ODCE Index (AWA) (Gross)	2.11	2.11	3.94	2.32	4.88	6.20	8.25	9.67	1.19	6.46	
Difference	0.11	0.11	1.04	0.75	1.34	0.99	1.18	0.67	1.04	-0.34	
UBS Trumbull	1.27	1.27	-0.84	-3.25	-0.04	2.59	5.20	6.88	-4.05	5.19	07/01/2006
NCREIF ODCE Index (AWA) (Gross)	2.11	2.11	3.94	2.32	4.88	6.20	8.25	9.67	1.19	6.14	
Difference	-0.84	-0.84	-4.78	-5.57	-4.92	-3.61	-3.05	-2.79	-5.24	-0.95	
MS Prime	2.19	2.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.91	10/01/2020
NCREIF ODCE Index (AWA) (Gross)	2.11	2.11	3.94	2.32	4.88	6.20	8.25	9.67	1.19	3.44	
Difference	0.08	0.08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.47	
Diversified Hedge Funds Composite	-0.75	-0.75	9.74	15.12	3.36	3.62	2.11	3.09	7.14	2.59	12/01/2007
HFRI FOF Comp Index	2.01	2.01	14.97	24.00	5.48	5.64	3.90	3.44	10.88	2.08	
Difference	-2.76	-2.76	-5.23	-8.88	-2.12	-2.02	-1.79	-0.35	-3.74	0.51	
Grosvenor Diversified Hedge Funds	-0.58	-0.58	10.54	18.33	N/A	N/A	N/A	N/A	9.70	4.07	07/01/2018
HFRI FOF Comp Index	2.01	2.01	14.97	24.00	5.48	5.64	3.90	3.44	10.88	5.81	
Difference	-2.59	-2.59	-4.43	-5.67	N/A	N/A	N/A	N/A	-1.18	-1.74	
Internal Diversified Hedge Funds	-0.85	-0.85	9.35	13.54	N/A	N/A	N/A	N/A	5.83	4.30	07/01/2018
HFRI FOF Comp Index	2.01	2.01	14.97	24.00	5.48	5.64	3.90	3.44	10.88	5.81	
Difference	-2.86	-2.86	-5.62	-10.46	N/A	N/A	N/A	N/A	-5.05	-1.51	
Grosvenor Opportunistic Class D	26.77	26.77	64.29	N/A	N/A	N/A	N/A	N/A	N/A	64.29	07/01/2020
Grosvenor Opportunistic Class D Custom Benchmark	1.96	1.96	13.56	N/A	N/A	N/A	N/A	N/A	N/A	13.56	
Difference	24.81	24.81	50.73	N/A	N/A	N/A	N/A	N/A	N/A	50.73	





Allocations shown may not sum up to 100% exactly due to rounding.



	Allocation						P	erforma	nce (%)				
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Core Fixed Income Composite	5,384,393,155	43.33	-3.44	-3.44	-1.87	1.47	4.83	3.26	3.40	N/A	8.40	2.82	01/01/2013
Bloomberg US Agg Bond Index			-3.38	-3.38	-2.13	0.71	4.65	3.10	3.31	3.44	7.51	2.77	
Difference			-0.06	-0.06	0.26	0.76	0.18	0.16	0.09	N/A	0.89	0.05	
Internal Aggregate Core Fixed Income	2,548,472,528	20.51	-3.11	-3.11	-1.79	0.95	N/A	N/A	N/A	N/A	8.14	3.26	11/01/2019
Bloomberg US Agg Bond Index			-3.38	-3.38	-2.13	0.71	4.65	3.10	3.31	3.44	7.51	2.63	
Difference			0.27	0.27	0.34	0.24	N/A	N/A	N/A	N/A	0.63	0.63	
Internal Intermediate Govt Fixed Income Portfolio	1,062,200,426	8.55	-4.30	-4.30	-4.84	-4.60	3.30	2.06	2.47	2.42	7.85	4.47	10/01/1996
Internal Intermediate Govt Fixed Income Portfolio Index			-4.25	-4.25	-4.88	-4.43	3.42	1.87	2.10	2.18	8.00	4.46	
Difference			-0.05	-0.05	0.04	-0.17	-0.12	0.19	0.37	0.24	-0.15	0.01	
Payden & Rygel IGC	690,603,896	5.56	-4.63	-4.63	-0.31	8.81	N/A	N/A	N/A	N/A	10.15	3.87	11/01/2019
Payden & Rygel Custom Index			-4.65	-4.65	-0.23	8.73	5.89	4.73	4.47	4.95	8.94	3.13	
Difference			0.02	0.02	-0.08	0.08	N/A	N/A	N/A	N/A	1.21	0.74	
JP Morgan MBS	795,668,206	6.40	0.00	0.00	1.24	2.69	N/A	N/A	N/A	N/A	5.62	4.06	11/01/2019
Bloomberg US MBS Index (Unhgd)			-1.10	-1.10	-0.75	-0.09	3.75	2.43	2.86	2.83	3.87	2.18	
Difference			1.10	1.10	1.99	2.78	N/A	N/A	N/A	N/A	1.75	1.88	
PIMCO Core	2,835,920,627	22.82	-3.76	-3.76	-1.92	1.96	4.77	3.37	3.47	N/A	8.82	2.80	01/01/2013
PIMCO Custom Index			-3.38	-3.38	-2.13	1.12	4.57	3.02	3.25	3.40	8.14	2.72	
Difference			-0.38	-0.38	0.21	0.84	0.20	0.35	0.22	N/A	0.68	0.08	
Opportunistic Fixed Income													
Grosvenor Silvery Lupine Fund	37,474,250	0.30	0.27	0.27	4.58	4.50	0.43	4.12	N/A	N/A	-7.50	3.81	07/01/2014
CS Western Euro Hi Yld Index			1.80	1.80	10.89	23.43	6.12	7.13	5.86	7.17	3.59	5.71	
Difference			-1.53	-1.53	-6.31	-18.93	-5.69	-3.01	N/A	N/A	-11.09	-1.90	





	Allocation	ion Performance (%)											
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Bank Loans	1,224,086,436	9.85	1.75	1.75	9.09	18.54	N/A	N/A	N/A	N/A	3.95	4.99	09/01/2019
S&P/LSTA Lvg'd Loan Index			1.78	1.78	10.03	20.71	4.13	5.28	3.93	4.25	3.12	4.54	
Difference			-0.03	-0.03	-0.94	-2.17	N/A	N/A	N/A	N/A	0.83	0.45	
Credit Suisse	499,694,866	4.02	1.77	1.77	9.02	18.53	N/A	N/A	N/A	N/A	2.82	4.32	09/01/2019
S&P/LSTA Lvg'd Loan Index			1.78	1.78	10.03	20.71	4.13	5.28	3.93	4.25	3.12	4.54	
Difference			-0.01	-0.01	-1.01	-2.18	N/A	N/A	N/A	N/A	-0.30	-0.22	
Octagon	724,391,570	5.83	1.74	1.74	9.26	18.59	N/A	N/A	N/A	N/A	3.27	4.88	09/01/2019
S&P/LSTA Lvg'd Loan Index			1.78	1.78	10.03	20.71	4.13	5.28	3.93	4.25	3.12	4.54	
Difference			-0.04	-0.04	-0.77	-2.12	N/A	N/A	N/A	N/A	0.15	0.34	
Emerging Market Debt Fixed Income Composite	866,917,333	6.98	-3.13	-3.13	6.43	18.25	-0.86	3.11	-0.13	N/A	2.81	-1.22	04/01/2013
EMD Custom Benchmark			-4.02	-4.02	4.40	15.07	-0.25	3.42	0.48	0.67	1.50	-0.51	
Difference			0.89	0.89	2.03	3.18	-0.61	-0.31	-0.61	N/A	1.31	-0.71	
Global Evolution	139,216,103	1.12	-6.41	-6.41	3.61	14.41	N/A	N/A	N/A	N/A	N/A	-2.48	02/01/2020
JPM GBI-EM Gbl Dvf'd Index (USD) (TR) (Unhedged)			-6.68	-6.68	2.93	13.03	-0.79	3.08	0.24	0.51	2.69	-2.50	
Difference			0.27	0.27	0.68	1.38	N/A	N/A	N/A	N/A	N/A	0.02	
Goldman Sachs	189,186,254	1.52	-1.55	-1.55	7.27	20.97	N/A	N/A	N/A	N/A	N/A	4.35	03/01/2020
Goldman Sachs Custom Index			-0.80	-0.80	6.61	18.50	6.19	6.17	5.45	5.55	7.31	4.46	
Difference			-0.75	-0.75	0.66	2.47	N/A	N/A	N/A	N/A	N/A	-0.11	
Eaton Vance	201,911,792	1.62	-0.58	-0.58	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.58	01/01/2021
JP Morgan EMB (JEMB) Hard/Local 50/50			-4.69	-4.69	3.93	15.12	2.18	4.40	2.78	3.10	4.49	-4.69	
Difference			4.11	4.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.11	
Global Evolution Hard	188,880,333	1.52	-5.10	-5.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-3.39	12/01/2020
JP Morgan EMBIG Div Ex CCC (USD) (TR) Index			-4.72	-4.72	3.18	15.21	4.56	5.21	5.20	5.67	6.09	-3.02	
Difference			-0.38	-0.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.37	
Finisterre	147,722,851	1.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-1.52	03/01/2021
Custom EMD Benchmark (1/3 blend)			-4.02	-4.02	4.25	15.81	3.16	4.82	3.60	3.94	5.07	-1.56	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.04	

Performance shown is net of fees. Wyoming State Treasurer's Office fiscal year ends on June 30th. Since Inception date shown represents the first full month following initial funding. The EMD Custom Index consists of the JPM GBI-EM GbI Dvf'd Index through 02/29/2020, 70% JPM GBI-EM GbI Dvf'd Index / 30% JPM CEMBI Brd Dvf'd Index thereafter through 11/30/2020, and 1/3 JPM GBI-EM GbI Dvf'd Index, 1/3 JPM CEMBI Brd Dvf'd Index, and 1/3 JPM EMBI GbI Dvf'd Index thereafter. The Goldman Sachs Index consists of JPM CEMBI Brd Dvf'd Index through 11/22/2020, account performance from 11/23/2020 through 11/30/2020, and the JPM CEMBI Brd Dvf'd Index thereafter.



	Allocation	Allocation					P	erforma	nce (%)				
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Laddered Treasury Composite	3,675,720,323	29.58	-0.05	-0.05	0.11	0.32	N/A	N/A	N/A	N/A	3.20	2.41	10/01/2019
Internal Ladder Portfolio	3,675,720,323	29.58	-0.05	-0.05	0.11	0.32	N/A	N/A	N/A	N/A	3.20	2.41	10/01/2019
Long Duration Fixed Income Composite	738,675,852	5.94	-10.84	-10.84	-8.82	-4.68	N/A	N/A	N/A	N/A	18.08	10.58	01/01/2019
Bloomberg US Gov't Crdt Lng Trm Bond Index			-10.41	-10.41	-7.79	-2.05	7.14	5.47	6.13	6.98	16.12	10.19	
Difference			-0.43	-0.43	-1.03	-2.63	N/A	N/A	N/A	N/A	1.96	0.39	
Internal Long Duration Govt Fixed Income Portfolio	289,251,477	2.33	-13.53	-13.53	-16.03	-16.71	N/A	N/A	N/A	N/A	17.06	6.82	01/01/2019
Bloomberg US Gov't Lng Trm Bond Index			-13.39	-13.39	-15.84	-15.60	5.84	3.17	5.50	6.30	17.55	7.15	
Difference			-0.14	-0.14	-0.19	-1.11	N/A	N/A	N/A	N/A	-0.49	-0.33	
Metlife	449,424,374	3.62	-8.56	-8.56	-3.12	7.38	N/A	N/A	N/A	N/A	16.14	12.78	11/01/2018
Bloomberg US Lng Crdt Index			-8.39	-8.39	-1.99	8.87	7.48	6.69	6.39	7.23	13.32	11.70	
Difference			-0.17	-0.17	-1.13	-1.49	N/A	N/A	N/A	N/A	2.82	1.08	
Low Duration Fixed Income Composite	498,389,372	4.01	0.00	0.00	0.19	0.39	N/A	N/A	N/A	N/A	3.14	3.34	12/01/2018
Low Duration Fixed Income Custom Index			-0.05	-0.05	0.10	0.36	2.91	1.93	1.68	1.53	3.14	3.30	
Difference			0.05	0.05	0.09	0.03	N/A	N/A	N/A	N/A	0.00	0.04	
Internal Low Duration Fixed Income Portfolio	498,389,372	4.01	0.00	0.00	0.19	0.39	2.89	N/A	N/A	N/A	3.14	2.86	03/01/2018
Bloomberg US Gov't 1-3 Yr Bond Index			-0.05	-0.05	0.10	0.36	2.80	1.73	1.51	1.31	3.14	2.79	
Difference			0.05	0.05	0.09	0.03	0.09	N/A	N/A	N/A	0.00	0.07	





	Allocation												
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Core Fixed Income Composite	5,384,393,155	43.33	-3.41	-3.41	-1.80	1.57	4.93	3.37	3.52	N/A	8.50	2.95	01/01/2013
Bloomberg US Agg Bond Index			-3.38	-3.38	-2.13	0.71	4.65	3.10	3.31	3.44	7.51	2.77	
Difference			-0.03	-0.03	0.33	0.86	0.28	0.27	0.21	N/A	0.99	0.18	
IM U.S. Broad Mkt Core Fixed Income (SA+CF) Median			-3.18	-3.18	-0.98	3.33	5.26	3.74	3.81	3.97	8.52	3.27	
Core Fixed Income Composite Rank			77	77	72	77	74	73	74	N/A	52	76	
Internal Aggregate Core Fixed Income	2,548,472,528	20.51	-3.09	-3.09	-1.73	1.04	N/A	N/A	N/A	N/A	8.23	3.33	11/01/2019
Bloomberg US Agg Bond Index			-3.38	-3.38	-2.13	0.71	4.65	3.10	3.31	3.44	7.51	2.63	
Difference			0.29	0.29	0.40	0.33	N/A	N/A	N/A	N/A	0.72	0.70	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median			-3.18	-3.18	-0.98	3.33	5.26	3.74	3.81	3.97	8.52	3.53	
Internal Aggregate Core Fixed Income Rank			43	43	71	84	N/A	N/A	N/A	N/A	59	63	
Internal Intermediate Govt Fixed Income Portfolio	1,062,200,426	8.55	-4.30	-4.30	-4.84	-4.60	3.30	2.06	2.47	2.42	7.85	4.47	10/01/1996
Internal Intermediate Govt Fixed Income Portfolio Index			-4.25	-4.25	-4.88	-4.43	3.42	1.87	2.10	2.18	8.00	4.46	
Difference			-0.05	-0.05	0.04	-0.17	-0.12	0.19	0.37	0.24	-0.15	0.01	
IM U.S. Government Bonds (SA+CF) Median			-1.82	-1.82	-1.79	-1.23	4.03	2.29	2.46	2.47	6.37	4.44	
Internal Intermediate Govt Fixed Income Portfolio Rank			60	60	61	64	73	71	50	53	46	50	
Payden & Rygel IGC	690,603,896	5.56	-4.58	-4.58	-0.17	9.08	N/A	N/A	N/A	N/A	10.37	4.05	11/01/2019
Payden & Rygel Custom Index			-4.65	-4.65	-0.23	8.73	5.89	4.73	4.47	4.95	8.94	3.13	
Difference			0.07	0.07	0.06	0.35	N/A	N/A	N/A	N/A	1.43	0.92	
IM U.S. Corporate Bonds (SA+CF) Median			-4.35	-4.35	0.56	10.47	7.04	5.78	5.36	5.91	11.43	4.83	
Payden & Rygel IGC Rank			60	60	66	75	N/A	N/A	N/A	N/A	67	76	
JP Morgan MBS	795,668,206	6.40	0.02	0.02	1.30	2.77	N/A	N/A	N/A	N/A	5.71	4.15	11/01/2019
Bloomberg US MBS Index (Unhgd)			-1.10	-1.10	-0.75	-0.09	3.75	2.43	2.86	2.83	3.87	2.18	
Difference			1.12	1.12	2.05	2.86	N/A	N/A	N/A	N/A	1.84	1.97	
IM U.S. Mortgage Backed Bonds (SA+CF) Median			-0.64	-0.64	0.59	2.05	4.04	3.33	3.50	3.73	4.15	2.67	
JP Morgan MBS Rank			41	41	41	48	N/A	N/A	N/A	N/A	13	13	
PIMCO Core	2,835,920,627	22.82	-3.73	-3.73	-1.84	2.06	4.88	3.48	3.61	N/A	8.93	2.94	01/01/2013
PIMCO Custom Index			-3.38	-3.38	-2.13	1.12	4.57	3.02	3.25	3.40	8.14	2.72	
Difference			-0.35	-0.35	0.29	0.94	0.31	0.46	0.36	N/A	0.79	0.22	
IM U.S. Broad Mkt Core Fixed Income (SA+CF) Median			-3.18	-3.18	-0.98	3.33	5.26	3.74	3.81	3.97	8.52	3.27	
PIMCO Core Rank			93	93	73	72	76	69	68	N/A	33	76	

Performance shown is gross of fees. Fiscal year ends on June 30th. The Internal Int Govt Fixed Income Portfolio Index currently consists of the BB US Treasury Index. Nov 2019 performance consists of the Internal Int Govt Fixed Income Portfolio. Prior to November 2019, the index consists of BB US Gov't Int Term Bond Index. Prior to December 2009, the index consisted of the BB US Gov't Crdt Bond Index. The PIMCO Custom Index consists of the BB US Agg Bond Index through February 2018, the BB US Agg Int Index through June 2019, the BB US Agg Bond Index through 03/26/2020, account performance from 03/27/2020 through 04/03/2020, and the BB US Agg Bond Index through 03/25/2020, account performance from 03/26/2020 through 03/31/2020, and BB US Corp Inv Grade Index thereafter.



	Allocation						Pe	rforman	ce (%)				
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Opportunistic Fixed Income													
Grosvenor Silvery Lupine Fund	37,474,250	0.30	0.27	0.27	4.58	4.50	0.43	4.12	N/A	N/A	-7.50	3.81	07/01/2014
CS Western Euro Hi Yld Index			1.80	1.80	10.89	23.43	6.12	7.13	5.86	7.17	3.59	5.71	
Difference			-1.53	-1.53	-6.31	-18.93	-5.69	-3.01	N/A	N/A	-11.09	-1.90	
Bank Loans	1,224,086,436	9.85	1.82	1.82	9.35	18.91	N/A	N/A	N/A	N/A	4.29	5.29	09/01/2019
S&P/LSTA Lvg'd Loan Index			1.78	1.78	10.03	20.71	4.13	5.28	3.93	4.25	3.12	4.54	
Difference			0.04	0.04	-0.68	-1.80	N/A	N/A	N/A	N/A	1.17	0.75	
IM U.S. Bank Loans (SA+CF) Median			1.69	1.69	9.01	18.26	4.01	5.10	4.03	4.50	2.39	4.18	
Bank Loans Rank			39	39	43	40	N/A	N/A	N/A	N/A	9	17	
Credit Suisse	499,694,866	4.02	1.83	1.83	9.21	18.85	N/A	N/A	N/A	N/A	3.11	4.56	09/01/2019
S&P/LSTA Lvg'd Loan Index			1.78	1.78	10.03	20.71	4.13	5.28	3.93	4.25	3.12	4.54	
Difference			0.05	0.05	-0.82	-1.86	N/A	N/A	N/A	N/A	-0.01	0.02	
IM U.S. Bank Loans (SA+CF) Median			1.69	1.69	9.01	18.26	4.01	5.10	4.03	4.50	2.39	4.18	
Credit Suisse Rank			39	39	45	40	N/A	N/A	N/A	N/A	28	35	
Octagon	724,391,570	5.83	1.82	1.82	9.59	19.02	N/A	N/A	N/A	N/A	3.72	5.30	09/01/2019
S&P/LSTA Lvg'd Loan Index			1.78	1.78	10.03	20.71	4.13	5.28	3.93	4.25	3.12	4.54	
Difference			0.04	0.04	-0.44	-1.69	N/A	N/A	N/A	N/A	0.60	0.76	
IM U.S. Bank Loans (SA+CF) Median			1.69	1.69	9.01	18.26	4.01	5.10	4.03	4.50	2.39	4.18	
Octagon Rank			39	39	39	39	N/A	N/A	N/A	N/A	15	17	

Performance shown is gross of fees with the exception of Grosvenor SLF, which is shown net of fees. Wyoming State Treasurer's Office fiscal year ends on June 30th. Since Inception date shown represents the first full month following initial funding.



	Allocation												
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Emerging Market Debt Fixed Income Composite	866,917,333	6.98	-3.09	-3.09	6.64	18.53	-0.52	3.54	0.36	N/A	3.04	-0.72	04/01/2013
EMD Custom Benchmark			-4.02	-4.02	4.40	15.07	-0.25	3.42	0.48	0.67	1.50	-0.51	
Difference			0.93	0.93	2.24	3.46	-0.27	0.12	-0.12	N/A	1.54	-0.21	
IM Emerging Markets Debt (SA+CF) Median			-4.55	-4.55	5.62	18.97	3.44	5.56	4.60	5.17	6.72	3.72	
Emerging Market Debt Fixed Income Composite Rank			30	30	33	55	88	87	95	N/A	92	95	
Global Evolution	139,216,103	1.12	-6.38	-6.38	3.72	14.60	N/A	N/A	N/A	N/A	N/A	-2.30	02/01/2020
JPM GBI-EM Gbl Dvf'd Index (USD) (TR) (Unhedged)			-6.68	-6.68	2.93	13.03	-0.79	3.08	0.24	0.51	2.69	-2.50	
Difference			0.30	0.30	0.79	1.57	N/A	N/A	N/A	N/A	N/A	0.20	
IM Emerging Markets Debt (SA+CF) Median			-4.55	-4.55	5.62	18.97	3.44	5.56	4.60	5.17	6.72	0.76	
Global Evolution Rank			73	73	87	88	N/A	N/A	N/A	N/A	N/A	85	
Goldman Sachs	189,186,254	1.52	-1.55	-1.55	7.40	21.13	N/A	N/A	N/A	N/A	N/A	4.47	03/01/2020
Goldman Sachs Custom Index			-0.80	-0.80	6.61	18.50	6.19	6.17	5.45	5.55	7.31	4.46	
Difference			-0.75	-0.75	0.79	2.63	N/A	N/A	N/A	N/A	N/A	0.01	
IM Emerging Markets Debt (SA+CF) Median			-4.55	-4.55	5.62	18.97	3.44	5.56	4.60	5.17	6.72	2.23	
Goldman Sachs Rank			24	24	27	37	N/A	N/A	N/A	N/A	N/A	25	
Eaton Vance	201,911,792	1.62	-0.47	-0.47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.47	01/01/2021
JP Morgan EMB (JEMB) Hard /Local 50/50			-4.69	-4.69	3.93	15.12	2.18	4.40	2.78	3.10	4.49	-4.69	
Difference			4.22	4.22	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.22	
IM Emerging Markets Debt (SA+CF) Median			-4.55	-4.55	5.62	18.97	3.44	5.56	4.60	5.17	6.72	-4.55	
Eaton Vance Rank			9	9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	
Global Evolution Hard	188,880,333	1.52	-5.05	-5.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-3.33	12/01/2020
JP Morgan EMBIG Div Ex CCC (USD) (TR) Index			-4.72	-4.72	3.18	15.21	4.56	5.21	5.20	5.67	6.09	-3.02	
Difference			-0.33	-0.33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.31	
IM Emerging Markets Debt (SA+CF) Median			-4.55	-4.55	5.62	18.97	3.44	5.56	4.60	5.17	6.72	-1.96	
Global Evolution Hard Rank			59	59	N/A	N/A	N/A	N/A	N/A	N/A	N/A	86	
Finisterre	147,722,851	1.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-1.48	03/01/2021
Custom EMD Benchmark (1/3 blend)			-4.02	-4.02	4.25	15.81	3.16	4.82	3.60	3.94	5.07	-1.56	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.08	
IM Emerging Markets Debt (SA+CF) Median			-4.55	-4.55	5.62	18.97	3.44	5.56	4.60	5.17	6.72	-1.58	
Finisterre Rank			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	44	
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Performance shown is gross of fees. Wyoming State Treasurer's Office fiscal year ends on June 30th. Since Inception date shown represents the first full month following initial funding. The EMD Custom Index consists of the JPM GBI-EM GbI Dvf'd Index through 02/29/2020, 70% JPM GBI-EM GbI Dvf'd Index / 30% JPM CEMBI Brd Dvf'd Index thereafter through 11/30/2020, and 1/3 JPM GBI-EM GbI Dvf'd Index, 1/3 JPM CEMBI Brd Dvf'd Index, and 1/3 JPM EMBI GbI Dvf'd Index thereafter. The Goldman Sachs Index consists of JPM CEMBI Brd Dvf'd Index through 11/22/2020, account performance from 11/23/2020 through 11/30/2020, and the JPM CEMBI Brd Dvf'd Index thereafter.



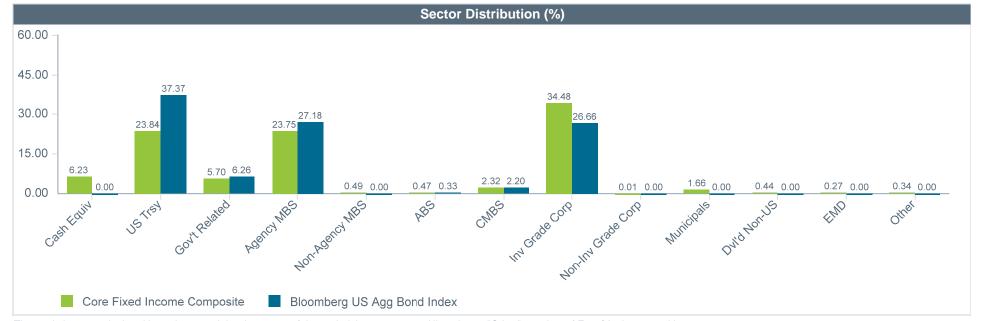
	Allocation						Pe	rforman	ce (%)				
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
Laddered Treasury Composite	3,675,720,323	29.58	-0.05	-0.05	0.11	0.32	N/A	N/A	N/A	N/A	3.20	2.41	10/01/2019
Internal Ladder Portfolio	3,675,720,323	29.58	-0.05	-0.05	0.11	0.32	N/A	N/A	N/A	N/A	3.20	2.41	10/01/2019
Long Duration Fixed Income Composite	738,675,852	5.94	-10.81	-10.81	-8.73	-4.58	N/A	N/A	N/A	N/A	18.20	10.70	01/01/2019
Bloomberg US Gov't Crdt Lng Trm Bond Index			-10.41	-10.41	-7.79	-2.05	7.14	5.47	6.13	6.98	16.12	10.19	
Difference			-0.40	-0.40	-0.94	-2.53	N/A	N/A	N/A	N/A	2.08	0.51	
IM U.S. Long Duration (SA+CF) Median			-9.63	-9.63	-5.46	2.46	7.95	6.37	6.75	7.59	16.98	11.55	
Long Duration Fixed Income Composite Rank			95	95	98	98	N/A	N/A	N/A	N/A	27	82	
Internal Long Duration Govt Fixed Income Portfolio	289,251,477	2.33	-13.53	-13.53	-16.03	-16.71	N/A	N/A	N/A	N/A	17.06	6.82	01/01/2019
Bloomberg US Gov't Lng Trm Bond Index			-13.39	-13.39	-15.84	-15.60	5.84	3.17	5.50	6.30	17.55	7.15	
Difference			-0.14	-0.14	-0.19	-1.11	N/A	N/A	N/A	N/A	-0.49	-0.33	
IM U.S. Long Duration (SA+CF) Median			-9.63	-9.63	-5.46	2.46	7.95	6.37	6.75	7.59	16.98	11.55	
Internal Long Duration Govt Fixed Income Portfolio Rank			100	100	100	100	N/A	N/A	N/A	N/A	50	100	
Metlife	449,424,374	3.62	-8.51	-8.51	-2.98	7.59	N/A	N/A	N/A	N/A	16.37	13.02	11/01/2018
Bloomberg US Lng Crdt Index			-8.39	-8.39	-1.99	8.87	7.48	6.69	6.39	7.23	13.32	11.70	
Difference			-0.12	-0.12	-0.99	-1.28	N/A	N/A	N/A	N/A	3.05	1.32	
IM U.S. Long Duration (SA+CF) Median			-9.63	-9.63	-5.46	2.46	7.95	6.37	6.75	7.59	16.98	12.21	
Metlife Rank			34	34	33	28	N/A	N/A	N/A	N/A	57	18	
Low Duration Fixed Income Composite	498,389,372	4.01	0.00	0.00	0.19	0.39	N/A	N/A	N/A	N/A	3.14	3.34	12/01/2018
Low Duration Fixed Income Custom Index			-0.05	-0.05	0.10	0.36	2.91	1.93	1.68	1.53	3.14	3.30	
Difference			0.05	0.05	0.09	0.03	N/A	N/A	N/A	N/A	0.00	0.04	
IM U.S. Short Duration Fixed Income (SA+CF) Median			-0.06	-0.06	0.90	3.21	3.34	2.41	2.13	2.04	3.83	3.82	
Low Duration Fixed Income Composite Rank			38	38	91	100	N/A	N/A	N/A	N/A	83	80	
Internal Low Duration Fixed Income Portfolio	498,389,372	4.01	0.00	0.00	0.19	0.39	2.89	N/A	N/A	N/A	3.14	2.86	03/01/2018
Bloomberg US Gov't 1-3 Yr Bond Index			-0.05	-0.05	0.10	0.36	2.80	1.73	1.51	1.31	3.14	2.79	
Difference			0.05	0.05	0.09	0.03	0.09	N/A	N/A	N/A	0.00	0.07	
IM U.S. Short Duration Fixed Income (SA+CF) Median			-0.06	-0.06	0.90	3.21	3.34	2.41	2.13	2.04	3.83	3.31	
Internal Low Duration Fixed Income Portfolio Rank			38	38	91	100	86	N/A	N/A	N/A	83	86	

Performance shown is gross of fees. Wyoming State Treasurer's Office fiscal year ends on June 30th. Since Inception date shown represents the first full month following initial funding. The Low Duration Fixed Income Custom Index consists of the Bloomberg US Gov't Crdt 1-3 Yr Bond Index through 06/30/2019 and the Bloomberg US Gov't 1-3 Yr Bond Index thereafter.



Wyoming State Treasurer's Office Core Fixed Income Composite vs. Bloomberg US Agg Bond Index Portfolio Characteristics

Portfolio Characteristics										
	Portfolio	Benchmark								
Effective Duration	6.07	6.40								
Convexity	0.04	0.28								
Avg. Maturity	7.93	8.38								
Avg. Quality	Aa3	Aa1/Aa2								
Yield To Maturity (%)	1.71	1.62								
Coupon Rate (%)	2.42	2.64								
Current Yield (%)	2.48	N/A								

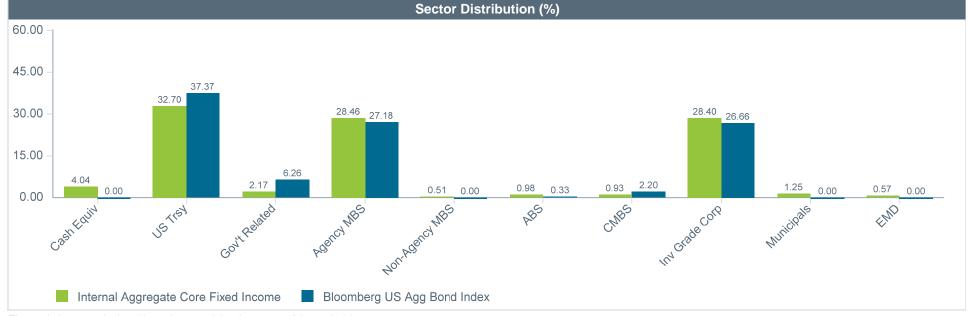


The statistics are calculated based on a weighted average of the underlying managers. Allocation to "Other" consists of Euro/Yankee securities.



Wyoming State Treasurer's Office Internal Aggregate Core Fixed Income vs. Bloomberg US Agg Bond Index Portfolio Characteristics

Portfolio Characteristics						
	Portfolio	Benchmark				
Effective Duration	5.81	6.40				
Convexity	0.21	0.28				
Avg. Maturity	8.12	8.38				
Avg. Quality	Aa2	Aa1/Aa2				
Yield To Maturity (%)	1.59	1.62				
Coupon Rate (%)	2.90	2.64				
Current Yield (%)	3.04	N/A				





Wyoming State Treasurer's Office Laddered Treasury Portfolio Characteristics

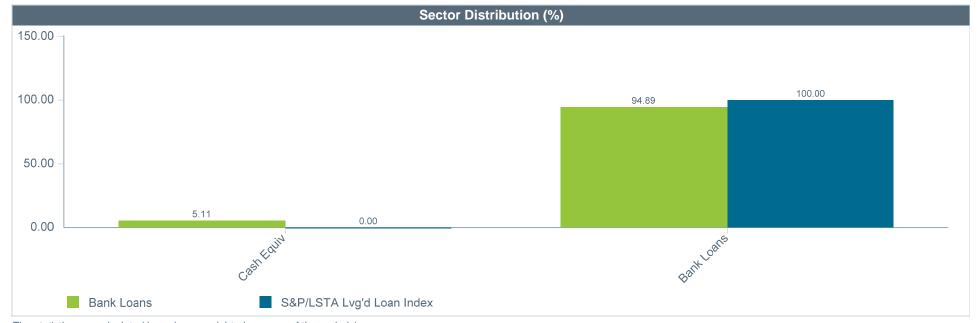
Portfolio Characteristics							
	Portfolio						
Effective Duration	1.66						
Convexity	0.04						
Avg. Maturity	1.75						
Avg. Quality	Aaa						
Yield To Maturity (%)	0.16						
Coupon Rate (%)	0.95						





Wyoming State Treasurer's Office Bank Loans vs. S&P/LSTA Lvg'd Loan Index Portfolio Characteristics

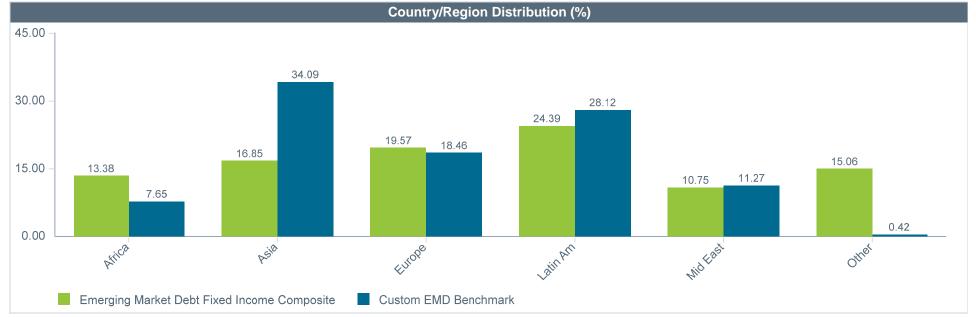
	Portfolio Characteristics	
	Portfolio	Benchmark
Effective Duration	0.25	N/A
Avg. Maturity	5.09	4.71
Avg. Quality	B2	B1
Yield To Maturity (%)	4.62	4.60
Coupon Rate (%)	4.04	3.94
Current Yield (%)	4.10	4.60





Wyoming State Treasurer's Office Emerging Market Debt Fixed Income Composite vs. Custom EMD Benchmark Portfolio Characteristics

Portfolio Characteristics							
	Portfolio	Benchmark					
Effective Duration	4.60	5.98					
Convexity	N/A	0.63					
Avg. Maturity	9.94	10.05					
Avg. Quality	Ba2	Ba2					
Yield To Maturity (%)	5.43	4.45					
Coupon Rate (%)	5.25	5.14					
Yield To Worst (%)	N/A	4.32					
Current Yield (%)	4.92	4.94					

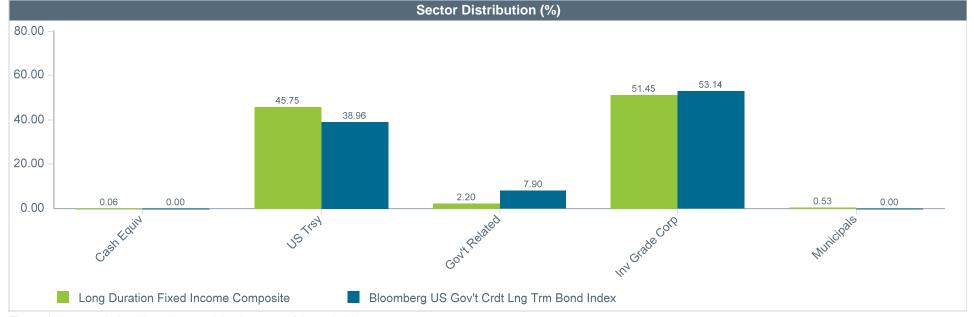






Wyoming State Treasurer's Office Long Duration Fixed Income Composite vs. Bloomberg US Gov't Crdt Lng Trm Bond Index Portfolio Characteristics

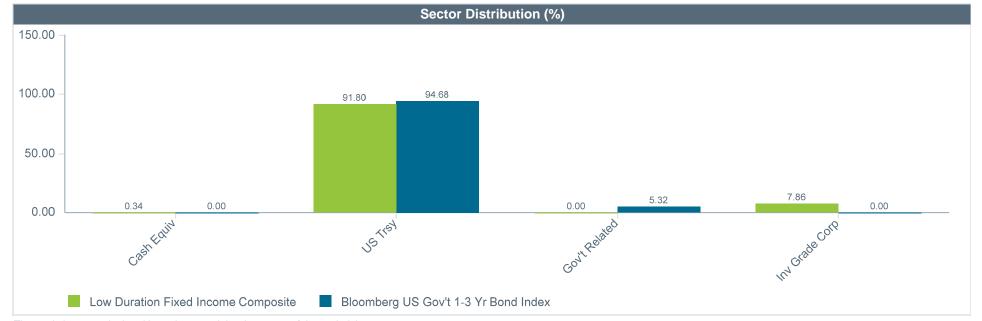
Portfolio Characteristics							
	Portfolio	Benchmark					
Effective Duration	15.75	16.32					
Convexity	3.17	3.57					
Avg. Quality	A1	Aa3/A1					
Yield To Maturity (%)	3.10	3.02					
Coupon Rate (%)	3.61	3.74					





Wyoming State Treasurer's Office Low Duration Fixed Income Composite vs. Bloomberg US Gov't 1-3 Yr Bond Index Portfolio Characteristics

	Portfolio Characteristics	
	Portfolio	Benchmark
Effective Duration	1.55	1.96
Convexity	0.04	0.01
Avg. Quality	Aaa	Aaa/Aa1
Yield To Maturity (%)	0.11	0.19
Coupon Rate (%)	1.46	1.32





Wyoming State Treasurer's Office Comparative Performance

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
JP Morgan Cash Composite	0.00	0.00	0.02	0.07	1.46	1.15	0.89	0.69	0.43	1.46	01/01/2006
JP Morgan Cash Custom Index	0.02	0.02	0.09	0.12	1.57	1.21	0.94	0.75	0.67	1.49	
Difference	-0.02	-0.02	-0.07	-0.05	-0.11	-0.06	-0.05	-0.06	-0.24	-0.03	
Wyo-Star Cash Composite	0.00	0.00	0.06	0.15	1.75	1.27	1.00	0.79	1.13	3.10	10/01/1996
Wyo-Star Cash Custom Index	-0.03	-0.03	0.11	0.22	1.89	1.36	1.07	0.88	1.36	2.57	
Difference	0.03	0.03	-0.05	-0.07	-0.14	-0.09	-0.07	-0.09	-0.23	0.53	
WYO STAR II Total Fund	-0.30	-0.30	0.61	4.38	N/A	N/A	N/A	N/A	3.53	3.62	01/01/2019
Bloomberg US Corp 1-3 Yr Index	-0.02	-0.02	1.26	5.39	3.67	2.72	2.35	2.40	3.79	4.02	
Difference	-0.28	-0.28	-0.65	-1.01	N/A	N/A	N/A	N/A	-0.26	-0.40	

Performance shown for the JP Morgan Cash Composite and the Wyo-Star Cash Composite consists of the respective operating and extended cash accounts.

The JP Morgan Cash Custom Index is calculated monthly using beginning of the month investment weights applied to each corresponding primary benchmark return. The primary benchmark for JP Morgan Cash is the ICE BofAML 3 Mo US T-Bill Index and for JP Morgan Extd is the JP Morgan Blended Index through 06/30/2019, and the ICE BofAML 3 Mo US T-Bill Index thereafter.

The Wyo-Star Cash Custom Index is calculated monthly using beginning of the month investment weights applied to each corresponding primary benchmark return. Currently, the primary benchmark for Wyo-Star Cash is the ICE BofAML 3 Mo US T-Bill Index and for Wyo-Star Extd is the JP Morgan Blended Index.



Wyoming State Treasurer's Office Comparative Performance

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	Since Incep.	Inception Date
JP Morgan Cash Composite	0.00	0.00	0.02	0.07	1.49	1.20	0.96	0.78	0.44	1.53	01/01/2006
JP Morgan Cash Custom Index	0.02	0.02	0.09	0.12	1.57	1.21	0.94	0.75	0.67	1.49	
Difference	-0.02	-0.02	-0.07	-0.05	-0.08	-0.01	0.02	0.03	-0.23	0.04	
Wyo-Star Cash Composite	0.02	0.02	0.11	0.21	1.81	1.33	1.07	0.86	1.20	3.15	10/01/1996
Wyo-Star Cash Custom Index	-0.03	-0.03	0.11	0.22	1.89	1.36	1.07	0.88	1.36	2.57	
Difference	0.05	0.05	0.00	-0.01	-0.08	-0.03	0.00	-0.02	-0.16	0.58	
WYO STAR II Total Fund	-0.29	-0.29	0.66	4.45	N/A	N/A	N/A	N/A	3.60	3.69	01/01/2019
Bloomberg US Corp 1-3 Yr Index	-0.02	-0.02	1.26	5.39	3.67	2.72	2.35	2.40	3.79	4.02	
Difference	-0.27	-0.27	-0.60	-0.94	N/A	N/A	N/A	N/A	-0.19	-0.33	

Performance shown for the JP Morgan Cash Composite and the Wyo-Star Cash Composite consists of the respective operating and extended cash accounts.

The JP Morgan Cash Custom Index is calculated monthly using beginning of the month investment weights applied to each corresponding primary benchmark return. The primary benchmark for JP Morgan Cash is the ICE BofAML 3 Mo US T-Bill Index and for JP Morgan Extd is the JP Morgan Blended Index through 06/30/2019, and the ICE BofAML 3 Mo US T-Bill Index thereafter.

The Wyo-Star Cash Custom Index is calculated monthly using beginning of the month investment weights applied to each corresponding primary benchmark return. Currently, the primary benchmark for Wyo-Star Cash is the ICE BofAML 3 Mo US T-Bill Index and for Wyo-Star Extd is the JP Morgan Blended Index.



Wyoming State Treasurer's Office Investment Values by Fund March 31, 2021

	Total	Fiscal Year Ending	Current	% of
	Investment Value	06/30/20 Market Value	Market Value	MV
Wyoming State Total Fund	\$21,069,932,827	\$22,741,032,950	\$23,314,688,567	100.0%
Permanent Mineral Trust	\$7,930,984,700	\$7,990,956,831	\$9,280,427,436	100.0%
US Equity	\$791,193,507	\$1,120,037,056	\$1,244,887,586	13.4%
International Equity	\$1,145,166,628	\$1,450,187,580	\$1,578,061,444	17.0%
MLPs	\$431,888,286	\$411,164,093	\$499,476,738	5.4%
Private Equity	\$401,275,481	\$504,572,829	\$646,624,674	7.0%
Real Estate	\$838,123,626	\$817,221,309	\$938,438,570	10.1%
Diversified Hedge Funds	\$655,221,298	\$611,293,123	\$708,890,264	7.6%
Fixed Income	\$3,241,588,150	\$2,881,829,152	\$3,219,194,310	34.7%
Opportunistic	\$47,521,504	\$8,284,086	\$60,901,198	0.7%
Public Purpose Investments	\$124,817,575	\$134,894,182	\$124,817,575	1.3%
Cash Equivalents (Liquidated Managers)	\$0	\$775,904	\$750,248	0.0%
Cash (invested in State Agency Pool)	\$254,188,645	\$50,697,517	\$258,384,828	2.8%
Common School Perm Land Fund	\$4,081,177,537	\$4,125,664,118	\$4,511,561,874	100.0%
US Equity	\$259,404,082	\$431,786,613	\$445,472,761	9.9%
International Equity	\$361,786,064	\$571,017,771	\$513,398,613	11.4%
Preferred Stock	\$104,677,880	\$136,896,867	\$132,802,107	2.9%
MLPs	\$266,887,312	\$264,856,326	\$309,210,212	6.9%
Private Equity	\$0	\$106,894,965	\$0	0.0%
Real Estate	\$571,467,477	\$569,776,232	\$616,951,411	13.7%
Diversified Hedge Funds	\$0	\$0	\$0	0.0%
Fixed Income	\$2,401,998,502	\$1,984,541,051	\$2,372,955,778	52.6%
Opportunistic	\$12,324,950	\$3,029,610	\$16,387,303	0.4%
Public Purpose Investments	\$18,359,738	\$18,359,738	\$18,359,738	0.4%
Cash Equivalents (Liquidated Managers)	\$0	\$373,592	\$361,253	0.0%
Cash (invested in State Agency Pool)	\$84,271,532	\$38,131,354	\$85,662,698	1.9%
Permanent Land Fund	\$202,303,452	\$202,823,913	\$231,066,653	100.0%
US Equity	\$25,147,748	\$26,357,892	\$31,850,212	13.8%
International Equity	\$30,576,725	\$36,024,093	\$41,167,177	17.8%
MLPs	\$11,166,545	\$10,174,773	\$12,880,338	5.6%
Private Equity	\$8,723,931	\$12,533,798	\$14,341,612	6.2%
Real Estate	\$21,720,019	\$20,345,582	\$24,241,957	10.5%
Diversified Hedge Funds	\$17,303,995	\$14,496,493	\$18,706,848	8.1%
Fixed Income	\$82,832,392	\$80,418,728	\$82,548,420	35.7%
Opportunistic	\$1,673,369	\$192,157	\$2,101,701	0.9%
Cash Equivalents (Liquidated Managers)	\$0	\$18,107	\$17,516	0.0%
Cash (invested in State Agency Pool)	\$3,158,728	\$2,262,290	\$3,210,873	1.4%
University Permanent Land Fund	\$25,088,456	\$26,615,611	\$30,279,828	100.0%
US Equity	\$1,636,836	\$7,746,560	\$4,440,332	14.7%
International Equity	\$3,563,945	\$5,026,537	\$4,770,730	15.8%
MLPs	\$1,306,685	\$1,121,367	\$1,519,352	5.0%
Private Equity	\$1,058,149	\$1,413,897	\$1,702,552	5.6%
Real Estate	\$2,943,521	\$2,712,270	\$3,246,036	10.7%
Diversified Hedge Funds	\$2,205,533	\$1,524,638	\$2,385,392	7.9%
Fixed Income	\$10,364,100	\$6,421,657	\$10,123,697	33.4%
Opportunistic	\$128,249	\$46,271	\$177,209	0.6%
Cash Equivalents (Liquidated Managers)	\$0	\$2,103	\$2,030	0.0%
Cash (invested in State Agency Pool)	\$1,881,438	\$600,311	\$1,912,497	6.3%



Wyoming State Treasurer's Office Investment Values by Fund

March 31, 2021

	IVIAICII 31, 2021			
	Total Investment Value	Fiscal Year Ending 06/30/20 Market Value	Current Market Value	% of MV
Wyoming State Total Fund	\$21,069,932,827	\$22,741,032,950	\$23,314,688,567	100.0%
Hathaway Scholarship	\$575,906,953	\$592,278,846	\$669,225,376	100.0%
US Equity	\$60,123,856	\$83,725,477	\$93,597,245	14.0%
International Equity	\$88,881,645	\$109,180,435	\$120,825,901	18.1%
MLPs	\$33,116,910	\$30,044,142	\$38,103,218	5.7%
Private Equity	\$24,887,258	\$29,805,233	\$35,473,468	5.3%
Real Estate	\$62,974,535	\$61,310,651	\$70,776,468	10.6%
Diversified Hedge Funds	\$49,203,199	\$56,302,857	\$52,970,907	7.9%
Fixed Income	\$243,299,904	\$217,927,539	\$242,824,616	36.3%
Opportunistic	\$3,579,506	\$613,228	\$4,594,361	0.7%
Cash Equivalents (Liquidated Managers)	\$0	\$58,480	\$56,609	0.0%
Cash (invested in State Agency Pool)	\$9,840,140	\$3,310,805	\$10,002,583	1.5%
Higher Education	\$116,000,561	\$119,493,551	\$129,252,238	100.0%
US Equity	\$7,514,627	\$11,880,131	\$13,093,454	10.1%
International Equity	\$10,682,862	\$16,098,931	\$14,850,699	11.5%
Preferred Stock	\$2,823,866	\$3,615,540	\$3,618,179	2.8%
MLPs	\$7,366,345	\$6,858,964	\$8,933,826	6.9%
Real Estate	\$16,544,853	\$15,055,391	\$18,039,763	14.0%
Diversified Hedge Funds	\$0	\$0	\$0	0.0%
Fixed Income	\$69,017,390	\$65,489,749	\$68,495,026	53.0%
Opportunistic	\$408,652	\$94,921	\$540,577	0.4%
Cash Equivalents (Liquidated Managers)	\$0	\$12,032	\$11,643	0.0%
Cash (invested in State Agency Pool)	\$1,641,965	\$387,893	\$1,669,071	1.3%
Workers Compensation Fund	\$2,346,008,281	\$2,435,825,765	\$2,548,655,854	100.0%
US Equity	\$170,606,212	\$225,494,197	\$254,987,195	10.0%
International Equity	\$218,448,248	\$298,231,850	\$299,771,944	11.8%
MLPs	\$97,549,207	\$92,124,054	\$111,684,234	4.4%
Real Estate	\$211,121,515	\$188,888,293	\$226,294,248	8.9%
Diversified Hedge Funds	\$0	\$0	\$0	0.0%
Fixed Income	\$1,556,722,403	\$1,508,044,796	\$1,558,980,426	61.2%
Opportunistic	\$14,895,077	\$1,624,788	\$18,872,331	0.7%
Cash Equivalents (Liquidated Managers)	\$0	\$138,257	\$134,249	0.0%
Cash (invested in State Agency Pool)	\$76,665,620	\$121,279,529	\$77,931,227	3.1%
Pool A	\$260,047,439	\$241,213,542	\$265,886,650	100.0%
US Equity	\$17,741,963	\$19,934,042	\$22,853,711	8.6%
International Equity	\$13,126,497	\$24,783,825	\$19,149,115	7.2%
Preferred Stock	\$24,973,299	\$8,437,326	\$16,895,468	6.4%
MLPs	\$10,890,473	\$11,195,190	\$13,011,507	4.9%
Real Estate	\$21,213,836	\$20,352,153	\$21,786,327	8.2%
Fixed Income	\$152,785,625	\$153,198,832	\$152,555,231	57.4%
Opportunistic	\$0	\$160,988	\$0	0.0%
Cash Equivalents (Liquidated Managers)	\$0 \$10.345.747	\$677	\$677	0.0%
Cash (invested in State Agency Pool)	\$19,315,747	\$3,150,508	\$19,634,614	7.4%
US Equity	\$1,394,958,181 \$95,532,806	\$1,551,541,169 \$123,220,149	\$1,442,573,637 \$124,612,539	100.0% 8.6%
International Equity	\$95,532,806 \$98,736,963	\$123,220,149 \$156,854,672	\$124,612,539	9.2%
MLPs	\$49,378,391	\$49,912,298	\$61,212,143	9.2% 4.2%
Diversified Hedge Funds	\$91,410,198	\$82,102,235	\$98,006,823	6.8%
Fixed Income	\$1,058,706,261	\$955,309,111	\$1,024,998,579	71.1%
Opportunistic	\$1,050,700,201	\$1,050,876	\$1,024,996,579	0.0%
Cash (invested in State Agency Pool)	\$1,193,562	\$1,030,876	\$1,213,266	0.0%
State Agency Pool	\$4,137,457,267	\$5,454,619,605	\$4,205,759,021	100.0%
Fixed Income	\$3,261,018,732	\$3,874,466,372	\$3,692,980,638	87.8%
Public Purpose Investments	\$53,773,431	\$123,339,388	\$59,650,000	1.4%
Cash Equivalents	\$822,665,104	\$1,456,813,845	\$453,128,384	10.8%
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Wyoming State Treasurer's Office Investment Values by Manager March 31, 2021

	Total Investment Value	Fiscal Year Ending 06/30/20 Market Value	Current Market Value	% of MV
Wyoming State Total Fund	\$21,069,932,827	\$22,741,032,950	\$23,314,688,567	100.0%
US Equity	\$1,428,901,637	\$2,050,182,117	\$2,235,795,035	9.6%
State Street All Cap	\$1,121,139,339	\$1,614,943,234	\$1,775,535,683	9.0 /0
UW Portfolio Management Program	\$1,000,000	\$1,389,900	\$1,746,251	
Wyoming Internal Domestic Equity	\$47,021,447	\$0	\$48,937,200	
Wyoming Internal Domestic Equity - QT	\$37,553	\$0	\$39,633	
Van Berkom	\$153,114,364	\$202,424,251	\$245,681,507	
State Street Small Cap	\$0	\$231,424,731	\$0	
BlackRock Small Cap	\$94,280,407	\$0	\$150,897,250	
Wyoming Internal Small Cap - QT Wyoming Internal Small Cap	\$21,013 \$12,287,515	\$0 \$0	\$22,094 \$12,935,417	
International Equity	\$1,970,969,576	\$2,667,405,694	\$2,724,525,910	11.7%
Northern Trust	\$883,374,189	\$1,295,468,268	\$1,162,787,545	11.7/0
Harding Loevner	\$552,137,273	\$654,671,093	\$691,822,708	
Arrowstreet	\$535,458,114	\$717,266,333	\$869,915,657	
Mixed Assets	\$1,042,025,198	\$1,026,400,941	\$1,209,347,323	5.2%
Cohen & Steers	\$132,475,044	\$148,949,732	\$153,315,754	
Harvest	\$459,870,521	\$419,163,914	\$528,770,547	
Harvest Passive	\$449,679,633	\$458,287,294	\$527,261,022	
Private Equity	\$435,944,819	\$655,220,721	\$698,142,306	3.0%
Access Venture Partners II	\$2,226,749	\$1,755,169	\$2,716,394	
Cheyenne Capital Fund, L.P. Hamilton Lane Nowood Fund, L.P.	\$96,851,955 \$125,398,043	\$165,839,306 \$143,888,665	\$174,540,443 \$154,111,529	
BlackRock LTPC	\$100,108,016	\$142,888,665 \$147,953,066	\$133,893,750	
Valor PE	\$16,544,165	\$0	\$23,562,831	
Neuberger Berman Sauger	\$94,815,891	\$196,784,515	\$209,317,359	
Real Estate	\$1,742,693,812	\$1,695,661,881	\$1,919,774,779	8.2%
Clarion Lion	\$919,837,953	\$1,136,011,809	\$1,015,890,963	
Morgan Stanley Prime	\$200,000,000	\$0	\$204,805,673	
UBS Trumbull	\$221,275,851	\$243,815,177	\$230,816,067	
M&G	\$38,980,557	\$36,244,862	\$15,767,618	
Northwood	\$109,729,225	\$133,728,445	\$173,582,823	
SC Capital Realterm	\$99,592,288 \$150,000,000	\$102,534,813 \$31,519,959	\$109,261,047 \$160,761,713	
WestRiver	\$3,277,938	\$11,806,817	\$8,888,874	
Diversified Hodge Eunds		\$765,719,345	\$880,960,235	3.8%
Diversified Hedge Funds PAAMCO - Jackalope	\$815,344,223 \$8,370,646	\$4,277,742	\$4,329,770	3.0%
Grosvenor Diversified Hedge Funds	\$290,775,000	\$274,987,673	\$320,674,365	
Internal Diversified Hedge Funds	\$516,198,577	\$486,453,930	\$555,956,100	
Fixed Income	\$12,415,695,754	\$12,013,839,104	\$12,425,656,720	53.3%
PIMCO	\$2,875,860,324	\$2,261,419,729	\$2,835,920,627	
Payden & Rygel	\$684,896,309	\$716,381,745	\$690,603,896	
JPM MBS Credit Suisse	\$783,174,265	\$807,441,873	\$795,668,206	
Octagon	\$501,473,938 \$710,443,268	\$655,626,364 \$465,803,874	\$499,694,866 \$724,391,570	
Grosvenor Silvery Lupine Fund	\$28,597,852	\$70,930,128	\$37,474,250	
Investec	\$0	\$228,135,522	\$0	
Global Evolution	\$149,794,714	\$345,149,949	\$139,216,103	
Eaton Vance EMD	\$200,000,000	\$0	\$201,911,792	
Global Evolution Hard	\$196,000,000	\$0	\$188,880,333	
Finisterre	\$150,000,000	\$0	\$147,722,851	
Goldman Sachs Internal Long Duration Govt Portfolio	\$184,716,170 \$280,610,005	\$250,884,818 \$308,589,453	\$189,186,254 \$289,251,477	
Logan Circle	\$289,610,005 \$431,189,939	\$428,906,762	\$449,424,374	
Internal Int. Duration Govt Portfolio	\$1,116,125,137	\$1,170,677,551	\$1,062,200,426	
Internal Low Duration Govt Portfolio	\$510,795,949	\$485,244,029	\$498,389,372	
Wyoming Internal Ladder Portfolio	\$3,603,017,885.13	\$3,818,647,307	\$3,675,720,323	
Neuberger Berman Core	\$0	\$0	\$0	
Opportunistic	\$80,531,307	\$15,096,925	\$103,574,680	0.4%
Grosvenor D	\$80,531,307	\$15,096,925	\$103,574,680	
Public Purpose Investments	\$202,827,313	\$285,703,920	\$202,827,313	0.9%
Cash & Cash Equivalents	\$934,999,188	\$1,565,802,302	\$914,084,266	3.9%
Epoch	\$0	\$0	\$0	
Internal Equity Russell 2000	\$0	\$1,095	\$1,095	
Internal International Equity Portfolio	\$0	\$0	\$0	
Fisher Investments Cornerstone	\$0 \$83.682	\$1,108,212 \$2,363	\$1,062,053 \$2,354	
Cornerstone Heitman	\$83,682 \$1,759,375	\$2,363 \$3	\$2,354 \$1,273	
TA Realty	\$1,572,513	\$26,122	\$26,118	
Allianz Global Investors	\$0	\$36,305	\$36,297	
C.S. McKee	\$4,588,726	\$2	\$0	
JP Morgan Core	\$12,476,418	\$0	\$0	
Neuberger Berman Credit	\$0	\$574,113	\$574,056	
Seix	\$0	\$1,520	\$1,520	
State Street Lew Duration	\$1,798,617	\$0 \$20,707	\$0	
State Street Low Duration Stone Harbor	\$0 \$150,719	\$29,707 \$1	\$29,699 \$0	
JP Morgan Cash Composite	\$912,569,137	\$1,564,022,859	\$912,349,801	
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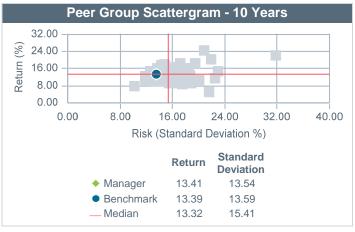
Investment Manager Profiles



Manager: State Street All Cap

Benchmark: State Street All Cap Custom Index **Peer Group:** IM U.S. All Cap Equity (SA+CF)

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	6.17	56.34	15.97	15.63	12.79	13.41	17.58	30.34	-5.25	19.79	13.77
Benchmark	6.17	56.35	15.80	15.58	12.76	13.39	17.65	30.11	-5.50	19.85	13.78
Difference	0.00	-0.01	0.17	0.05	0.03	0.02	-0.07	0.23	0.25	-0.06	-0.01
Peer Group Median	7.76	66.36	16.06	16.26	12.49	13.21	15.95	28.97	-5.71	20.24	12.51
Rank	61	77	52	55	46	49	47	44	47	55	43
Population	150	150	146	141	132	117	153	169	176	183	197







		Portfo	olio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)		462,7	97	461,169
Median Mkt. Cap (\$M)		29,4	18	29,458
Price/Earnings Ratio		29.	.91	29.90
Price/Book Ratio		4.	54	4.52
5 Yr. EPS Growth Rate (%)	17.	.27	17.34
Current Yield (%)		1.	47	1.47
Beta (5 Years, Monthly)		0.	1.00	
Number of Securities		5	505	
Active Share		0.	.83	N/A
80.00 - 60.00 - 40.00 - 20.00 -	6.56 6.52	21.07 21.10	6.82 6.75	2.97 2.97
>\$100 Bil	\$75 Bil - \$100 Bil	\$25 Bil - \$75 Bil	\$15 Bil - \$25 Bil	\$2 Bil - \$15 Bil



Performance shown is gross of fees. Performance prior to client inception consists of the State Street All Cap Custom Index. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Manager: UW Portfolio Mgmt Program Benchmark: S&P 500 Index (Cap Wtd)

Peer Group: IM U.S. Large Cap Core Equity (SA+CF)

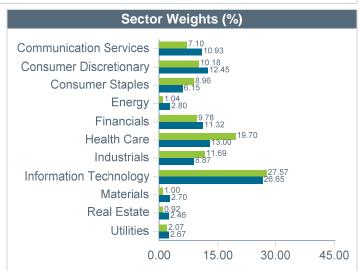
				Pe	rforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	4.37	46.97	11.97	13.04	11.21	10.64	14.73	25.88	-8.04	21.83	10.87
Benchmark	6.17	56.35	16.78	16.29	13.59	13.91	18.40	31.49	-4.38	21.83	11.96
Difference	-1.80	-9.38	-4.81	-3.25	-2.38	-3.27	-3.67	-5.61	-3.66	0.00	-1.09
Peer Group Median	6.75	57.08	15.94	16.10	13.25	13.76	17.19	30.10	-5.20	21.84	10.63
Rank	84	83	86	83	83	92	59	81	84	51	48
Population	210	209	205	202	192	174	218	246	274	297	317







			Portfolio		Benchmark
Vtd. Avg. Mkt. Cap (\$	M)		347,651		461,169
Median Mkt. Cap (\$M)			29,267		29,458
Price/Earnings Ratio		27.47		29.90	
Price/Book Ratio			4.42		4.52
Yr. EPS Growth Rate	e (%)		13.89		17.34
Current Yield (%)			1.29		1.47
Beta (5 Years, Monthly	/)		0.93		1.00
Number of Securities			513		505
Active Share			43.45		N/A
30.00 - 62.65 50.00 - 50.44	10.79 6.52	25.72 21.10	6.72 6.75	1.36 2.97	4.97
>\$100 Bil	\$75 Bil - \$100 Bil	\$25 Bil - \$75 Bil	\$15 Bil - \$25 Bil	\$2 Bil - \$15 Bil	\$0 - \$2 Bil



Performance shown is gross of fees and client specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



As of March 31, 2021

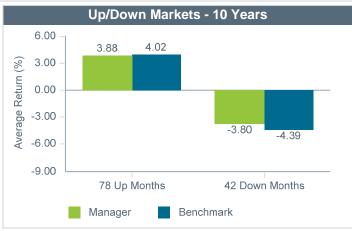
Manager: Van Berkom

Benchmark: Russell 2000 Index

Peer Group: IM U.S. Small Cap Core Equity (SA+CF)

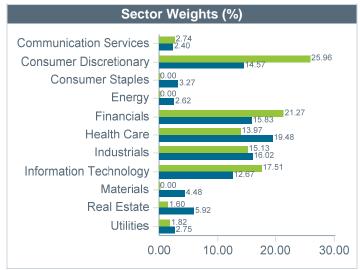
				Pe	rforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	9.47	72.59	13.55	16.40	12.73	13.45	9.22	29.96	-2.61	16.57	25.90
Benchmark	12.70	94.85	14.76	16.35	11.05	11.68	19.96	25.53	-11.01	14.65	21.31
Difference	-3.23	-22.26	-1.21	0.05	1.68	1.77	-10.74	4.43	8.40	1.92	4.59
Peer Group Median	13.74	93.00	15.05	16.12	12.08	12.80	17.85	25.11	-10.69	15.13	20.77
Rank	83	88	63	46	39	42	82	21	8	37	14
Population	108	108	107	104	101	93	113	126	144	148	151







	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	5,152	3,675
Median Mkt. Cap (\$M)	4,596	1,050
Price/Earnings Ratio	22.39	22.14
Price/Book Ratio	3.25	2.91
5 Yr. EPS Growth Rate (%)	14.60	10.95
Current Yield (%)	0.71	0.93
Beta (5 Years, Monthly)	0.89	1.00
Number of Securities	43	2,056
Active Share	97.22	N/A
75.00 – 73.05 50.00 – 55.00 – 22.23	7 4.73 ^{7.94} 0.00 ^{3.51}	0.00 0.74 0.00 0.03
>\$3 Bil \$1 E \$3	\$500 Mil - \$200 Mil - \$1 Bil \$500 Mil	\$100 Mil - \$0 - \$200 Mil \$100 Mil



Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Manager: BlackRock Small Cap Benchmark: Russell 2000 Index

Peer Group: IM U.S. Small Cap Core Equity (SA+CF)

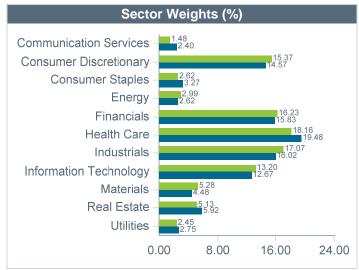
				Pe	rforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	13.06	101.16	18.65	18.46	12.89	14.49	22.25	33.43	-9.09	11.38	23.63
Benchmark	12.70	94.85	14.76	16.35	11.05	11.68	19.96	25.53	-11.01	14.65	21.31
Difference	0.36	6.31	3.89	2.11	1.84	2.81	2.29	7.90	1.92	-3.27	2.32
Peer Group Median	13.74	93.00	15.05	16.12	12.08	12.80	17.85	25.11	-10.69	15.13	20.77
Rank	55	29	14	30	35	20	28	7	35	79	29
Population	108	108	107	104	101	93	113	126	144	148	151







			Portfolio		Benchmark
Ntd. Avg. Mkt. Cap (\$N	VI)		3,756		3,675
Median Mkt. Cap (\$M)			1,727		1,050
Price/Earnings Ratio			20.42		22.14
Price/Book Ratio			2.90		2.91
Yr. EPS Growth Rate	e (%)		13.07		10.95
Current Yield (%)			0.96		0.93
Beta (5 Years, Monthly	')		1.03		1.00
Number of Securities			768		2,056
Active Share			55.64		N/A
80.00 - 60.00 - 54.82 51.90 40.00 - 20.00 - 0.00	32.00 35.87	8.87 7.94	3.69 3.51	0.62 0.74	0.00 0.03
>\$3 Bil	\$1 Bil - \$3 Bil	\$500 Mil - \$1 Bil	\$200 Mil - \$500 Mil	\$100 Mil - \$200 Mil	\$0 - \$100 Mil



Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



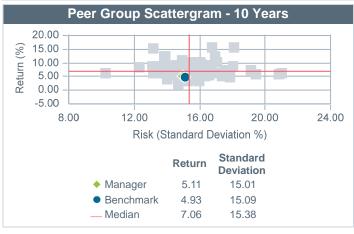
As of March 31, 2021

Manager: Northern Trust

Benchmark: MSCI ACW Ex US Index (USD) (Net)

Peer Group: IM All ACWI Ex US (SA+CF)

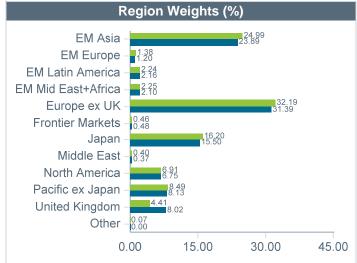
				Pe	rforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	3.66	49.41	6.74	9.94	5.44	5.11	10.69	21.66	-13.81	27.51	4.48
Benchmark	3.49	49.41	6.51	9.76	5.26	4.93	10.65	21.51	-14.20	27.19	4.50
Difference	0.17	0.00	0.23	0.18	0.18	0.18	0.04	0.15	0.39	0.32	-0.02
Peer Group Median	3.25	55.53	8.38	11.07	6.58	7.06	14.60	24.97	-14.64	28.74	2.12
Rank	45	73	66	67	73	93	61	68	40	62	30
Population	155	155	155	155	149	127	162	171	181	191	205







	Portfe	olio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	102,	109	99,939
Median Mkt. Cap (\$M)	9,3	256	9,646
Price/Earnings Ratio	21	.33	21.14
Price/Book Ratio	2	2.70	2.67
5 Yr. EPS Growth Rate (%)	6	5.90	6.23
Current Yield (%)	2	2.16	2.26
Beta (5 Years, Monthly)	C	.99	1.00
Number of Securities	2,	201	2,353
Active Share	10	1.02	N/A
40.00 –	32.80 32.70		
30.00 - 24.99 24.66		23.66 22.60	
20.00 -		23.00 22.60	
20.00	12.00	12.23	
10.00 - 6.22 7.			
0.00			0.33 0.18
>\$100 Bil \$75 Bi	\$25 Bil - \$15	Bil - \$2 Bil -	\$0 -
\$100 Bii \$73 Bi			\$2 Bil



Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Region allocation to other consists of Luxembourg.



As of March 31, 2021

Manager: Arrowstreet

Benchmark: MSCI ACW Ex US IM Index (USD) (Net)

Peer Group: IM All ACWI Ex US (SA+CF)

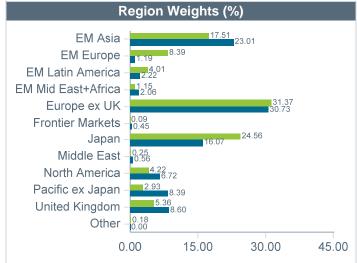
				Pe	rforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	8.31	73.61	12.01	14.78	9.99	9.91	23.28	23.43	-13.84	29.12	8.06
Benchmark	3.77	51.94	6.51	9.84	5.45	5.11	11.12	21.63	-14.76	27.81	4.41
Difference	4.54	21.67	5.50	4.94	4.54	4.80	12.16	1.80	0.92	1.31	3.65
Peer Group Median	3.25	55.53	8.38	11.07	6.58	7.06	14.60	24.97	-14.64	28.74	2.12
Rank	11	8	20	15	13	10	22	58	41	48	10
Population	155	155	155	155	149	127	162	171	181	191	205







Portfolio Ch	aracteri	istics ar	nd Dist. o	of Mark	et Cap (%)
			Portfolio		Benchmark
Wtd. Avg. Mkt. Cap (\$1	M)		64,533		86,587
Median Mkt. Cap (\$M)			2,042		1,840
Price/Earnings Ratio			18.52		20.87
Price/Book Ratio			2.41		2.63
5 Yr. EPS Growth Rate	€ (%)		9.09		6.23
Current Yield (%)			2.64		2.21
Beta (5 Years, Monthly	()		1.05		1.00
Number of Securities			4,174		6,566
Active Share			77.45		N/A
40.00 —				33.60	
30.00 -		26.25 28.22		27.18	
20.00 - 21.27					
10.00 -	4.91 6.58		11.11 10.55		8.46 6.20
>\$100 Bil	\$75 Bil - \$100 Bil	\$25 Bil - \$75 Bil	\$15 Bil - \$25 Bil	\$2 Bil - \$15 Bil	\$0 - \$2 Bil



Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Region allocation to other consists of Cyprus.



Manager: Harding Loevner

Benchmark: MSCI ACW Ex US Index (USD) (Net)

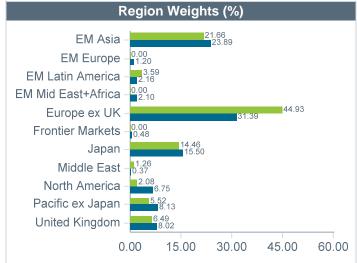
Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	0.99	51.25	9.95	13.04	9.25	8.50	20.86	26.27	-13.24	30.86	6.19
Benchmark	3.49	49.41	6.51	9.76	5.26	4.93	10.65	21.51	-14.20	27.19	4.50
Difference	-2.50	1.84	3.44	3.28	3.99	3.57	10.21	4.76	0.96	3.67	1.69
Peer Group Median	3.25	55.53	8.38	11.07	6.58	7.06	14.60	24.97	-14.64	28.74	2.12
Rank	80	67	35	28	20	24	31	43	33	38	17
Population	155	155	155	155	149	127	162	171	181	191	205







			Portfolio		Benchmark
Wtd. Avg. Mkt. Cap (\$1	И)		151,814		99,939
Median Mkt. Cap (\$M)			55,139		9,646
Price/Earnings Ratio			26.83		21.14
Price/Book Ratio			3.62		2.67
5 Yr. EPS Growth Rate	(%)		7.54		6.23
Current Yield (%)			1.73		2.26
Beta (5 Years, Monthly)		0.95		1.00
Number of Securities			58		2,353
Active Share			89.72		N/A
60.00 — 45.00 —		37.13			
30.00 - 32.26		32.70			
24.66				22.60	
15.00 —	12.75 7.63		13.93 12.23	3.93	0.00 0.49
0.00					0.00 0.18
>\$100 Bil	\$75 Bil -	\$25 Bil -	\$15 Bil -	\$2 Bil -	\$0 -
	\$100 Bil	\$75 Bil	\$25 Bil	\$15 Bil	\$2 Bil



Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.

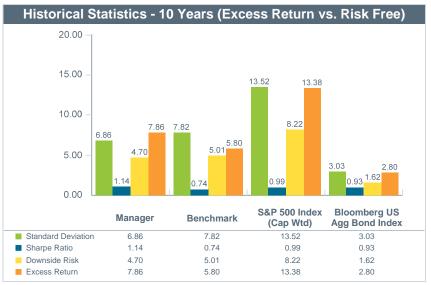


As of March 31, 2021

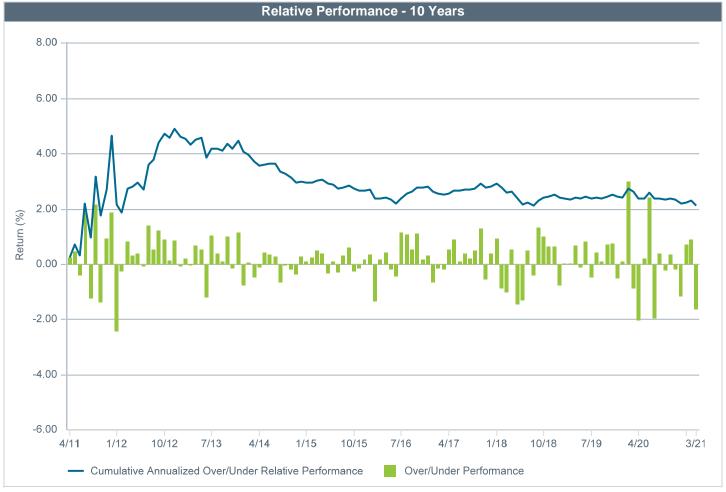
Manager: Cohen & Steers

Benchmark: S&P US Preferred Stock Index

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	0.00	24.19	8.11	7.99	7.74	8.57	8.01	19.68	-3.68	12.31	5.43
Benchmark	-0.01	26.89	6.94	5.97	6.18	6.30	7.97	17.64	-4.25	9.11	1.94
Difference	0.01	-2.70	1.17	2.02	1.56	2.27	0.04	2.04	0.57	3.20	3.49



Actual Correlation - 10	Actual Correlation - 10 Years								
	Actual Correlation								
S&P US Preferred Stock Index	0.96								
S&P 500 Index (Cap Wtd)	0.80								
Russell 2000 Index	0.72								
MSCI EAFE Index (USD) (Net)	0.80								
MSCI Emg Mkts Index (USD) (Net)	0.77								
Bloomberg US Agg Bond Index	0.13								
Bloomberg US Trsy US TIPS Index	0.29								
NCREIF ODCE Index (AWA) (Gross)	-0.27								
Wilshire US REIT Index	0.75								
HFRI FOF Comp Index	0.79								
Bloomberg Cmdty Index (TR)	0.59								
ICE BofAML 3 Mo US T-Bill Index	-0.25								
Cons Price Index (Unadjusted)	0.11								



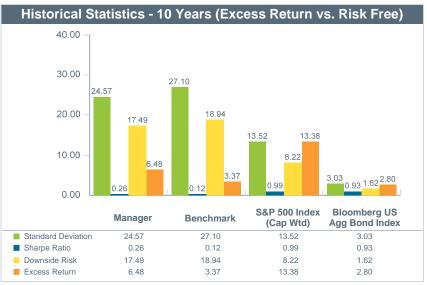
Performance shown is gross of fees and product specific prior to client inception. Calculation is based on quarterly periodicity.



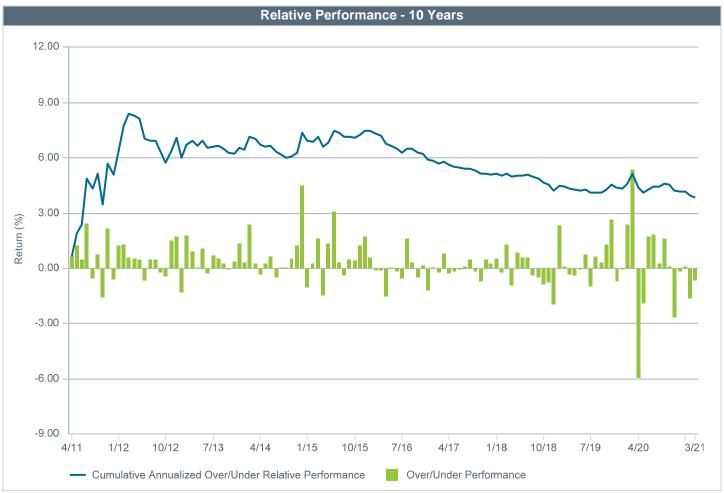
As of March 31, 2021

Manager: Harvest
Benchmark: MLP Custom Index

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	18.76	75.21	-0.52	1.67	-3.16	3.93	-23.94	13.82	-13.12	-4.98	20.34
Benchmark	21.42	88.97	-1.31	1.07	-5.52	0.10	-25.60	7.55	-11.67	-5.58	21.95
Difference	-2.66	-13.76	0.79	0.60	2.36	3.83	1.66	6.27	-1.45	0.60	-1.61



Actual Correlation - 10 Years							
	Actual Correlation						
MLP Custom Index	0.99						
S&P 500 Index (Cap Wtd)	0.78						
Russell 2000 Index	0.80						
MSCI EAFE Index (USD) (Net)	0.69						
MSCI Emg Mkts Index (USD) (Net)	0.59						
Bloomberg US Agg Bond Index	-0.14						
Bloomberg US Trsy US TIPS Index	0.13						
NCREIF ODCE Index (AWA) (Gross)	-0.13						
Wilshire US REIT Index	0.67						
HFRI FOF Comp Index	0.74						
Bloomberg Cmdty Index (TR)	0.67						
ICE BofAML 3 Mo US T-Bill Index	-0.30						
Cons Price Index (Unadjusted)	0.23						



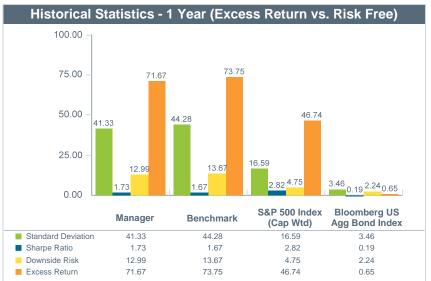
Performance shown is gross of fees and product specific prior to client inception. Calculation is based on quarterly periodicity.



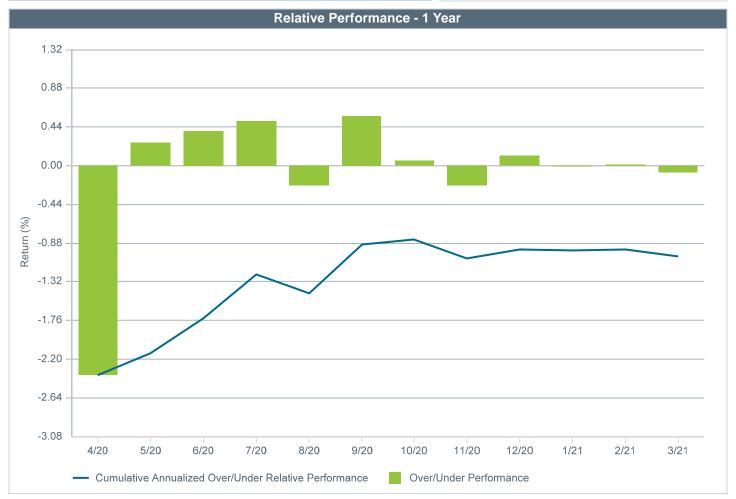
Manager: Harvest Fund Advisors Passive

Benchmark: MLP Custom Index

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	21.32	87.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benchmark	21.42	88.97	-1.31	1.07	-5.52	0.10	-25.60	7.55	-11.67	-5.58	21.95
Difference	-0.10	-1.95	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



Actual Correlation - 1 Year							
	Actual Correlation						
MLP Custom Index	1.00						
S&P 500 Index (Cap Wtd)	0.62						
Russell 2000 Index	0.82						
MSCI EAFE Index (USD) (Net)	0.67						
MSCI Emg Mkts Index (USD) (Net)	0.44						
Bloomberg US Agg Bond Index	0.21						
Bloomberg US Trsy US TIPS Index	0.01						
NCREIF ODCE Index (AWA) (Gross)	-0.30						
Wilshire US REIT Index	0.97						
HFRI FOF Comp Index	0.50						
Bloomberg Cmdty Index (TR)	-0.53						
ICE BofAML 3 Mo US T-Bill Index	-0.91						
Cons Price Index (Unadjusted)	-0.49						
MLP Custom Index	1.00						

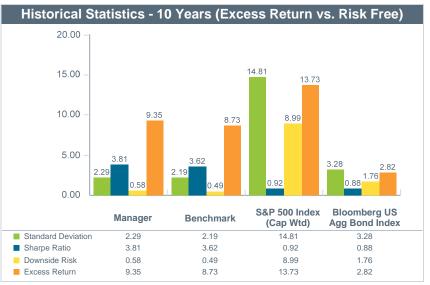


Performance shown is gross of fees and client specific. Calculation is based on quarterly periodicity.

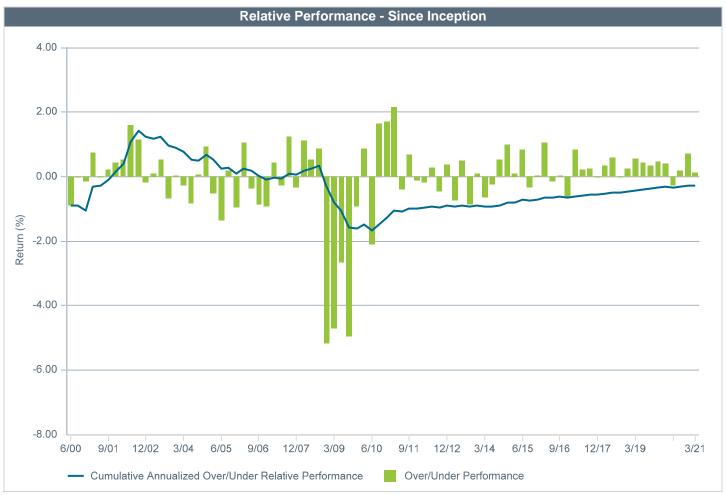


Manager: Clarion Lion Properties (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	2.22	3.07	6.22	7.19	9.43	10.33	2.24	7.26	9.66	8.99	9.09
Benchmark	2.11	2.32	4.88	6.20	8.25	9.67	1.19	5.34	8.35	7.62	8.77
Difference	0.11	0.75	1.34	0.99	1.18	0.66	1.05	1.92	1.31	1.37	0.32



	Actual Correlation
NCREIF ODCE Index (AWA) (Gross)	0.91
S&P 500 Index (Cap Wtd)	-0.34
Russell 2000 Index	-0.30
MSCI EAFE Index (USD) (Net)	-0.32
MSCI Emg Mkts Index (USD) (Net)	-0.38
Bloomberg US Agg Bond Index	-0.17
Bloomberg US Trsy US TIPS Index	-0.31
Wilshire US REIT Index	-0.12
HFRI FOF Comp Index	-0.37
Bloomberg Cmdty Index (TR)	-0.40
ICE BofAML 3 Mo US T-Bill Index	-0.32
Cons Price Index (Unadjusted)	-0.11



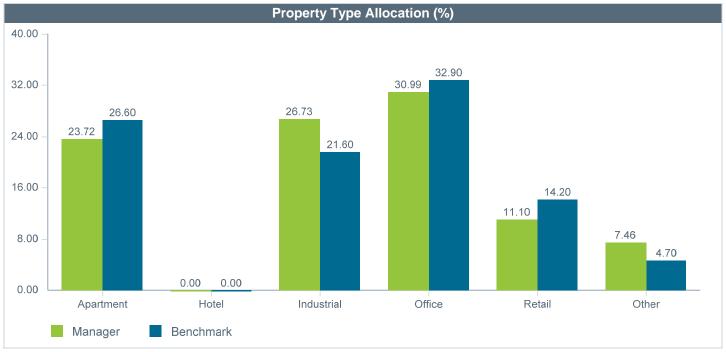


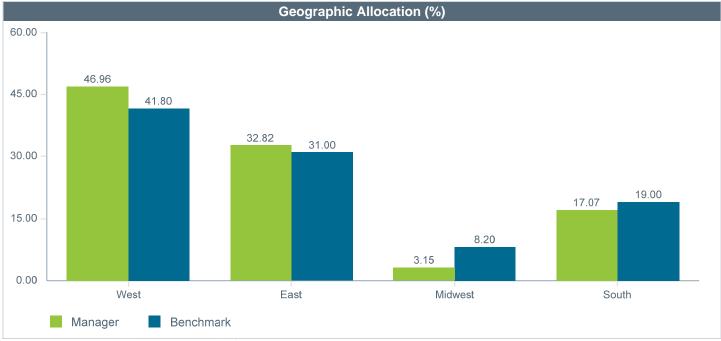
Manager: Clarion Lion Properties (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

Investment Strategy

The Fund pursues a diversified core real estate strategy and seeks to provide its investors with a reliable total investment gross return of approximately 8% to 10% over a market cycle, with 70% of return expected to be generated by the income component. The Fund manages a portfolio of institutional quality real estate assets diversified across the four major property types (office, industrial, retail and multi-family) and across major metropolitan areas. The Fund operates with moderate leverage and may invest up to 15% of its gross assets in higher risk, non-core type real estate investment opportunities.

Investment Profile						
Fund Inception	2000					
Legal Structure	LP					
Fund Structure	Open-End					
Gross Real Estate Assets (\$M)	16,808					
Fund Leverage %	24.24					
Portfolio Occupancy %	93.70					
Cash Reserve %	1.70					
Number of Investments	161					
Number of Limited Partners	530					



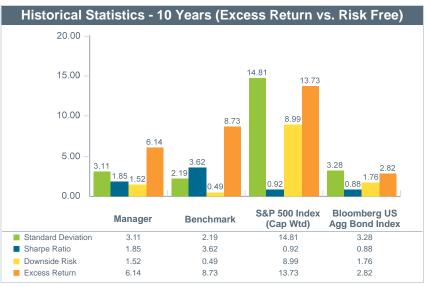


Performance shown is gross of fees and product specific. Calculation is based on quarterly periodicity. Investment profile data shown is provided by the investment manager and is as of the most recently available quarter end. Allocation data shown is based on NAV. Manager allocation to "Other" consists of lab-office properties. Benchmark allocation to "Other" consists of entertainment (theaters, golf courses, bowling alleys), healthcare (hospitals, clinics), manufactured homes, parking lots, self-storage units, senior living, and undeveloped land.

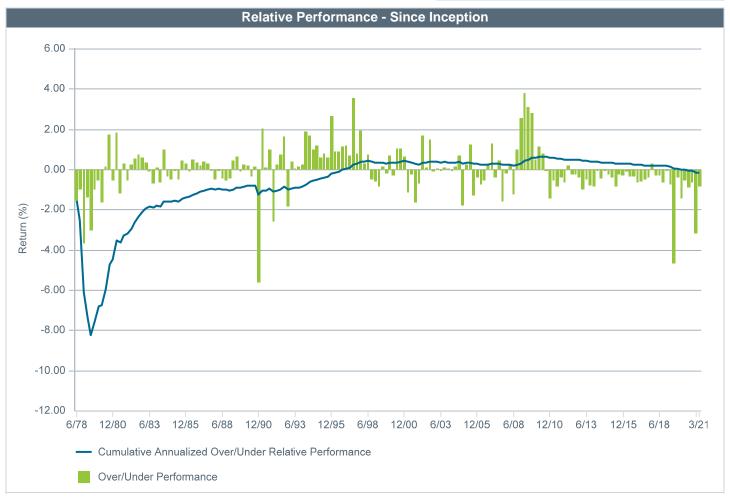


Manager: UBS Trumbull Property (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

				Pe	rforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	1.27	-3.24	-0.03	2.59	5.21	6.89	-4.04	-2.10	6.99	6.30	7.21
Benchmark	2.11	2.32	4.88	6.20	8.25	9.67	1.19	5.34	8.35	7.62	8.77
Difference	-0.84	-5.56	-4.91	-3.61	-3.04	-2.78	-5.23	-7.44	-1.36	-1.32	-1.56



	Actual Correlation
NCREIF ODCE Index (AWA) (Gross)	0.85
S&P 500 Index (Cap Wtd)	-0.31
Russell 2000 Index	-0.33
MSCI EAFE Index (USD) (Net)	-0.32
MSCI Emg Mkts Index (USD) (Net)	-0.37
Bloomberg US Agg Bond Index	-0.21
Bloomberg US Trsy US TIPS Index	-0.30
Wilshire US REIT Index	-0.07
HFRI FOF Comp Index	-0.40
Bloomberg Cmdty Index (TR)	-0.33
ICE BofAML 3 Mo US T-Bill Index	-0.45
Cons Price Index (Unadjusted)	-0.06



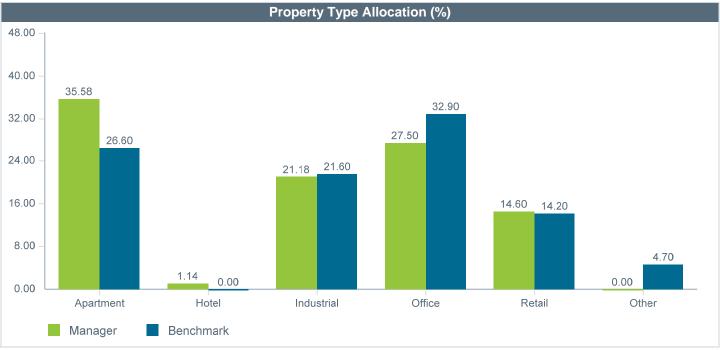


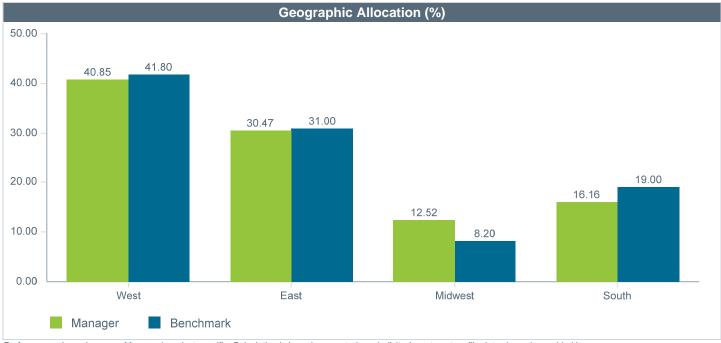
Manager: UBS Trumbull Property (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

Invest	ment :	Strategy

The Fund pursues a diversified core real estate strategy that seeks to produce attractive risk-adjusted returns by focusing on selective acquisitions, diversification, active portfolio management, and asset management. The Fund invests in well-leased, stabilized assets in major US metropolitan markets and receives the majority of its return from the income component. Diversification for the Fund is consistently pursued on many levels, including geographic region, property type, and economic sector. The Fund has historically maintained a leverage ratio significantly lower than the NCREIF ODCE Index and invests 5-15% of its gross assets in value-added type real estate investment opportunities.

Investment Profile						
Fund Inception	1978					
Legal Structure	LP					
Fund Structure	Open-End					
Gross Real Estate Assets (\$M)	18,723					
Fund Leverage %	19.00					
Portfolio Occupancy %	91.00					
Cash Reserve %	2.20					
Number of Investments	182					
Number of Limited Partners	444					



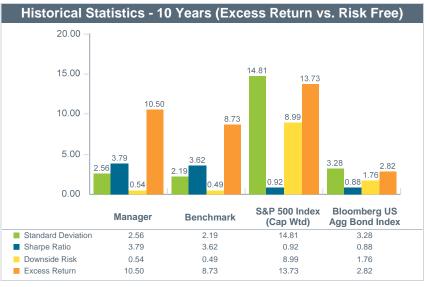


Performance shown is gross of fees and product specific. Calculation is based on quarterly periodicity. Investment profile data shown is provided by the investment manager and is as of the most recently available quarter end. Allocation data shown is based on NAV. Benchmark allocation to "Other" consists of entertainment (theaters, golf courses, bowling alleys), healthcare (hospitals, clinics), manufactured homes, parking lots, self-storage units, senior living, and undeveloped land.

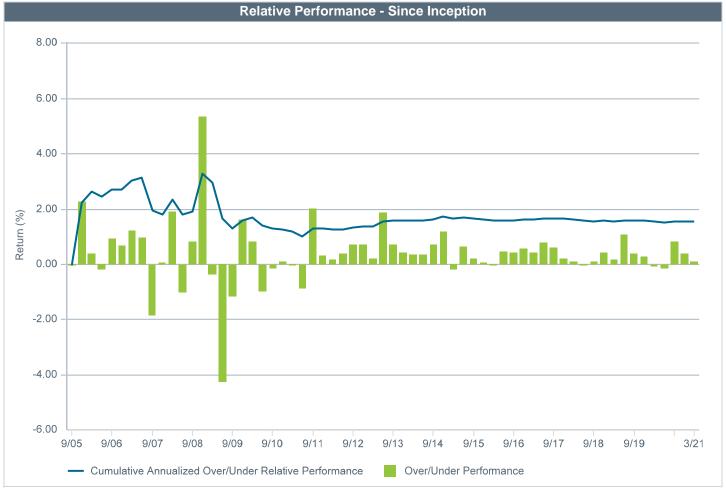


Manager: Morgan Stanley Prime Property (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	2.20	3.50	6.11	7.72	9.83	11.57	2.18	7.40	8.99	9.84	10.38
Benchmark	2.11	2.32	4.88	6.20	8.25	9.67	1.19	5.34	8.35	7.62	8.77
Difference	0.09	1.18	1.23	1.52	1.58	1.90	0.99	2.06	0.64	2.22	1.61



	Actual Correlation
NCREIF ODCE Index (AWA) (Gross)	0.91
S&P 500 Index (Cap Wtd)	-0.30
Russell 2000 Index	-0.27
MSCI EAFE Index (USD) (Net)	-0.28
MSCI Emg Mkts Index (USD) (Net)	-0.41
Bloomberg US Agg Bond Index	-0.22
Bloomberg US Trsy US TIPS Index	-0.39
Wilshire US REIT Index	-0.16
HFRI FOF Comp Index	-0.31
Bloomberg Cmdty Index (TR)	-0.32
ICE BofAML 3 Mo US T-Bill Index	-0.44
Cons Price Index (Unadjusted)	-0.12





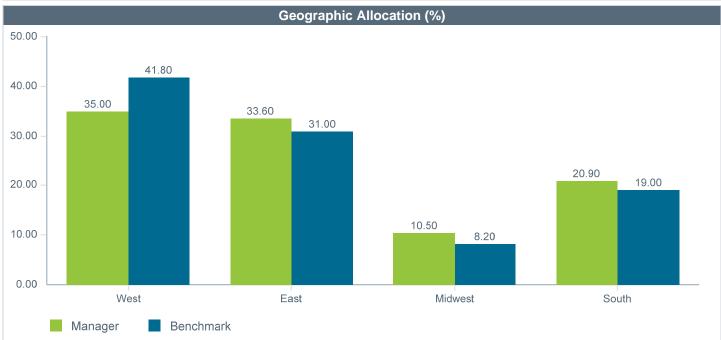
Manager: Morgan Stanley Prime Property (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

Investment Strategy

The Fund pursues a diversified core real estate strategy that invests in assets with stable, highly predictable cash flow returns. The Fund targets high quality office, Class A multifamily, warehouse distribution, and top-tier super regional malls in addition to storage facilities in targeted primary markets. The Fund favors investing in major metropolitan markets and secondary markets expected to achieve above-average economic performance and believes that those cities offer better liquidity, more diverse tenant bases, and stronger resilience to market cycles. It operates with leverage of 50% or less and may invest up to 15% of its gross assets in higher-risk, value-added real estate investment opportunities.

Investment Profile						
Fund Inception	1973					
Legal Structure	LLC					
Fund Structure	Open-End					
Gross Real Estate Assets (\$M)	33,420					
Fund Leverage %	19.10					
Portfolio Occupancy %	92.00					
Cash Reserve %	0.80					
Number of Investments	465					
Number of Limited Partners	427					





Performance shown is gross of fees and product specific. Calculation is based on quarterly periodicity. Investment profile data shown is provided by the investment manager and is as of the most recently available quarter end. Allocation data shown is based on NAV. Manager allocation to "Other" consists of self-storage, health care land held for potential development, and hotel. Benchmark allocation to "Other" consists of entertainment (theaters, golf courses, bowling alleys), healthcare (hospitals, clinics), manufactured homes, parking lots, self-storage units, senior living, and undeveloped land.



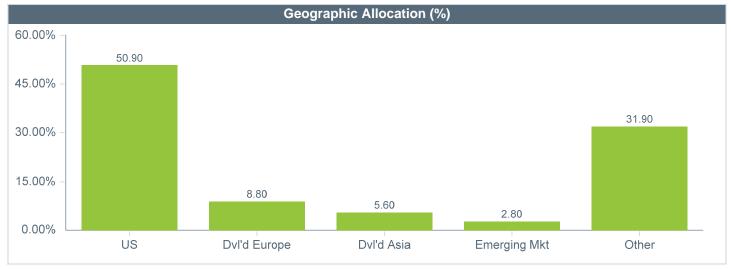
Investment Strategy

The Fund's investment objectives are to generate superior absolute and risk adjusted rates of return with low performance volatility and low correlation with global equity and fixed-income markets over a full market cycle. The Fund is also designed to preserve capital in challenging market environments. It does this through investment in a diversified pool of hedge fund strategies.

Firm Statistics	
Year Firm Established	1971
Firm AUM (\$M)	26,574
Percentage Employee Owned %	92.00

Fund Statistics	
Fund Inception	2018
Fund Size(\$M)	321
Number of Underlying Managers	26
Maximum Weighting of an Underlying Manager %	10.00
Current Leverage (Assets/Equity)	3.80
Annual Manager Turnover %	40.00
Annual Management Fee %	0.60
Performance Fee %	5
Hurdle %	T-bills+2%
Initial Lock-Up Periods	N/A
Redemption Frequency	N/A
Notification Period	N/A





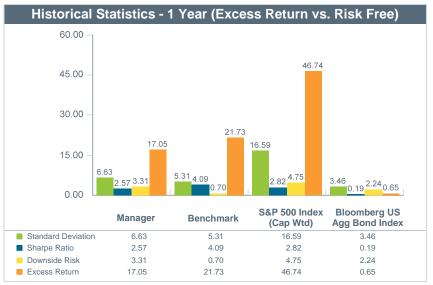
Strategy allocation to other consists of cash, expenses, management fees, and net receivable. Geographic allocation to other consists of cash or funds where geographic data are unavailable. Fund statistics shown are provided by the investment manager and are as of the most recently available quarter end.



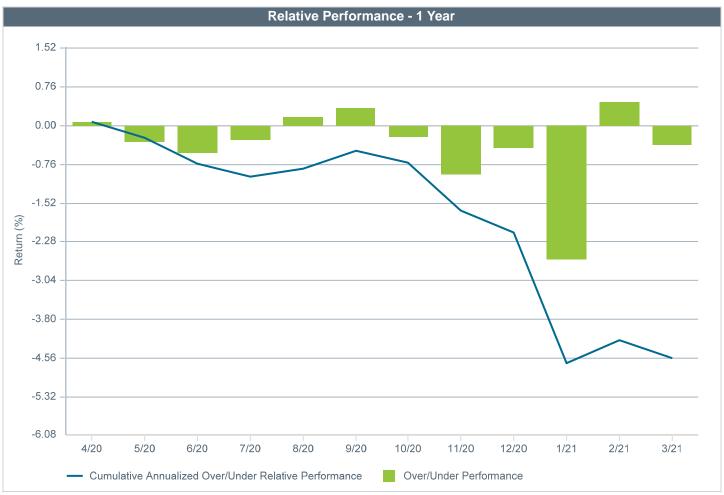
Manager: Grosvenor Diversified Hedge Funds

Benchmark: HFRI FOF Comp Index

				Pe	rforman	ce					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	-0.58	18.33	N/A	N/A	N/A	N/A	9.70	5.67	N/A	N/A	N/A
Benchmark	2.01	24.00	5.48	5.64	3.90	3.44	10.88	8.39	-4.02	7.77	0.51
Difference	-2.59	-5.67	N/A	N/A	N/A	N/A	-1.18	-2.72	N/A	N/A	N/A



Actual Correlation - 1 Year						
	Actual Correlation					
HFRI FOF Comp Index	0.94					
S&P 500 Index (Cap Wtd)	0.80					
Russell 2000 Index	0.57					
MSCI EAFE Index (USD) (Net)	0.83					
MSCI Emg Mkts Index (USD) (Net)	0.95					
Bloomberg US Agg Bond Index	0.96					
Bloomberg US Trsy US TIPS Index	0.88					
NCREIF ODCE Index (AWA) (Gross)	-0.73					
Wilshire US REIT Index	0.15					
Bloomberg Cmdty Index (TR)	0.09					
ICE BofAML 3 Mo US T-Bill Index	0.15					
Cons Price Index (Unadjusted)	-0.96					



Performance shown is net of fees and client specific. Calculation is based on quarterly periodicity.

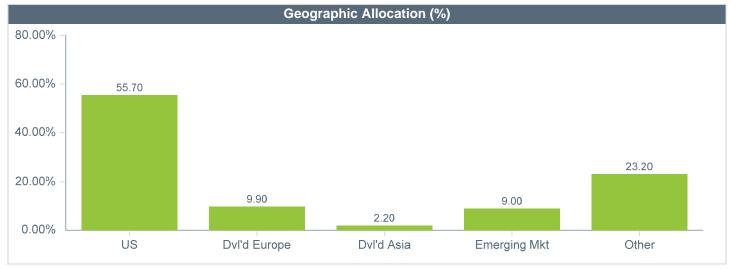


Investment Strategy
Silvery Lupine Fund Class C is a direct hedge funds portfolio managed by the Wyoming State Treasurer's Office.

Firm Statistics	
Year Firm Established	1971
Firm AUM (\$M)	26,574
Percentage Employee Owned %	92.00

Fund Statistics							
Fund Inception	2018						
Fund Size(\$M)	555						
Number of Underlying Managers	16						
Maximum Weighting of an Underlying Manager %	N/A						
Current Leverage (Assets/Equity)	4.10						
Annual Manager Turnover %	0.00						
Annual Management Fee %	0						
Performance Fee %	N/A						
Hurdle %	N/A						
Initial Lock-Up Periods	N/A						
Redemption Frequency	N/A						
Notification Period	N/A						





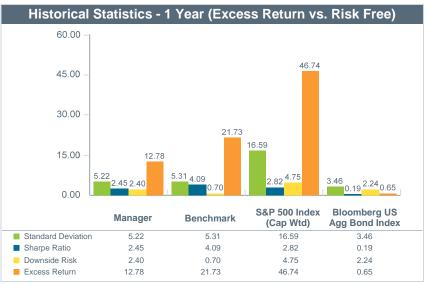
Strategy allocation to other consists of cash, expenses, and net receivable. Geographic allocation to other consists of cash or funds where geographic data are unavailable. Fund statistics shown are provided by GCM and are as of the most recently available quarter end.



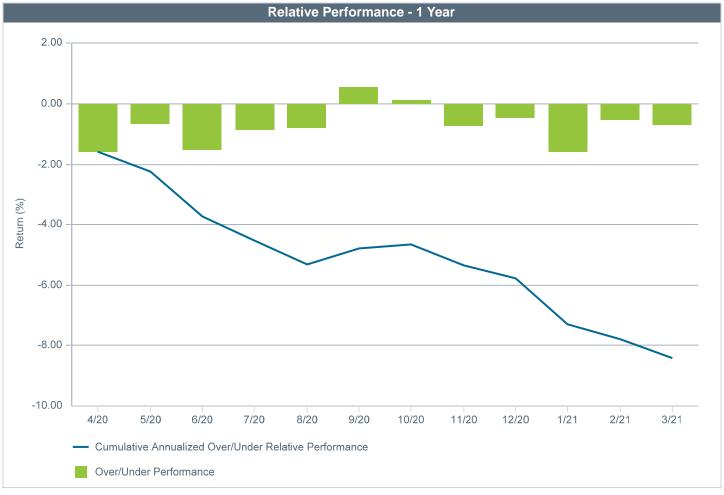
Manager: Internal Diversified Hedge Funds

Benchmark: HFRI FOF Comp Index

				Pe	rforman	ce					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	-0.85	13.54	N/A	N/A	N/A	N/A	5.83	6.08	N/A	N/A	N/A
Benchmark	2.01	24.00	5.48	5.64	3.90	3.44	10.88	8.39	-4.02	7.77	0.51
Difference	-2.86	-10.46	N/A	N/A	N/A	N/A	-5.05	-2.31	N/A	N/A	N/A



	Actual Correlation
HFRI FOF Comp Index	0.90
S&P 500 Index (Cap Wtd)	0.50
Russell 2000 Index	0.67
MSCI EAFE Index (USD) (Net)	0.83
MSCI Emg Mkts Index (USD) (Net)	0.93
Bloomberg US Agg Bond Index	0.71
Bloomberg US Trsy US TIPS Index	0.59
NCREIF ODCE Index (AWA) (Gross)	-0.32
Wilshire US REIT Index	0.21
Bloomberg Cmdty Index (TR)	0.49
ICE BofAML 3 Mo US T-Bill Index	0.25
Cons Price Index (Unadjusted)	-0.85



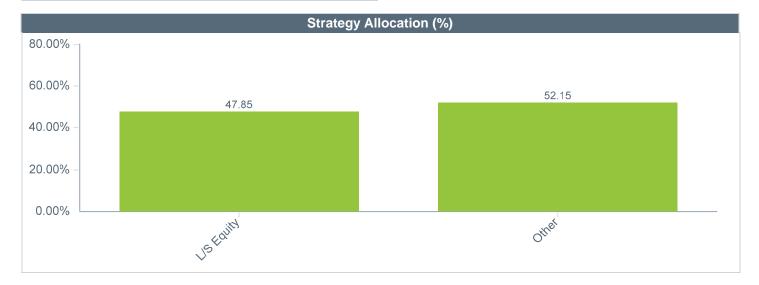
Performance shown is net of fees and client specific. Calculation is based on quarterly periodicity.

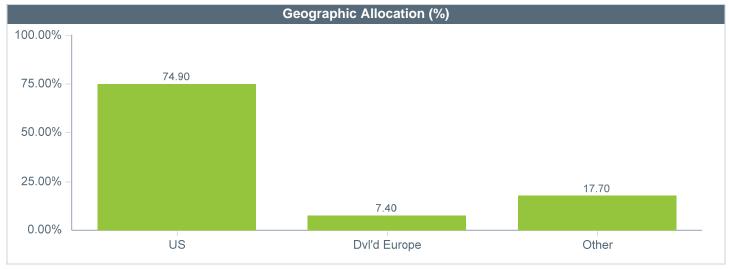


Investment St	rategy
Grosvenor Silvery Lupine Fund Class D is portfolio of the State Treasurer's Office.	s the opportunistic investment

Firm Statistics	
Year Firm Established	1971
Firm AUM (\$M)	26,574
Percentage Employee Owned %	92.00

Fund Statistics	
Fund Inception	2020
Fund Size(\$M)	104
Number of Underlying Managers	N/A
Maximum Weighting of an Underlying Manager %	N/A
Current Leverage (Assets/Equity)	1.10
Annual Manager Turnover %	N/A
Annual Management Fee %	0.30
Performance Fee %	10
Hurdle % Class D Custo	om Index
Initial Lock-Up Periods	N/A
Redemption Frequency	N/A
Notification Period	N/A



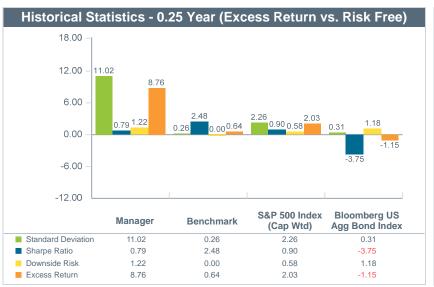


Strategy allocation to other consists of cash, expenses, fees, SPV, and net receivable. Geographic allocation to other consists of cash or funds where geographic data are unavailable. Fund statistics shown are provided by GCM and are as of the most recently available quarter end.



Manager: Grosvenor Opportunistic Class D
Benchmark: Grosvenor Class D Custom Benchmark

				Pe	erforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	26.77	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benchmark	1.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Difference	24.81	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



Actual Correlation - 0.25	Year
	Actual Correlation
Grosvenor Class D Custom Benchmark	0.47
S&P 500 Index (Cap Wtd)	-0.02
Russell 2000 Index	0.84
MSCI EAFE Index (USD) (Net)	0.26
MSCI Emg Mkts Index (USD) (Net)	0.24
Bloomberg US Agg Bond Index	-0.51
Bloomberg US Trsy US TIPS Index	-0.87
Wilshire US REIT Index	-0.09
Bloomberg Cmdty Index (TR)	0.94
ICE BofAML 3 Mo US T-Bill Index	0.25
Cons Price Index (Unadjusted)	-0.32



Performance shown is net of fees and client specific. Calculation is based on monthly periodicity.



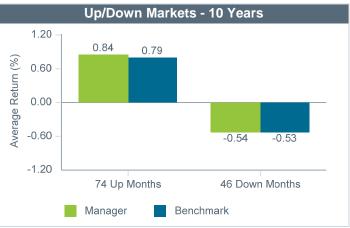
Manager: PIMCO Core

Benchmark: PIMCO Custom Index

Peer Group: IM U.S. Broad Market Core Fixed Income (SA+CF)

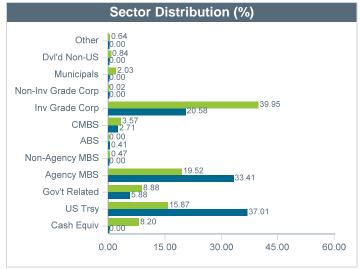
Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	-3.73	2.06	4.88	3.48	3.61	3.77	8.93	7.71	0.58	4.27	3.35
Benchmark	-3.38	1.12	4.57	3.02	3.25	3.40	8.14	7.30	0.32	3.54	2.65
Difference	-0.35	0.94	0.31	0.46	0.36	0.37	0.79	0.41	0.26	0.73	0.70
Peer Group Median	-3.18	3.33	5.26	3.74	3.81	3.97	8.52	9.19	0.07	4.03	3.10
Rank	93	72	76	69	68	69	33	95	15	33	44
Population	143	143	140	138	136	128	147	152	158	163	170







Spread Duration 3.87 4.31 Avg. Maturity 7.76 4.85 Avg. Quality Aa3 Aa1/Aa2 Yield To Maturity (%) 1.82 1.30 Coupon Rate (%) 1.99 2.41 Current Yield (%) 1.97 N/A		Portfolio	Benchmark
Avg. Maturity 7.76 4.85 Avg. Quality Aa3 Aa1/Aa2 Yield To Maturity (%) 1.82 1.30 Coupon Rate (%) 1.99 2.41 Current Yield (%) 1.97 N/A	Effective Duration	6.31	N/A
Avg. Quality Aa3 Aa1/Aa2 Yield To Maturity (%) 1.82 1.30 Coupon Rate (%) 1.99 2.41 Current Yield (%) 1.97 N/A	Spread Duration	3.87	4.31
Yield To Maturity (%) 1.82 1.30 Coupon Rate (%) 1.99 2.41 Current Yield (%) 1.97 N/A	Avg. Maturity	7.76	4.85
Coupon Rate (%) 1.99 2.41 Current Yield (%) 1.97 N/A	Avg. Quality	Aa3	Aa1/Aa2
Current Yield (%) 1.97 N/A	Yield To Maturity (%)	1.82	1.30
	Coupon Rate (%)	1.99	2.41
Holdings Count 424 9.253	Current Yield (%)	1.97	N/A
	Holdings Count	424	9,253



Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Sector allocation to "Other" consists of Euro/Yankee securities.

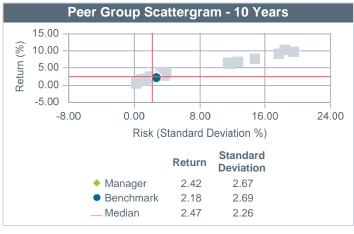


Manager: Internal Intermediate Gov't Fixed Income Portfolio

Benchmark: Internal Int Govt Fixed Income Portfolio Index

Peer Group: IM U.S. Government Bonds (SA+CF)

				Pe	erforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	-4.30	-4.60	3.30	2.06	2.47	2.42	7.85	4.53	1.85	1.84	0.95
Benchmark	-4.25	-4.43	3.42	1.87	2.10	2.18	8.00	4.70	1.43	1.14	1.05
Difference	-0.05	-0.17	-0.12	0.19	0.37	0.24	-0.15	-0.17	0.42	0.70	-0.10
Peer Group Median	-1.82	-1.23	4.03	2.29	2.46	2.47	6.37	5.36	1.28	1.61	1.32
Rank	60	64	73	71	50	53	46	73	8	49	79
Population	42	42	42	41	41	38	44	45	51	50	51







Portfol	io Characteristic	s
	Portfolio	Benchmark
Effective Duration	6.44	6.79
Spread Duration	6.29	6.58
Avg. Maturity	8.16	8.01
Avg. Quality	Aaa	Aaa
Yield To Maturity (%)	1.03	1.00
Coupon Rate (%)	2.18	1.71
Current Yield (%)	2.10	N/A
Holdings Count	46	264



Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. The Internal Intermediate Govt Fixed Income Portfolio Index consists of the Bloomberg US Treasury Index as of 12/1/2019. November 2019 performance consists of the Internal Intermediate Govt Fixed Income Portfolio. Prior to November 2019, the index consists of Bloomberg US Gov't Int Term Bond Index. Prior to December 2009, the index consisted of the Bloomberg US Gov't Crdt Bond Index.

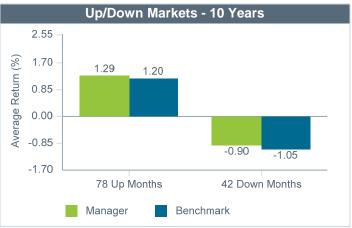


Manager: Payden & Rygel

Benchmark: Payden & Rygel Custom Index **Peer Group:** IM U.S. Corporate Bonds (SA+CF)

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	-4.58	9.08	6.42	6.08	5.88	6.34	10.37	14.96	-2.41	9.23	7.51
Benchmark	-4.65	8.73	5.89	4.73	4.47	4.95	8.94	14.54	-2.51	6.42	6.11
Difference	0.07	0.35	0.53	1.35	1.41	1.39	1.43	0.42	0.10	2.81	1.40
Peer Group Median	-4.35	10.47	7.04	5.78	5.36	5.91	11.43	15.08	-2.34	7.22	7.30
Rank	60	75	71	43	36	40	67	53	52	32	46
Population	120	118	116	110	106	101	124	127	132	130	132







Portfol	lio Characteristic	s
	Portfolio	Benchmark
Effective Duration	7.88	8.48
Spread Duration	7.95	N/A
Avg. Maturity	11.31	12.00
Avg. Quality	A3	A3/Baa1
Yield To Maturity (%)	2.35	2.32
Coupon Rate (%)	3.84	3.69
Current Yield (%)	3.35	N/A
Holdings Count	240	6,780



Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Manager: JPM MBS As of March 31, 2021

Benchmark: Bloomberg US MBS Index (Unhgd) **Peer Group:** IM U.S. Mortgage Backed Bonds (SA+CF)

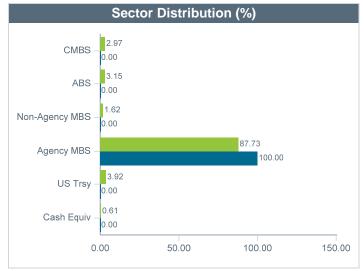
Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	0.02	2.77	4.79	3.17	3.47	3.32	5.71	6.47	1.01	2.64	2.24
Benchmark	-1.10	-0.09	3.75	2.43	2.86	2.83	3.87	6.35	0.99	2.47	1.67
Difference	1.12	2.86	1.04	0.74	0.61	0.49	1.84	0.12	0.02	0.17	0.57
Peer Group Median	-0.64	2.05	4.04	3.33	3.50	3.73	4.15	6.56	1.33	3.59	2.38
Rank	41	48	19	53	51	64	13	59	73	71	55
Population	46	46	45	43	42	41	48	51	52	55	58







	Portfolio	Benchmark
Effective Duration	3.18	4.09
Spread Duration	4.18	4.63
Avg. Maturity	5.29	5.58
Avg. Quality	Aa1	Aaa
Yield To Maturity (%)	1.68	1.82
Coupon Rate (%)	3.04	2.94
Current Yield (%)	4.04	N/A
Holdings Count	378	449



Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.

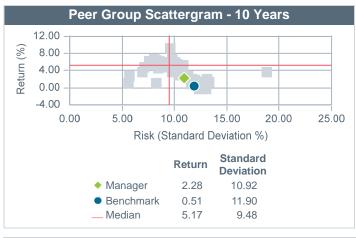


Manager: Global Evolution

Benchmark: JPM GBI-EM Gbl Dvf'd Index (USD) (TR) (Unhedged)

Peer Group: IM Emerging Markets Debt (SA+CF)

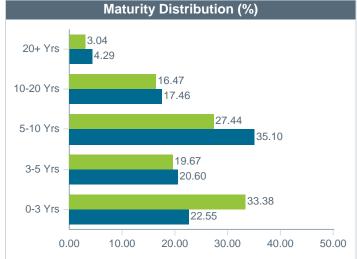
Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	-6.38	14.60	-1.47	3.22	1.82	2.28	2.77	12.61	-7.84	15.68	11.89
Benchmark	-6.68	13.03	-0.79	3.08	0.24	0.51	2.69	13.47	-6.21	15.21	9.94
Difference	0.30	1.57	-0.68	0.14	1.58	1.77	0.08	-0.86	-1.63	0.47	1.95
Peer Group Median	-4.55	18.97	3.44	5.56	4.60	5.17	6.72	14.24	-5.33	12.43	11.04
Rank	73	88	95	93	73	70	94	76	85	19	37
Population	123	123	119	112	101	74	133	147	158	163	172







	Portfolio	Benchmark
Effective Duration	5.34	5.40
Spread Duration	N/A	0.03
Avg. Maturity	7.31	7.33
Avg. Quality	Baa1	Ba3
Yield To Maturity (%)	6.08	4.84
Coupon Rate (%)	6.47	5.55
Current Yield (%)	5.70	5.22
Holdings Count	71	268

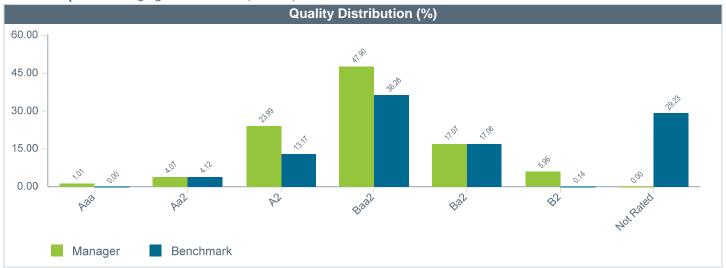




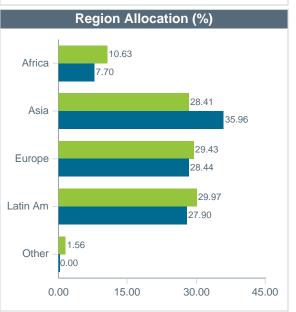
Manager: Global Evolution

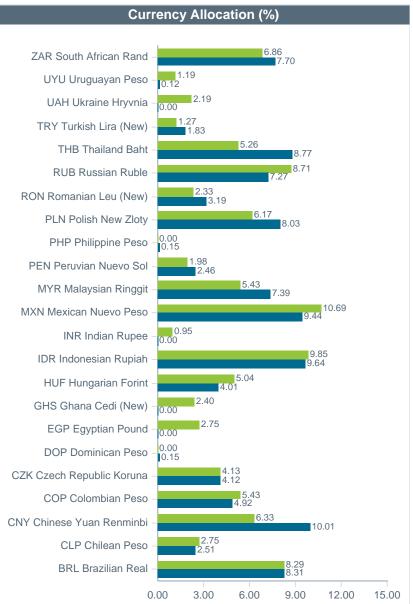
Benchmark: JPM GBI-EM Gbl Dvf'd Index (USD) (TR) (Unhedged)

Peer Group: IM Emerging Markets Debt (SA+CF)









Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Region allocation to "Other" consists of cash.



Manager: Goldman Sachs

Benchmark: Goldman Sachs Custom Index **Peer Group:** IM Emerging Markets Debt (SA+CF)

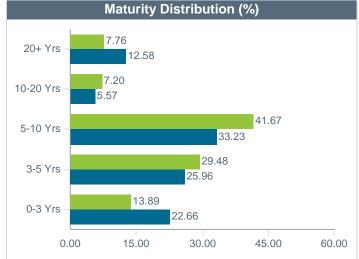
Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	-1.55	21.13	6.92	7.25	6.34	N/A	8.70	14.69	-1.62	9.57	11.71
Benchmark	-0.80	18.50	6.19	6.17	5.45	5.55	7.31	13.09	-1.65	7.96	9.65
Difference	-0.75	2.63	0.73	1.08	0.89	N/A	1.39	1.60	0.03	1.61	2.06
Peer Group Median	-4.55	18.97	3.44	5.56	4.60	5.17	6.72	14.24	-5.33	12.43	11.04
Rank	24	37	12	18	3	N/A	22	40	13	86	40
Population	123	123	119	112	101	74	133	147	158	163	172







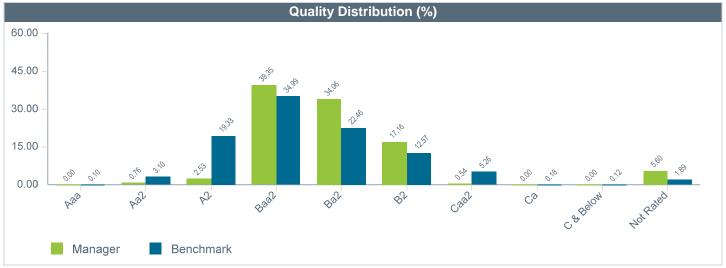
	Portfolio	Benchmark
Effective Duration	4.65	4.70
Spread Duration	4.66	4.66
Avg. Maturity	14.17	9.95
Avg. Quality	Ba1	Ba1
Yield To Maturity (%)	4.30	3.93
Coupon Rate (%)	4.84	4.83
Current Yield (%)	4.68	4.64
Holdings Count	185	1,937

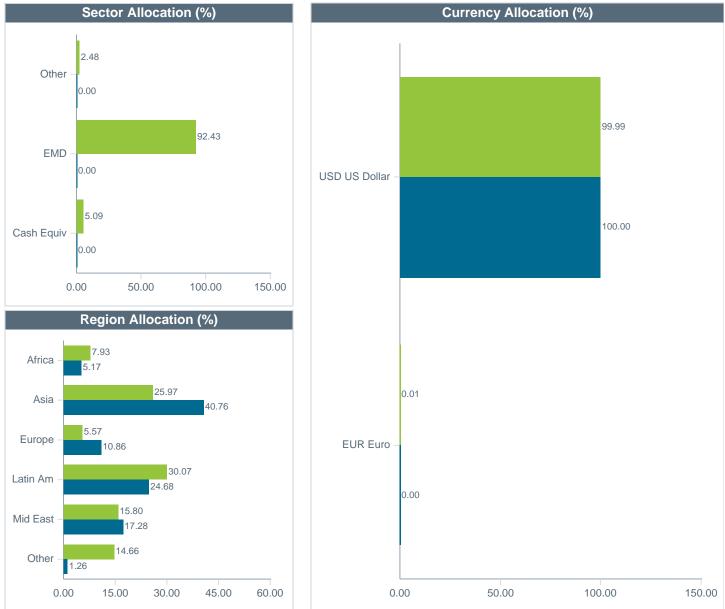




Manager: Goldman Sachs

Benchmark: Goldman Sachs Custom Index **Peer Group:** IM Emerging Markets Debt (SA+CF)





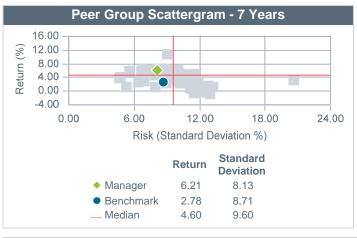
Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Sector allocation to "Other" consists of foreign exchange, supranational and interest rate swaps. Region allocation to "Other" consists of CIS, cash, supranational and developed.



Manager: Eaton Vance

Benchmark: JP Morgan EMB (JEMB) Hard/Local 50/50 **Peer Group:** IM Emerging Markets Debt (SA+CF)

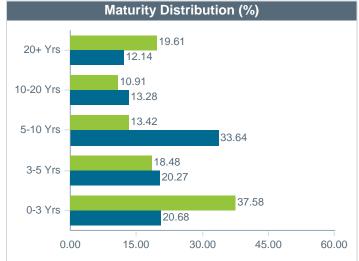
	3 3			Pe	erforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	-0.47	25.34	6.67	8.87	6.21	N/A	8.35	19.33	-3.44	14.00	11.85
Benchmark	-4.69	15.12	2.18	4.40	2.78	3.10	4.49	13.84	-4.50	12.15	10.06
Difference	4.22	10.22	4.49	4.47	3.43	N/A	3.86	5.49	1.06	1.85	1.79
Peer Group Median	-4.55	18.97	3.44	5.56	4.60	5.17	6.72	14.24	-5.33	12.43	11.04
Rank	9	15	13	5	7	N/A	25	1	23	34	38
Population	123	123	119	112	101	74	133	147	158	163	172







	Portfolio	Benchmark
Effective Duration	2.29	5.83
Spread Duration	4.26	3.07
Avg. Maturity	9.06	9.37
Avg. Quality	Ba3	Ba2
Yield To Maturity (%)	8.18	4.55
Coupon Rate (%)	6.08	5.24
Current Yield (%)	5.47	5.01
Holdings Count	138	N/A

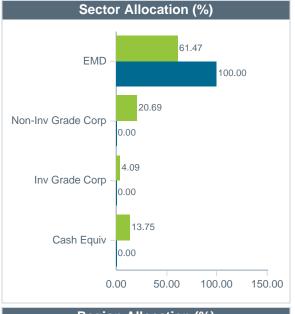


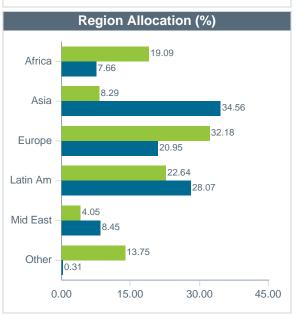


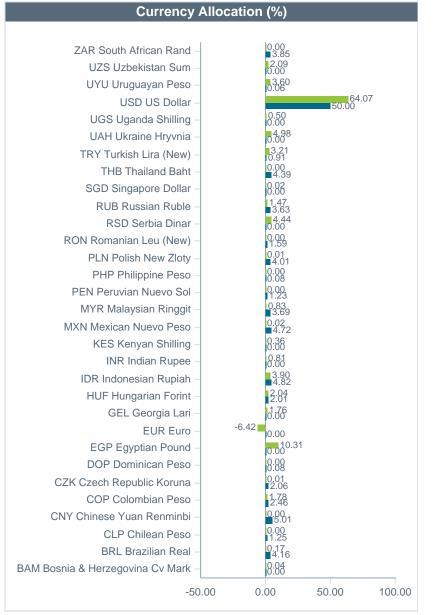
Manager: Eaton Vance

Benchmark: JP Morgan EMB (JEMB) Hard/Local 50/50 **Peer Group:** IM Emerging Markets Debt (SA+CF)









Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Region allocation to "Other" consists of cash.



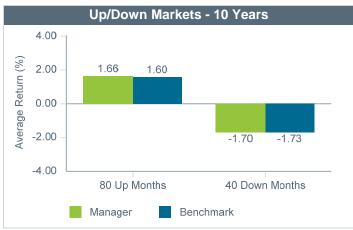
Manager: Global Evolution Hard

Benchmark: JP Morgan EMBIG Div Ex CCC (USD) (TR) Index

Peer Group: IM Emerging Markets Debt (SA+CF)

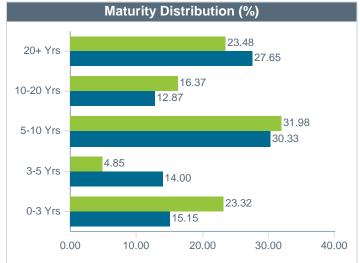
	Performance													
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016			
Manager	-5.05	17.13	3.94	5.83	5.74	6.35	6.04	14.13	-4.01	13.35	12.20			
Benchmark	-4.72	15.21	4.56	5.21	5.20	5.67	6.09	15.72	-4.14	10.79	9.22			
Difference	-0.33	1.92	-0.62	0.62	0.54	0.68	-0.05	-1.59	0.13	2.56	2.98			
Peer Group Median	-4.55	18.97	3.44	5.56	4.60	5.17	6.72	14.24	-5.33	12.43	11.04			
Rank	59	67	45	40	16	5	58	53	32	39	31			
Population	123	123	119	112	101	74	133	147	158	163	172			







Portfolio	Characteristics	(%)
	Portfolio	Benchmark
Effective Duration	7.77	8.04
Spread Duration	N/A	7.80
Avg. Maturity	12.67	12.75
Avg. Quality	Baa3	Baa3
Yield To Maturity (%)	3.99	4.58
Coupon Rate (%)	4.93	5.25
Current Yield (%)	4.68	N/A
Holdings Count	98	823



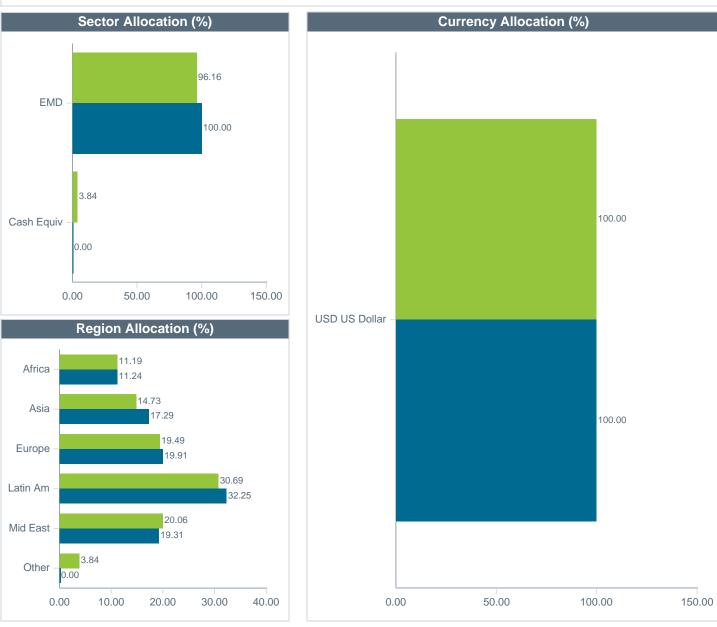


Manager: Global Evolution Hard

Benchmark: JP Morgan EMBIG Div Ex CCC (USD) (TR) Index

Peer Group: IM Emerging Markets Debt (SA+CF)









Manager: Finisterre

Benchmark: Custom EMD Benchmark (1/3) **Peer Group:** IM Emerging Markets Debt (SA+CF)

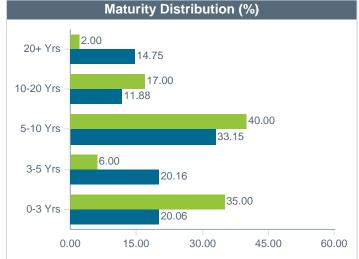
				Pe	rforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	-2.28	16.20	6.70	8.22	6.26	N/A	8.14	16.04	-0.20	12.46	11.21
Benchmark	-4.02	15.81	3.16	4.82	3.60	3.94	5.07	13.93	-3.96	11.13	10.04
Difference	1.74	0.39	3.54	3.40	2.66	N/A	3.07	2.11	3.76	1.33	1.17
Peer Group Median	-4.55	18.97	3.44	5.56	4.60	5.17	6.72	14.24	-5.33	12.43	11.04
Rank	25	75	13	6	6	N/A	28	14	5	49	48
Population	123	123	119	112	101	74	133	147	158	163	172







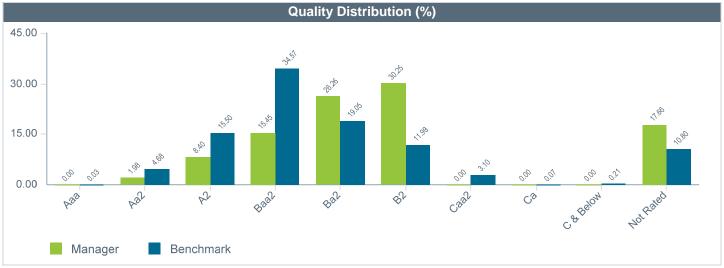
	Portfolio	Benchmark
Effective Duration	2.95	5.98
Spread Duration	2.74	4.09
Avg. Maturity	4.70	10.05
Avg. Quality	Ba2	Ba2
Yield To Maturity (%)	4.37	4.45
Coupon Rate (%)	3.90	5.14
Current Yield (%)	4.04	4.94
Holdings Count	96	N/A



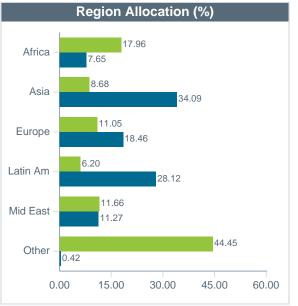


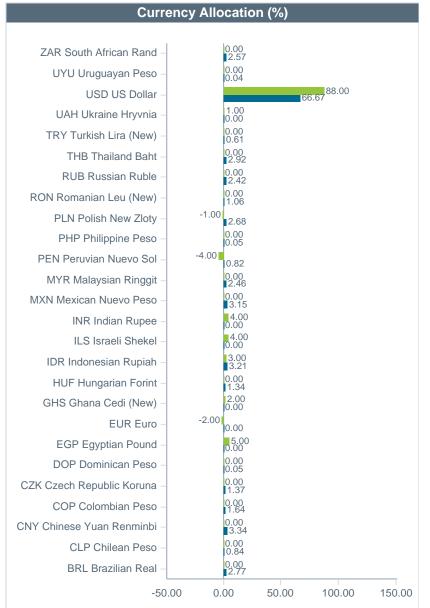
Manager: Finisterre

Benchmark: Custom EMD Benchmark (1/3) Peer Group: IM Emerging Markets Debt (SA+CF)









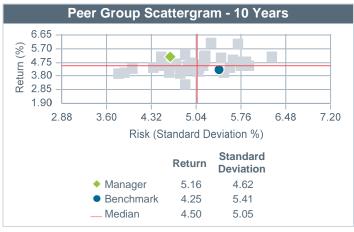
Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Sector and region allocation to "Other" consists of foreign exchange, futures, margin for derivatives and interest rate swaps.

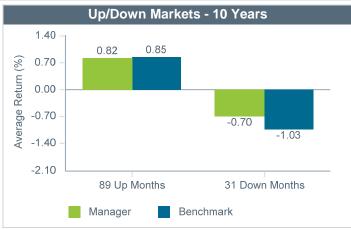


Manager: Credit Suisse

Benchmark: S&P/LSTA Lvg'd Loan Index **Peer Group:** IM U.S. Bank Loans (SA+CF)

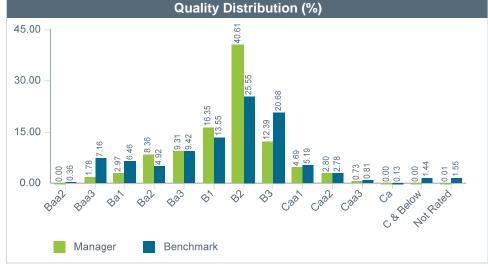
	Performance												
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016		
Manager	1.83	18.85	4.27	5.44	4.69	5.16	3.11	7.97	1.51	5.07	9.46		
Benchmark	1.78	20.71	4.13	5.28	3.93	4.25	3.12	8.64	0.44	4.12	10.16		
Difference	0.05	-1.86	0.14	0.16	0.76	0.91	-0.01	-0.67	1.07	0.95	-0.70		
Peer Group Median	1.69	18.26	4.01	5.10	4.03	4.50	2.39	8.77	0.78	4.44	9.51		
Rank	39	40	40	29	9	12	28	82	8	14	54		
Population	51	51	50	48	48	41	52	56	65	66	67		

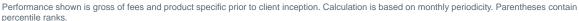






Portfolio Ch	aracteri	stics
	Portfolio	Benchmark
Effective Duration	0.25	N/A
Spread Duration	5.36	N/A
Avg. Maturity	4.89	4.71
Avg. Quality	B2	B1
Yield To Maturity (%)	5.06	4.60
Coupon Rate (%)	4.05	3.94
Current Yield (%)	4.11	4.60
Holdings Count	285	1,439







Manager: Octagon

Benchmark: S&P/LSTA Lvg'd Loan Index **Peer Group:** IM U.S. Bank Loans (SA+CF)

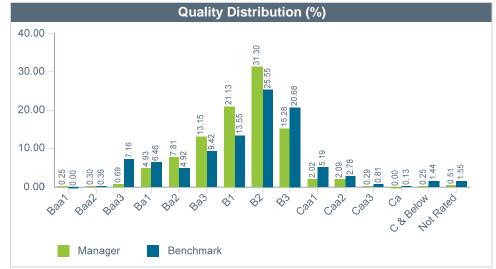
	Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016	
Manager	1.82	19.02	4.87	6.34	5.31	N/A	3.72	8.92	2.17	6.65	10.49	
Benchmark	1.78	20.71	4.13	5.28	3.93	4.25	3.12	8.64	0.44	4.12	10.16	
Difference	0.04	-1.69	0.74	1.06	1.38	N/A	0.60	0.28	1.73	2.53	0.33	
Peer Group Median	1.69	18.26	4.01	5.10	4.03	4.50	2.39	8.77	0.78	4.44	9.51	
Rank	39	39	16	6	1	N/A	15	45	4	4	22	
Population	51	51	50	48	48	41	52	56	65	66	67	





	Excess	Tracking	Info	S	harpe	Downside
	Return	Error	Ratio		Ratio	Risk
5.30		2.90	1.87	1.00	6.26	
4.65 -	•	2.20 -	1.26	0.80	5.49 -	
4.00 -	_	1.50 -	0.65	0.60	4.72 -	
3.35 -		0.80	0.04 -	0.80	3.95 –	_
2.70 -		0.10 -	-0.57 -	0.40	3.18 –	
2.05		-0.60	-1.18	0.20	2.41	
Manager	4.46 (2)	1.08 (49)	1.18 (2)	0.0	85 (1)	4.07 (76)
Benchmark	3.18 (56)	0.00 (100)	N/A	0.8	52 (78)	4.90 (25)
Median	3.23	1.04	0.05	0.9	57	4.46

Portfolio Ch	aracteri	stics
	Portfolio	Benchmark
Effective Duration	0.25	N/A
Spread Duration	N/A	N/A
Avg. Maturity	5.23	4.71
Avg. Quality	B1	B1
Yield To Maturity (%)	4.32	4.60
Coupon Rate (%)	4.04	3.94
Current Yield (%)	4.09	4.60
Holdings Count	339	1,439



Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Manager: Wyoming Internal Ladder Portfolio Benchmark: Wyoming Internal Ladder Portfolio

Peer Group: IM U.S. Short Duration Fixed Income (SA+CF)

	Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016	
Manager	-0.05	0.32	N/A	N/A	N/A	N/A	3.20	N/A	N/A	N/A	N/A	
Benchmark	-0.05	0.32	N/A	N/A	N/A	N/A	3.20	N/A	N/A	N/A	N/A	
Difference	0.00	0.00	N/A	N/A	N/A	N/A	0.00	N/A	N/A	N/A	N/A	
Peer Group Median	-0.06	3.21	3.34	2.41	2.13	2.04	3.83	4.52	1.67	1.53	1.67	
Rank	47	100	N/A	N/A	N/A	N/A	82	N/A	N/A	N/A	N/A	
Population	110	110	108	106	102	93	111	116	126	129	130	







Portfolio Characteristics								
	Portfolio	Benchmark						
Effective Duration	1.66	1.66						
Spread Duration	1.63	1.63						
Avg. Maturity	1.75	1.75						
Avg. Quality	Aaa	Aaa						
Yield To Maturity (%)	0.16	0.16						
Coupon Rate (%)	0.95	0.95						
Current Yield (%)	0.94	0.94						
Holdings Count	18	18						



Performance shown is gross of fees and client specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.

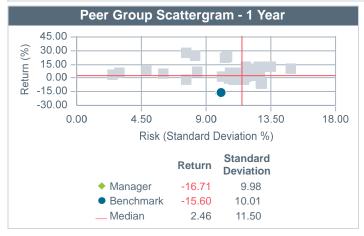


Manager: Internal Long Duration Fixed Income Portfolio

Benchmark: Bloomberg US Gov't Lng Trm Bond Index

Peer Group: IM U.S. Long Duration (SA+CF)

				Pe	erforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	-13.53	-16.71	N/A	N/A	N/A	N/A	17.06	14.61	N/A	N/A	N/A
Benchmark	-13.39	-15.60	5.84	3.17	5.50	6.30	17.55	14.75	-1.79	8.53	1.43
Difference	-0.14	-1.11	N/A	N/A	N/A	N/A	-0.49	-0.14	N/A	N/A	N/A
Peer Group Median	-9.63	2.46	7.95	6.37	6.75	7.59	16.98	20.14	-4.74	11.21	7.39
Rank	100	100	N/A	N/A	N/A	N/A	50	91	N/A	N/A	N/A
Population	59	58	57	52	50	47	59	62	73	75	77







Spread Duration 17.50 17.62 Lovg. Maturity 23.00 24.27 Lovg. Quality Aaa Aaa/Aa1 Field To Maturity (%) 2.33 2.34 Coupon Rate (%) 2.37 2.64 Current Yield (%) 2.36 N/A		Portfolio	Benchmark
. v.	Effective Duration	17.90	18.52
Aaa Aaa/Aa1 Yield To Maturity (%) 2.33 2.34 Coupon Rate (%) 2.37 2.64 Current Yield (%) 2.36 N/A	Spread Duration	17.50	17.62
Yield To Maturity (%) 2.33 2.34 Coupon Rate (%) 2.37 2.64 Current Yield (%) 2.36 N/A	Avg. Maturity	23.00	24.27
Coupon Rate (%) 2.37 2.64 Current Yield (%) 2.36 N/A	Avg. Quality	Aaa	Aaa/Aa1
Current Yield (%) 2.36 N/A	rield To Maturity (%)	2.33	2.34
,	Coupon Rate (%)	2.37	2.64
Holdings Count 16 88	Current Yield (%)	2.36	N/A
.0	Holdings Count	16	88



Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Manager: Metlife

Benchmark: Bloomberg US Lng Crdt Index **Peer Group:** IM U.S. Long Duration (SA+CF)

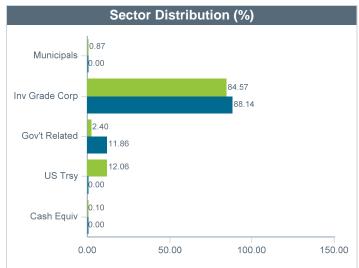
				Pe	erforman	ce					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	-8.51	7.59	8.63	8.29	7.72	9.15	16.37	23.73	-5.68	13.59	13.40
Benchmark	-8.39	8.87	7.48	6.69	6.39	7.23	13.32	23.36	-6.76	12.21	10.22
Difference	-0.12	-1.28	1.15	1.60	1.33	1.92	3.05	0.37	1.08	1.38	3.18
Peer Group Median	-9.63	2.46	7.95	6.37	6.75	7.59	16.98	20.14	-4.74	11.21	7.39
Rank	34	28	14	1	3	2	57	10	78	3	2
Population	59	58	57	52	50	47	59	62	73	75	77







Effective Duration Spread Duration Avg. Maturity	14.36 11.66	14.90 14.26
'		14.26
Avg. Maturity		
	21.68	23.72
Avg. Quality	A3	A3/Baa1
Yield To Maturity (%)	3.59	3.46
Coupon Rate (%)	4.40	4.52
Current Yield (%)	3.92	N/A
Holdings Count	268	2,820



Performance shown is gross of fees and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.

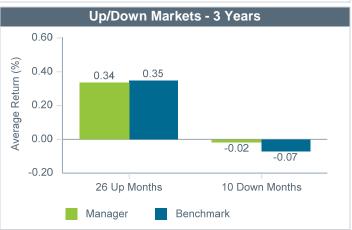


Manager: Internal Low Duration Fixed Income Portfolio

Benchmark: Bloomberg US Gov't 1-3 Yr Bond Index **Peer Group:** IM U.S. Short Duration Fixed Income (SA+CF)

				Pe	erforman	ce					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	0.00	0.39	2.89	N/A	N/A	N/A	3.14	3.80	N/A	N/A	N/A
Benchmark	-0.05	0.36	2.80	1.73	1.51	1.31	3.14	3.59	1.58	0.45	0.87
Difference	0.05	0.03	0.09	N/A	N/A	N/A	0.00	0.21	N/A	N/A	N/A
Peer Group Median	-0.06	3.21	3.34	2.41	2.13	2.04	3.83	4.52	1.67	1.53	1.67
Rank	38	100	86	N/A	N/A	N/A	83	84	N/A	N/A	N/A
Population	110	110	108	106	102	93	111	116	126	129	130







Portfolio Characteristics							
Portfolio	Benchmark						
1.55	1.96						
1.55	1.96						
1.56	2.00						
Aaa	Aaa/Aa1						
0.11	0.19						
1.46	1.32						
1.44	N/A						
15	298						
	Portfolio 1.55 1.55 1.56 Aaa 0.11 1.46 1.44						

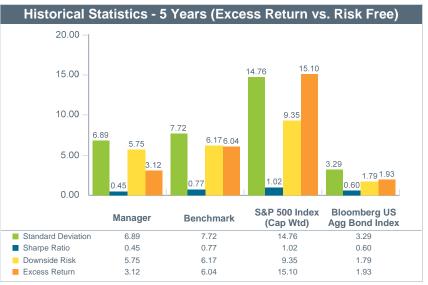


Performance shown is gross of fees and client specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Manager: Grosvenor Silvery Lupine Fund Benchmark: CS Western Euro Hi Yld Index

				Pe	rforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2020	2019	2018	2017	2016
Manager	0.27	4.50	0.43	4.12	N/A	N/A	-7.50	6.59	4.12	9.66	8.58
Benchmark	1.80	23.43	6.12	7.13	5.86	7.17	3.59	14.41	-1.08	8.41	11.29
Difference	-1.53	-18.93	-5.69	-3.01	N/A	N/A	-11.09	-7.82	5.20	1.25	-2.71



Actual Correlation - 5	Years
	Actual Correlation
CS Western Euro Hi Yld Index	0.79
S&P 500 Index (Cap Wtd)	0.68
Russell 2000 Index	0.71
MSCI EAFE Index (USD) (Net)	0.76
MSCI Emg Mkts Index (USD) (Net)	0.68
Bloomberg US Agg Bond Index	-0.32
Bloomberg US Trsy US TIPS Index	-0.12
NCREIF ODCE Index (AWA) (Gross)	0.29
Wilshire US REIT Index	0.70
HFRI FOF Comp Index	0.69
Bloomberg Cmdty Index (TR)	0.72
ICE BofAML 3 Mo US T-Bill Index	-0.34
Cons Price Index (Unadjusted)	0.03
CS Western Euro Hi Yld Index	0.79



Performance shown is net of fees and client specific. Calculation is based on quarterly periodicity.



March 31, 2021

Investment Policy Guidelines Meeting Objective Explanation

	Yes	No	N/A	Explanation
1. Total Fund				
Exceed the rate of inflation (C.P.I.) over a market cycle of 5-years.	✓			Wyoming returned 6.0% vs. 2.2% for the C.P.I. for the current 5-year period
Exceed a weighted index of the total fund's asset allocation and component benchmarks over rolling 5-year periods by an appropriate amount.	√			Wyoming returned 6.0% vs. 5.7% for the Total Fund Index for the current 5-year period
Not more than 1% of the outstanding common shares of any corporation shall be owned by the State. An exception may be made for Alternative Investments.	✓			
Not more than 1.5% of the total book value of permanent funds shall be invested in the common stock of any corporation. An exception may be made for Alternative Investments.	✓			



	Yes	No	N/A	Explanation
2. Investment Funds				
a) Permanent Mineral Trust Fund				
Exceed a weighted index of the Fund's asset allocation and component benchmarks over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: Permanent Mineral Trust Fund return was 7.6% vs. 7.4% for the Total Fund Index
b) Common School Permanent Land Fund				
Exceed a weighted index of the Fund's asset allocation and component benchmarks over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: Common School Permanent Land Fund return was 6.8% vs. 6.4% for the Total Fund Index
c) Permanent Land Fund				
Exceed a weighted index of the Fund's asset allocation and component benchmarks over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: Permanent Land Fund return was 7.5% vs. 7.3% for the Total Fund Index
d) University Permanent Land Fund				
Exceed a weighted index of the Fund's asset allocation and component benchmarks over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: University Permanent Land Fund return was 8.0% vs. 7.8% for the Total Fund Index
e) Hathaway Scholarship Endowment Fund				
Exceed a weighted index of the Fund's asset allocation and component benchmarks over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: Hathaway Scholarship Endowment Fund return was 7.1% vs. 7.0% for the Total Fund Index
f) Higher Education Endowment Fund				
Exceed a weighted index of the Fund's asset allocation and component benchmarks over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: Higher Education Endowment Fund return was 6.1% vs. 6.0% for the Total Fund Index
g) Workers Compensation Fund				
Exceed a weighted index of the Fund's asset allocation and component benchmarks over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: Workers Compensation Fund return was 6.7% vs. 6.2% for the Total Fund Index
h) Pool A				
Exceed a weighted index of the Fund's asset allocation and component benchmarks over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: Pool A return was 4.5% vs. 3.8% for the Total Fund Index
i) LSRA				
Exceed a weighted index of the Fund's asset allocation and component benchmarks over a full market cycle, approximated by the most recent 5-year period.			N/A	LSRA was funded during 2019.
j) State Agency Pool				
No public and/or private equities are permitted.	✓			
Exceed a weighted index of the Fund's asset allocation and component benchmarks over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: State Agency Pool return was 2.5% vs. 2.2% for the Actual Allocation Index



	Yes	No	N/A	Explanation
3. US Equity Portfolios				
a) State Street Global Advisors – All Cap – Passive				
A maximum of 5% or the benchmark weighting + 2%, whichever is greater, of the total stock portfolio of the investment manager be invested in any one company.	✓			Largest Holding: Apple = 5.76%
A maximum of 1% of the outstanding float of shares shall be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. For companies with market capitalizations of less than \$5 Billion, a maximum of 5% shall apply.	✓			
The maximum allowable in any sector, as defined by Global Industry Classification System Level 1, is 2.5 times the respective benchmark weighting.	✓			
A minimum number of 20 securities shall be held.	✓			
Meet performance of the State Street All Cap Custom Index, net of fees, over a full market cycle, approximated by the most recent five-year period.	✓			5-year: State Street return was 15.6% vs. 15.6% for the index
	Yes	No	N/A	Explanation
b) Internal Domestic Equity Quantamental – Broad US Equity				
A maximum of 5% or the benchmark weighting + 2%, whichever is greater, of the total stock portfolio of the investment manager be invested in any one company.			N/A	This account is in development as of 3/31.
A maximum of 1% of the outstanding float of shares shall be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. For companies with market capitalizations of less than \$5 Billion, a maximum of 5% shall apply.			N/A	
The maximum allowable in any sector, as defined by Global Industry Classification System Level 1, is 2.5 times the respective benchmark weighting.			N/A	
A minimum number of 20 securities shall be held.			N/A	
Exceed performance of the S&P 500 Index, net of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	
c) Internal Domestic Equity Quantatative - Broad US Equity				
A maximum of 5% or the benchmark weighting + 2%, whichever is greater, of the total stock portfolio of the investment manager be invested in any one company.			N/A	This account is in development as of 3/31.
A maximum of 1% of the outstanding float of shares shall be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. For companies with market capitalizations of less than \$5 Billion, a maximum of 5% shall apply.			N/A	
The maximum allowable in any sector, as defined by Global Industry Classification System Level 1, is 2.5 times the respective benchmark weighting.			N/A	
A minimum number of 20 securities shall be held.			N/A	
Exceed performance of the S&P 500 Index, net of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	



	Yes	No	N/A	Explanation
d) Van Berkom – Small Cap - Active				
The portfolio will achieve its goal primarily through the investment in a portfolio of 35 to 55 U.S. small-cap equity securities.	✓			
At the time of initial purchase, the market capitalization of the company's common stocks purchased will not exceed 0.023% of the total market capitalization of the S&P 500 Index. Furthermore, the Portfolio Manager may own up to 25% of the portfolio at market value in U.S. stocks that exceed 0.023% of the total market capitalization of the S&P 500 Index.	✓			
Individual Security = no more than 7% of account value Cash Position = no more than 5% of account value Sub-sector Limit = no more than 15% of the account value invested in a single sub-sector (Level IV of GICS sectors) GICS Sectors = minimum of 5 different GICS sectors (Level 1 GICS sectors)	✓			
Outperform the Russell 2000 Index, net of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 3/2020
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 3/2020
e) BlackRock Small Cap - Small Cap - Active				
A maximum of 5% or the benchmark weighting + 2%, whichever is greater, of the total stock portfolio of the investment manager be invested in any one company.	✓			Largest Holding: HB Fuller Co. = 1.01%
A maximum of 1% of the outstanding float of shares shall be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. For companies with market capitalizations of less than \$5 Billion, a maximum of 5% shall apply.	✓			
The maximum allowable in any sector, as defined by Global Industry Classification System Level 1, is 2.5 times the respective benchmark weighting.	✓			
A minimum number of 20 securities shall be held.	√			
Outperform performance of the Russell 2000 Index, net of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 08/2020
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 08/2020



	Yes	No	N/A	Explanation
f) Internal Small Cap Quantamental – Small Cap				
A maximum of 5% or the benchmark weighting + 2%, whichever is greater, of the total stock portfolio of the investment manager be invested in any one company.			N/A	This account is in development as of 3/31.
A maximum of 1% of the outstanding float of shares shall be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. For companies with market capitalizations of less than \$5 Billion, a maximum of 5% shall apply.			N/A	
The maximum allowable in any sector, as defined by Global Industry Classification System Level 1, is 2.5 times the respective benchmark weighting.			N/A	
A minimum number of 20 securities shall be held.			N/A	
Exceed performance of the Russell 2000 Index, net of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	
g) Internal Small Cap Quantatative – Small Cap				
A maximum of 5% or the benchmark weighting + 2%, whichever is greater, of the total stock portfolio of the investment manager be invested in any one company.			N/A	This account is in development as of 3/31.
A maximum of 1% of the outstanding float of shares shall be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. For companies with market capitalizations of less than \$5 Billion, a maximum of 5% shall apply.			N/A	
The maximum allowable in any sector, as defined by Global Industry Classification System Level 1, is 2.5 times the respective benchmark weighting.			N/A	
A minimum number of 20 securities shall be held.			N/A	
Exceed performance of the Russell 2000 Index, net of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	



	Yes	No	N/A	Explanation
4. International Equity Portfolios				
a) Northern Trust – Int'l – Passive				
A maximum of 5% or the benchmark weighting + 2%, whichever is greater, of the total stock portfolio of the investment manager be invested in any one company.	✓			Largest Holding: Tencent Ltd = 1.81%
A maximum of 1% of the outstanding float of shares shall be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. For companies with market capitalizations of less than \$5 Billion, a maximum of 5% shall apply.	✓			
The maximum allowable in any sector, as defined by Global Industry Classification System Level 1, is 2.5 times the respective benchmark weighting.	√			
A minimum number of 20 securities shall be held.	✓			
Meet performance of the MSCI ACW Ex US Index (Net), before fees, over a full market cycle, approximated by the most recent five-year period.	✓			5-year: Northern Trust gross of fees return was 9.9% vs. 9.8% for the MSCI ACW Ex US Index (Net)
	Yes	No	N/A	Explanation
b) Arrowstreet - Int'l Active				
A maximum of 5% or the benchmark weighting + 2%, whichever is greater, of the total stock portfolio of the investment manager be invested in any one company.	✓			Largest Holding: Samsung = 2.56%
A maximum of 1% of the outstanding float of shares shall be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. For companies with market capitalizations of less than \$5 Billion, a maximum of 5% shall apply.	✓			
The maximum allowable in any sector, as defined by Global Industry Classification System Level 1, is 2.5 times the respective benchmark weighting.	✓			
A minimum number of 20 securities shall be held.	✓			
Outperform the MSCI ACW Ex US IM Index (Net), net of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 03/2018
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 03/2018



	Yes	No	N/A	Explanation
c) Harding Loevner – Int'l Active				
A maximum of 5% or the benchmark weighting + 2%, whichever is greater, of the total stock portfolio of the investment manager be invested in any one company.	√			Largest Holding: Infineon Tech AG = 4.65%
A maximum of 1% of the outstanding float of shares shall be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. For companies with market capitalizations of less than \$5 Billion, a maximum of 5% shall apply.	✓			
The maximum allowable in any sector, as defined by Global Industry Classification System Level 1, is 2.5 times the respective benchmark weighting.	✓			
A minimum number of 20 securities shall be held.	✓			
Outperform the MSCI ACW Ex US Index (Net), net of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 01/2020
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 01/2020



	Yes	No	N/A	Explanation
5. Preferred Stock				
a) Cohen & Steers				
Minimum issue credit rating for preferred stock at the time of purchase will be BB or equivalent.	✓			The portfolio currently holds securities which are rated below BB. Retention of these securities in the portfolio is permitted pursuant to Section 7.2 of the Investment Policy.
A maximum of 35% of the total portfolio of the investment manager may be invested in securities rated below investment grade.	√			
A maximum of 10% of the total portfolio of the investment manager may be invested in any one issuer.	✓			
Outperform the S&P U.S. Preferred Stock Index, net of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 07/2018
	Yes	No	N/A	Explanation
6. MLPs				
a) Harvest				
A maximum of 15% or the benchmark weighting + 2%, whichever is greater, of the total portfolio may be invested in any one company.	✓			
Outperform the MLP Custom Index, net of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 08/2018
b) Harvest Passive				
A maximum of 15% or the benchmark weighting + 2%, whichever is greater, of the total portfolio may be invested in any one company.	✓			
Meet the MLP Custom Index, net of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 02/2020



	Yes	No	N/A	Explanation
7. Alternative Strategies				
Core Real Estate				
a) Clarion Lion				
Outperform the NCREIF Fund Index – Open-End Diversified Core Equity (ODCE), net of fees, over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: Clarion Lion net of fees return was 6.5% vs. 5.3% for the NCREIF ODCE Index (Net) (AWA)
The core portfolio shall consist of well-leased, high quality, income producing institutional properties.	✓			
The core portfolio shall be adequately diversified by geographical region, as well as by property type.	✓			
b) UBS Trumbull				
Outperform the NCREIF Fund Index – Open-End Diversified Core Equity (ODCE), net of fees, over a full market cycle, approximated by the most recent 5-year period.		×		5-year: UBS Trumbull net of fees return was 1.8% vs. 5.3% for the NCREIF ODCE Index (Net) (AWA)
The core portfolio shall consist of well-leased, high quality, income producing institutional properties.	✓			
The core portfolio shall be adequately diversified by geographical region, as well as by property type.	✓			
c) MS Prime				
Outperform the NCREIF Fund Index – Open-End Diversified Core Equity (ODCE), net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 10/2020
The core portfolio shall consist of well-leased, high quality, income producing institutional properties.	✓			
The core portfolio shall be adequately diversified by geographical region, as well as by property type.	✓			
Diversified Hedge Funds				
d) Grosvenor Diversified Hedge Funds				
Outperform the HFRI FOF Comp Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 07/2018
The portfolio shall be diversified across underlying hedge fund strategies and hedge fund managers.	✓			
e) Internal Diversified Hedge Funds				
Outperform the HFRI FOF Comp Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 07/2018
The portfolio shall be diversified across underlying hedge fund strategies and hedge fund managers.	✓			



	Yes	No	N/A	Explanation
8. Fixed Income Portfolios				
a) PIMCO – Core				
Obligations issued or guaranteed by the U.S. government, U.S. agencies or U.S. government- sponsored corporations and agencies are eligible without limit.	√			
All other issuers are subject to a 5% per issuer limit excluding investments in commingled vehicles.	✓			
Non-U.S. dollar denominated securities are permitted, but shall comprise no more than 10% of the portfolio market value.	✓			
Private mortgage-backed and asset-backed securities are limited to 10% of the portfolio market value.	√			
Commercial mortgage-backed securities are permitted but shall comprise no more than 10% of the portfolio market value.	✓			
Dollar denominated emerging market securities are permitted, but shall comprise no more than 10% of the portfolio market value.	√			
Investments in mortgage interest only and principal only securities or their derivations are permitted, but shall comprise no more than 5% of the portfolio market value.	✓			
Commercial paper of all issuers shall not exceed \$500,000,000.	✓			
A minimum number of 25 securities shall be held.	✓			
Duration must fall in the range of +/- 20% of the manager's primary benchmark, but not to exceed the duration of the Bloomberg Barclays U.S. Aggregate Bond Index or the Bloomberg Barclays Intermediate U.S. Aggregate Bond Index by more than 20%.	√			
Average portfolio credit quality must be at least A- or equivalent.	✓			
Minimum issue credit rating at time of purchase shall be:				
A1+ or equivalent for commercial paper;				
BBB- or equivalent for corporate bonds, Mortgage-Backed Securities, Commercial Mortgage-Backed Securities, Asset Backed Securities, Non-U.S. Dollar-Denominated Securities and Dollar-Denominated Emerging Market Securities.	√			
Outperform its Custom Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.	√			5-year: PIMCO net of fees return was 3.4% vs. 3.0% for the PIMCO Custom Index
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.		×		5-year: PIMCO ranked in the 69th percentile for Core Fixed Income



	Yes	No	N/A	Explanation
b) Internal Int. Govt Fixed Income Portfolio – Core				
Obligations issued or guaranteed by the U.S. government, U.S. agencies or U.S. government- sponsored corporations and agencies are eligible without limit.	✓			
All other issuers are subject to a 5% per issuer limit excluding investments in commingled vehicles.	✓			
Non-U.S. dollar denominated securities are permitted, but shall comprise no more than 10% of the portfolio market value.	✓			
Private mortgage-backed and asset-backed securities are limited to 10% of the portfolio market value.	✓			
Commercial mortgage-backed securities are permitted but shall comprise no more than 10% of the portfolio market value.	✓			
Dollar denominated emerging market securities are permitted, but shall comprise no more than 10% of the portfolio market value.	✓			
Investments in mortgage interest only and principal only securities or their derivations are permitted, but shall comprise no more than 5% of the portfolio market value.	✓			
Commercial paper of all issuers shall not exceed \$500,000,000.	✓			
A minimum number of 25 securities shall be held.	✓			
Duration must fall in the range of +/- 20% of the manager's primary benchmark, but not to exceed the duration of the Bloomberg Barclays U.S. Aggregate Bond Index or the Bloomberg Barclays Intermediate U.S. Aggregate Bond Index by more than 20%.	✓			
Average portfolio credit quality must be at least A- or equivalent.	✓			
Minimum issue credit rating at time of purchase shall be:				
A1+ or equivalent for commercial paper;				
BBB- or equivalent for corporate bonds, Mortgage-Backed Securities, Commercial Mortgage-Backed Securities, Asset Backed Securities, Non-U.S. Dollar-Denominated Securities and Dollar-Denominated Emerging Market Securities.	√			
Outperform the Internal Int. Gov Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: Int. Govt Fixed Income Portfolio net of fees return was 2.1% vs. return of 1.9% for the Internal Int. Gov Index
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.		×		5-year: Int. Govt Fixed Income Portfolio ranked in the 71st percentile for Government Fixed Income



	Yes	No	N/A	Explanation
c) Payden & Rygel – Core				
Obligations issued or guaranteed by the U.S. government, U.S. agencies or U.S. government-sponsored corporations and agencies are eligible without limit.	✓			
All other issuers are subject to a 5% per issuer limit excluding investments in commingled vehicles.	✓			
Non-U.S. dollar denominated securities are permitted, but shall comprise no more than 10% of the portfolio market value.	✓			
Private mortgage-backed and asset-backed securities are limited to 10% of the portfolio market value.	✓			
Commercial mortgage-backed securities are permitted but shall comprise no more than 10% of the portfolio market value.	✓			
Dollar denominated emerging market securities are permitted, but shall comprise no more than 10% of the portfolio market value.	✓			
Investments in mortgage interest only and principal only securities or their derivations are permitted, but shall comprise no more than 5% of the portfolio market value.	✓			
Commercial paper of all issuers shall not exceed \$500,000,000.	✓			
A minimum number of 25 securities shall be held.	✓			
Duration must fall in the range of +/- 20% of the manager's primary benchmark, but not to exceed the duration of the Bloomberg Barclays U.S. Aggregate Bond Index or the Bloomberg Barclays Intermediate U.S. Aggregate Bond Index by more than 20%.	✓			
Average portfolio credit quality must be at least A- or equivalent.	✓			
Minimum issue credit rating at time of purchase shall be: A1+ or equivalent for commercial paper;				
BBB- or equivalent for corporate bonds, Mortgage-Backed Securities, Commercial Mortgage-Backed Securities, Asset Backed Securities, Non-U.S. Dollar-Denominated Securities and Dollar-Denominated Emerging Market Securities.	✓			
Outperform the Payden & Rygel Custom Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 11/2019
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 11/2019



	Yes	No	N/A	Explanation
d) JPM MBS - Core				
Obligations issued or guaranteed by the U.S. government, U.S. agencies or U.S. government- sponsored corporations and agencies are eligible without limit.	✓			
All other issuers are subject to a 5% per issuer limit excluding investments in commingled vehicles.	✓			
Non-U.S. dollar denominated securities are permitted, but shall comprise no more than 10% of the portfolio market value.	✓			
Private mortgage-backed and asset-backed securities are limited to 10% of the portfolio market value.	✓			
Commercial mortgage-backed securities are permitted but shall comprise no more than 10% of the portfolio market value.	✓			
Dollar denominated emerging market securities are permitted, but shall comprise no more than 10% of the portfolio market value.	✓			
Investments in mortgage interest only and principal only securities or their derivations are permitted, but shall comprise no more than 5% of the portfolio market value.	✓			
Commercial paper of all issuers shall not exceed \$500,000,000.	✓			
A minimum number of 25 securities shall be held.	✓			
Duration must fall in the range of +/- 20% of the manager's primary benchmark, but not to exceed the duration of the Bloomberg Barclays U.S. Aggregate Bond Index or the Bloomberg Barclays Intermediate U.S. Aggregate Bond Index by more than 20%.	✓			
Average portfolio credit quality must be at least A- or equivalent.	✓			
Minimum issue credit rating at time of purchase shall be: A1+ or equivalent for commercial paper; BBB- or equivalent for corporate bonds, Mortgage-Backed Securities, Commercial Mortgage-	✓			
Backed Securities, Asset Backed Securities, Non-U.S. Dollar-Denominated Securities and Dollar-Denominated Emerging Market Securities.				
Outperform the Bloomberg US MBS Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 11/2019
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 11/2019



	Yes	No	N/A	Explanation
e) Credit Suisse – Bank Loans				
Obligations of specific issuers are subject to a 5% per issuer limit, excluding investments in commingled vehicles.	✓			
Duration must not exceed + 1 year of the S&P/LSTA Leveraged Loan Index.	✓			
Average portfolio credit quality must be at least B or equivalent.	✓			
Minimum issue credit rating at the time of purchase shall be: a) CCC or equivalent for individual securities; and b) Securities that are not rated shall be, in the judgment of the investment manager, of credit quality equal or superior to the standards described above.	1			
Outperform the S&P/LSTA Leveraged Loan Index., net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 09/2019
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 09/2019
	Yes	No	N/A	Explanation
f) Octagon – Bank Loans				
Obligations of specific issuers are subject to a 5% per issuer limit, excluding investments in commingled vehicles.	✓			
Duration must not exceed + 1 year of the S&P/LSTA Leveraged Loan Index.	✓			
Average portfolio credit quality must be at least B or equivalent.	✓			
Minimum issue credit rating at the time of purchase shall be: a) CCC or equivalent for individual securities; and b) Securities that are not rated shall be, in the judgment of the investment manager, of credit quality equal or superior to the standards described above.	1			
Outperform the S&P/LSTA Leveraged Loan Index., net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 09/2019



	Yes	No	N/A	Explanation
g) Grosvenor Silvery Lupine Fund – Opportunistic Fixed Income				
Outperform the CS Western European Hi Yld Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.		×		5-year: net of fees return was 4.1% vs 7.1% for the index
	Yes	No	N/A	Explanation
h) Global Evolution – Emerging Market Debt (Local Currency)				
Obligations of individual sovereign/quasi-sovereign issuers are subject to a 20% per issuer limit.	1			
Obligations of corporate issuers are subject to a 10% per issuer limit.	✓			
The investment manager, as part of managing the account, can take net investment positions of up to 20% of the portfolio in currency and currency forwards.	✓			
Duration must not be more than + 20% of the index.	✓			
Average portfolio credit quality must be BB+ or equivalent or better.	✓			
Minimum Issue Credit Rating at the time of purchase shall be: A1+ or equivalent for commercial paper; B- or equivalent for individual securities Where a security is not rated at the issue level, the issuer rating shall be relied upon.	✓			
Outperform the JPM GBI-EM GbI Dvf'd Index (USD) (TR) (Unhedged), net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 02/2020
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 02/2020



	Yes	No	N/A	Explanation
i) Global Evolution – Emerging Market Debt (Hard Currency)				
Obligations of individual sovereign/quasi-sovereign issuers are subject to a 20% per issuer limit.	✓			
Obligations of corporate issuers are subject to a 10% per issuer limit.	✓			
The investment manager, as part of managing the account, can take net investment positions of up to 20% of the portfolio in currency and currency forwards.	✓			
Duration must not be more than + 20% of the index.	1			
Average portfolio credit quality must be BB+ or equivalent or better.	✓			
Minimum Issue Credit Rating at the time of purchase shall be: A1+ or equivalent for commercial paper; B- or equivalent for individual securities Where a security is not rated at the issue level, the issuer rating shall be relied upon.	✓			
Outperform the JPM EMBIG Div Ex CCC (USD) Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 12/2020
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 12/2020



	Yes	No	N/A	Explanation
j) Eaton Vance – Emerging Market Debt				
Obligations of individual sovereign/quasi-sovereign issuers are subject to a 20% per issuer limit.	✓			
Obligations of corporate issuers are subject to a 10% per issuer limit.	✓			
The investment manager, as part of managing the account, can take net investment positions of up to 20% of the portfolio in currency and currency forwards.	✓			
Duration must not be more than + 20% of the index.	✓			
Average portfolio credit quality must be BB+ or equivalent or better.	✓			
Minimum Issue Credit Rating at the time of purchase shall be: A1+ or equivalent for commercial paper; B- or equivalent for individual securities Where a security is not rated at the issue level, the issuer rating shall be relied upon.	✓			
Outperform the JPM EMB (JEMB) Hard/Local 50/50 Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 01/2021
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 01/2021



	Yes	No	N/A	Explanation
k) Goldman Sachs – Emerging Market Debt (Corporate)				
Obligations of individual sovereign/quasi-sovereign issuers are subject to a 20% per issuer limit.	✓			
Obligations of corporate issuers are subject to a 10% per issuer limit.	√			
The investment manager, as part of managing the account, can take net investment positions of up to 20% of the portfolio in currency and currency forwards.	✓			
Duration must not be more than + 20% of the index.	1			
Average portfolio credit quality must be BB+ or equivalent or better.	✓			
Minimum Issue Credit Rating at the time of purchase shall be: A1+ or equivalent for commercial paper; B- or equivalent for individual securities Where a security is not rated at the issue level, the issuer rating shall be relied upon.	✓			
Outperform the JPM CEMBI Broad Div Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 03/2020
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 03/2020



	Yes	No	N/A	Explanation
I) Finisterre – Emerging Market Debt				
Obligations of individual sovereign/quasi-sovereign issuers are subject to a 20% per issuer limit.	√			
Obligations of corporate issuers are subject to a 10% per issuer limit.	✓			
The investment manager, as part of managing the account, can take net investment positions of up to 20% of the portfolio in currency and currency forwards.	✓			
Duration must not be more than + 20% of the index.	1			
Average portfolio credit quality must be BB+ or equivalent or better.	✓			
Minimum Issue Credit Rating at the time of purchase shall be: A1+ or equivalent for commercial paper; B- or equivalent for individual securities Where a security is not rated at the issue level, the issuer rating shall be relied upon.	√			
Outperform the EMD 1/3 Blend Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 03/2021
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 03/2021



	Yes	No	N/A	Explanation
m) Metlife – Long Duration Credit				
Obligations issued or guaranteed by the U.S. government, U.S. agencies or U.S. government- sponsored corporations and agencies are eligible without limit.	✓			
All other issuers are subject to a 5% per issuer limit excluding investments in commingled vehicles	✓			
A maximum of 30% of the portfolio may be invested in U.S. dollar denominated non-U.S. fixed income securities.	✓			
A maximum of 10% of the portfolio may be invested in U.S. dollar denominated emerging market securities.	✓			
A maximum of the appropriate benchmark plus 5% of the portfolio may be invested in convertible and municipal securities.	✓			
Average portfolio quality will be BBB+ or better. Securities shall be rated investment grade at time of purchase.	✓			
Outperform the Bloomberg US Long Credit Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 11/2018
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 11/2018
	Yes	No	N/A	Explanation
n) Internal Long Duration – Long Duration Government				
Obligations issued or guaranteed by the U.S. government, U.S. agencies or U.S. government- sponsored corporations and agencies are eligible without limit.	✓			
All other issuers are subject to a 5% per issuer limit excluding investments in commingled vehicles	✓			
A maximum of 30% of the portfolio may be invested in U.S. dollar denominated non-U.S. fixed				
income securities.	√			
	✓			
income securities. A maximum of 10% of the portfolio may be invested in U.S. dollar denominated emerging market securities. A maximum of the appropriate benchmark plus 5% of the portfolio may be invested in convertible and municipal securities.	ľ			
income securities. A maximum of 10% of the portfolio may be invested in U.S. dollar denominated emerging market securities. A maximum of the appropriate benchmark plus 5% of the portfolio may be invested in convertible and municipal securities. Average portfolio quality will be BBB+ or better. Securities shall be rated investment grade at time of purchase.	√			
income securities. A maximum of 10% of the portfolio may be invested in U.S. dollar denominated emerging market securities. A maximum of the appropriate benchmark plus 5% of the portfolio may be invested in convertible and municipal securities. Average portfolio quality will be BBB+ or better. Securities shall be rated investment grade at time	✓ ✓		N/A	Inception date: 01/2019



	Yes	No	N/A	Explanation
o) Internal Low Duration – Low Duration Government				
Obligations issued or guaranteed by the U.S. government, U.S. agencies or U.S. government- sponsored corporations and agencies are eligible without limit.	✓			
All other issuers are subject to a 5% per issuer limit excluding investments in commingled vehicles	✓			
Corporate securities will be subject to a maximum limit of 20%.	✓			
Portfolio duration must be within plus or minus 30% of the Bloomberg Barclays US Gov't: 1-3 Year Bond Index.	✓			
Average portfolio quality will be A or better.	√			
Outperform the Bloomberg US Gov 1-3 Year Bond Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.			N/A	Inception date: 03/2018
Performance should rank in the top 40th percentile of peer manager universe as measured by the State's Consultant, gross of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 03/2018



	Yes	No	N/A	Explanation
9. Cash and Cash Equivalents Portfolios				
JP Morgan Cash Composite*				
a) JP Morgan Treasury Cash				
The portfolio's weighted average maturity shall not exceed 90 days.	✓			
All securities shall have a maximum maturity of 365 days.	✓			
The maximum average cash flow weighted duration of the portfolio shall not exceed 90 days.	✓			
The market value of the portfolio shall remain within +/- 0.5% of 1.0% of amortized cost.	✓			
A maximum of 5% of total assets may be placed in securities of one issuer except for government securities.	√			
Investment in any single issuer must not exceed 5% of the outstanding issues of that issuer.	✓			
Investment performance must exceed Monitored Repurchase Agreement Rate and the cash equivalents allocation by the 90-day T-Bill rate, net of fees, over a full market cycle, approximated by the most recent 5-year period.		×		5-year: JP Morgan Treasury Cash net of fees return was 1.1% vs. 1.2% for the ICE BofAML 3 Mo US T-Bill Index

^{*}During the fourth quarter of 2011, JP Morgan Treasury Cash and JP Morgan Treasury Extended Cash were combined. Net of fees performance shown consists of performance calculated by RVK, Inc. prior to 12/31/2011 and performance calculated by JP Morgan thereafter.



	Yes	No	N/A	Explanation
JP Morgan Wyo-Star Cash Composite*				
b) JP Morgan Wyo-Star Cash				
The portfolio's weighted average maturity is not to exceed 90 days.	✓			
All securities must have a maximum maturity of 365 days.	✓			
The maximum average cash flow weighted duration of the portfolio must not exceed 90 days.	✓			
The market value of the portfolio must remain within +/- 0.5% of 1% of amortized cost.	✓			
A maximum of 5% of total assets may be placed in securities of one issuer except for government securities.	✓			
Investment performance must exceed Monitored Repurchase Agreement Rate and the cash equivalents allocation by the 90-day T-Bill rate, net of fees, over a full market cycle, approximated by the most recent 5-year period.		×		5-year: JP Morgan Wyo-Star Cash net of fees return was 1.0% vs. 1.2% for the ICE BofAML 3 Mo US T-Bill Index
c) JP Morgan Wyo-Star Extended Cash				
Maximum average cash flow weighted duration is not to exceed 3 years.	✓			
Individual securities must not exceed a cash flow weighted duration of 5 years.	✓			
A maximum of 5% of total assets may be placed in securities of one issuer except for government securities.	✓			
Investment Performance must exceed an Equal Weighted Blend of the BofA Merrill Lynch 1-3 Year Agency, 1-3 Year Treasury, and a 0-3 Year Mortgage Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: JP Morgan Wyo-Star Extended Cash net of fees return was 1.8% vs. 1.8% for the Blended Index
The extended portion of WYO-STAR may not exceed 35% of the market value of the portfolio at the time of purchase.	✓			

^{*}During the fourth quarter of 2011, JP Morgan Wyo-Star Cash and JP Morgan Wyo-Star Extended Cash were combined. Net of fees performance shown consists of performance calculated by RVK, Inc. prior to 12/31/2011 and performance calculated by JP Morgan thereafter.



Addendum & Glossary



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Custom Benchmark Comments

The Wyoming State Total Fund Index and Pool Total Fund Indices are calculated using target asset class weights applied to the appropriate asset class benchmark return, using the S&P 500 Index for US all cap equities, the Russell 2000 Index for US small cap equity, MSCI ACW Ex US Index (Net) for international equities, MLP Custom Index for MLPs, Bloomberg US Agg Bond Index for core fixed income, S&P/LSTA Lvg'd Loan Index for bank loans, EMD Blended Benchmark for EMD, NCREIF Open-End Diversified Core Equity Index for real estate, the State's actual private equity investment returns for private equity, HFRI FOF Comp Index for Diversified Hedge Funds, and ICE BofA Merrill Lynch 90 day US T-Bill rate for cash equivalents.

- The Wyoming State Custom Index is calculated using beginning month asset class weights applied to the appropriate asset class benchmark return through 12/31/2019. As of 01/01/2020, the Index is calculated using the weighted average of the respective Investment Funds' Target Allocation Indices.
- The All Cap US Equity Custom Index consists of the Russell 3000 Index through 02/29/2020, and the S&P 500 Index thereafter.
- The MLP Custom Index consists of the S&P MLP Index (TR) through 06/30/2019, the Alerian MLP Index through 12/31/2019, and 50% Alerian MLP Index / 50% Alerian Midstream Energy Index thereafter.
- The International Equity Custom Index consists of the MSCI EAFE Index (USD) (Gross) through July 2010 and the MSCI ACW Ex US Index (USD) (Net) thereafter.
- The Internal Intermediate Govt Fixed Income Portfolio Index currently consists of the Bloomberg US Treasury Index. November 2019 performance consists of the Internal Intermediate Govt Fixed Income Portfolio. Prior to November 2019, the index consists of Bloomberg US Gov't Int Term Bond Index. Prior to December 2009, the index consisted of the Bloomberg US Gov't Crdt Bond Index.
- The PIMCO Custom Index consists of the Bloomberg US Agg Bond Index through February 2018, the Bloomberg US Agg Int Index through June 2019, the Bloomberg US Agg Bond Index through 03/26/2020, account performance from 03/27/2020 through 04/03/2020, and the Bloomberg US Agg Bond Index thereafter.
- The Low Duration Fixed Income Custom Index consists of the Bloomberg US Gov't Crdt 1-3 Yr Bond Index through 06/30/2019 and the Bloomberg US Gov't 1-3 Yr Bond Index thereafter.
- The State Street All Cap Custom Index consists of 69% Russell 3000 Index, 24% FTSE RAFI US 1000 Index, and 7% MSCI US Min Vol Index (USD) (Gross) through 02/27/2020, State Street All Cap account performance on 02/28/2020, and the S&P 500 Index thereafter.
- The EMD Custom Index consists of the JPM GBI-EM GbI Dvf'd Index through 02/29/2020, 70% JPM GBI-EM GbI Dvf'd Index / 30% JPM CEMBI Brd Dvf'd Index thereafter through 11/30/2020, and 1/3 JPM GBI-EM GbI Dvf'd Index, 1/3 JPM CEMBI Brd Dvf'd Index, and 1/3 JPM EMBI GbI Dvf'd Index thereafter.
- The JP Morgan EMB (JEMB) Hard Currency/Local Currency 50/50 consists of 50% JPM GBI-EM GbI Dvf'd Index, 25% JPM CEMBI Brd Dvf'd Index, and 25% JPM EMBI GbI Dvf'd Index.
- The Goldman Sachs Index consists of JPM CEMBI Brd Dvf'd Index through 11/22/2020, account performance from 11/23/2020 through 11/30/2020, and the JPM CEMBI Brd Dvf'd Index threeafter.
- The Payden & Rygel Custom Index consists of the Bloomberg US Corp Inv Grade Index through 03/25/2020, account performance from 03/26/2020 through 03/31/2020, and Bloomberg US Corp Inv Grade Index thereafter.
- Opportunistic Investments Index: The Opportunistic Investments Index is the weighted average of the permanent funds' target allocation indices, excluding the opportunistic allocation.
- Performance shown for the JP Morgan Cash Composite and the Wyo-Star Cash Composite consists of the respective operating and extended cash accounts.
- The JP Morgan Cash Custom Index is calculated monthly using beginning of the month investment weights applied to each corresponding primary benchmark return. The primary benchmark for JP Morgan Cash is the ICE BofAML 3 Mo US T-Bill Index and for JP Morgan Extd is the JP Morgan Blended Index through 06/30/2019, and the ICE BofAML 3 Mo US T-Bill Index thereafter.
- The Wyo-Star Cash Custom Index is calculated monthly using beginning of the month investment weights applied to each corresponding primary benchmark return. Currently, the primary benchmark for Wyo-Star Cash is the ICE BofAML 3 Mo US T-Bill Index and for Wyo-Star Extd is the JP Morgan Blended Index.

Performance & Holding Comments

RVK, Inc. shows performance beginning with the first full month following inception. Inception date shown for the Int'l Equity and JP Morgan Cash Composites represents the first date of performance calculated by RVK, Inc.

Performance shown for Pooled Funds is calculated on a capital-weighted basis using beginning-period allocations and does not reflect net cash flows.

Performance shown for the UW Portfolio Management Program prior to 07/01/2009 includes their participation in the State Agency Pool. Performance calculated for the UW Portfolio Management Program after 02/01/2013 has not been verified by RVK as the assets have been moved to a platform in which the custodian does not provide a reconcilable return.

Performance for the Internal Intermediate Govt Fixed Income Portfolio excludes distressed securities taken in-kind following the liquidation of WAMCO Core Plus.

Performance shown for the JP Morgan Cash Composite and the Wyo-Star Cash Composite consists of the respective operating and extended cash accounts.

Due to portfolio turnover, buy and hold attribution may not accurately represent quarterly performance relative to the benchmark.

Composite performance shown for Fixed Income is historically exclusive of convertibles.



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Alternative Investment Comments

Reporting for Private Equity performance was changed from cost basis to the latest portfolio valuation adjusted for cash flows, consistent with the supplementary alternatives report. This methodology change involved reflecting the difference between cost value and the most recent valuation, resulting in a significant positive performance impact on the total fund during 2nd quarter 2008.

Valuations for non-core real estate and private equity were changed from a one-quarter lag to as of the most recent valuation, adjusted for subsequent cash flows. This methodology change involved reflecting all cash flows occurring during 4th quarter 2011 as of January 2012, resulting in a minor positive performance impact on the total fund during 1st quarter 2012. Investment (Cost) Values are not lagged.

Performance for non-core real estate and private equity investments is calculated on an IRR basis. For further analysis, please refer to the supplementary alternatives performance report.

Cheyenne Capital Fund valuations set forth herein could be materially different once underlying investments are realized. Market conditions at the time of exit could be substantially different than at the reporting period, resulting in valuations different than those represented above.

Miscellaneous Comments

Wyoming State Treasurer's Office fiscal year ends on June 30th.

Fixed Income style peer groups have low populations, and may cause ranks to change significantly from quarter to quarter.

"IM" is the acronym for Investment Metrics, the provider of peer group data used in ranking investment manager and asset class performance.

During the 4th quarter of 2012, WAMCO Core Plus, Neuberger Berman Core Plus, PIMCO Core Plus, PIMCO Mortgages, JP Morgan Mortgages, WAMCO Corporates, Logan Circle, and PIMCO Global/EM began the liquidation process to transition assets to the State's new fixed income asset class structure. The proceeds were used to fund State Street TIPS, C.S. McKee, JP Morgan Core, MacKay Shields, Neuberger Berman Core, PIMCO Core, and Wells Capital. During the 1st quarter of 2013, additional assets were transitioned to Neuberger Berman Credit, Seix, Investec, and Stone Harbor.

During the 4th quarter of 2014, State Street S&P 500 and Gabelli began the liquidation process to transition assets to the State's new US equity asset class structure. The proceeds were used to fund State Street All Cap, Epoch, Lazard, and RBC. During the 1st quarter of 2015, additional assets were transitioned to Arrowstreet.

During the 4th guarter of 2015, the Workers Compensation Fund was reclassified as a Permanent Fund.

During the 1st quarter of 2016, the State funded the Internal International Equity Portfolio, using proceeds from the liquidation of The Boston Company.

During the 3rd quarter of 2016, Bloomberg acquired the Barclays Global Family of Fixed Income Indices. Naming conventions have been updated to "Bloomberg" to reflect the acquisition.

During the 3rd quarter of 2016, MacKay Shields began the liquidation process, with proceeds used to increase allocations to C.S. McKee and the Internal Intermediate Govt Fixed Income Portfolio.

During the 1st quarter of 2017, Neuberger Berman Core and Wells Capital began their respective liquidation processes.

During the 2nd quarter of 2017, Manning & Napier began the liquidation process.

During the 4th quarter of 2017, Lazard began the liquidation process.

During the 4th quarter of 2017, Intercontinental Exchange (ICE) acquired the BofA Merrill Lynch Global Research FICC index platform. As a result, all BofA Merrill Lynch indices have been rebranded to "ICE BofA Merrill Lynch".

During the 1st guarter of 2018, Arrowstreet was reclassified as International Equity and the Internal Low Duration portfolio was funded.

During the 2nd quarter of 2018, Cohen & Steers, Grosvenor Diversified Hedge Funds, and Internal Diversified Hedge Funds were funded.



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Miscellaneous Comments (Continued)

During the 2nd quarter of 2018, the Hybrid Assets Composite was created for convertibles, preferred stock, and MLPs.

During the 2nd quarter of 2018, RBC began the liquidation process.

During the 3rd quarter of 2018, Internal Equity Russell 2000 was funded.

During the 3rd quarter of 2018, Harvest was funded.

During the 4th quarter of 2018, Logan Circle, Internal Long Duration Fixed Income Portfolio, and State Street Low Duration were funded.

During the 1st quarter of 2019, Epoch began the liquidation process.

During the 2nd quarter of 2019, Allianz, Stone Harbor, Fisher, JPM Core, NB Credit, Seix, State Street TIPS, and State Street Low Duration began the liquidation process.

During the 3rd quarter of 2019, Credit Suisse, Octagon, and Internal Ladder Portfolio were funded.

During the 4th quarter of 2019, Harding Loevner, State Street Russell 2000, Harvest Passive, Payden & Rygel, and JPM MBS were funded, and CS McKee began the liquidation process.

During the 1st quarter of 2020, Van Berkom was funded.

During the 2nd quarter of 2020, Grosvenor D was funded.

During the 3rd quarter of 2020, MS Prime and BlackRock Small Cap were funded.

During the 4th quarter of 2020, Eaton Vance and Global Evolution Hard were funded.

During the 1st quarter of 2021, Finisterre was funded.



INVESTMENT MANAGER PEER GROUP GLOSSARY

- **IM U.S. All Cap Equity (SA+CF):** The **U.S. All Cap Equity** universe includes products with a higher growth bias, products with a higher value bias, and products where the investment strategy permits investments in both value and growth equity securities across the complete Russell 3000 market cap spectrum.
- IM U.S. Large Cap Core Equity (SA+CF): The U.S. Large Cap Core Equity universe includes products where the investment strategy can best be described as benchmark driven rather than style driven and can include a blend of both value and growth considerations. The weighted average market cap is in excess of \$10 billion.
- **IM U.S. Small Cap Core Equity (SA+CF):** The **U.S. Small Cap Core Equity** universe includes products where the investment strategy can best be described as benchmark driven rather than style driven and can include a blend of both value and growth considerations. The weighted average market is between \$300 million and \$2 billion.
- **IM All ACWI ex US (SA+CF):** The **All ACWI ex US** universe includes products where the investment strategy can be best described as benchmark driven and includes products investing in growth and value securities across the MSCI ACW Ex US Index.
- **IM U.S. Broad Mkt Core Fixed Income (SA+CF):** The **U.S. Broad Mkt Core Fixed Income** universe includes products where the portfolio weighted average duration is greater than or equal to 4 years and less than 6 years. The average maturity can be between 3 and 8 years. The allocation to high yield bonds or emerging market debt is less than or equal to 5%.
- **IM Emerging Markets Debt (SA+CF):** The **Emerging Markets Debt** universe includes products where the combined market allocation to emerging market debt in Asia, Africa/Europe and Latin America is approximately 75% or more. The JP Morgan Emerging Markets Bond and EMBI+ are commonly used benchmarks.
- **IM U.S. Government Bonds (SA+CF):** The **U.S. Government Bonds** universe includes products where the investment style focuses on government bonds and the sector allocation to them is greater than or equal to 75%. The Barclays Capital U.S. Government or Government: Intermediate are commonly used benchmarks.
- **IM U.S. Short Duration Fixed Income (SA+CF):** The **U.S. Short Duration Fixed Income** universe includes products where the portfolio weighted average duration is greater than or equal to 1 year and less than 2.5 years. The average maturity is between 1 and 3 years.
- **IM U.S. Long Duration Fixed Income (SA+CF):** The **U.S. Long Duration Fixed Income** universe includes products where the portfolio weighted average duration is greater than or equal to 6 years. The average maturity can be greater than 6 years.
- **IM U.S. Bank Loans (SA+CF):** The **U.S. Bank Loans** universe includes products where the sector allocation to bank loans is greater than or equal to 75%. The S&P/LSTA Leverage Loan Index or Credit Suisse Leveraged Loan Index are commonly used benchmarks.



Active Return - The difference between the investment manager/composite performance relative to the performance of an appropriate market benchmark

Active Share - Measures the degree to which the holdings of a fund differ from the holdings of the benchmark. Active share is calculated by taking the sum of the absolute value of the differences of the weight of each holding in the fund versus the weight of each holding in the benchmark and dividing by two.

Alpha - A measure of the difference between a portfolio's actual returns and its expected performance, given its level of risk as measured by beta. It is a measure of the portfolio's historical performance not explained by movements of the market or a portfolio's non-systematic return.

Alpha Ratio - A measure of a portfolio's non-systematic return per unit of downside risk. It is measured by dividing the alpha of a portfolio by the downside risk. The non-systematic return is a measure of a portfolio's historical performance not explained by movements of the market.

Average Quality - Bond quality ratings are reported using the investment managers' and the index providers' preferred rating agency. *Average Quality for managers unable to provide this statistic is instead provided by Morningstar; if unavailable on Morningstar, it has been estimated using a credit quality distribution provided by the manager.* There are two primary rating agencies in the US. *Moody's* assigns ratings on a system that employs up to four symbols (consisting of letters and numbers), such as, Aaa, Aa2, etc., with Aaa being the highest or safest rating. *Standard & Poor's (S&P)* employs a system that uses + and - along with letters, such as AAA, AA+, etc. The two rating agencies' systems are summarized below:

S&P	Moody's	Explanation	S&P	Moody's	Explanation
Higher Cr	edit Quality – I	nvestment Grade	Lower Cr	edit Quality – E	Below Investment Grade
AAA	Aaa	Prime/Highest credit quality	BB+	Ba1	Speculative/Low credit quality
AA+	Aa1	High credit quality	BB	Ba2	
AA	Aa2		BB-	Ba3	
AA-	Aa3		B+	B1	Highly speculative
A+	A1	Upper-medium credit quality	В	B2	
Α	A2		B-	B3	
A-	A3		CCC+	Caa1	Substantial credit/default risk
BBB+	Baa1	Lower-medium credit quality	CCC	Caa2	Extremely speculative
BBB	Baa2		CCC-	Caa3	
BBB-	Baa3		CC	Ca	Vulnerable to default
			С	Ca	
			D	С	In default

Benchmark Effect - The difference between the blended return of each respective managers' benchmark within a composite and the composite's benchmark return.

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

Box Plots - A graphical representation of the distribution of observations. From top to bottom, the four boxes represent the spread between the maximum value and the minimum value in each quartile. A quartile represents the values that divide the observations into four quarters (i.e., 1st quartile, 2nd quartile, 3nd quartile, and 4th quartile). The median observation is where the 2nd quartile and 3nd quartile meet.

Buy and Hold Attribution - At the beginning of the time period under analysis, the manager and benchmark portfolios are broken down into segments (i.e., styles, sectors, countries, and regions) based on the desired type of attribution. The formula assumes zero turn-over to the manager and benchmark portfolios throughout the period and calculates the segment returns ("buy and hold returns") to arrive at performance attribution. Due to portfolio turnover, buy and hold attribution may not accurately represent quarterly performance relative to the benchmark. Country, region, sector, and style allocations are as of the date one quarter prior to the reporting date, and the returns shown are for those segments throughout the quarter reported. Due to disclosure guidelines set by each investment manager, equity characteristics shown are as of the most recent date available. The following is the methodology for segment classification:

Sector - Attribution is calculated using the Global Industry Classification Standard (GICS), which is a detailed and comprehensive structure for sector and industry analysis. Stocks are classified by their primary sector as defined by S&P Capital IQ data.

Country/Region - Attribution is calculated using the Morgan Stanley Capital International (MSCI) region standards. Stocks are classified by their domicile country/region, as defined by S&P Capital IQ data, and thus may differ from the classification of the investment manager and/or index provider.

Style - Stocks are classified into the following style boxes: large/mid/small vs. growth/neutral/value. Stocks are classified along large/mid/small categories at the time of the Russell index rebalancing, using the index market cap boundaries as cutoff points. Stocks are classified along growth/neutral/value categories at the time of the Russell index rebalancing, using the price/book ratio as supplied by S&P Capital IQ. Stocks in the Russell 3000 Index portfolio are sorted by price/book ratio; names with the highest price/book ratio that make up 1/3 of the total market capitalization are assigned to the growth category, and names that make up the subsequent 1/3 of the total market capitalization are assigned to the names are assigned to the value category. Stocks are unclassified when there is not enough data to determine a size and style metric.

Portfolio Characteristics and Buy and Hold Attribution reports utilize product-specific data for all mutual funds and commingled funds.

Capital Markets Review -

Breakeven Inflation - Measures the expected inflation rate at each stated maturity by taking the difference between the real yield of the inflation-linked maturity curve and the yield of the closest nominal Treasury maturity.

Consumer Confidence - Measures domestic consumer confidence as defined by the degree of optimism on the state of the economy that consumers express through saving and spending.

Consumer Price Index (CPI) - Measures the change in the price level of consumer goods and services.



Federal Funds Rate - The interest rate at which a depository institution lends funds maintained at the Federal Reserve to another depository institution overnight. It is one of the most influential interest rates in the US economy, since it affects monetary and financial conditions, which in turn have a bearing on key aspects of the broad economy including employment, growth and inflation.

Option-Adjusted Spread - Measures the flat spread of an index or bond to the Treasury yield curve after removing the effect of any embedded options.

Purchasing Managers Index (PMI) - Measures economic activity by surveying purchasing managers on a monthly basis as to whether business conditions have improved, worsened, or stayed the same.

Real Gross Domestic Product (Real GDP) - An inflation-adjusted measure that reflects the value of all goods and services produced by an economy in a given year.

Unemployment Rate - The percentage of the total labor force that is unemployed but actively seeking employment.

US Dollar Total Weighted Index - Measures the value of the US Dollar relative to a basket of other world currencies. It is calculated as the weighted geometric mean of the dollar's value versus the EUR, GBP, CAD, SEK, CHF, and JPY.

VIX - Measures the implied volatility of S&P 500 Index options by looking at the market's expectation of the S&P 500 Index volatility over the next 30 day period. Commonly referred to as the "fear index" or the "fear gauge."

Cash Flow Effect - The composite's active return minus the sum of each managers' active return minus the benchmark effect.

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

Convexity - A measure of the shape of the curve that describes the relationship between bond prices and bond yields.

Correlation - A statistical measure of the relationship between asset class returns. A value of 1.00 is a perfect correlation; that is, the asset classes always move in the same direction. A value of -1.00 indicates a perfect negative correlation, in which the asset classes always move in opposite directions of each other. A value of 0 indicates there is no relationship between the direction of returns of the two asset classes. Correlation calculations only consider the direction of changes relative to two variables and not the magnitude of those changes.

Coupon Rate - The percentage rate of interest paid on a bond or fixed income security; it is typically paid twice per year.

Current Yield - The annual income of a security divided by the security's current price.

Down Market Capture - Down market by definition is negative benchmark return and down market capture represents the ratio in % terms of the average portfolios return over the benchmark during the down market period. The lower the value of the down market capture the better the product's performance.

Downside Risk - A measure similar to standard deviation that focuses only on the negative movements of the return series. It is calculated by taking the standard deviation of the negative returns for the selected periodicity. The higher the factor, the riskier the product.

Earnings Per Share - It is backward looking, calculated using the one year current EPS divided by the one year EPS five years ago.

Effective Duration - The approximate percentage change in a bond's price for a 100 basis point change in yield.

Excess Return vs. Market - Average of the monthly arithmetic difference between the manager's return and the benchmark return over a specified time period, shown on an annualized basis.

Excess Return vs. Risk Free - Average of the monthly arithmetic difference between the manager's return and the risk-free return (i.e., ICE BofAML 3 Mo US T-Bill Index unless specified otherwise) over a specified time period, shown on an annualized basis.

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

Expense Ratios - Morningstar is the source for mutual fund expense ratios.

Gain/Loss - The net increase or decrease in the market value of a portfolio excluding its Net Cash Flow for a given period.

Indices - All indices and related information are considered intellectual property and are licensed by each index provider. The indices may not be copied, used, or distributed without the index provider's prior written approval. Index providers make no warranties and bear no liability with respect to the indices, any related data, their quality, accuracy, suitability, and/or completeness.

Information Ratio - Measured by dividing the active rate of return by the tracking error. The higher the information ratio, the more value-added contribution by the manager.

Liability Driven Investing (LDI) - A method to optimally structure asset investments relative to liabilities. The change in liabilities is estimated by the Ryan Labs Generic PPA Index of appropriate duration for that Plan. This benchmark is based on generic data and is therefore an approximation. RVK is not an actuarial firm, and does not have actuarial expertise.

Estimated Funded Status - The estimated ratio of a Plan's assets relative to its future liabilities. This is calculated by dividing the Plan's asset market value by the estimated present value of its liabilities. The higher the estimated funded status, the better the Plan's ability to cover its projected benefit obligations. An estimated funded status of 100% indicates a Plan that is fully funded.

Estimated PV of Liabilities - An estimate of a Plan's future liabilities in present value terms. The beginning of the period liability is provided by the Plan's actuary. The period-end present value liability estimate provided in this report is derived by applying the estimated percentage change generated using the Ryan Labs Generic PPA Index with duration similar to that reported on the most recent actuarial valuation report.

Duration of Liabilities - The sensitivity of the value of a Plan's liabilities to changes in interest rates, as calculated by the Plan's actuary.

Duration of Assets - The dollar-weighted average duration of all the individual Plan assets.

Estimated Plan Hedge Ratio - The estimate of how well a Plan's investment portfolio is hedged against changes in interest rates - a primary driver of funded status movements. This is calculated by dividing the dollar-weighted values of both the Plan asset duration by the liability duration and



multiplying by the estimated funded status. An estimated plan hedge ratio of zero indicates that the Plan's liabilities have not been hedged, whereas a value of one indicates fully hedged.

Modified Duration - The approximate percentage change in a bond's price for a 100 basis point change in yield, assuming the bonds' expected cash flows do not change.

Mutual Fund Performance - Whenever possible, manager performance is extended for any share class that does not have 10 years of history. Using Morningstar's methodology, a single ticker within the same fund family (often the oldest share class) is chosen to append historical performance.

Net Cash Flow - The sum, in dollars, of a portfolio's contributions and withdrawals. This includes all management fees and expenses only when performance shown is gross of fees.

Peer Groups -

Plan Sponsor Peer Groups - RVK utilizes the Mellon Analytical Solutions Trust Universe along with the Investment Metrics Plan Sponsor Universe. The combined Mellon Analytical Solutions Trust Universe and Investment Metrics Plan Sponsor Universe is used for comparison of total fund composite results and utilizes actual client performance compiled from consultant and custodian data. The Plan Sponsor Peer Group database includes performance and other quantitative data for over 2,100 plans which include corporate, endowment, foundation, public, and Taft Hartley plans.

Investment Manager Peer Groups - RVK utilizes Investment Metrics' Peer Groups for investment manager peer comparison and ranking. The Investment Metrics Peer Group database includes performance and other quantitative data for over 840 investment management firms and 29,000 investments products, across more than 160 standard peer groups. Mutual Fund Peer Groups are net of fees.

Percentile Rankings - Percentile rank compares an individual fund's performance with those of other funds within a defined peer group of managers possessing a similar investment style. Percentile rank identifies the percentage of a fund's peer group that has a higher return (or other comparative measurement) than the fund being ranked. Conversely, 100 minus the individual fund's ranking will identify the percentage of funds within the peer group that have a lower return than the fund being ranked.

1 - Highest Statistical Value 100 - Lowest Statistical Value

Example: American Funds AMCP;R-4 (RAFEX) is ranked in the 4th percentile within the IM US Equity Large-Cap Growth Funds (MF) Peer Group for the Sharpe Ratio. Within the IM US Equity Large-Cap Growth Funds peer group, 4% of the other funds performed better than American Funds AMCP;R-4 (RAFEX), while 96% of the funds performed worse.

Performance Methodology - RVK calculates performance for investment managers and composites using different methodologies.

Investment Managers - Performance is calculated for interim periods between all large external cash flows for a given month and geometrically linked to calculate period returns. An external cash flow is defined as cash, securities, or assets that enter or exit a portfolio. RVK defines a "large cash flow" as a net aggregate cash flow of ≥10% of the beginning-period portfolio market value or any cash flow that causes RVK calculated performance to deviate from manager/custodian reported performance in excess of 5 basis points for a given month.

Composites - The Modified Dietz methodology is utilized to calculate asset class, sub-asset class, and total fund composite performance. The Modified Dietz method calculates a time-weighted total rate of return that considers the timing of external cash flows; however, it does not utilize interim period performance to mitigate the impact of significant cash in- and outflows to the composite.

RVK calculates performance beginning with the first full month following inception. Since inception performance may vary from manager reported performance due to RVK using the first full month of returns as the inception date. Performance for both managers and composites is annualized for periods greater than one year.

Portfolio Characteristics - Due to disclosure guidelines set by each investment manager, portfolio characteristics shown are as of the most recent date available.

Price to Earnings Ratio - The ratio valuing a company's current share price relative to its trailing 12-month per-share earnings (EPS).

Private Equity Quartile Ranks - Private Equity quartile ranks are generated using vintage year peer group data provided by Thomson Reuters, and are based on each fund's annualized, since inception internal rate of return (IRR). Three Private Equity peer groups are available via Thomson Reuters: Buyout, Venture, and All Private Equity. Ranks are available quarterly, at a one-quarter lag.

R-Squared - The percentage of a portfolio's performance explained by the behavior of the appropriate benchmark. High R-Squared means a higher correlation of the portfolio's performance to the appropriate benchmark.

Return - Compounded rate of return for the period.

% Return - The time-weighted rate of return of a portfolio for a given period.

Risk Free Benchmark – ICE BofAML 3 Mo US T-Bill Index unless specified otherwise.



RVK Liquidity Rating - A qualitative method for determining the relative amount of liquidity in a portfolio. The characteristics considered when determining relative liquidity include trading volume, gates for redemption, leverage, nature of transactions, and pricing mechanisms. The RVK Liquidity Rating is calculated using beginning of month investment weights applied to each corresponding asset class liquidity rating.

Asset Class	RVK Liquidity Rating	Asset Class	RVK Liquidity Rating
<u>Liquid Investments</u>		Less Liquid Investments	
T-Bills and Treasurys	100	Fixed Income Plus Sector	50
Cash Equivalents	98	Stable Value (Plan Sponsor Directed)	50
TIPS	95	Hedge Funds of Funds	35
US Large Cap Equity	95		
Diversified Real Return	93		
Stable Value (Participant Directed)	91		
Global Equity	90	Not Liquid Investments	
Non-US Large Cap Equity	90	Core Real Estate	25
Global Tactical Asset Allocation	88	Core Plus Real Estate	15
MLPs	85	Non-Core Real Estate	5
US Mid Cap Equity	85	Private Equity Funds of Funds	5
US SMid Cap Equity	85		
US Small Cap Equity	85		
REITs	85		
Non-US Small Cap Equity	85		
Emerging Markets Equity	85		
Core Fixed Income	85		
Core Plus Fixed Income	80		

Sector Allocation - Negative fixed income sector allocation reflects manager's use of derivatives, short selling, or interest rate swaps.

Sharpe Ratio - Represents the excess rate of return over the risk-free return (i.e., ICE BofAML 3 Mo US T-Bill Index unless specified otherwise), divided by the standard deviation of the excess return to the risk free asset. The result is the absolute rate of return per unit of risk. The higher the value, the better the product's historical risk-adjusted performance.

Simple Alpha - The difference between the manager's return and the benchmark's return.

Spread Duration - The approximate percentage change in a bond's price for a 100 basis point change in its spread over a Treasury of the same maturity.

Standard Deviation - A statistical measure of the range of a portfolio's performance. The variability of a return around its average return over a specified time period.

Thematic Classification - Represents dedicated manager allocations; as such, thematic allocations are approximations. RVK categorizes the following asset classes as Alpha, Capital Appreciation, Capital Preservation, and Inflation:

<u>Alpha</u>	Capital Appreciation	Capital Preservation	<u>Inflation</u>
Absolute Return Strategies	Public Equity	Core Fixed Income	TIPS
Currency Overlay	Private Equity	CMBS Fixed Income	Bank Loans
	Preferred Securities	Asset Backed Fixed Income	Core Real Estate
	High Yield	Domestic Core Plus Fixed Income	Real Return
	Convertible Fixed Income	Mortgage Backed Fixed Income	Inflation Hedges
	TALF Funds	International Developed Fixed Income	REITs
	Distressed Debt	Cash Equivalents	Commodities
	Emerging Market Fixed Income	Stable Value	
	Value Added Real Estate		
	Opportunistic Real Estate		

Time Period Abbreviations - QTD - Quarter-to-Date. CYTD - Calendar Year-to-Date. FYTD - Fiscal Year-to-Date. YOY - Year Over Year.

Total Fund Attribution – The Investment Decision Process (IDP) model provides an approach to evaluating investment performance that applies to all asset classes and investment styles. The IDP model is based on a top-down hierarchy framework of investment decisions, with each decision contributing to the overall profit or loss. The IDP approach starts from the strategic asset allocation and follows the flow of the investments down to the manager's skill.

Strategic Asset Allocation (SAA) – The percentage return gained or lost from the long-term strategic asset allocation decision, the most significant determinant of long-term performance. SAA is the product of the target asset allocation multiplied by the corresponding benchmark returns.

Tactical Asset Allocation (TAA) – The percentage return gained or lost from not having been precisely allocated at the target asset allocation mix, whether by deviations that are tactical in nature or a by-product of moving towards the target mix. TAA is the product of the actual asset allocation multiplied by the broad asset class benchmarks, less the SAA.

Style Selection (SS) – The percentage return gained or lost from intentional style biases within each asset class (e.g. value rather than core or overweight to emerging markets relative to benchmark). SS is the product of the actual manager allocation within each asset class multiplied by their specific benchmark, less TAA.

Manager's Skill (MS) – The percentage return gained or lost from manager value added relative to their specific benchmark. MS is the product of the actual manager allocation multiplied by their achieved excess return.

Total Fund Beta - Total Fund Beta is calculated using the S&P 500 as the benchmark. It represents a measure of the sensitivity of the total fund to movements in the S&P 500 and is a measure of the Total Fund's non-diversifiable or systematic risk.

Tracking Error - A measure of the standard deviation of a portfolio's performance relative to the performance of an appropriate market benchmark.

Treynor Ratio - Similar to Sharpe ratio, but focuses on beta rather than excess risk (standard deviation). Treynor ratio represents the excess rate of return over the risk-free rate (i.e., ICE BofAML 3 Mo US T-Bill Index unless specified otherwise) divided by the beta. The result is the absolute rate of return per unit of risk. The higher the value, the better historical risk-adjusted performance.

Unit Value - The dollar value of a portfolio, assuming an initial nominal investment of \$100, growing at the compounded rate of %Return for a given period.

Up Market Capture - Up market by definition is positive benchmark return and up market capture represents the ratio in % terms of the average portfolio's return over the benchmark during the up market period. The higher the value of the up market capture the better the product's performance.

Yield to Maturity - The rate of return achieved on a bond or other fixed income security assuming the security is bought and held to maturity and that the coupon interest paid over the life of the bond will be reinvested at the same rate of return. The 30-Day SEC Yield is similar to the Yield to Maturity and is reported for mutual funds.

Yield to Worst - The bond yield calculated by using the worst possible yield taking into consideration all call, put, and optional sink dates.



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