

RVK Honored to Receive Greenwich Quality Leader Award

- Greenwich Associates* conducted interviews with over 1,000 senior professionals of large plan sponsors and ranked opinions of their investment consulting relationships on a series of key metrics, including, but not limited to:
 - Understanding Clients' Goals and Objectives
 - Advice on Long-term Asset Allocation
 - Proactive Advice and Innovative Ideas
 - Credibility with the Board and/or Investment Committee
 - Knowledge of Investment Managers
 - Advice on DC Plan Structure and Design
 - Satisfaction with Manager Recommendations
 - Responsiveness to Client Requests and Needs
 - Competitive Fees
- RVK is grateful to be 1 of 3 firms (among large US consultants) to receive this award for 2017



As a valued client, we are humbled by your continued confidence and thankful for your support. From all of us here at RVK, thank you for the opportunity to serve you!



^{*}Greenwich Associates is the leading provider of global market intelligence and advisory services to the financial services industry that conducts an annual survey to institutional investors whereby approx. 1,200 respondents rank their respective investment consulting relationships on key metrics on a scale from 1 (poor) to 5 (excellent). The award is based upon Greenwich Associates' 2017 US Institutional Investors study.



Memorandum

То	Wyoming State Loan and Investment Board
From	RVK, Inc.
Subject	Investment Performance Analysis – Summary of Contents
Date	March 31, 2018

To assist in your review of the Investment Performance Analysis for the quarter ended March 31, 2018, 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 – Performance Summary

 These seven pages provide the market value, asset allocation, and performance information for the State's investments in summary form. They are used as a stand-alone summary report for the regular SLIB meetings.

TAB 3 – 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.

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TAB 4 – 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 actual allocation index is included.

TAB 5 – 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 6 – 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 7 - 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 8 – 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 9 – 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 10 – 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 2018

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Memorandum

То	Wyoming State Loan and Investment Board
From	RVK, Inc.
Subject	Investment Performance Analysis Commentary
Date	March 31, 2018

Outlined below please find a summary of significant observations regarding performance of the State's Funds for the period ended March 31, 2018. We hope this summary will facilitate your review of our Investment Performance Analysis Report.

The Total Fund returned -0.4% net of fees during the first quarter as both equity and fixed income assets declined during the quarter. Long-term performance for the Total Fund remains strong, with the State earning returns of 4.7% and 4.8% per annum over the trailing seven- and ten-year periods.

The Total Fund outperformed its custom benchmark by 0.4% during the quarter as relative performance was bolstered by the State's fixed income portfolio structure amidst a rising interest rate environment. Both US and international equity markets started the year strong, gaining over 5% in January. However the rally reversed sharply in February in response to an uptick in inflation expectations, a repricing of the yield curve, and a dramatic spike in equity market volatility. US and international equities ended the quarter down 0.6% and 1.2%, respectively, while the Bloomberg US Aggregate Bond Index declined by 1.5%. Although the State has higher strategic exposure to fixed income relative to the All Master Trust Universe, significant outperformance of the fixed income composite led to the State outperforming the median peer in the first quarter. Relative to the Universe, the State continues to generate more return for each unit of risk exposure, with risk-adjusted returns ranking well above median and in the top decile of all Plans over the trailing five- and ten-year time periods, respectively.

Although absolute results were negative for the State's nine investment pools, each outperformed its respective benchmark during the quarter. The State's non-permanent funds with larger strategic allocations to fixed income investments generated higher absolute returns than the State's permanent funds, and higher returns on a relative basis.

Treasury yields increased across all maturities leading to negative returns across rate-sensitive fixed income indices, and the Bloomberg US Aggregate Bond Index declined by 1.5% over the first quarter. Diversification away from core US bonds was beneficial as the State's total fixed income portfolio (excluding convertibles) outperformed the broad market index by

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0.8%. All of the State's fixed income segments, including credit, TIPS, and emerging markets debt, outperformed the broad market index. Emerging markets debt generated the highest absolute return among fixed income sectors, returning 5.0% and outperforming its benchmark by 0.6%, as global bonds benefited from a weakening US dollar. Bank loans, the largest component of the State's credit composite, generated positive returns due to their floating rate structure, helping the composite outperform the broad market index by 1.4%. Exposure to convertibles was also beneficial to absolute and relative performance, with Allianz earning 3.6% in the first quarter. The State's core fixed income managers also modestly outperformed the broad market index, collectively returning -1.4%.

Despite strong returns in January, US equity markets faltered during the final two months of the quarter, delivering mixed results across market cap and style. Major US equity indices finished the quarter in negative territory, with the Russell 3000 Index returning -0.6% for the quarter. The State's US equity composite returned -1.5% during the first quarter, underperforming the broad market index. State Street All Cap trailed the broad market index by 0.5%, keeping pace with its custom index. RBC, the State's active small cap manager, posted the weakest absolute and relative performance within the US equity portfolio, returning -3.1% and underperforming the Russell 2000 Index by 3.0%, primarily driven by stock selection. Epoch returned -1.9%, underperforming the Russell 3000 Index by 1.3%, as holdings within consumer discretionary, financials, and information technology detracted from results.

Developed international markets underperformed emerging markets during the quarter, with the MSCI EAFE Index returning -1.5% and the MSCI Emerging Markets Index returning 1.4%. All strategies within the State's international equity portfolio kept pace with or modestly outperformed their respective benchmarks. Arrowstreet transitioned from a global equity mandate to non-US equity on March 1, 2018, and therefore does not yet have a full quarter of performance.

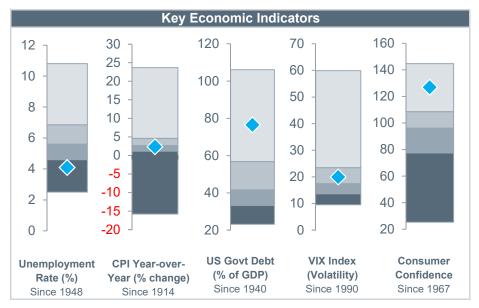
Core real estate continued a trend of delivering modest, positive returns. Market participants characterized this as another quarter of normalizing returns reinforcing investor expectations of lower returns going forward as the market enters the later stages of the recovery. Between the State's two core real estate managers, Clarion and UBS, returns earned during the first quarter were 2.4% and 1.7%, respectively. The PAAMCO - Jackalope Fund (currently the State's single absolute return manager) returned -0.6% during the quarter, underperforming the 0.3% earned by the HFRI FOF Comp Index.

Capital Markets Review As of March 31, 2018

First Quarter Economic Environment

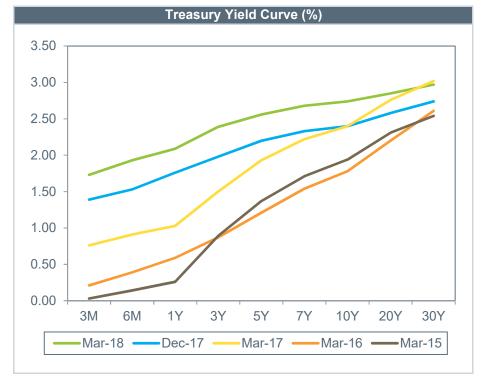
Key Economic Indicators

The quarter began with a substantial global equity market rally in January. Drivers of the rally included improving global economic fundamentals, continuation of generally accommodative monetary policies among global central banks, and continued corporate earnings growth. The market rally reversed sharply in February in response to an uptick in inflation expectations, a repricing of the yield curve, and a dramatic spike in equity market volatility. The quarter ended with developed equity markets in negative territory, US duration sensitive assets down moderately, and global bond markets maintaining slight gains in part due to a weakening US Dollar. The Federal Open Market Committee set the federal funds target range at 1.50% to 1.75%, an increase of 0.25%, and maintained guidance for two additional rate increases in 2018. US economic data continued to generally indicate a robust economic expansion. Non-farm payroll growth averaged in excess of 200,000 job gains per month while Purchasing Manager's data for both the US manufacturing and non-manufacturing sectors indicated continued expansion.



Economic Indicators	Mar-18		Dec-17	Mar-17	Mar-15	20 Yr
Federal Funds Rate (%)	1.68	lack	1.33	0.82	0.06	2.07
Breakeven Infl 1 Yr (%)	2.23		0.85	2.06	1.46	N/A
Breakeven Infl 10 Yr (%)	2.06		1.98	1.98	1.78	N/A
CPI YoY (Headline) (%)	2.4		2.1	2.4	-0.1	2.2
Unemployment Rate (%)	4.1	_	4.1	4.5	5.5	5.9
Real GDP YoY (%)	2.9		2.6	2.0	3.8	2.2
PMI - Manufacturing	59.3	_	59.3	56.6	51.8	52.5
USD Total Wtd Idx	86.37	▼	87.47	93.96	92.06	86.59
WTI Crude Oil per Barrel (\$)	64.9		60.4	50.6	47.6	58.1
Gold Spot per Oz (\$)	1,326		1,303	1,249	1,184	843

Market Performance (%)	QTD	CYTD	1 Yr	5 Yr	10 Yr
S&P 500 (Cap Wtd)	-0.76	-0.76	13.99	13.31	9.49
Russell 2000	-0.08	-0.08	11.79	11.47	9.84
MSCI EAFE (Net)	-1.53	-1.53	14.80	6.50	2.74
MSCI EAFE SC (Net)	0.24	0.24	23.49	11.10	6.48
MSCI Emg Mkts (Net)	1.42	1.42	24.93	4.99	3.02
Bloomberg US Agg Bond	-1.46	-1.46	1.20	1.82	3.63
ICE BofAML 3 Mo US T-Bill	0.35	0.35	1.11	0.34	0.34
NCREIF ODCE (Gross)	2.20	2.20	8.07	11.43	5.11
Wilshire US REIT	-7.48	-7.48	-3.64	6.13	6.22
HFRI FOF Comp	0.29	0.29	5.56	3.38	1.55
Bloomberg Cmdty (TR)	-0.40	-0.40	3.71	-8.32	-7.71





US Equity Review As of March 31, 2018

First Quarter Review

Broad Market

Despite strong returns in January, US equity markets faltered during the final two months of the quarter, delivering mixed results across market cap and style. The S&P 500 Index's return of -0.76% marks the first negative quarter for the index since Q3 2015. Declines were relatively widespread, with nine of eleven sectors producing negative returns.

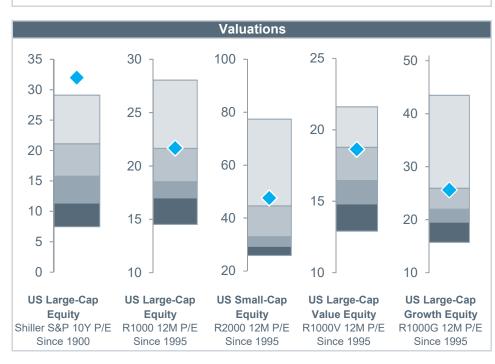
Market Cap

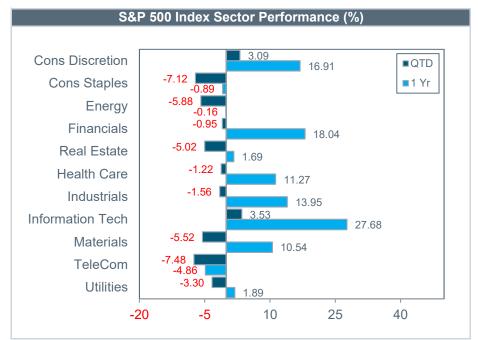
Increased global macroeconomic uncertainty indirectly favored small cap stocks, which tend to be more domestically-focused, providing greater insulation from global headwinds.

Style and Sector

Growth stocks led value stocks for the quarter as the Russell 1000 Growth Index outperformed its value counterpart by 4.25% for the quarter. Technology stocks led all other sectors posting 3.53% with consumer discretionary following close behind with 3.09% for the quarter.







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.



Non-US Equity Review

As of March 31, 2018

First Quarter Review

Developed Markets

Developed international markets lagged during the quarter, ending with negative returns and underperforming their domestic counterparts. Market movements were affected by headlines related to global trade negotiations, however there were also significant political events within developed international markets.

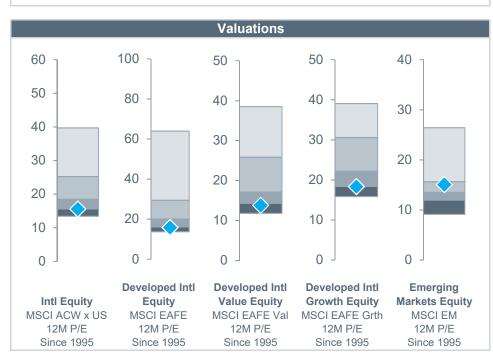
Emerging Markets

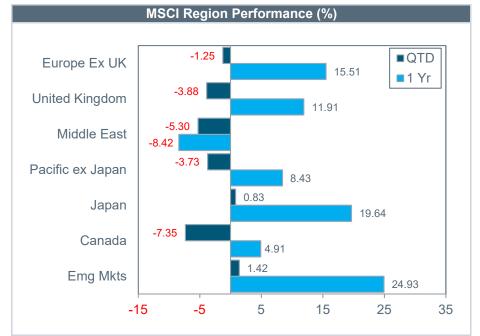
Emerging markets outperformed domestic and developed international for both the quarter and the trailing one year period. MSCI Emerging Markets Index outpaced the MSCI EAFE Index by 295 basis points during the guarter.

Market Cap & Style

Developed international growth stocks continued to outperform value stocks, while small cap stocks outperformed large cap stocks, ending the quarter in slightly positive territory. Contrary to the rest of the world, emerging market value outperformed growth.









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, 2018

First Quarter Review

Broad Market

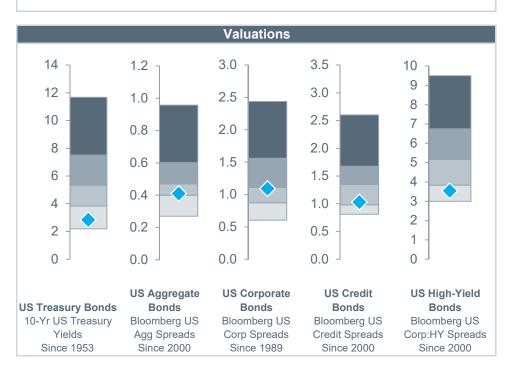
Treasury yields increased across all maturities leading to negative returns across rate-sensitive fixed income indices. The Bloomberg Barclays US Aggregate Bond Index posted a return of -1.46% during the quarter. Longer duration bonds were hit the hardest with the Bloomberg Barclays US Long Government/Credit Index returning -3.58%.

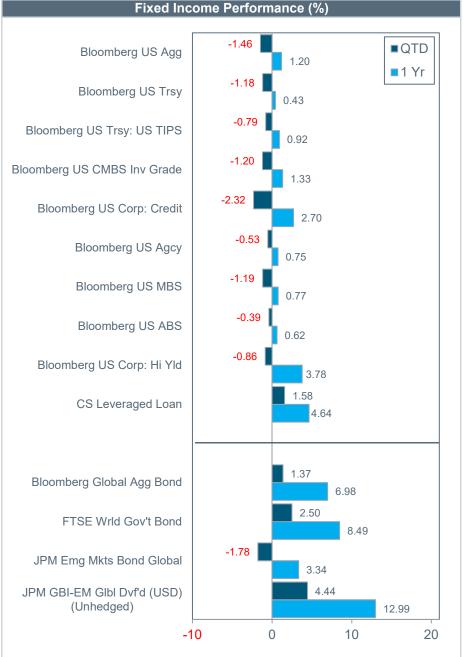
Credit Market

Investment grade and high yield credit spreads widened modestly, ending a nine-quarter streak of spread tightening.

Emerging Market Debt

Non-US dollar denominated emerging market debt was the best performing sub-asset class within fixed income over the quarter, returning 4.44%. In contrast, hard currency and corporate emerging market debt ended the quarter with negative returns after four consecutive quarters of posting positive returns.







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



Alternatives Review As of March 31, 2018

First Quarter Review - Absolute Return

General Market - Hedge Funds

Hedge funds produced modestly positive returns during the first guarter of 2018, though heightened levels of market volatility created significant dispersion across strategies. FoHFs that outperformed benefitted from manager selection within the discretionary macro space, where several managers correctly bet on rising interest rates and produced near double digit returns or higher during the quarter. Managers within the multi-strategy space produced negative returns on average according to HFR, but the firms RVK tracks closely were modestly positive during the quarter, producing

average returns near 1%. **General Market - Global Tactical Asset Allocation (GTAA)** GTAA managers provided modestly positive performance and for the most part, tended to outperform traditional asset classes. Globally-oriented managers that rely on fundamental, value-based investment processes have continued to allocate to various exposures in emerging markets, which they believe to be undervalued.

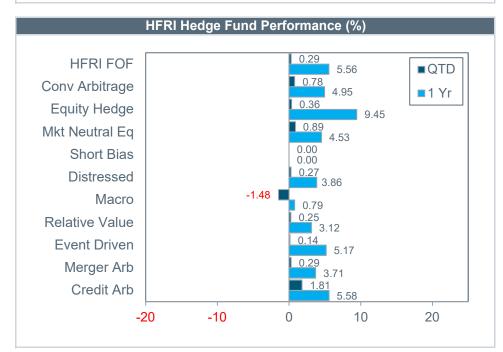
First Quarter Review - Real Assets

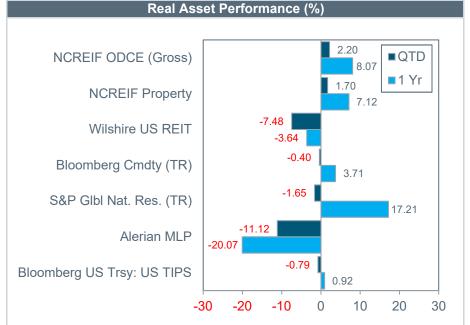
General Market - Diversified Inflation Strategies (DIS)

DIS managers posted weak returns despite increases in market-based measures of future inflation and heightened press attention about the potential for further acceleration of inflationary pressure. Market expectations of future inflation also increased modestly from 1.98% to 2.06% based on 10 Year Treasury breakevens. Managers with greater exposure to floating rate credit-sensitive fixed income and foreign currency performed toward the top of the peer group. Managers with significant MLP exposure within global listed infrastructure allocations lagged by the widest margins.

General Market - Real Estate

The Core private real estate index, NCREIF-ODCE, returned 2.2% during Q1, comprised of 1.0% income and 1.2% appreciation. Investors in publicly traded real estate significantly underperformed their private market counterparts during the quarter as measured by Wilshire US REIT Index return of -7.48%.







Annual Asset Class Performance As of March 31, 2018

Calendar Year Performance									Annualized Statis	stics (01/	2006 - 03/20	018)			
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	CYTD (As of 03/18)		Return	Standard Deviation	Sharpe Ratio
Best	5.24	49.13	26.85	15.99	16.83	38.82	13.88	15.02	21.31	27.19	4.44	US Equity Custom Index - US All Cap	8.53	14.90	0.55
1	3.06	45.12	21.74	14.26	16.76	32.39	13.69	13.33	13.00	21.83	2.43	S&P 500 Index - US Large Cap	8.58	14.88	0.55
	-5.22	32.46	16.77	11.16	16.35	32.39	12.50	5.59	12.74	21.13	2.20	Rusell 2000 Index - US Small Cap	8.39	18.78	0.47
	-6.46	27.17	16.36	7.84	16.00	24.96	11.82	1.38	11.96	15.21	1.70	International Equity Custom Index - International	4.00	18.40	0.25
	-10.01	26.46	15.68	3.49	16.00	21.26	11.18	0.55	10.69	14.65	0.31	Cambridge US PE Index - Private Equity	11.72	8.54	1.23
	-21.37	26.46	15.06	2.11	14.96	15.29	9.42	0.48	10.44	13.70	0.29	NCREIF ODCE Index - Core Real Estate	6.85	7.86	0.76
	-22.48	21.98	15.06	2.11	13.43	13.94	5.97	0.18	9.94	11.75	0.26	NCREIF Property Index - Value-Added Real Estate	7.69	5.41	1.23
	-23.62	13.22	13.11	0.66	10.94	10.98	4.89	-0.27	8.77	7.77	0.00	HFRI FOF Comp Index	2.54	6.45	0.25
	-33.79	11.47	10.82	-1.75	10.77	8.96	3.37	-1.47	7.97	7.62	-0.08	ICE BofAML All Cnvrts Index (All Qual) - Convertibles	7.58	13.21	0.53
	-35.73	5.93	9.28	-4.18	10.54	4.22	2.95	-3.24	4.50	6.96	-0.64	Bloomberg US Agg Bond Index - Fixed Income	4.06	3.31	0.87
	-37.00	1.17	6.54	-5.18	4.79	0.12	0.18	-4.41	2.65	5.20	-0.76	Credit Custom Index - Fixed Income	5.43	8.86	0.51
	-37.00	-16.85	5.70	-5.72	4.21	-2.02	-3.87	-5.66	0.51	3.54	-1.18	JPM GBI-EM GbI Dvf'd Index (USD) - EMD	5.89	10.89	0.48
Worst	-43.06	-29.76	0.73	-13.71	0.26	-8.98	-5.72	-14.92	0.38	0.84	-1.46	JP Morgan Cash Custom Index - Cash Equiv	1.47	0.91	1.19



ASSET CLASS SUMMARY

US Equity: The **US Equity** structure employs a core-satellite approach, which gains passive, low-cost beta exposure at its core and active management only where the highest conviction strategies can add value – All Cap and Small Cap Equity. The core component of the portfolio utilizes passive management coupled with low beta, minimum volatility strategies that are intended to outperform a market-capitalization weighted index at a similar absolute risk level. Active management in the All Cap space provides investment managers the flexibility to adjust for valuations across market capitalizations. The single active Small Cap investment manager utilizes fundamental stock analysis in a market segment that has historically provided a return premium relative to larger companies.

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, while Non-Core Real Estate investments allow the portfolio to take advantage of real estate market fundamentals. Recent commitments within Non-Core Real Estate have added global diversification through European-focused investments.

Absolute Return: The **Absolute Return** 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. An increase in the use of direct Hedge Funds is anticipated to lower external management expenses and allow for greater control over the program.

Convertible Bonds: The **Convertible Bonds** portfolio consists of a single, specialized investment manager within the fixed income portfolio. The portfolio focuses on convertible issuers that demonstrate the ability to improve fundamental characteristic and attempts to participate in the majority the upside, while limiting the downside of the underlying equity to nearly half.

Fixed Income: The **Fixed Income** 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. The Internally Managed Portfolio also provides liquidity and safety of capital. Treasury Inflation Protected Securities ("TIPS") provide passive protection against expected changes in inflation. The satellite portfolios serve as dedicated specialists. Credit Fixed Income provides diversification from traditional fixed income investments and the potential for enhanced return. The custom credit portfolios are largely driven by allocations to bank loans, high yield fixed income securities, and investment grade credit. Investments in Emerging Market Debt (Local Currency) 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

Total Equity Custom Index: The **Total Equity Custom Index** consists of the MSCI World Index through July 2010 and the MSCI All Country World Index thereafter.

MSCI World: The **MSCI World Index** is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed markets. The index consists of the following developed market countries: *Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Hong Kong, Ireland, Israel, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland, the United Kingdom, and the United States.*

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.*

US Equity Custom Index: The **US Equity Custom Index** consists of the S&P 500 Index (Cap Wtd) through September 2014 and the Russell 3000 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.

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 U.S. 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 USA Minimum Volatility Index.

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.

FTSE All World Ex US: The **FTSE All World Ex US Index** is a free float-adjusted market capitalization weighted index that is comprised of large- and mid-cap stocks providing coverage of Developed and Emerging Markets excluding the US. The index is derived from the FTSE Global Equity Index Series (GEIS), which covers 98% of the world's investable market capitalization.



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 16 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.

ICE BofAML All Convertibles: The **ICE BofA Merrill Lynch All Convertibles Index (All Qualities)** is a market capitalization-weighted index of domestic corporate convertible securities that are convertible to common stock.

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.

Credit Custom Index: The **Credit Custom Index** consists of 20% Bloomberg US Credit Index, 20% ICE BofA Merrill Lynch US High Yield Master II Constrained Index, and 60% S&P/LSTA Leveraged Loan Index.

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.

JPMorgan 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.

Bloomberg US Trsy: US TIPS: The **Bloomberg US Treasury: US TIPS Index** is an unmanaged index that consists of inflation-protected securities issued by the U.S. Treasury.

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 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 Gov't/Credit Bond: The **Bloomberg US Gov't/Credit Bond Index** covers the non-securitized component of the US Aggregate Index. It includes investment grade, US dollar denominated, fixed-rate Treasuries, government-related and corporate securities.

C.S. McKee Custom Index: The **C.S. McKee Custom Index** consists of the Bloomberg US Agg Bond Index through January 2018 and the Bloomberg US Agg Int Index thereafter.



PIMCO Custom Index: The **PIMCO Custom Index** consists of the Bloomberg US Agg Bond Index through February 2018 and the Bloomberg US Agg Int Index thereafter.

ICE BofAML 3 Mo US T-Bill: The ICE BofA Merrill Lynch 3-Month US T-Bill Index consists of newly issued 90-day Treasury bills.

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.



Investment Performance

March 31, 2018

Investment Policy:

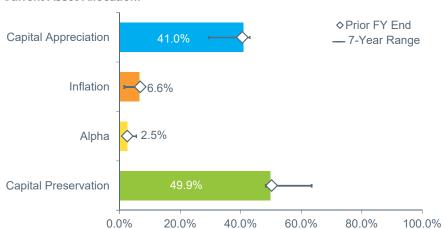
It is the investment policy for the State Loan and Investment Board to invest public funds of the State of Wyoming in a manner that strives for maximum safety, provides adequate liquidity to meet all operating requirements, and achieves the highest possible investment return consistent with the primary objectives of safety and liquidity.

Investment Objectives and Priorities:

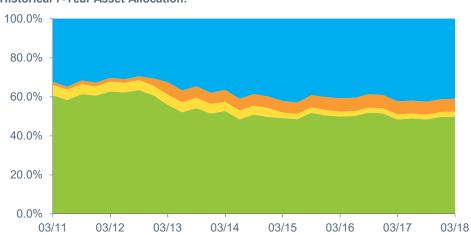
All available funds shall be invested with the following objectives and priorities:

- a) Safety of principal. Investments shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio.
- b) Liquidity requirements of anticipated and unanticipated expenditures.
- c) Yield.
- d) Recognition of differing objectives and needs of various fund portfolios.
- e) Conformance with State law and other pertinent legal restrictions.
- f) Maximization of the total rate of return on investment consistent with the foregoing objectives.
- g) Diversification by asset type, security, and investment manager in order to smooth the volatility of quarterly returns.

Current Asset Allocation:



Historical 7-Year Asset Allocation:



Historical Performance:	Total Investment Value	Fiscal Year Ending 06/30/17 Market Value	Current Market Value	% of MV	QTD Return	FYTD Return	1 Year Return	3 Year Return	5 Year Return	10 Year Return
Wyoming State Total Fund Wyoming State Actual Allocation Index	\$19,557.57	\$20,755.87	\$20,582.99	100.0%	-0.36% -0.73%	3.56% 2.95%	5.52% 4.95%	3.67% 3.41%	4.26% 4.21%	4.82% 4.45%
Permanent Funds	\$14,050.12	\$14,431.69	\$14,666.01	71.3%	-0.40%	4.44%	6.84%	4.40%	5.27%	5.35%
Non-Permanent Funds	\$5,507.45	\$6,324.18	\$5,916.98	28.7%	-0.09%	1.29%	2.26%	1.67%	1.65%	3.51%

Note[1]: Performance shown is net of fees.

Note 2: Pooled investment performance and market values shown reflect State Agency participation and are calculated on a capital-weighted basis using beginning-period allocations.

Note[3]: Thematic allocations shown exclude Public Purpose Investments.

Note[4]: The Wyoming State Actual Allocation Index is calculated using beginning-month asset class weights applied to the appropriate asset class benchmark return.

Note[5]: Market Value and Total Investment Value are shown in (\$) Millions.



Wyoming State Treasurer's Office Investment Performance - Total Performance

		Total Investment Value	Fiscal Year Ending 06/30/17 Market Value	Current Market Value	% of MV	QTD Return	FYTD Return	1 Year Return	3 Year Return	5 Year Return	10 Year Return
Allocation by Fund	Wyoming State Total Fund Wyoming State Actual Allocation Index	\$19,557,567,226	\$20,755,870,537	\$20,582,990,795	100.0%	-0.36% -0.73%	3.56% 2.95%	5.52% 4.95%	3.67% 3.41%	4.26% 4.21%	4.82% 4.45%
	Investment Funds:										
	Permanent Mineral Trust	\$7,433,226,196	\$7,665,940,594	\$7,784,767,032	37.8%	-0.39%	4.74%	7.21%	4.60%	5.54%	5.25%
	Common School Perm Land Fund	\$3,782,318,647	\$3,859,838,175	\$4,023,302,116	19.5%	-0.36%	4.57%	7.12%	4.69%	5.61%	5.58%
	Permanent Land Fund	\$183,809,975	\$189,247,457	\$190,873,718	0.9%	-0.37%	4.56%	7.03%	4.49%	5.41%	5.11%
	University Permanent Land Fund	\$20,410,361	\$21,764,049	\$22,873,351	0.1%	-0.42%	5.30%	7.95%	4.96%	5.85%	5.12%
	Hathaway Scholarship	\$560,247,473	\$588,863,703	\$577,566,046	2.8%	-0.46%	4.27%	6.60%	4.18%	4.87%	5.53%
	Higher Education	\$115,734,207	\$121,412,872	\$119,129,383	0.6%	-0.48%	4.21%	6.52%	4.13%	4.84%	5.46%
	Workers Compensation Fund	\$1,954,369,128	\$1,984,625,770	\$1,947,502,310	9.5%	-0.49%	3.07%	4.98%	3.23%	3.78%	5.24%
	Pool A*	\$236,878,956	\$84,071,542	\$209,476,484	1.0%	-0.31%	1.39%	2.73%	1.96%	1.95%	4.06%
	State Agency Pool*	\$5,270,572,284	\$6,240,106,375	\$5,707,500,353	27.7%	-0.08%	1.28%	2.25%	1.67%	1.65%	3.50%
	Asset Class Performance:										
Allocation by Asset Class	US Equity US Equity Custom Index	\$1,575,053,439	\$2,254,550,255	\$2,062,812,897	10.0%	-1.45% -0.64%	9.00% 10.48%	11.50% 13.81%	8.95% 10.22%	12.51% 13.19%	9.61% 9.44%
	International Equity International Equity Custom Index	\$1,846,610,371	\$2,099,066,951	\$2,169,676,801	10.5%	-1.06% -1.18%	9.63% 10.16%	17.20% 16.53%	6.12% 6.18%	6.07% 5.89%	2.87% 2.27%
	Private Equity S&P 500 + 5%	\$424,751,544	\$585,156,569	\$611,962,068	3.0%	0.46%	14.70%	See N 19.69%	lote[6] 16.32%	18.97%	14.97%
	Core Real Estate NCREIF ODCE	\$507,607,260	\$596,442,590	\$616,383,701	3.0%	2.07% 1.97%	5.84% 5.56%	7.31% 7.11%	8.94% 9.00%	10.17% 10.41%	3.85% 4.16%
	Value-Added Real Estate NCREIF Property	\$252,166,359	\$268,812,182	\$278,989,081	1.4%	1.70%	5.28%	See N 7.12%	lote[6] 8.72%	10.00%	6.09%
	Absolute Return HFRI FOF Comp Index	\$499,635,960	\$507,134,714	\$502,426,157	2.4%	-0.59% 0.29%	1.98% 4.72%	2.20% 5.56%	0.19% 1.87%	2.85% 3.38%	2.82% 1.55%
	Convertible Bonds BofA ML All Quality Convertible	\$486,668,624	\$517,843,821	\$524,512,972	2.5%	3.57% 2.43%	9.97% 7.95%	13.09% 10.60%	6.14% 6.50%	8.87% 9.60%	8.83% 8.20%
	Fixed Income Bloomberg US Aggregate	\$11,517,361,706	\$11,576,435,726	\$11,367,607,064	55.2%	-0.65% -1.46%	0.85% -0.24%	2.01% 1.20%	1.81% 1.20%	1.72% 1.82%	4.01% 3.63%
	Public Purpose Investments	\$442,091,944	\$811,819,612	\$442,091,944	2.1%	N/A	N/A	N/A	N/A	N/A	N/A
	Cash Equivalents JP Morgan Cash Custom Index	\$2,005,620,019	\$1,538,608,117	\$2,006,528,109	9.7%	0.37% 0.31%	0.79% 0.82%	1.00% 1.03%	0.55% 0.54%	0.39% 0.40%	0.63% 0.66%

^{*} Denotes Non-Permanent Fund.



Note[1]: Performance shown is net of fees. Investment performance is calculated on invested assets only.

Note[2]: Pooled investment performance and market values shown reflect State Agency participation and are calculated on a capital-weighted basis using beginning-period allocations.

Note[3]: US Equity Custom Index consists of S&P 500 (Cap Wtd) through September 2014 and the Russell 3000 thereafter.

Note[4]: International Equity Custom Index consists of MSCI EAFE (Gross) through July 2010 and the MSCI ACW Ex US (Net) thereafter.

Note[5]: Market values for non-core real estate and private equity are as of the most recent valuation, adjusted for subsequent cash flows. Investment (Cost) Values are not lagged.

Note[6]: Performance for Private Equity and Value-Added Real Estate investments is calculated on an IRR basis. For further analysis, please refer to the supplementary alternatives performance report.

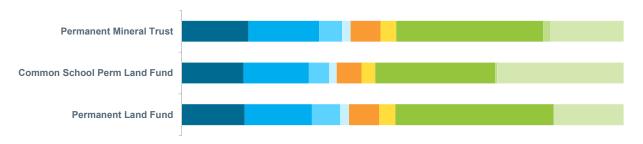
Note[7]: Cash Equivalents performance includes Extended Cash performance.

Note[8]: Market values shown for Public Purpose Investments reflect cost value of the investments.

Note[9]: The Arrowstreet mandate was converted from global equity to international equity on March 1, 2018.

Wyoming State Treasurer's Office Investment Performance - Total Performance

	Total Investment Value	Fiscal Year Ending 06/30/17 Market Value	Current Market Value	% of MV	QTD Return	FYTD Return	1 Year Return	3 Year Return	5 Year Return	10 Year Return
Wyoming State Total Fund	\$19,557,567,226	\$20,755,870,537	\$20,582,990,795	100.0%	-0.36%	3.56%	5.52%	3.67%	4.26%	4.82%
Investment Funds:										
Permanent Mineral Trust	\$7,433,226,196	\$7,665,940,594	\$7,784,767,032	100.0%	-0.39%	4.74%	7.21%	4.60%	5.54%	5.25%
US Equity	\$901,265,767	\$1,297,262,339	\$1,178,786,837	15.1%						
International Equity	\$1,062,847,137	\$1,203,734,034	\$1,245,183,455	16.0%						
Private Equity	\$284,393,580	\$376,229,716	\$406,062,596	5.2%						
Real Estate	\$455,301,021	\$497,311,710	\$526,070,075	6.8%						
Absolute Return	\$275,796,426	\$279,936,067	\$277,336,965	3.6%						
Convertible Bonds	\$137,484,327	\$146,547,185	\$148,434,521	1.9%						
Fixed Income	\$2,998,337,456	\$3,006,629,507	\$2,586,361,450	33.2%						
Public Purpose Investments	\$126,833,206	\$132,978,738	\$126,833,206	1.6%						
Cash (invested in State Agency Pool)	\$1,190,967,276	\$725,311,298	\$1,289,697,927	16.6%						
Actual Allocation Index					-0.73%	4.49%	6.98%	4.48%	5.58%	4.87%
Common School Perm Land Fund	\$3,782,318,647	\$3,859,838,175	\$4,023,302,116	100.0%	-0.36%	4.57%	7.12%	4.69%	5.61%	5.58%
US Equity	\$430,494,021	\$613,886,992	\$564,343,953	14.0%						
International Equity	\$506,127,427	\$576,078,754	\$594,629,802	14.8%						
Private Equity	\$122,983,352	\$195,110,810	\$184,552,772	4.6%						
Real Estate	\$193,298,129	\$228,592,933	\$225,869,029	5.6%						
Absolute Return	\$124.156.282	\$126.019.153	\$124.849.112	3.1%						
Convertible Bonds	\$65.130.000	\$68,755,007	\$69.640.482	1.7%						
Fixed Income	\$1.258.964.577	\$1,263,723,168	\$1.090.146.041	27.1%						
Public Purpose Investments	\$18.359.738	\$393.359.738	\$18.359.738	0.5%						
Cash (invested in State Agency Pool)	\$1,062,805,121	\$394,311,619	\$1,150,911,187	28.6%						
Actual Allocation Index	, , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	, , , .		-0.74%	4.26%	6.79%	4.55%	5.63%	5.03%
Permanent Land Fund	\$183,809,975	\$189,247,457	\$190,873,718	100.0%	-0.37%	4.56%	7.03%	4.49%	5.41%	5.11%
US Equity	\$20,955,816	\$30,318,918	\$27,291,609	14.3%						
International Equity	\$24,616,420	\$28,034,810	\$28,991,228	15.2%						
Private Equity	\$8,888,156	\$12,250,541	\$12,248,707	6.4%						
Real Estate	\$11,314,441	\$12,325,096	\$13,088,815	6.9%						
Absolute Return	\$6,878,080	\$6,981,304	\$6,916,485	3.6%						
Convertible Bonds	\$3,549,159	\$3,757,476	\$3,805,867	2.0%						
Fixed Income	\$79.734.140	\$79.939.649	\$68.346.519	35.8%						
Cash (invested in State Agency Pool)	\$27.873.764	\$15.639.662	\$30,184,487	15.8%						
Actual Allocation Index	,	Ţ,	+,, 101		-0.74%	4.32%	6.78%	4.34%	5.43%	4.69%





Note[1]: Performance shown is net of fees.

Note[2]: Pooled investment performance and market values shown reflect State Agency participation.

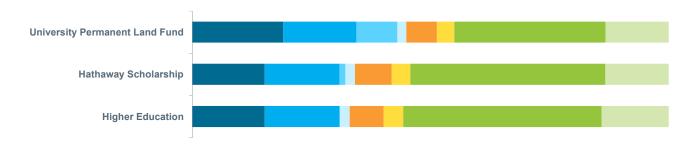
Note[3]: Pooled investment and Actual Allocation Index performance is calculated on a capital-weighted basis using beginning-period allocations.

Note[4]: Market values shown for Public Purpose Investments reflect cost value of the investments.

Note [5]: The Arrowstreet mandate was converted from global equity to international equity on March 1, 2018.

Investment Performance - Total Performance

	Total Investment Value	Fiscal Year Ending 06/30/17 Market Value	Current Market Value	% of MV	QTD Return	FYTD Return	1 Year Return	3 Year Return	5 Year Return	10 Year Return
Investment Funds:										
University Permanent Land Fund	\$20,410,361	\$21,764,049	\$22,873,351	100.0%	-0.42%	5.30%	7.95%	4.96%	5.85%	5.12%
US Equity	\$3,203,413	\$4,717,799	\$4,369,634	19.1%						
International Equity	\$2,943,647	\$3,402,107	\$3,510,622	15.3%						
Private Equity	\$795,236	\$1,147,817	\$1,968,186	8.6%						
Real Estate	\$1,327,435	\$1,378,438	\$1,463,834	6.4%						
Absolute Return	\$834,425	\$846,952	\$839,088	3.7%						
Convertible Bonds	\$396,770	\$425,390	\$430,869	1.9%						
Fixed Income	\$8,105,671	\$8,121,550	\$7,254,924	31.7%						
Cash (invested in State Agency Pool)	\$2,803,764	\$1,723,997	\$3,036,194	13.3%						
Actual Allocation Index					-0.69%	5.13%	7.71%	4.87%	5.91%	4.94%
Hathaway Scholarship	\$560,247,473	\$588,863,703	\$577,566,046	100.0%	-0.46%	4.27%	6.60%	4.18%	4.87%	5.53%
US Equity	\$67,128,254	\$94,863,475	\$87,983,542	15.2%						
International Equity	\$75,936,252	\$87,517,792	\$90,448,368	15.7%						
Private Equity	\$7.691.219	\$417.685	\$7.129.808	1.2%						
Real Estate	\$35,363,126	\$42,129,753	\$44,561,818	7.7%						
Absolute Return	\$22,366,808	\$22,702,633	\$22,491,847	3.9%						
Convertible Bonds	\$10,710,409	\$11,541,298	\$11,689,934	2.0%						
Fixed Income	\$270,038,711	\$269,758,696	\$236,361,114	40.9%						
Cash (invested in State Agency Pool)	\$71,012,695	\$59,932,372	\$76,899,615	13.3%						
Actual Allocation Index		, , .	, ,,,,,,,		-0.79%	3.94%	6.32%	4.12%	5.01%	5.15%
Higher Education	\$115,734,207	\$121,412,872	\$119,129,383	100.0%	-0.48%	4.21%	6.52%	4.13%	4.84%	5.46%
US Equity	\$13,847,730	\$19,597,857	\$18,126,346	15.2%						
International Equity	\$15,751,937	\$18,183,059	\$18,777,485	15.8%						
Real Estate	\$6,810,444	\$8,591,294	\$8,485,372	7.1%						
Absolute Return	\$4,890,998	\$4,964,452	\$4,918,358	4.1%						
Convertible Bonds	\$2,248,679	\$2,429,909	\$2,461,203	2.1%						
Fixed Income	\$56,669,222	\$56,588,284	\$49,559,220	41.6%						
Cash (invested in State Agency Pool)	\$15,515,196	\$11,058,016	\$16,801,399	14.1%						
Actual Allocation Index	,,	, , , , , , , ,	,,		-0.82%	3.87%	6.24%	4.07%	4.98%	5.10%



Note[1]: Performance shown is net of fees.



Note[2]: Pooled investment performance and market values shown reflect State Agency participation.

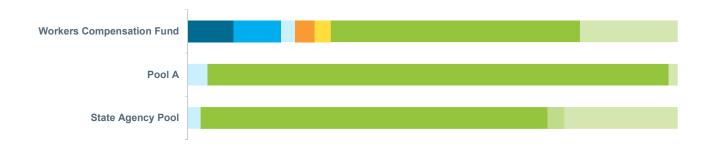
Note[3]: Pooled investment and Actual Allocation Index performance is calculated on a capital-weighted basis using beginning-period allocations.

Note[4]: Market values shown for Public Purpose Investments reflect cost value of the investments.

Note[5]: The Arrowstreet mandate was converted from global equity to international equity on March 1, 2018.

Investment Performance - Total Performance

	Total Investment Value	Fiscal Year Ending 06/30/17 Market Value	Current Market Value	% of MV	QTD Return	FYTD Return	1 Year Return	3 Year Return	5 Year Return	10 Year Return
Investment Funds:										
Workers Compensation Fund	\$1,954,369,128	\$1,984,625,770	\$1,947,502,310	100.0%	-0.49%	3.07%	4.98%	3.23%	3.78%	5.24%
US Equity	\$138,158,440	\$193,902,874	\$181,910,976	9.3%						
International Equity	\$158,387,551	\$182,116,395	\$188,135,841	9.7%						
Real Estate	\$56,359,024	\$74,925,548	\$75,833,838	3.9%						
Absolute Return	\$64,712,941	\$65,684,153	\$65,074,301	3.3%						
Convertible Bonds	\$53,256,782	\$56,705,540	\$57,435,834	2.9%						
Fixed Income	\$1,125,523,252	\$1,126,384,680	\$991,464,736	50.9%						
Cash (invested in State Agency Pool)	\$357,971,138	\$284,906,579	\$387,646,785	19.9%						
Actual Allocation Index					-0.95%	2.45%	4.45%	3.00%	3.92%	4.88%
Pool A Convertible Bonds Fixed Income Cash (invested in State Agency Pool) Actual Allocation Index	\$236,878,956 \$8,077,226 \$225,251,815 \$3,549,915	\$84,071,542 \$2,683,232 \$76,090,889 \$5,297,422	\$209,476,484 \$8,329,873 \$197,302,410 \$3,844,201	100.0% 4.0% 94.2% 1.8%	-0.31% -1.32%	1.39% 0.03%	2.73% 1.50%	1.96% 1.35%	1.95 %	4.06% 3.69%
State Agency Pool Convertible Bonds Fixed Income Public Purpose Investments Cash Equivalents	\$5,270,572,284 \$135,543,499 \$3,618,661,794 \$195,528,393 \$1,320,838,598	\$6,240,106,375 \$181,437,608 \$4,587,734,635 \$230,210,197 \$1,240,723,935	\$5,707,500,353 \$146,389,545 \$4,044,145,778 \$195,528,393 \$1,321,436,638	100.0% 2.6% 70.9% 3.4% 23.2%	-0.08%	1.28%	2.25%	1.67%	1.65%	3.50%
Actual Allocation Index					-0.91%	0.27%	1.52%	1.26%	1.77%	3.21%





Note[1]: Performance shown is net of fees.

Note[2]: Pooled investment performance and market values shown reflect State Agency participation.

Note[3]: Pooled investment and Actual Allocation Index performance is calculated on a capital-weighted basis using beginning-period allocations.

Note[4]: Market values shown for Public Purpose Investments reflect cost value of the investments.

Note[5]: The Arrowstreet mandate was converted from global equity to international equity on March 1, 2018.

Investment Performance - Total Performance

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	Total Investment Value	Fiscal Year Ending 06/30/17 Market Value	Current Market Value	% of MV	QTD Return	FYTD Return	1 Year Return	3 Year Return	5 Year Return	10 Year Return
Wyoming State Total Fund Wyoming State Actual Allocation Index	\$19,557,567,226	\$20,755,870,537	\$20,582,990,795	100.0%	-0.36% -0.73%	3.56% 2.95%	5.52% 4.95%	3.67% 3.41%	4.26% 4.21%	4.82% 4.45%
US Equity State Street All Cap State Street All Cap Custom Index Russell 3000	\$1,188,501,734	\$1,468,388,420	\$1,577,436,048		-1.15% -1.10% -0.64%	9.72% 9.81% 10.48%	12.56% 12.70% 13.81%	9.92% 9.98% 10.22%	N/A 12.74% 13.03%	N/A 9.87% 9.62%
Epoch Russell 3000	\$218,530,785	\$263,860,478	\$272,502,628		-1.89% -0.64%	9.59% 10.48%	12.77% 13.81%	8.53% 10.22%	N/A 13.03%	N/A 9.62%
UW Portfolio Management Program S&P 500	\$1,000,000	\$1,410,522	\$1,442,691		-1.26% -0.76%	9.29% 10.58%	13.72% 13.99%	10.05% 10.78%	12.68% 13.31%	5.18% 9.49%
RBC Russell 2000	\$167,020,921	\$201,620,672	\$211,431,531		-3.10% -0.08%	8.41% 9.11%	9.06% 11.79%	6.93% 8.39%	N/A 11.47%	N/A 9.84%
Lazard	\$0	\$319,270,163	\$0		N/A	N/A	N/A	N/A	N/A	N/A
Total US Equity	\$1,575,053,439	\$2,254,550,255	\$2,062,812,897	10.0%						
International Equity Internal International Equity Portfolio FTSE All World Ex US	\$135,000,000	\$160,143,255	\$172,430,073		-0.54% -1.19%	10.32% 10.22%	16.70% 16.45%	N/A 6.53%	N/A 6.30%	N/A 3.11%
Northern Trust MSCI ACW Ex US	\$972,281,050	\$839,582,600	\$1,142,284,618		-1.09% -1.18%	10.44% 10.16%	16.86% 16.53%	6.24% 6.18%	5.99% 5.89%	N/A 2.70%
Fisher Investments MSCI ACW Ex US [3]	\$360,147,528	\$427,481,219	\$455,613,509		-1.21% -1.18%	8.48% 10.16%	17.93% 16.53%	6.00% 6.18%	7.07% 5.89%	4.04% 2.27%
Arrowstreet MSCI ACW Ex US IM	\$379,181,793	\$426,401,778	\$399,348,600		N/A -1.06%	N/A 10.63%	N/A 17.10%	N/A 6.75%	N/A 6.24%	N/A 3.06%
Manning & Napier	\$0	\$245,415,336	\$0		N/A	N/A	N/A	N/A	N/A	N/A
The Boston Company	\$0	\$42,764	\$0		N/A	N/A	N/A	N/A	N/A	N/A
Total International Equity	\$1,846,610,371	\$2,099,066,951	\$2,169,676,801	10.5%						
Private Equity Access Venture Partners II Cheyenne Capital Fund, L.P. Hamilton Lane Nowood Fund, L.P. Neuberger Berman Sauger Fund, L.P. S&P 500 + 5%	\$5,177,175 \$169,849,412 \$123,124,956 \$126,600,000	\$14,559,968 \$294,496,615 \$119,855,970 \$156,244,016	\$15,356,841 \$280,884,944 \$136,997,320 \$178,722,963		0.46%	14.70%	See I See I	Note[5] Note[5] Note[5] Note[5] 16.32%	18.97%	14.97%
Total Private Equity	<u>\$424,751,544</u>	<u>\$585,156,569</u>	<u>\$611,962,068</u>	3.0%						
Real Estate Clarion Lion UBS Trumbull NCREIF ODCE	\$266,303,630 \$241,303,630	\$324,319,700 \$272,122,890	\$336,624,946 \$279,758,755		2.38% 1.70% 1.97%	6.36% 5.21% 5.56%	8.21% 6.25% 7.11%	10.12% 7.41% 9.00%	11.26% 8.69% 10.41%	3.18% 4.27% 4.16%
Core Real Estate	\$507,607,260	\$596,442,590	\$616,383,701	3.0%						
Cornerstone Heitman M&G Northwood SC Capital TA Realty WestRiver NCREIF Property	\$6,941,845 \$1,764,838 \$70,406,832 \$106,992,715 \$30,089,789 \$4,600,470 \$31,369,870	\$7,305,816 \$75,996 \$64,640,734 \$125,693,992 \$15,520,739 \$7,257,306 \$48,317,599	\$7,094,831 \$67,961 \$58,077,510 \$131,773,737 \$32,108,025 \$2,949,391 \$46,917,626		1.70%	5.28%	See I See I See I See I See I	Note[5] Note[5] Note[5] Note[5] Note[5] Note[5] Note[5] 8.72%	10.00%	6.09%
Value-Added Real Estate	\$252,166,359	<u>\$268,812,182</u>	<u>\$278,989,081</u>	1.4%						
Total Real Estate	\$759,773,619	\$865,254,772	\$895,372,782	4.4%						



Note[1]: Returns are stated in traditional total return terms and do not specify realized income. Note[2]: State Street All Cap Custom Index consists of 69% R 3000, 24% FTSE RAFI US 1000, 7% MSCI USA Minimum Volatility.

Note[3]: Fisher Index consists of MSCI EAFE (Gross) through July 2010 and the MSCI ACW Ex US (Net) thereafter.

Note[4]: Market values for non-core real estate and private equity are as of the most recent valuation, adjusted for subsequent cash flows. Investment (Cost) Values are not lagged.

Note[5]: Performance for Private Equity and Value-Added Real Estate investments is calculated on an IRR basis. For further analysis, please refer to the supplementary alternatives report.

Note[6]: Market values for M&G are converted from British Pounds using the noon New York City Federal exchange rate. Cost values are converted using the 5pm London WM Benchmark rate.

Note[7]: The Arrowstreet mandate was converted from global equity to international equity on March 1, 2018.

Wyoming State Treasurer's Office Investment Performance - Total Performance

Allocation	by
Asset Clas	SS

	Total Investment Value	Fiscal Year Ending 06/30/17 Market Value	Current Market Value	% of MV	QTD Return	FYTD Return	1 Year Return	3 Year Return	5 Year Return	10 Year Return
Absolute Return										
PAAMCO - Jackalope Fund HFRI FOF Comp Index	\$499,635,960	\$507,134,714	\$502,426,157		-0.59% 0.29%	1.98% 4.72%	2.20% 5.56%	0.21% 1.87%	2.98% 3.38%	2.53% 1.55%
Total Absolute Return	\$499,635,960	<u>\$507,134,714</u>	\$502,426,157	2.4%						
Convertible Bonds										
Allianz Global Investors BofA ML All Quality Convertible	\$486,668,624	<u>\$517,843,821</u>	\$524,512,972	2.5%	3.57% 2.43%	9.97% 7.95%	13.09% 10.60%	6.14% 6.50%	8.87% 9.60%	8.83% 8.20%
Fixed Income										
C.S. McKee C.S. McKee Custom Index	\$1,255,277,316	\$1,265,292,081	\$1,244,379,786		-1.13% -1.23%	0.28% 0.00%	1.61% 1.44%	1.51% 1.28%	1.86% 1.87%	N/A 3.65%
JP Morgan Core	\$1,445,977,412	\$2,158,626,120	\$1,409,521,148		-1.26%	-0.26%	1.20%	1.25%	1.93%	N/A
Bloomberg US Aggregate					-1.46%	-0.24%	1.20%	1.20%	1.82%	3.63%
PIMCO Core PIMCO Custom Index	\$2,173,174,819	\$2,220,137,910	\$2,164,956,835		-1.55% -1.65%	0.14% -0.43%	1.55% 1.01%	1.35% 1.14%	1.71% 1.79%	N/A 3.61%
Neuberger Berman Credit	\$929,818,255	\$939,349,147	\$928,588,071		0.00%	1.92%	3.05%	3.22%	3.49%	N/A
Seix Credit Custom Index	\$943,160,037	\$965,016,793	\$955,301,430		-0.14% 0.26%	2.33% 2.53%	3.60% 3.92%	4.15% 4.01%	N/A 3.92%	N/A 6.11%
Grosvenor Silvery Lupine Fund CS Western European HY	\$225,447,055	\$323,784,574	\$284,903,832		1.61% -0.12%	6.49% 3.07%	8.36% 5.75%	7.58% 5.99%	N/A 6.62%	N/A 9.27%
Investec	\$297,714,010	\$213,007,182	\$226,948,220		5.02%	10.51%	13.86%	4.98%	-0.91%	N/A
Stone Harbor JPM GBI-EM Glbl Dvf'd	\$297,712,381	\$204,548,478	\$213,985,046		4.98% 4.44%	9.29% 9.04%	12.70% 12.99%	4.91% 5.43%	-2.02% -0.67%	N/A 3.78%
State Street TIPS Bloomberg US Trsy: US TIPS (Series B)	\$725,322,877	\$713,634,440	\$719,117,862		-0.91% -0.86%	1.46% 1.45%	1.05% 1.03%	1.28% 1.32%	0.07% 0.10%	N/A 2.99%
Internal Fixed Income Portfolio Bloomberg US Gov't: Int. Term Bond Index	\$1,856,863,710	\$2,573,039,000	\$1,854,358,147		-0.33% -0.73%	-0.19% -0.79%	0.48% -0.14%	1.08% 0.46%	1.17% 0.75%	2.37% 2.40%
Internal Low Duration Portfolio Bloomberg US Gov't 1-3 Yr Bond Index	\$1,366,893,834	\$0	\$1,365,546,666		N/A -0.15%	N/A -0.18%	N/A 0.02%	N/A 0.40%	N/A 0.53%	N/A 1.22%
Neuberger Berman Core	\$0	\$0	\$20		N/A	N/A	N/A	N/A	N/A	N/A
Total Fixed Income	\$11,517,361,706	<u>\$11,576,435,726</u>	\$11,367,607,064	55.2%						
Public Purpose Investments	<u>\$442,091,944</u>	\$811,819,612	\$442,091,944	2.1%	N/A	N/A	N/A	N/A	N/A	N/A
Cash & Cash Equivalents JP Morgan Cash Composite JP Morgan Cash Custom Index	\$2,005,620,019	<u>\$1,538,608,117</u>	\$2,006,528,109	9.7%	0.37% 0.31%	0.79% 0.82%	1.00% 1.03%	0.55% 0.54%	0.39% 0.40%	0.63% 0.66%

Note[1]: Performance shown is net of fees.



Note[2]: Returns are stated in traditional total return terms and do not specify realized income.

Note[3]: The Credit Custom Index consists of 20% Bloomberg US Credit, 20% ICE BofAML US HY Master II Constrained, 60% S&P/LSTA Leveraged Loan.

Note[4]: Internal Fixed Income Portfolio performance excludes distressed securities taken in from dismissed managers (market value includes distressed securities).

Note[5]: Internal Fixed Income Portfolio Index consists of the Bloomberg US Gov't: Int. Term Bond Index; prior to December 2009 the index consisted of the Bloomberg US Gov't/Credit Bond Index.

Note[6]: Market values shown for Public Purpose Investments reflect cost value of the investments.

Note[7]: The C.S. McKee Custom Index consists of the Bloomberg US Agg Bond Index through January 2018 and the Bloomberg US Agg Int Index thereafter.

Note[8]: The PIMCO Custom Index consists of the Bloomberg US Agg Bond Index through February 2018 and the Bloomberg US Agg Int Index thereafter.

Note[9]: The Arrowstreet mandate was converted from global equity to international equity on March 1, 2018.

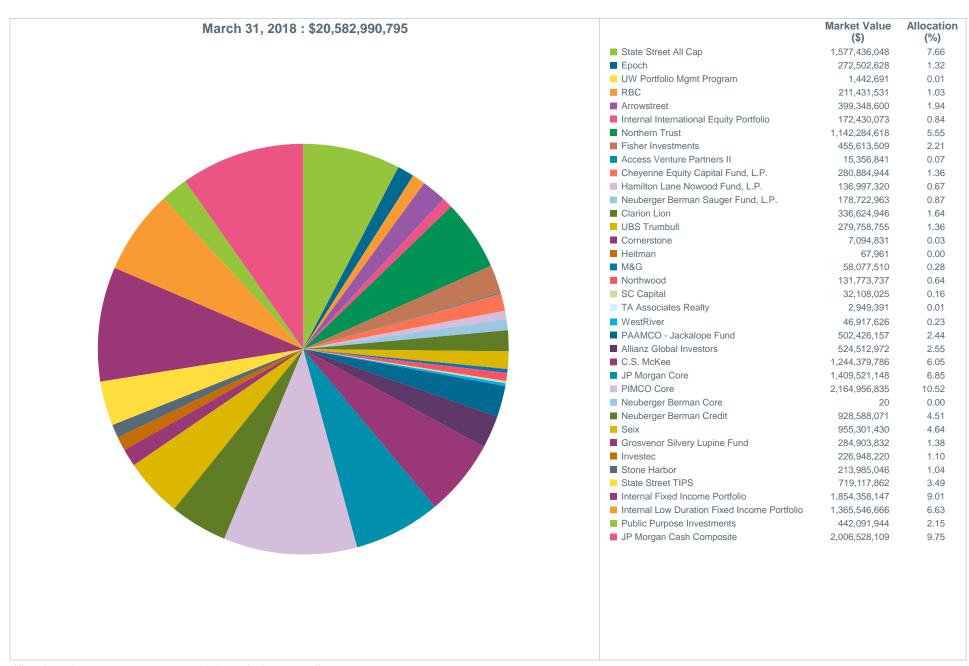
Asset Allocation & Performance					
	Allocation		Performance (%)		
	Market Value (\$)	%	FYTD		
Total Fund	20,582,990,795	100.00	3.56		
US Equity Composite	2,062,812,897	10.02	9.00		
State Street All Cap	1,577,436,048	7.66	9.72		
Epoch	272,502,628	1.32	9.59		
UW Portfolio Mgmt Program	1,442,691	0.01	9.29		
RBC	211,431,531	1.03	8.41		
Int'l Equity Composite	2,169,676,801	10.54	9.63		
Internal International Equity Portfolio	172,430,073	0.84	10.32		
Northern Trust	1,142,284,618	5.55	10.44		
Fisher Investments	455,613,509	2.21	8.48		
Arrowstreet	399,348,600	1.94	N/A		
Private Equity Composite	611,962,068	2.97	N/A		
Access Venture Partners II	15,356,841	0.07	N/A		
Cheyenne Equity Capital Fund, L.P.	280,884,944	1.36	N/A		
Hamilton Lane Nowood Fund, L.P.	136,997,320	0.67	N/A		
Neuberger Berman Sauger Fund, L.P.	178,722,963	0.87	N/A		
Real Estate Composite	895,372,782	4.35	N/A		
Clarion Lion	336,624,946	1.64	6.36		
UBS Trumbull	279,758,755	1.36	5.21		
Cornerstone	7,094,831	0.03	N/A		
Heitman	67,961	0.00	N/A		
M&G	58,077,510	0.28	N/A		
Northwood	131,773,737	0.64	N/A		

Asset Allocation & Performance						
	Allocation		Performance (%)			
	Market Value (\$)	%	FYTD			
SC Capital	32,108,025	0.16	N/A			
TA Associates Realty	2,949,391	0.01	N/A			
WestRiver	46,917,626	0.23	N/A			
Absolute Return Composite	502,426,157	2.44	1.98			
PAAMCO - Jackalope Fund	502,426,157	2.44	1.98			
Convertible Bonds Composite	524,512,972	2.55	9.97			
Allianz Global Investors	524,512,972	2.55	9.97			
Total Fixed Income Composite	11,367,607,064	55.23	0.85			
C.S. McKee	1,244,379,786	6.05	0.28			
JP Morgan	1,409,521,148	6.85	-0.26			
PIMCO	2,164,956,835	10.52	0.14			
Neuberger Berman Core	20	0.00	N/A			
Neuberger Berman Credit	928,588,071	4.51	1.92			
Seix	955,301,430	4.64	2.33			
Grosvenor Silvery Lupine Fund	284,903,832	1.38	6.49			
Investec	226,948,220	1.10	10.51			
Stone Harbor	213,985,046	1.04	9.29			
State Street TIPS	719,117,862	3.49	1.46			
Internal Fixed Income Portfolio	1,854,358,147	9.01	-0.19			
Internal Low Duration Fixed Income Portfolio	1,365,546,666	6.63	N/A			
Cash Equivalents	2,006,528,109	9.75	0.79			
Public Purpose Investments	442,091,944	2.15	N/A			

Schedule of Investable Assets - Total Fund Composite Ex Public Purpose Investments									
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return	Unit Value			
FYTD	19,944,050,925	-502,477,921	699,325,847	20,140,898,851	3.56	103.56			

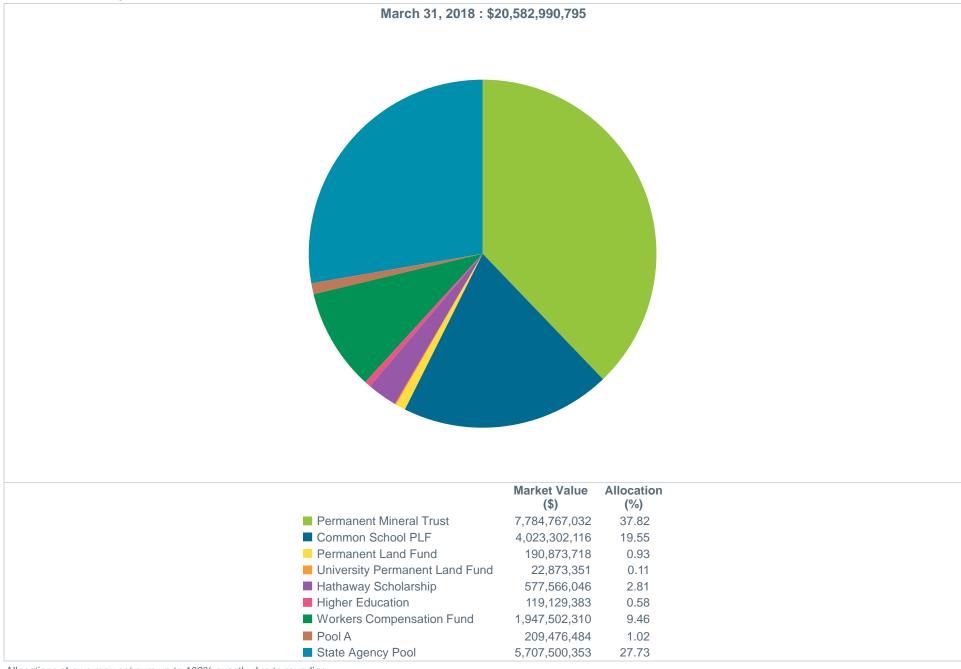
Allocations may not sum up to 100% exactly due to rounding. Performance shown is net of fees and excludes Public Purpose Investments (PPIs). Market value shown for Public Purpose Investments (PPIs) is as of 03/31/2018. Market value for Neuberger Berman Core represents residual assets and subsequent transactions from the liquidation process. Investment manager fees are accounted for on a quarterly basis. Wyoming State Treasurer's Office fiscal year ends on June 30th.





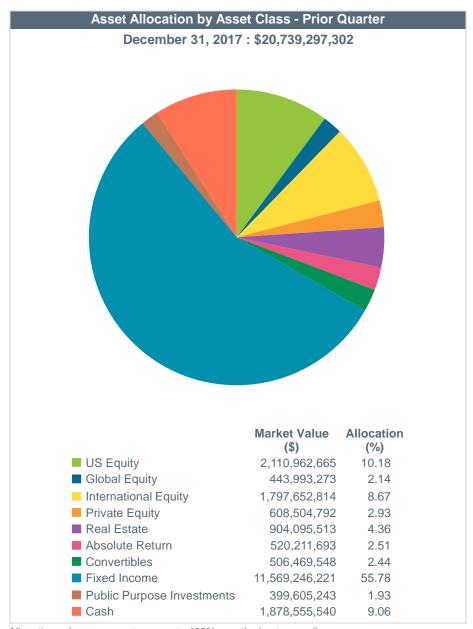
Allocations shown may not sum up to 100% exactly due to rounding.

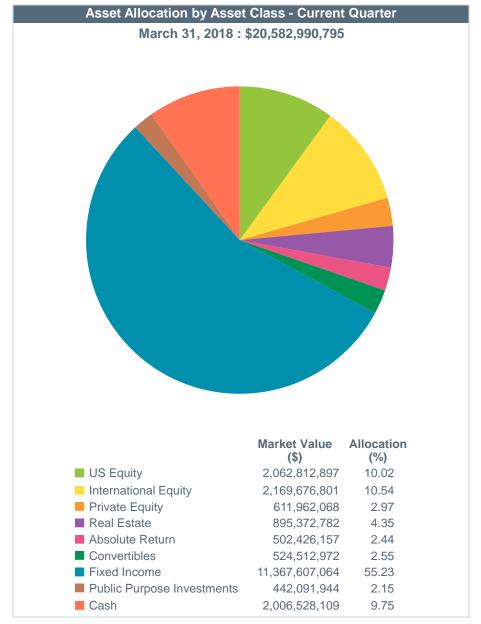




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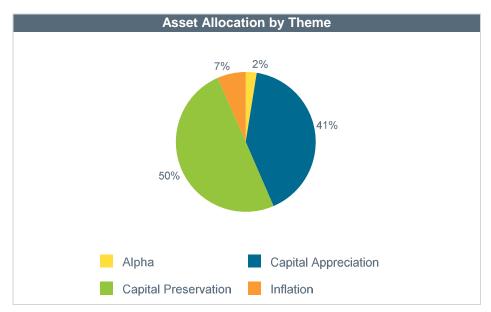


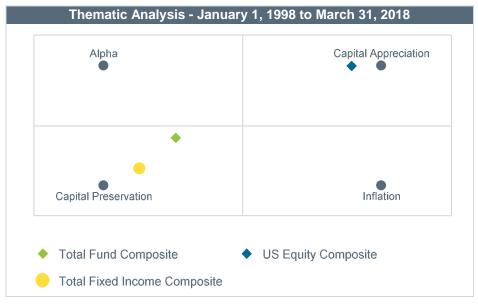


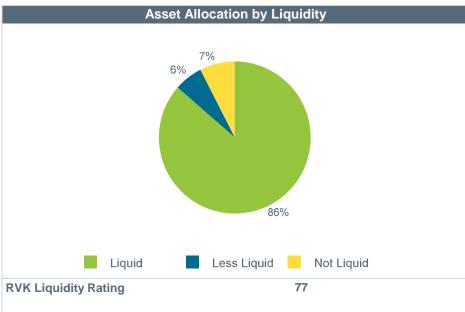


Allocations shown may not sum up to 100% exactly due to rounding.









	Correlation Matrix - 10 Years							
	Α	В	С	D				
Α	1.00							
В	0.56	1.00						
С	-0.36	-0.24	1.00					
D	0.46	0.86	-0.02	1.00				
A B C D	= = = =	HFRI EH: Eq Mkt Neut Ind MSCI ACW Index (USD) (C 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.

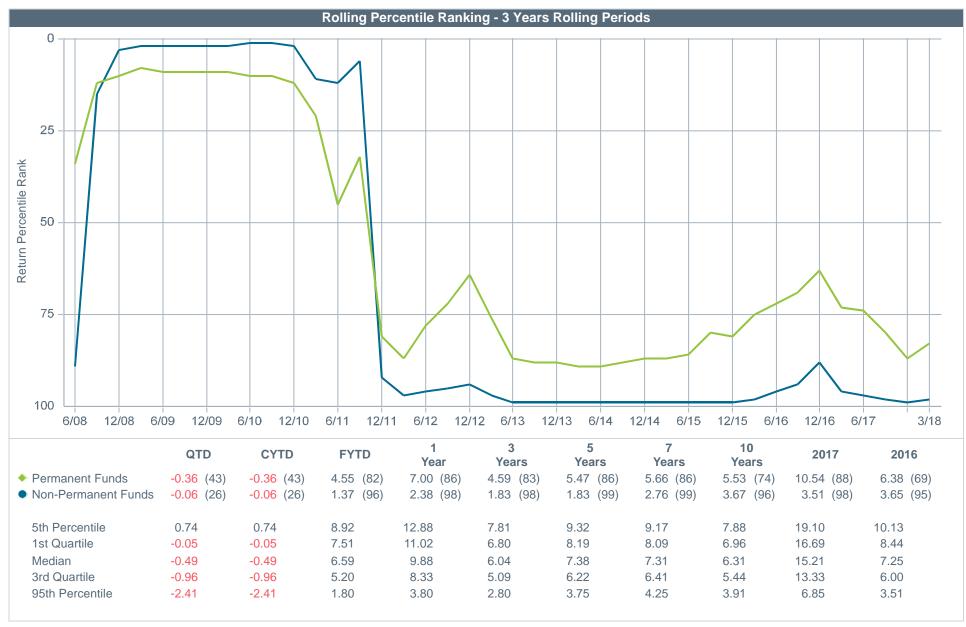


Wyoming State Treasurer's Office All Master Trust - Total Fund Plan Sponsor Peer Group Analysis



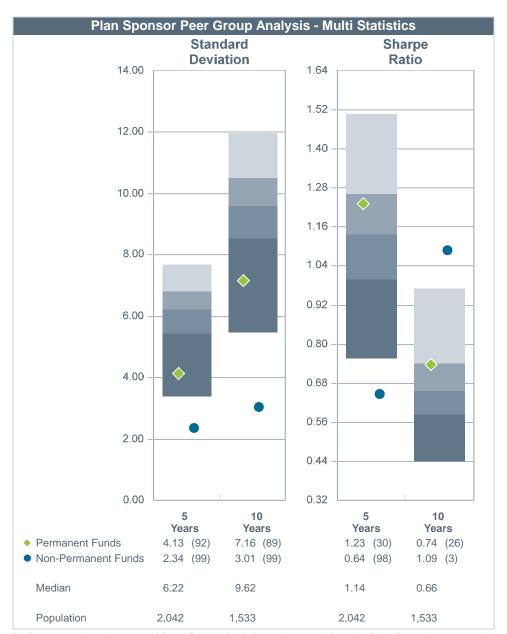
Performance shown is gross of fees. Calculation is based on quarterly periodicity. Parentheses contain percentile ranks. Wyoming State Treasurer's Office fiscal year ends on June 30th.

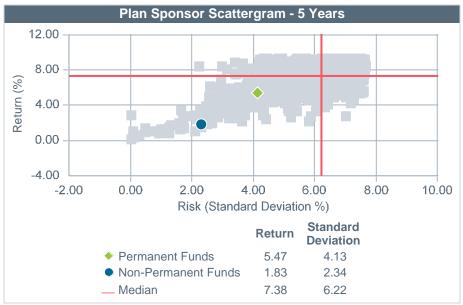


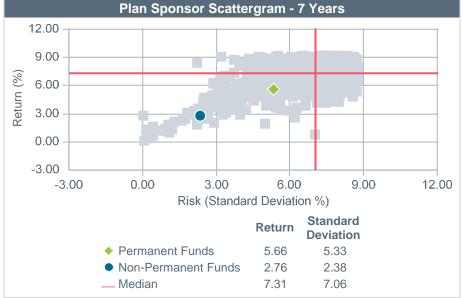


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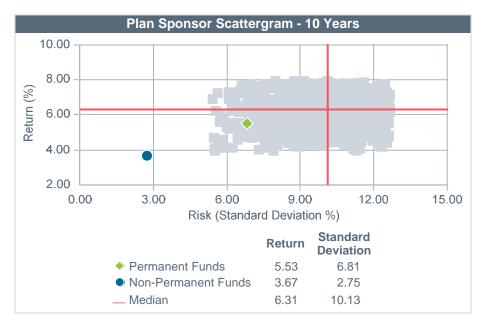


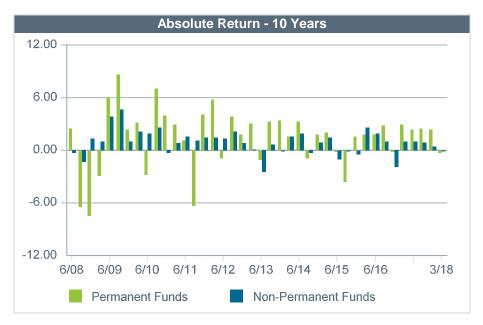


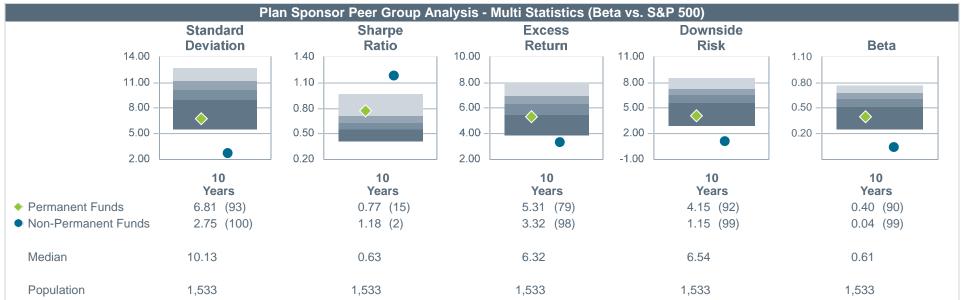


Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.





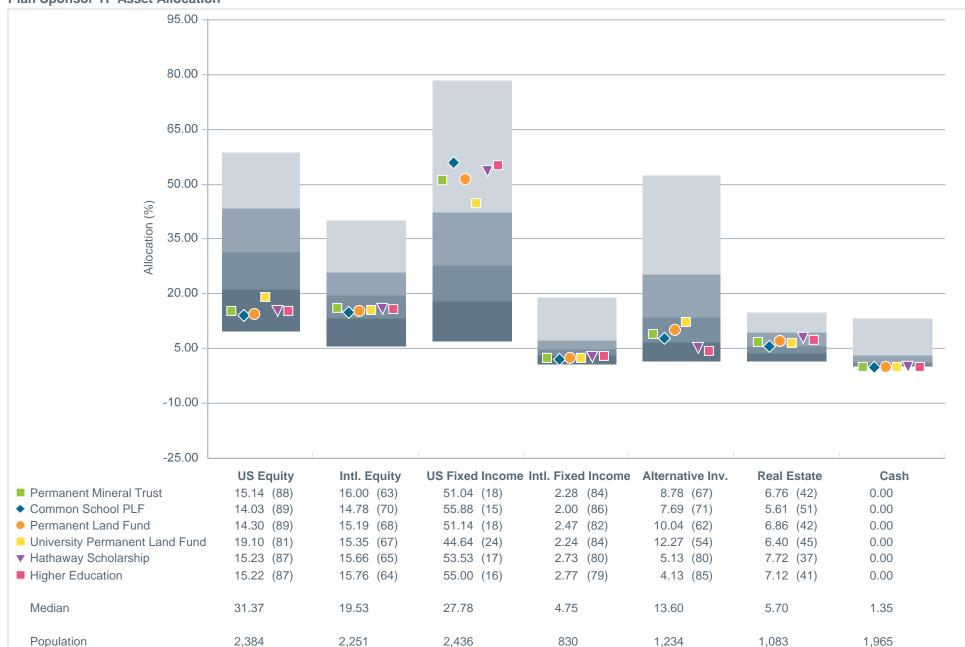




Performance shown is gross of fees. Calculation is based on quarterly periodicity. Parentheses contain percentile ranks.

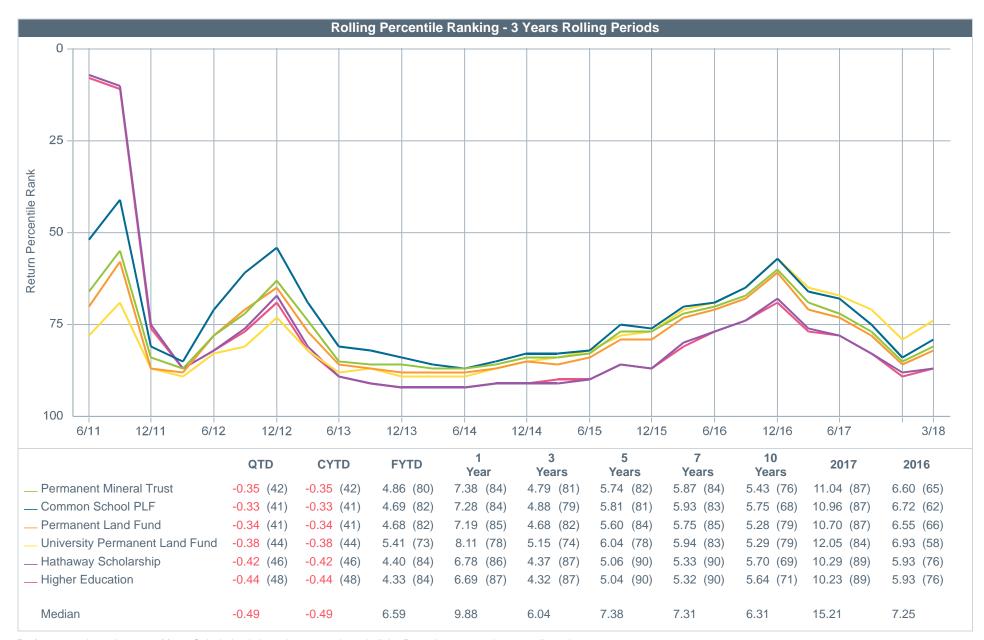


Wyoming State Treasurer's Office All Master Trust - Total Fund Plan Sponsor TF Asset Allocation



Parentheses contain percentile ranks. US Fixed Income allocation shown includes Convertibles and Cash (inv. in SAP).





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



Wyoming State Treasurer's Office Permanent Mineral Trust

Total Fund Characteristics

Fund Type: Permanent Fund

Main Objective: Produce maximized long-term investment income and capital gains while providing appropriate liquidity

Primary Investment Goal: Capital appreciation, total return, and protection against

inflation

Long-Term Return Expectation: CPI + 3%

Spending Policy: 5% of the five-year rolling average market value, calculated on the

first day of the fiscal year

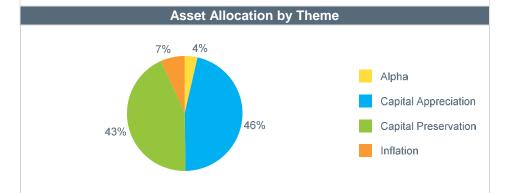
Funding Source: Constitutional and statutory mineral severance tax revenues, and

occasional direct legislative appropriations

Liquidity Constraints: The corpus cannot be spent but only invested for income and

capital gains

Maximum Equity Allocation: 70% Current Target Equity Allocation: 56%



MPT Stats						
	5	10				
	Years	Years				
Maximum Return	3.61	8.75				
Minimum Return	-4.08	-8.84				
Standard Deviation	3.80	7.32				
vs. S&P 500 Index (Cap	Wtd)					
Beta	0.44	0.43				
vs. ICE BofAML 3 Mo US T-Bill Index						
Sharpe Ratio	1.36	0.69				

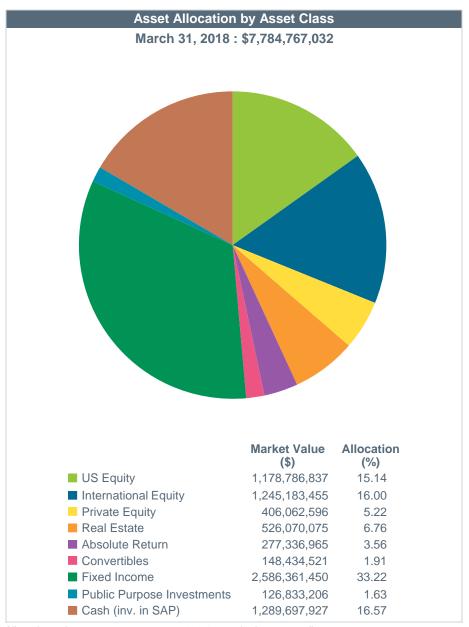
Asset Allocation vs. Target Allocation								
	Market Value (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)			
Permanent Mineral Trust	7,784,767	100.00	-	100.00	-			
US Equity	1,178,787	15.14	13.15	16.40	19.65			
International Equity	1,245,183	16.00	11.35	14.60	17.85			
Private Equity	406,063	5.22	2.00	4.00	6.00			
Real Estate	526,070	6.76	4.50	7.50	10.50			
Absolute Return	277,337	3.56	4.50	7.50	10.50			
Convertibles	148,435	1.91	1.00	2.00	3.00			
Fixed Income	2,586,361	33.22	40.00	45.00	50.00			
Public Purpose Investments	126,833	1.63	0.00	0.00	0.00			
Cash (inv. in SAP)	1,289,698	16.57	0.00	3.00	6.00			



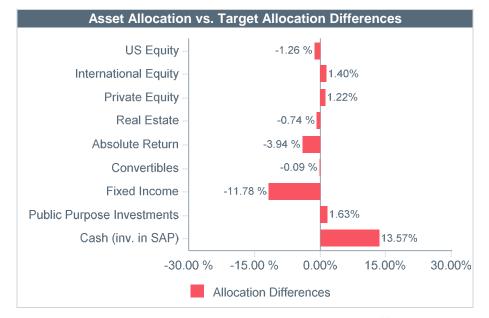


Performance shown is net of fees. Calculations are based on quarterly periodicity. Allocations shown may not sum up to 100% exactly due to rounding.

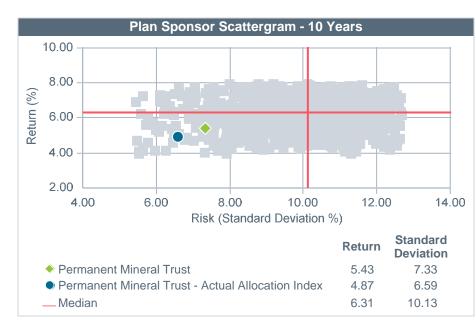




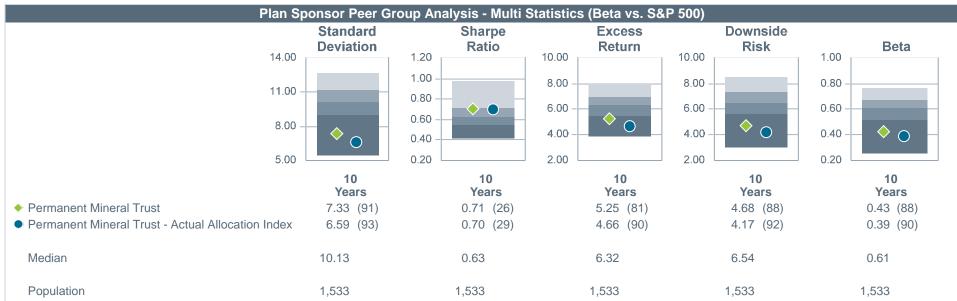
	Market Value (\$)	Allocation (%)	Target (%)
US Equity	1,178,786,837	15.14	16.40
International Equity	1,245,183,455	16.00	14.60
Private Equity	406,062,596	5.22	4.00
Real Estate	526,070,075	6.76	7.50
Absolute Return	277,336,965	3.56	7.50
Convertibles	148,434,521	1.91	2.00
Fixed Income	2,586,361,450	33.22	45.00
Public Purpose Investments	126,833,206	1.63	0.00
Cash (inv. in SAP)	1,289,697,927	16.57	3.00
Total Fund	7,784,767,032	100.00	100.00











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



Wyoming State Treasurer's Office Common School Permanent Land Fund

Total Fund Characteristics

investment Pool Profile

Fund Type: Permanent Fund

Main Objective: Produce maximized long-term investment income and capital gains while providing appropriate liquidity

Primary Investment Goal: Income generation, capital appreciation, total return, and

protection against inflation

Long-Term Return Expectation: CPI + 3%

Spending Policy: 5% of the five-year rolling average market value, calculated on the

first day of the fiscal year

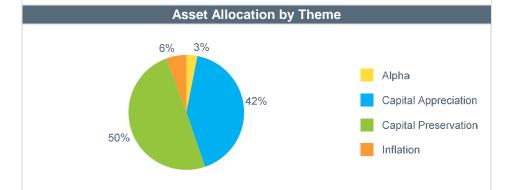
Funding Source: Royalties, leases, fees and permits, and other revenue generated

from State lands

Liquidity Constraints: The corpus cannot be spent but only invested for income and

capital gains

Maximum Equity Allocation: 70% Current Target Equity Allocation: 44%



MPT Stats		
	5	10
	Years	Years
Maximum Return	3.57	8.79
Minimum Return	-3.85	-8.51
Standard Deviation	3.68	7.31
vs. S&P 500 Index (Cap	Wtd)	
Beta	0.43	0.43
vs. ICE BofAML 3 Mo US T	-Bill Index	
Sharpe Ratio	1.43	0.73

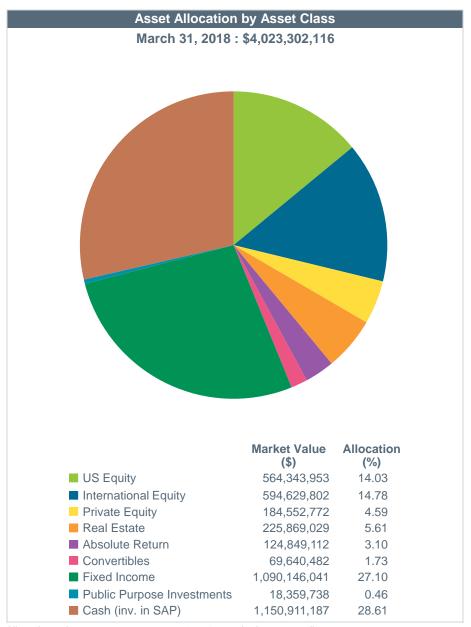
Asset Allocation vs. Target Allocation					
	Market Value (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)
Common School PLF	4,023,302	100.00	-	100.00	-
US Equity	564,344	14.03	13.15	16.40	19.65
International Equity	594,630	14.78	11.35	14.60	17.85
Private Equity	184,553	4.59	2.00	4.00	6.00
Real Estate	225,869	5.61	4.50	7.50	10.50
Absolute Return	124,849	3.10	4.50	7.50	10.50
Convertibles	69,640	1.73	1.00	2.00	3.00
Fixed Income	1,090,146	27.10	40.00	45.00	50.00
Public Purpose Investments	18,360	0.46	0.00	0.00	0.00
Cash (inv. in SAP)	1,150,911	28.61	0.00	3.00	6.00



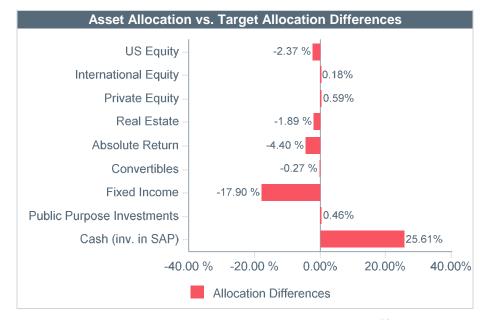




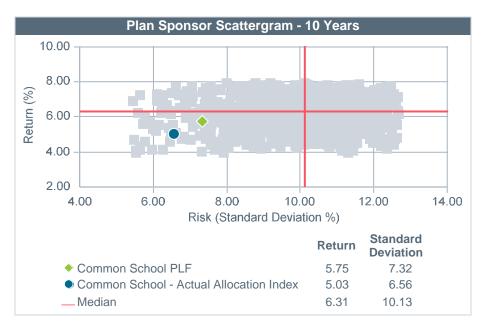


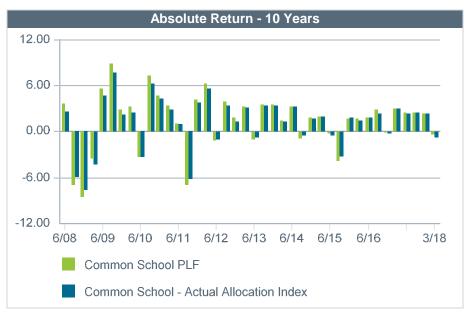


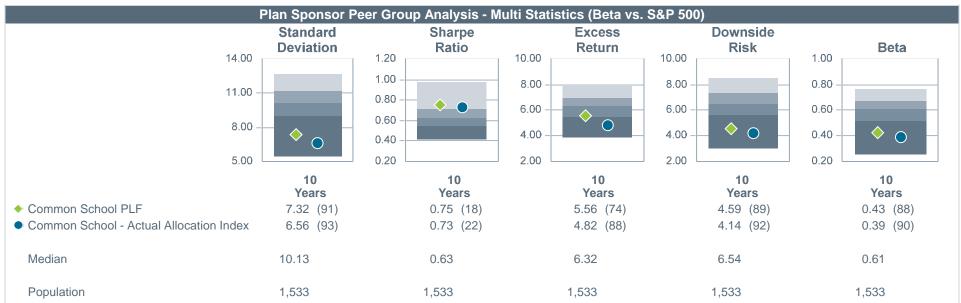
Asset Allocation vs. Target Allocation				
	Market Value (\$)	Allocation (%)	Target (%)	
US Equity	564,343,953	14.03	16.40	
International Equity	594,629,802	14.78	14.60	
Private Equity	184,552,772	4.59	4.00	
Real Estate	225,869,029	5.61	7.50	
Absolute Return	124,849,112	3.10	7.50	
Convertibles	69,640,482	1.73	2.00	
Fixed Income	1,090,146,041	27.10	45.00	
Public Purpose Investments	18,359,738	0.46	0.00	
Cash (inv. in SAP)	1,150,911,187	28.61	3.00	
Total Fund	4,023,302,116	100.00	100.00	











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



Wyoming State Treasurer's Office Permanent Land Fund

Total Fund Characteristics

Investment Pool Profile

Fund Type: Permanent Fund

Main Objective: Produce maximized long-term investment income and capital gains

while providing appropriate liquidity

Primary Investment Goal: Capital appreciation, total return, and protection against

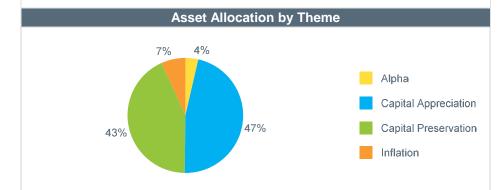
inflation

Long-Term Return Expectation: CPI + 3%

Funding Source: Royalties, leases, fees and permits, and other revenue generated

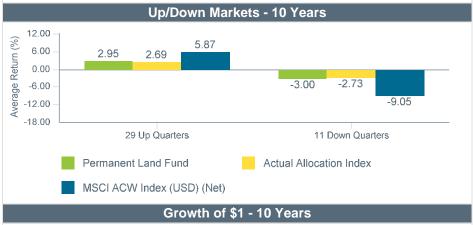
from State lands

Maximum Equity Allocation: 70% **Current Target Equity Allocation:** 56%



MPT Stats		
	5	10
	Years	Years
Maximum Return	3.46	8.43
Minimum Return	-3.85	-8.46
Standard Deviation	3.67	7.03
vs. S&P 500 Index (Cap \	Vtd)	
Beta	0.42	0.41
vs. ICE BofAML 3 Mo US T	·Bill Index	
Sharpe Ratio	1.38	1.07

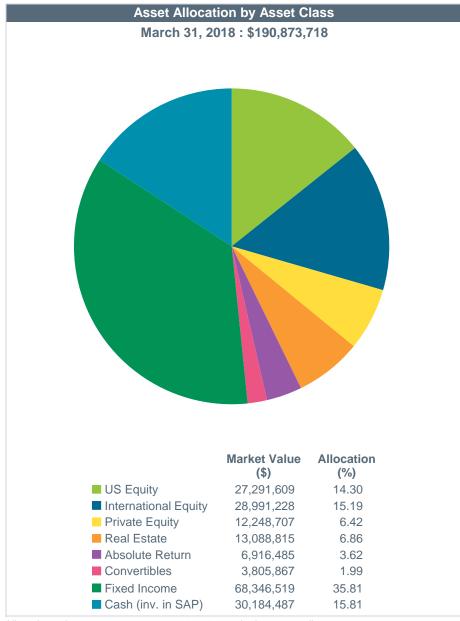
Asset Allocation vs. Target Allocation					
	Market Value (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)
Permanent Land Fund	190,874	100.00	-	100.00	-
US Equity	27,292	14.30	13.15	16.40	19.65
International Equity	28,991	15.19	11.35	14.60	17.85
Private Equity	12,249	6.42	2.00	4.00	6.00
Real Estate	13,089	6.86	4.50	7.50	10.50
Absolute Return	6,916	3.62	4.50	7.50	10.50
Convertibles	3,806	1.99	1.00	2.00	3.00
Fixed Income	68,347	35.81	38.00	43.00	48.00
Cash (inv. in SAP)	30,184	15.81	0.00	5.00	10.00



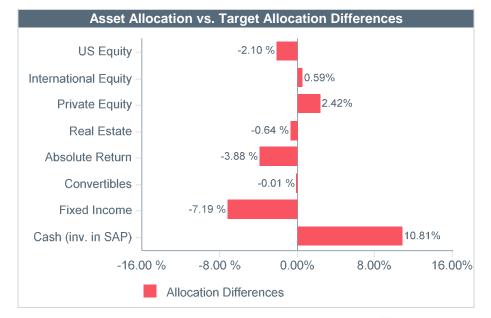


Performance shown is net of fees. Calculations are based on quarterly periodicity. Allocations shown may not sum up to 100% exactly due to rounding.





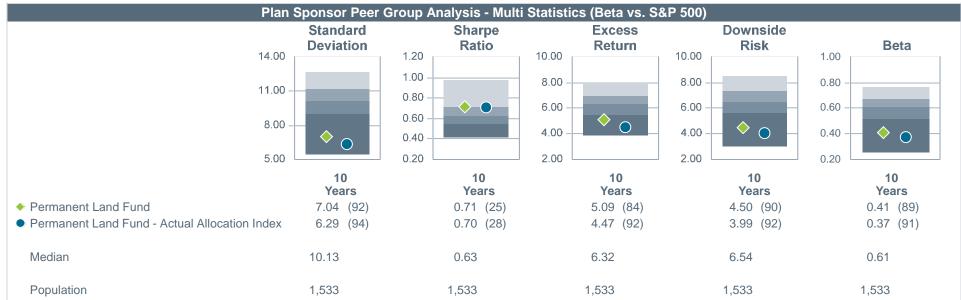
Asset Allocation vs. Target Allocation			
	Market Value (\$)	Allocation (%)	Target (%)
US Equity	27,291,609	14.30	16.40
International Equity	28,991,228	15.19	14.60
Private Equity	12,248,707	6.42	4.00
Real Estate	13,088,815	6.86	7.50
Absolute Return	6,916,485	3.62	7.50
Convertibles	3,805,867	1.99	2.00
Fixed Income	68,346,519	35.81	43.00
Cash (inv. in SAP)	30,184,487	15.81	5.00
Total Fund	190,873,718	100.00	100.00











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



Wyoming State Treasurer's Office University Permanent Land Fund Total Fund Characteristics

Investment Pool Profile

Fund Type: Permanent Fund

Main Objective: Produce maximized long-term investment income and capital gains while providing appropriate liquidity

Primary Investment Goal: Capital appreciation, total return, and protection against

inflation

Long-Term Return Expectation: CPI + 3%

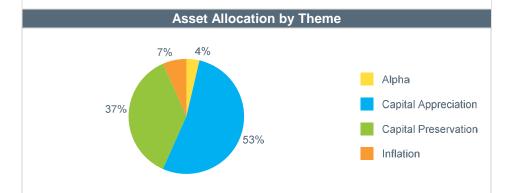
Funding Source: Royalties, leases, fees and permits, and other revenue generated

from State lands

Liquidity Constraints: The corpus cannot be spent but only invested for income and

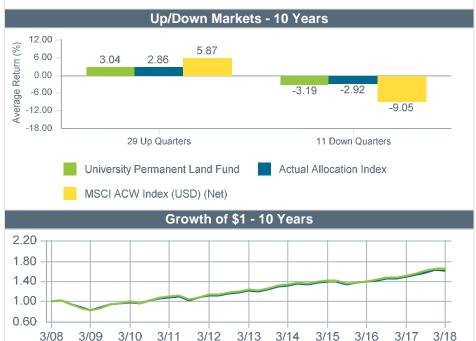
capital gains

Maximum Equity Allocation: 70% Current Target Equity Allocation: 56%



MPT Stats		
	5	10
	Years	Years
Maximum Return	3.65	8.42
Minimum Return	-4.43	-9.52
Standard Deviation	3.95	7.37
vs. S&P 500 Index (Cap	Wtd)	
Beta	0.47	0.43
vs. ICE BofAML 3 Mo US T	-Bill Index	
Sharpe Ratio	1.39	0.67

Asset Allocation vs. Target Allocation					
	Market Value (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)
University Permanent Land Fund	22,873	100.00	-	100.00	-
US Equity	4,370	19.10	13.15	16.40	19.65
International Equity	3,511	15.35	11.35	14.60	17.85
Private Equity	1,968	8.60	2.00	4.00	6.00
Real Estate	1,464	6.40	4.50	7.50	10.50
Absolute Return	839	3.67	4.50	7.50	10.50
Convertibles	431	1.88	1.00	2.00	3.00
Fixed Income	7,255	31.72	38.00	43.00	48.00
Cash (inv. in SAP)	3,036	13.27	0.00	5.00	10.00

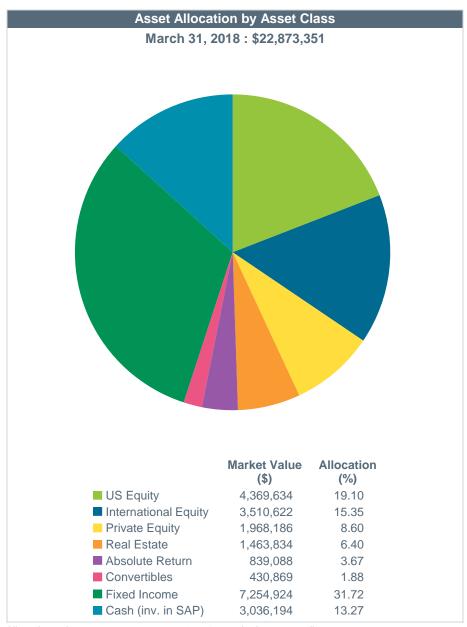


University Permanent Land Fund

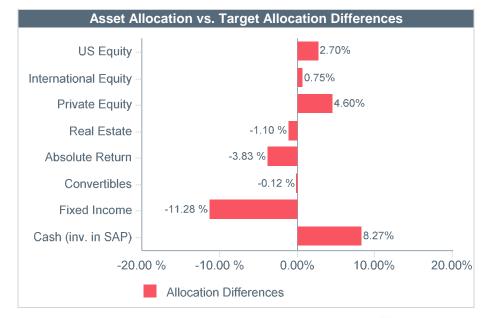
— Actual Allocation Index



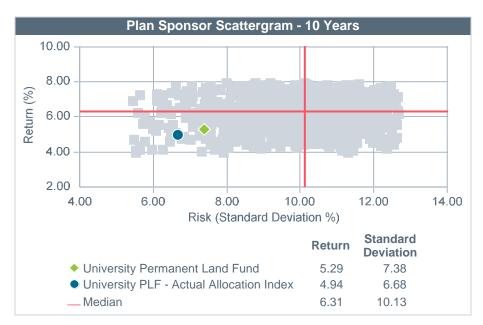


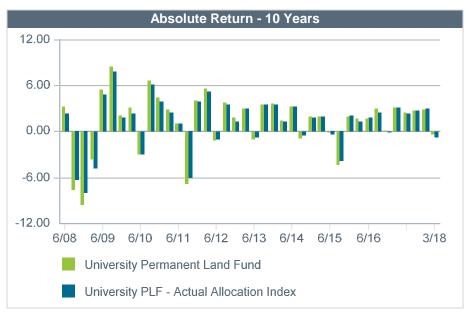


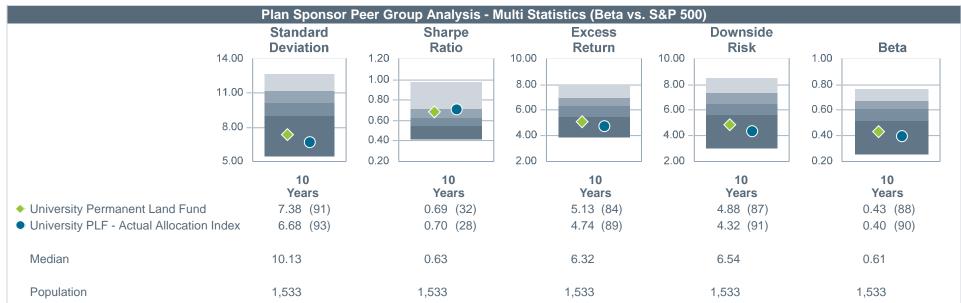
Market Value (\$)	Allocation (%)	Target (%)
4,369,634	19.10	16.40
3,510,622	15.35	14.60
1,968,186	8.60	4.00
1,463,834	6.40	7.50
839,088	3.67	7.50
430,869	1.88	2.00
7,254,924	31.72	43.00
3,036,194	13.27	5.00
22,873,351	100.00	100.00
	(\$) 4,369,634 3,510,622 1,968,186 1,463,834 839,088 430,869 7,254,924 3,036,194	(\$) (%) 4,369,634 19.10 3,510,622 15.35 1,968,186 8.60 1,463,834 6.40 839,088 3.67 430,869 1.88 7,254,924 31.72 3,036,194 13.27











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



Wyoming State Treasurer's Office Hathaway Scholarship Endowment Fund Total Fund Characteristics

Total Fund Characteristics

Investment Pool Profile

Fund Type: Permanent Fund

Main Objective: Produce maximized long-term investment income and capital gains

while providing appropriate liquidity

Primary Investment Goal: Capital appreciation, total return, and protection against

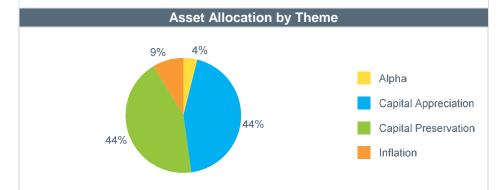
inflation

Long-Term Return Expectation: CPI + 3% **Funding Source:** Federal mineral royalties

Liquidity Constraints: The corpus cannot be spent but only invested for income and

capital gains

Maximum Equity Allocation: 70% Current Target Equity Allocation: 56%



MPT Stats				
	5 Years	10 Years		
Maximum Return	3.10	7.90		
Minimum Return	-3.25	-5.89		
Standard Deviation vs. S&P 500 Index (Cap V	3.43 Vtd)	5.98		
Beta	0.36	0.34		
vs. ICE BofAML 3 Mo US T-	Bill Index			
Sharpe Ratio	1.32	0.87		

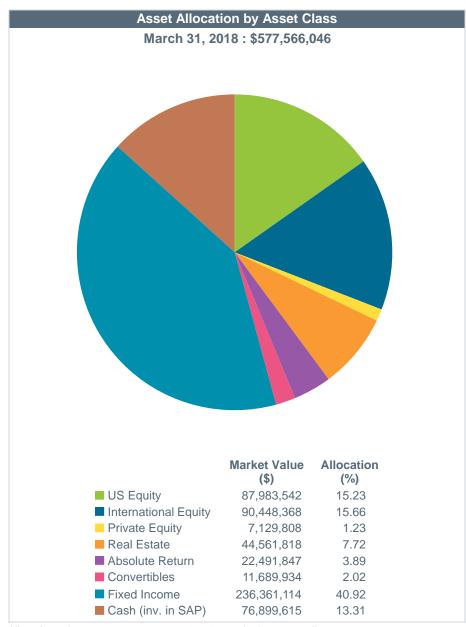
Asset Allocation vs. Target Allocation					
	Market Value (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)
Hathaway Scholarship	577,566	100.00	-	100.00	-
US Equity	87,984	15.23	12.95	16.20	19.45
International Equity	90,448	15.66	10.95	14.20	17.45
Private Equity	7,130	1.23	0.00	0.00	0.00
Real Estate	44,562	7.72	4.30	7.30	10.30
Absolute Return	22,492	3.89	4.30	7.30	10.30
Convertibles	11,690	2.02	1.00	2.00	3.00
Fixed Income	236,361	40.92	43.00	48.00	53.00
Cash (inv. in SAP)	76,900	13.31	0.00	5.00	10.00



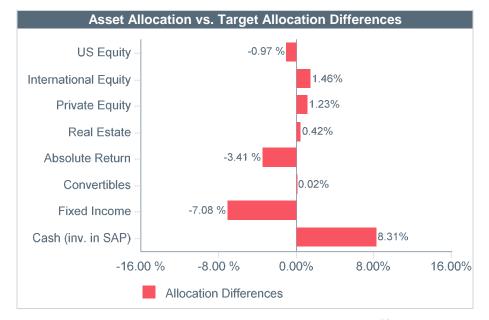




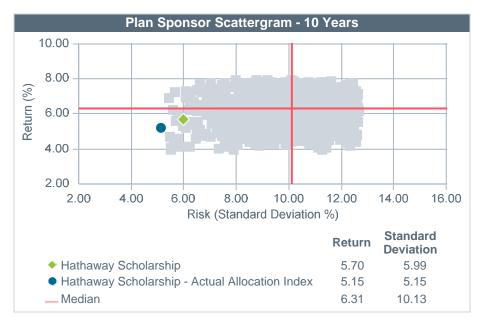




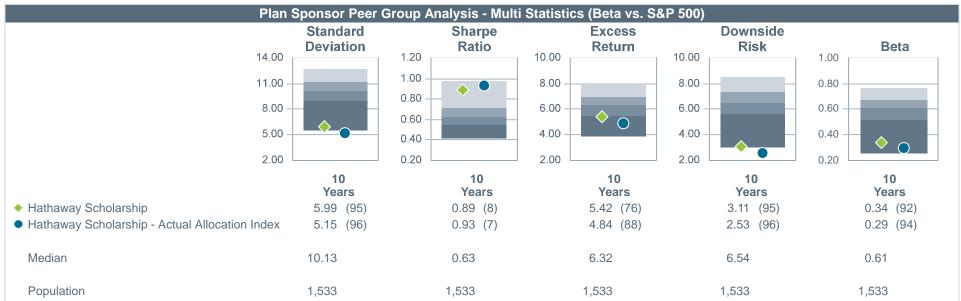
Asset Allocation vs. Target Allocation				
	Market Value (\$)	Allocation (%)	Target (%)	
US Equity	87,983,542	15.23	16.20	
International Equity	90,448,368	15.66	14.20	
Private Equity	7,129,808	1.23	0.00	
Real Estate	44,561,818	7.72	7.30	
Absolute Return	22,491,847	3.89	7.30	
Convertibles	11,689,934	2.02	2.00	
Fixed Income	236,361,114	40.92	48.00	
Cash (inv. in SAP)	76,899,615	13.31	5.00	
Total Fund	577,566,046	100.00	100.00	











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



Wyoming State Treasurer's Office Higher Education Endowment Fund

Total Fund Characteristics

Investment Pool Profile

Fund Type: Permanent Fund

Main Objective: Produce maximized long-term investment income and capital gains

while providing appropriate liquidity

Primary Investment Goal: Income generation, capital appreciation, total return, and

protection against inflation

Long-Term Return Expectation: CPI + 3%

Spending Policy: 5% of the five-year rolling average market value, calculated on the

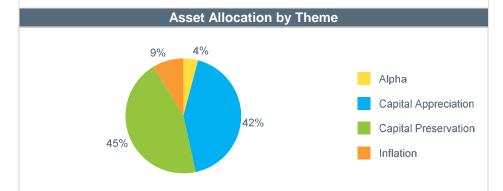
first day of the fiscal year

Funding Source: Federal mineral royalties

Liquidity Constraints: The corpus cannot be spent but only invested for income and

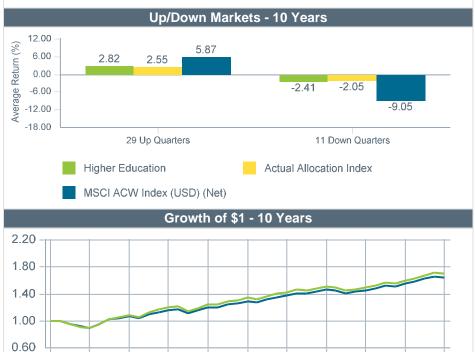
capital gains

Maximum Equity Allocation: 70% Current Target Equity Allocation: 44%



MPT Stats					
5	10				
Years	Years				
3.10	8.07				
-3.33	-5.89				
3.46	6.03				
0.37	0.35				
vs. ICE BofAML 3 Mo US T-Bill Index					
1.30	0.85				
	5 Years 3.10 -3.33 3.46 0.37				

Asset Allocation vs. Target Allocation					
	Market Value (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)
Higher Education	119,129	100.00	-	100.00	-
US Equity	18,126	15.22	12.95	16.20	19.45
International Equity	18,777	15.76	10.95	14.20	17.45
Real Estate	8,485	7.12	4.30	7.30	10.30
Absolute Return	4,918	4.13	4.30	7.30	10.30
Convertibles	2,461	2.07	1.00	2.00	3.00
Fixed Income	49,559	41.60	43.00	48.00	53.00
Cash (inv. in SAP)	16,801	14.10	0.00	5.00	10.00



3/10

Higher Education

3/11

3/12

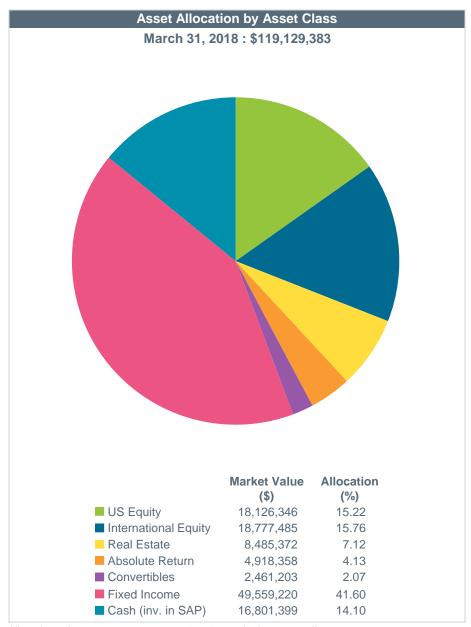
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Actual Allocation Index

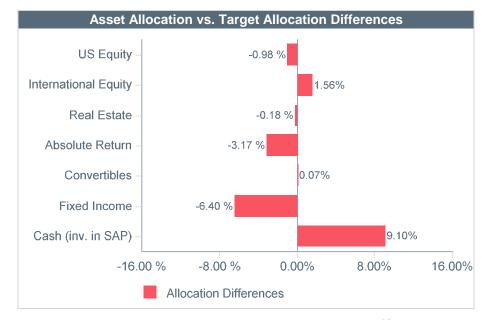
Performance shown is net of fees. Calculations are based on quarterly periodicity.



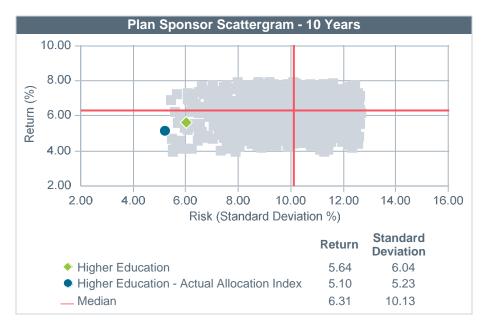
3/15 3/16 3/17

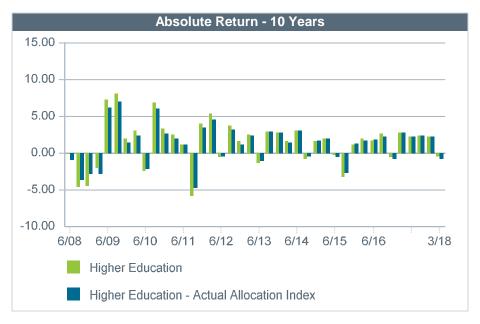


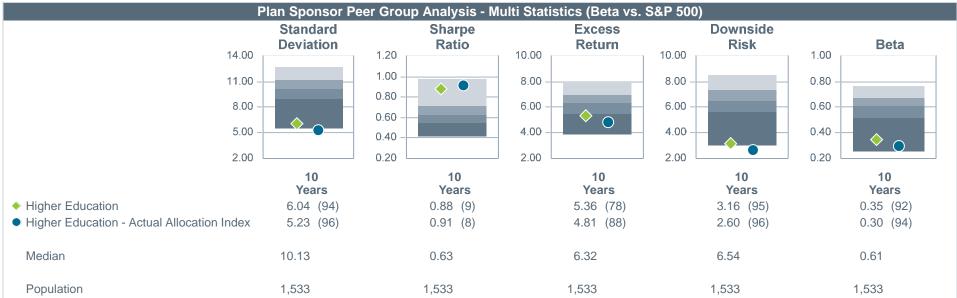
Asset Allocation vs. Target Allocation				
	Market Value (\$)	Allocation (%)	Target (%)	
US Equity	18,126,346	15.22	16.20	
International Equity	18,777,485	15.76	14.20	
Real Estate	8,485,372	7.12	7.30	
Absolute Return	4,918,358	4.13	7.30	
Convertibles	2,461,203	2.07	2.00	
Fixed Income	49,559,220	41.60	48.00	
Cash (inv. in SAP)	16,801,399	14.10	5.00	
Total Fund	119,129,383	100.00	100.00	











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



Wyoming State Treasurer's Office Workers Compensation Fund Total Fund Characteristics

Investment Pool Profile

Fund Type: Permanent Fund

Main Objective: To be invested for the very long-term to produce a situation in which the fund is self funding or nearly self-funding in order to substantially reduce or

eliminate the need for employer contributions

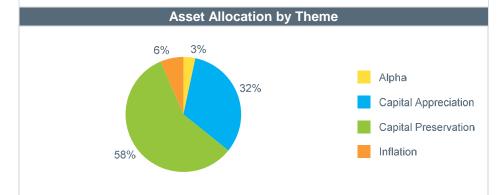
Primary Investment Goal: Long-term return, safety of capital, yield, and capital

appreciation

Long-Term Return Expectation: CPI + 3% Funding Source: Employer premiums

Liquidity Constraints: The Fund must be managed for long-term return with cash flow

necessary only in the case of a disaster Maximum Equity Allocation: 70% Current Target Equity Allocation: 27%



MPT Stats				
	5	10		
	Years	Years		
Maximum Return	2.79	7.88		
Minimum Return	-2.09	-3.65		
Standard Deviation	2.98	4.84		
vs. S&P 500 Index (Cap V	/td)			
Beta	0.24	0.25		
vs. ICE BofAML 3 Mo US T-	Bill Index			
Sharpe Ratio	1.16	1.00		

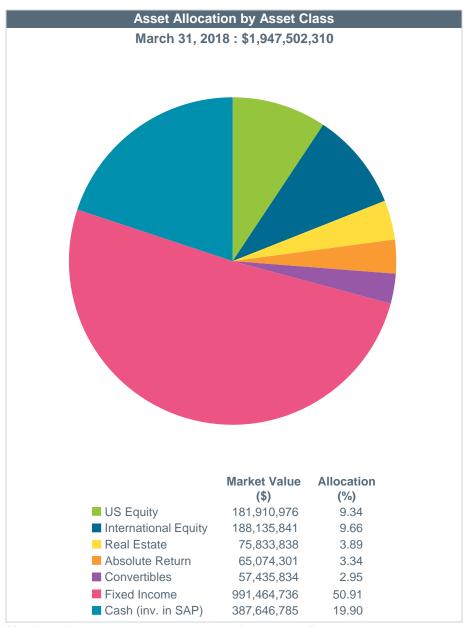
Asset Allocation vs. Target Allocation					
	Market Value (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)
Workers Compensation Fund	1,947,502	100.00	-	100.00	-
US Equity	181,911	9.34	7.75	10.00	12.25
International Equity	188,136	9.66	7.00	9.00	11.00
Real Estate	75,834	3.89	2.25	4.00	5.75
Absolute Return	65,074	3.34	4.00	7.00	10.00
Convertibles	57,436	2.95	1.75	3.00	4.25
Fixed Income	991,465	50.91	56.00	62.00	68.00
Cash (inv. in SAP)	387,647	19.90	0.00	5.00	10.00



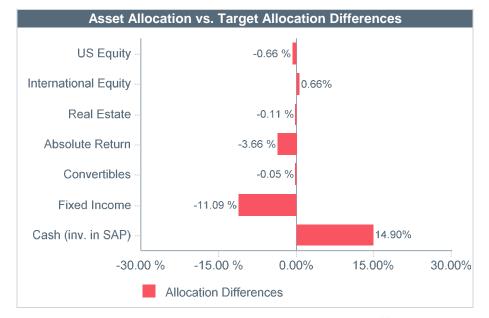








Asset Allocation vs. Target Allocation				
	Market Value (\$)	Allocation (%)	Target (%)	
US Equity	181,910,976	9.34	10.00	
International Equity	188,135,841	9.66	9.00	
Real Estate	75,833,838	3.89	4.00	
Absolute Return	65,074,301	3.34	7.00	
Convertibles	57,435,834	2.95	3.00	
Fixed Income	991,464,736	50.91	62.00	
Cash (inv. in SAP)	387,646,785	19.90	5.00	
Total Fund	1,947,502,310	100.00	100.00	





Wyoming State Treasurer's Office Pool A

Total Fund Characteristics

investment Pool Profile

Fund Type: Non-Permanent Fund

Main Objective: Managed for investment of payments received pursuant to the Master

Settlement Agreement

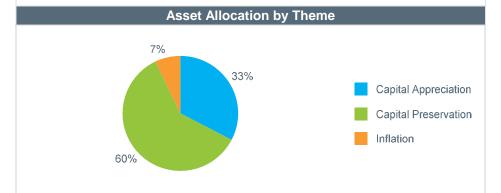
Primary Investment Goal: Safety of capital, yield, and liquidity

Long-Term Return Expectation: CPI + 2%

Funding Source: Settlement proceeds received under the 1998 Master Settlement

Agreement between States and tobacco companies

Maximum Equity Allocation: 60% Current Target Equity Allocation: 23%



MPT Stats				
	5	10		
	Years	Years		
Maximum Return	2.95	5.24		
Minimum Return	-3.12	-3.12		
Standard Deviation	2.96	3.24		
vs. S&P 500 Index (Cap	Wtd)			
Beta	0.02	0.05		
vs. ICE BofAML 3 Mo US T	-Bill Index			
Sharpe Ratio	0.56	1.12		

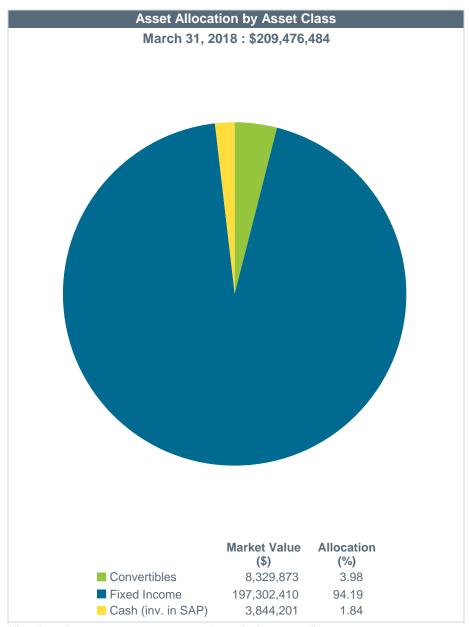
	Asset Allocation vs. Target Allocation						
	Market Value Allocation Minimum Target Range (%) (%) (%)						
Pool A	209,476	100.00	-	100.00	-		
Convertibles	8,330	3.98	1.75	3.00	4.25		
Fixed Income	197,302	94.19	88.00	94.00	100.00		
Cash (inv. in SAP)	3,844	1.84	0.00	3.00	6.00		



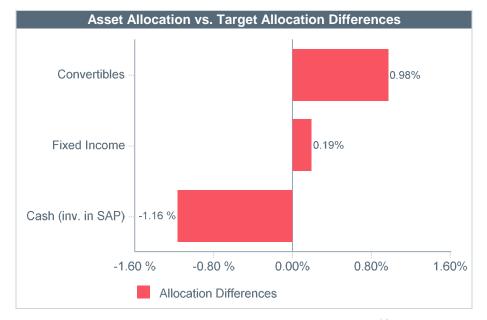


Performance shown is net of fees. Calculations are based on quarterly periodicity.





Asset Allocation vs. Target Allocation											
	Market Value (\$)	Allocation (%)	Target (%)								
Convertibles	8,329,873	3.98	3.00								
Fixed Income	197,302,410	94.19	94.00								
Cash (inv. in SAP)	3,844,201	1.84	3.00								
Total Fund	209,476,484	100.00	100.00								





Wyoming State Treasurer's Office State Agency Pool

Total Fund Characteristics

Investment Pool Profile	

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 liquidity

Primary Investment Goal: Safety of capital, yield, and liquidity

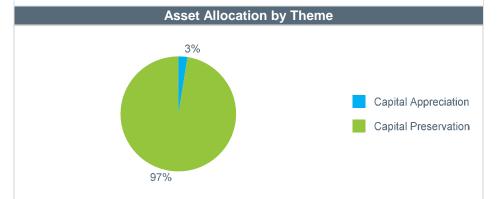
Long-Term Return Expectation: CPI + 2%

Funding Source: Monies from all other State funds pooled for investment

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

State

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



MPT Stats									
	5	10							
	Years	Years							
Maximum Return	2.56	4.61							
Minimum Return	-2.51	-2.51							
Standard Deviation	2.50	2.74							
vs. S&P 500 Index (Cap	Wtd)								
Beta	0.01	0.04							
vs. ICE BofAML 3 Mo US T	-Bill Index								
Sharpe Ratio	0.53	1.12							

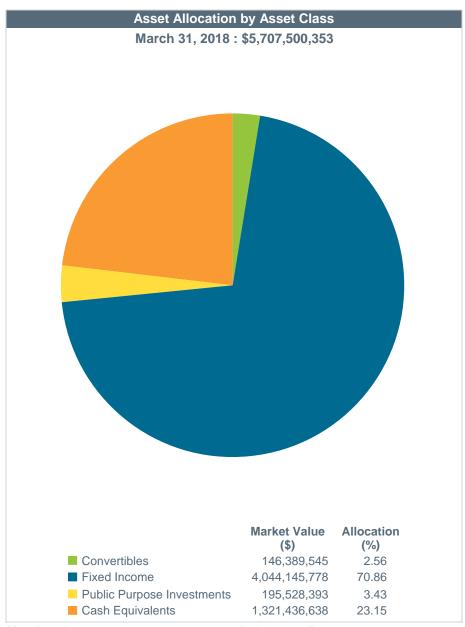
Asset Allocation vs. Target Allocation												
	Market Value (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)							
State Agency Pool	5,707,500	100.00	-	100.00	-							
Convertibles	146,390	2.56	1.75	3.00	4.25							
Fixed Income	4,044,146	70.86	82.00	88.00	94.00							
Cash Equivalents	1,321,437	23.15	0.00	9.00	18.00							
Public Purpose Investments	195,528	3.43	0.00	0.00	0.00							



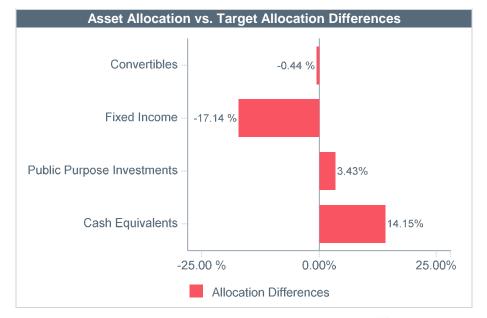


Performance shown is net of fees. Calculations are based on quarterly periodicity.



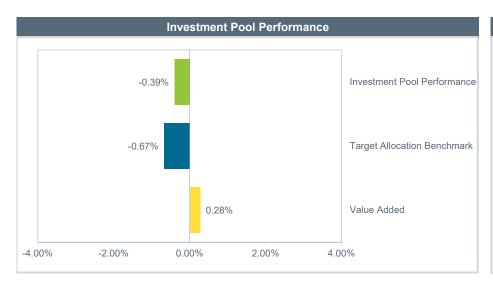


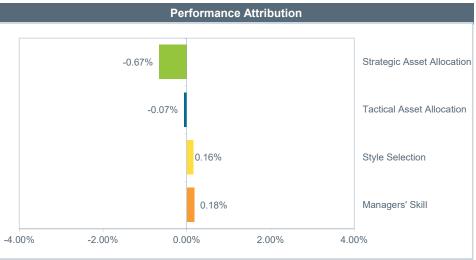
Asset Allocation vs. Target Allocation												
	Market Value (\$)	Allocation (%)	Target (%)									
Convertibles	146,389,545	2.56	3.00									
Fixed Income	4,044,145,778	70.86	88.00									
Public Purpose Investments	195,528,393	3.43	0.00									
Cash Equivalents	1,321,436,638	23.15	9.00									
Total Fund	5,707,500,353	100.00	100.00									

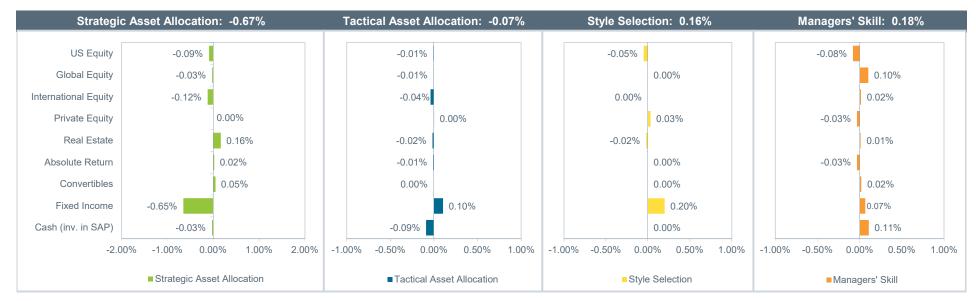




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Permanent Mineral Trust Fund vs. Target Allocation Index 1 Quarter Ending March 31, 2018

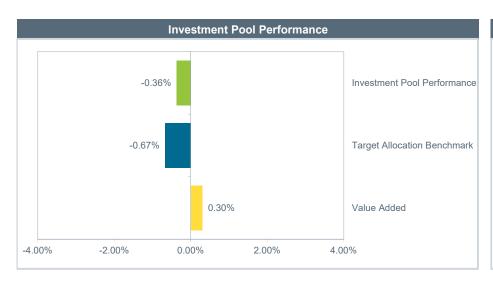


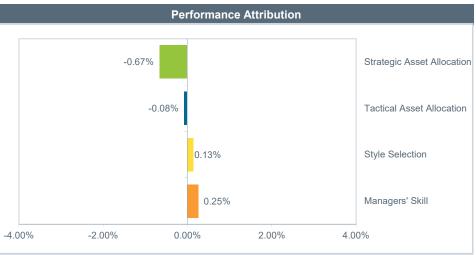


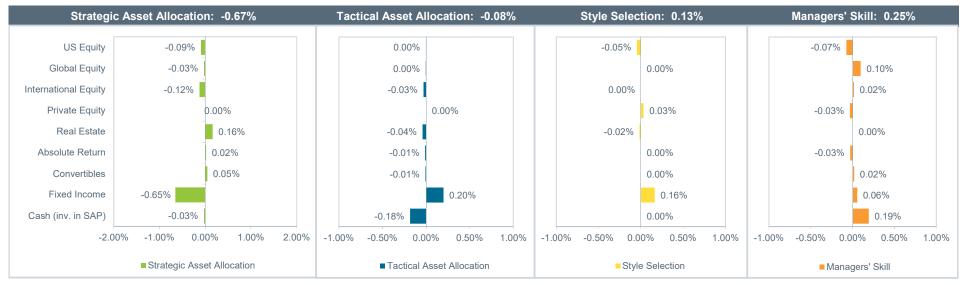




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Common School Permanent Land Fund vs. Target Allocation Index 1 Quarter Ending March 31, 2018

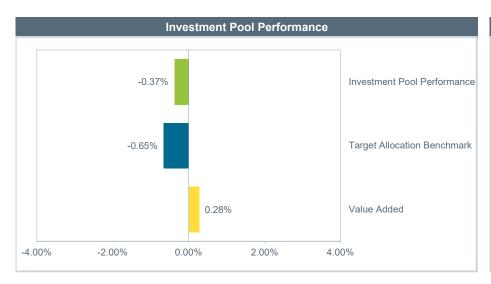


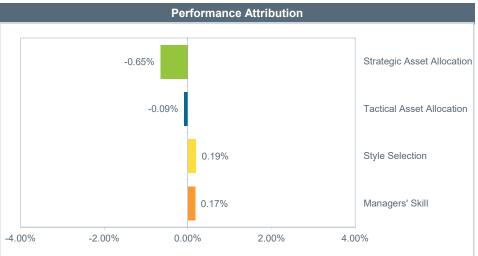


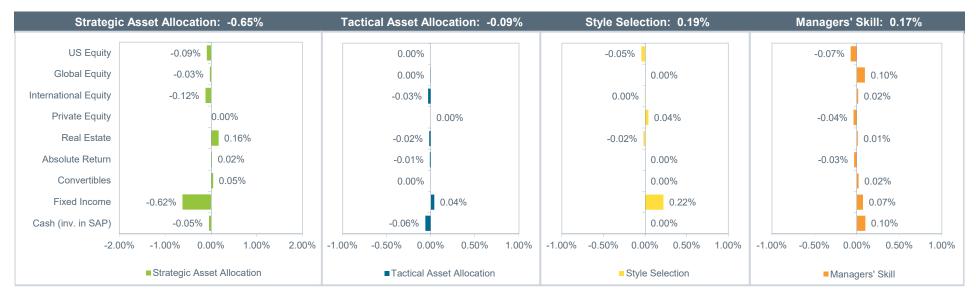




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Permanent Land Fund vs. Target Allocation Index 1 Quarter Ending March 31, 2018

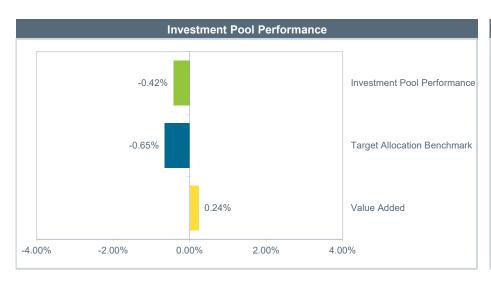


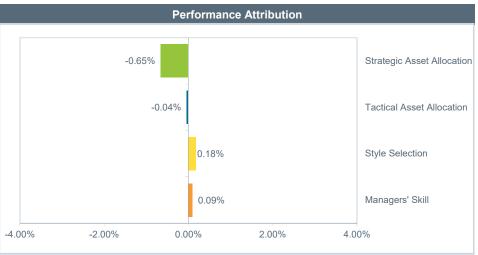


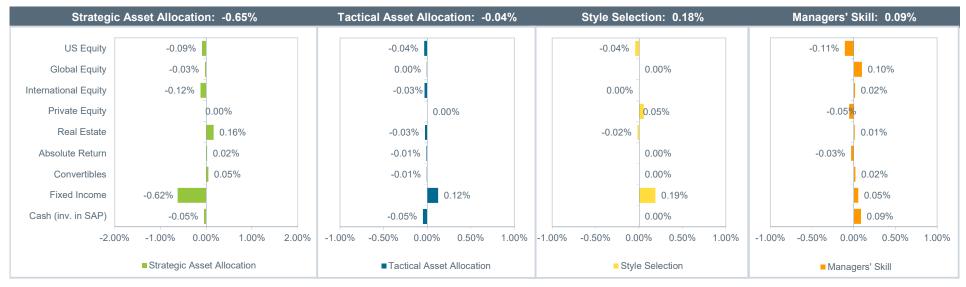




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology University Permanent Land Fund vs. Target Allocation Index 1 Quarter Ending March 31, 2018

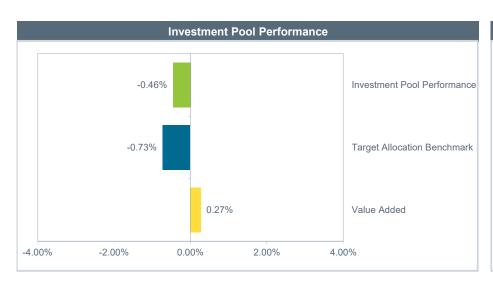


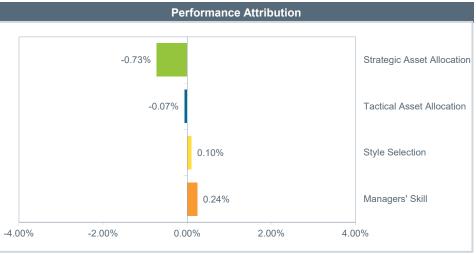


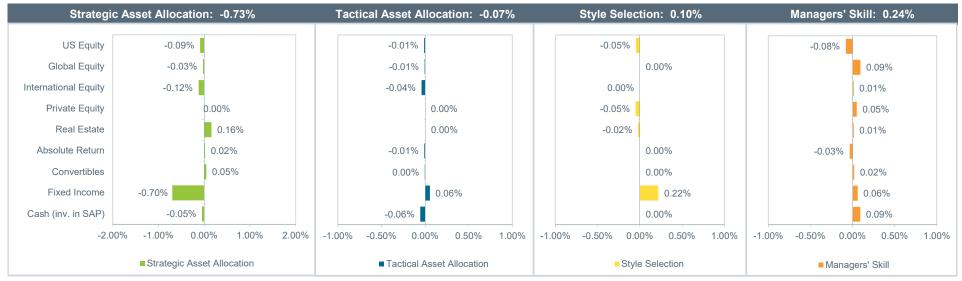




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Hathaway Scholarship Endowment Fund vs. Target Allocation Index 1 Quarter Ending March 31, 2018

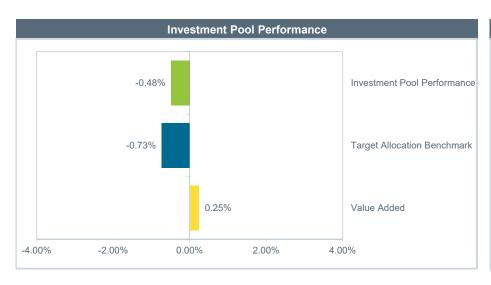


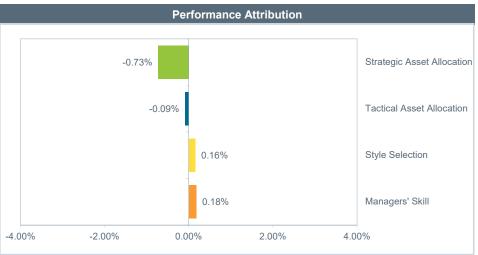


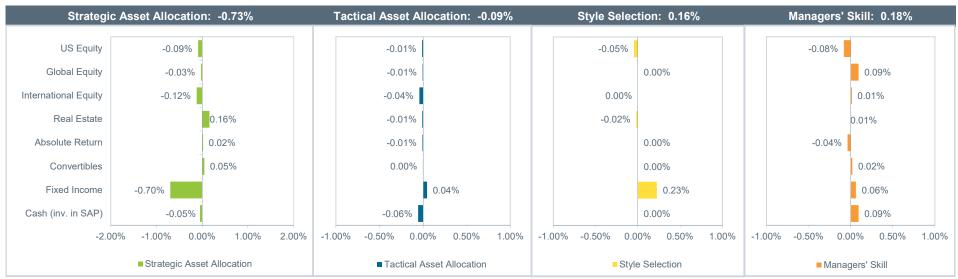




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Higher Education Endowment Fund vs. Target Allocation Index 1 Quarter Ending March 31, 2018

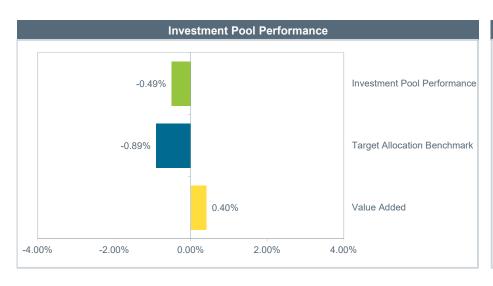


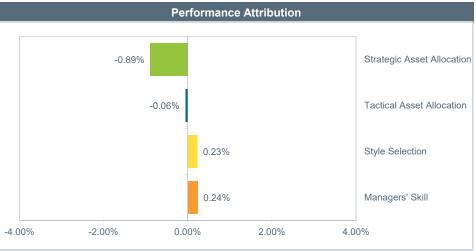


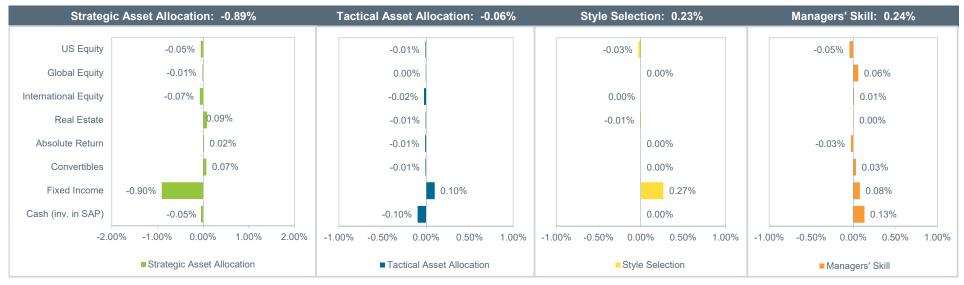




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Workers Compensation Fund vs. Target Allocation Index 1 Quarter Ending March 31, 2018

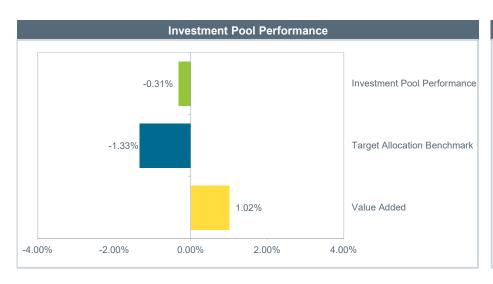


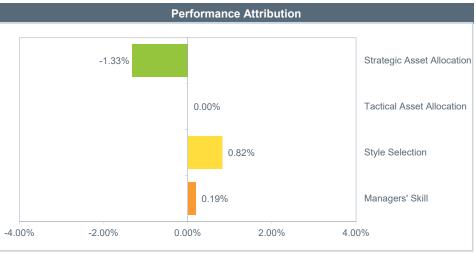


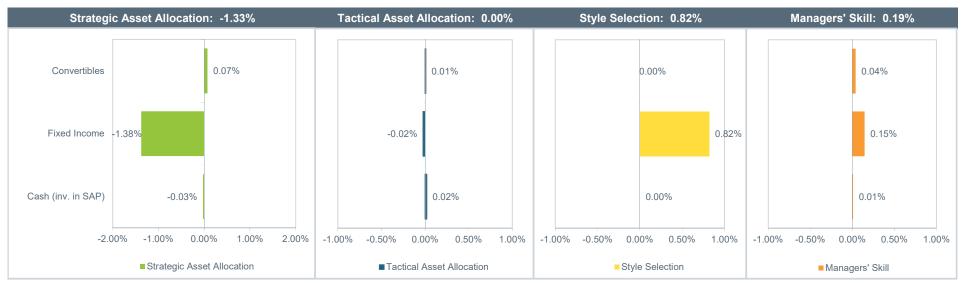




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Pool A vs. Target Allocation Index 1 Quarter Ending March 31, 2018

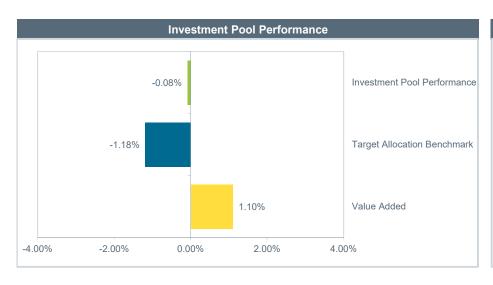


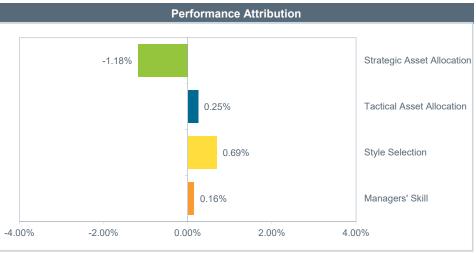


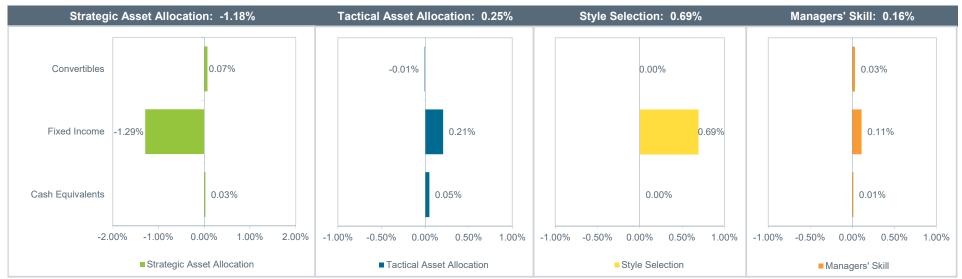




Wyoming State Treasurer's Office Pool Attribution - IDP Methodology State Agency Pool vs. Target Allocation Index 1 Quarter Ending March 31, 2018







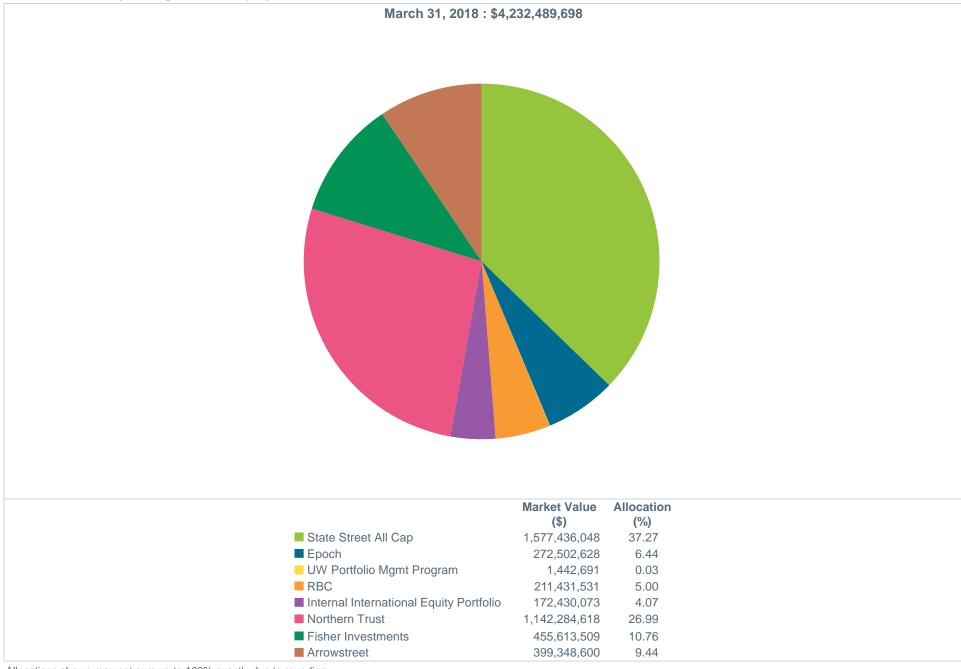


Wyoming State Treasurer's Office Asset Allocation & Performance

	Allocatio	n					Performa					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016
Permanent Mineral Trust	7,784,767,032	37.82	-0.39	-0.39	4.74	7.21	4.60	5.54	5.68	5.25	10.86	6.39
Permanent Mineral Trust - Actual Allocation Index			-0.73	-0.73	4.49	6.98	4.48	5.58	5.64	4.87	11.03	5.59
Difference			0.34	0.34	0.25	0.23	0.12	-0.04	0.04	0.38	-0.17	0.80
Common School PLF	4,023,302,116	19.55	-0.36	-0.36	4.57	7.12	4.69	5.61	5.74	5.58	10.79	6.52
Common School - Actual Allocation Index			-0.74	-0.74	4.26	6.79	4.55	5.63	5.62	5.03	10.89	5.72
Difference			0.38	0.38	0.31	0.33	0.14	-0.02	0.12	0.55	-0.10	0.80
Permanent Land Fund	190,873,718	0.93	-0.37	-0.37	4.56	7.03	4.49	5.41	5.56	5.11	10.52	6.35
Permanent Land Fund - Actual Allocation Index			-0.74	-0.74	4.32	6.78	4.34	5.43	5.52	4.69	10.64	5.50
Difference			0.37	0.37	0.24	0.25	0.15	-0.02	0.04	0.42	-0.12	0.85
University Permanent Land Fund	22,873,351	0.11	-0.42	-0.42	5.30	7.95	4.96	5.85	5.75	5.12	11.88	6.72
University PLF - Actual Allocation Index			-0.69	-0.69	5.13	7.71	4.87	5.91	5.80	4.94	11.93	6.04
Difference			0.27	0.27	0.17	0.24	0.09	-0.06	-0.05	0.18	-0.05	0.68
Hathaway Scholarship	577,566,046	2.81	-0.46	-0.46	4.27	6.60	4.18	4.87	5.14	5.53	10.10	5.73
Hathaway Scholarship - Actual Allocation Index			-0.79	-0.79	3.94	6.32	4.12	5.01	5.17	5.15	10.19	5.11
Difference			0.33	0.33	0.33	0.28	0.06	-0.14	-0.03	0.38	-0.09	0.62
Higher Education	119,129,383	0.58	-0.48	-0.48	4.21	6.52	4.13	4.84	5.13	5.46	10.05	5.73
Higher Education - Actual Allocation Index			-0.82	-0.82	3.87	6.24	4.07	4.98	5.15	5.10	10.14	5.11
Difference			0.34	0.34	0.34	0.28	0.06	-0.14	-0.02	0.36	-0.09	0.62
Workers Compensation Fund	1,947,502,310	9.46	-0.49	-0.49	3.07	4.98	3.23	3.78	4.35	5.24	7.81	4.89
Workers Compensation - Actual Allocation Index			-0.95	-0.95	2.45	4.45	3.00	3.92	4.37	4.88	7.70	4.18
Difference			0.46	0.46	0.62	0.53	0.23	-0.14	-0.02	0.36	0.11	0.71
Pool A	209,476,484	1.02	-0.31	-0.31	1.39	2.73	1.96	1.95	3.09	4.06	4.21	3.90
Pool A - Actual Allocation Index			-1.32	-1.32	0.03	1.50	1.35	1.99	3.03	3.69	3.84	2.84
Difference			1.01	1.01	1.36	1.23	0.61	-0.04	0.06	0.37	0.37	1.06
State Agency Pool	5,707,500,353	27.73	-0.08	-0.08	1.28	2.25	1.67	1.65	2.58	3.50	3.36	3.46
State Agency Pool - Actual Allocation Index			-0.91	-0.91	0.27	1.52	1.26	1.77	2.63	3.21	3.33	2.54
Difference			0.83	0.83	1.01	0.73	0.41	-0.12	-0.05	0.29	0.03	0.92
Total Fund	20,582,990,795	100.00	-0.36	-0.36	3.56	5.52	3.67	4.26	4.66	4.82	8.58	5.30
Wyoming State Actual Allocation Index			-0.73	-0.73	2.95	4.95	3.41	4.21	4.62	4.45	8.13	4.65
Difference			0.37	0.37	0.61	0.57	0.26	0.05	0.04	0.37	0.45	0.65

Performance shown is net of fees. Wyoming State Treasurer's Office fiscal year ends on June 30th.







Wyoming State Treasurer's Office Asset Allocation & Performance

	Allocatio	Allocation			Performance (%)									
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	Since Incep.	Inception Date	
Total Equity Composite	4,232,489,698	100.00	-0.92	-0.92	9.73	14.45	8.03	10.08	8.89	6.88	22.72	7.02	01/01/2006	
Total Equity Custom Index			-0.96	-0.96	10.14	14.85	8.12	9.20	7.91	5.39	23.97	5.87		
Difference			0.04	0.04	-0.41	-0.40	-0.09	0.88	0.98	1.49	-1.25	1.15		
US Equity Composite	2,062,812,897	48.74	-1.45	-1.45	9.00	11.50	8.95	12.51	12.08	9.61	18.58	7.04	06/01/1997	
US Equity Custom Index			-0.64	-0.64	10.48	13.81	10.22	13.19	12.63	9.44	21.13	7.58		
Difference			-0.81	-0.81	-1.48	-2.31	-1.27	-0.68	-0.55	0.17	-2.55	-0.54		
State Street All Cap	1,577,436,048	37.27	-1.15	-1.15	9.72	12.56	9.92	N/A	N/A	N/A	19.76	9.57	01/01/2015	
State Street All Cap Custom Index			-1.10	-1.10	9.81	12.70	9.98	12.74	12.37	9.87	19.85	9.68		
Difference			-0.05	-0.05	-0.09	-0.14	-0.06	N/A	N/A	N/A	-0.09	-0.11		
Russell 3000 Index			-0.64	-0.64	10.48	13.81	10.22	13.03	12.39	9.62	21.13	10.00		
Difference			-0.51	-0.51	-0.76	-1.25	-0.30	N/A	N/A	N/A	-1.37	-0.43		
Epoch	272,502,628	6.44	-1.89	-1.89	9.59	12.77	8.53	N/A	N/A	N/A	23.36	9.30	11/01/2014	
Russell 3000 Index			-0.64	-0.64	10.48	13.81	10.22	13.03	12.39	9.62	21.13	10.26		
Difference			-1.25	-1.25	-0.89	-1.04	-1.69	N/A	N/A	N/A	2.23	-0.96		
UW Portfolio Mgmt Program	1,442,691	0.03	-1.26	-1.26	9.29	13.72	10.05	12.68	10.07	5.18	21.83	5.05	04/01/2006	
S&P 500 Index (Cap Wtd)			-0.76	-0.76	10.58	13.99	10.78	13.31	12.71	9.49	21.83	8.39		
Difference			-0.50	-0.50	-1.29	-0.27	-0.73	-0.63	-2.64	-4.31	0.00	-3.34		
RBC	211,431,531	5.00	-3.10	-3.10	8.41	9.06	6.93	N/A	N/A	N/A	11.10	7.69	01/01/2015	
Russell 2000 Index			-0.08	-0.08	9.11	11.79	8.39	11.47	10.39	9.84	14.65	9.13		
Difference			-3.02	-3.02	-0.70	-2.73	-1.46	N/A	N/A	N/A	-3.55	-1.44		

Performance shown is net of fees. Total Equity Index consists of the MSCI World Index through July 2010 and the MSCI ACW Index thereafter. US Equity Index consists of the S&P 500 Index through September 2014 and the Russell 3000 Index thereafter. International Equity Custom Index and Fisher Index both consist of the MSCI EAFE Index (Gross) through July 2010 and the MSCI ACW Ex US Index (Net) 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 Asset Allocation & Performance

	Allocation			Performance (%)									
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	Since Incep.	Inception Date
Int'l Equity Composite	2,169,676,801	51.26	-1.06	-1.06	9.63	17.20	6.12	6.07	4.33	2.87	27.73	6.16	01/01/2004
International Equity Custom Index			-1.18	-1.18	10.16	16.53	6.18	5.89	4.26	2.27	27.19	5.77	
Difference			0.12	0.12	-0.53	0.67	-0.06	0.18	0.07	0.60	0.54	0.39	
Internal International Equity Portfolio	172,430,073	4.07	-0.54	-0.54	10.32	16.70	N/A	N/A	N/A	N/A	27.20	16.91	02/01/2016
FTSE All Wrld Ex US Index (US Invstr) (USD) (Net)			-1.19	-1.19	10.22	16.45	6.53	6.30	4.58	3.11	27.11	17.30	
Difference			0.65	0.65	0.10	0.25	N/A	N/A	N/A	N/A	0.09	-0.39	
Northern Trust	1,142,284,618	26.99	-1.09	-1.09	10.44	16.86	6.24	5.99	4.39	N/A	27.47	6.31	08/01/2010
MSCI ACW Ex US Index (USD) (Net)			-1.18	-1.18	10.16	16.53	6.18	5.89	4.26	2.70	27.19	6.21	
Difference			0.09	0.09	0.28	0.33	0.06	0.10	0.13	N/A	0.28	0.10	
Fisher Investments	455,613,509	10.76	-1.21	-1.21	8.48	17.93	6.00	7.07	5.11	4.04	29.57	7.38	09/01/2004
MSCI ACW Ex US Index (USD) (Net)			-1.18	-1.18	10.16	16.53	6.18	5.89	4.26	2.27	27.19	5.91	
Difference			-0.03	-0.03	-1.68	1.40	-0.18	1.18	0.85	1.77	2.38	1.47	
Arrowstreet	399,348,600	9.44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-1.55	03/01/2018
MSCI ACW Ex US IM Index (USD) (Net)			-1.06	-1.06	10.63	17.10	6.75	6.24	4.52	3.06	27.81	-1.67	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12	

Performance shown is net of fees. Total Equity Index consists of the MSCI World Index through July 2010 and the MSCI ACW Index thereafter. US Equity Index consists of the S&P 500 Index through September 2014 and the Russell 3000 Index thereafter. International Equity Custom Index and Fisher Index both consist of the MSCI EAFE Index (Gross) through July 2010 and the MSCI ACW Ex US Index (Net) 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	n					F	Performa	ance (%)				
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	Since Incep.	Inception Date
Total Equity Composite	4,232,489,698	100.00	-0.88	-0.88	9.89	14.68	8.28	10.32	9.11	7.08	22.98	7.19	01/01/2006
Total Equity Custom Index			-0.96	-0.96	10.14	14.85	8.12	9.20	7.91	5.39	23.97	5.87	
Difference			0.08	0.08	-0.25	-0.17	0.16	1.12	1.20	1.69	-0.99	1.32	
US Equity Composite	2,062,812,897	48.74	-1.42	-1.42	9.13	11.70	9.16	12.69	12.24	9.75	18.80	7.12	06/01/1997
US Equity Custom Index			-0.64	-0.64	10.48	13.81	10.22	13.19	12.63	9.44	21.13	7.58	
Difference			-0.78	-0.78	-1.35	-2.11	-1.06	-0.50	-0.39	0.31	-2.33	-0.46	
State Street All Cap	1,577,436,048	37.27	-1.15	-1.15	9.74	12.59	9.94	N/A	N/A	N/A	19.79	9.60	01/01/2015
State Street All Cap Custom Index			-1.10	-1.10	9.81	12.70	9.98	12.74	12.37	9.87	19.85	9.68	
Difference			-0.05	-0.05	-0.07	-0.11	-0.04	N/A	N/A	N/A	-0.06	-0.08	
Russell 3000 Index			-0.64	-0.64	10.48	13.81	10.22	13.03	12.39	9.62	21.13	10.00	
Difference			-0.51	-0.51	-0.74	-1.22	-0.28	N/A	N/A	N/A	-1.34	-0.40	
IM U.S. All Cap Equity (SA+CF) Median			-0.36	-0.36	10.31	13.35	9.37	12.56	12.06	10.09	19.74	9.48	
State Street All Cap Rank			59	59	59	56	40	N/A	N/A	N/A	50	49	
Epoch	272,502,628	6.44	-1.77	-1.77	10.00	13.32	9.06	N/A	N/A	N/A	23.97	9.85	11/01/2014
Russell 3000 Index			-0.64	-0.64	10.48	13.81	10.22	13.03	12.39	9.62	21.13	10.26	
Difference			-1.13	-1.13	-0.48	-0.49	-1.16	N/A	N/A	N/A	2.84	-0.41	
IM U.S. All Cap Equity (SA+CF) Median			-0.36	-0.36	10.31	13.35	9.37	12.56	12.06	10.09	19.74	9.88	
Epoch Rank			73	73	55	51	55	N/A	N/A	N/A	24	51	
UW Portfolio Mgmt Program	1,442,691	0.03	-1.26	-1.26	9.29	13.72	10.05	12.68	10.07	5.18	21.83	5.05	04/01/2006
S&P 500 Index (Cap Wtd)			-0.76	-0.76	10.58	13.99	10.78	13.31	12.71	9.49	21.83	8.39	
Difference			-0.50	-0.50	-1.29	-0.27	-0.73	-0.63	-2.64	-4.31	0.00	-3.34	
IM U.S. Large Cap Core Equity (SA+CF) Median			-0.44	-0.44	10.79	14.02	10.23	13.32	12.73	9.75	21.82	8.72	
UW Portfolio Mgmt Program Rank			76	76	76	58	53	68	90	100	50	99	
RBC	211,431,531	5.00	-2.95	-2.95	8.92	9.74	7.58	N/A	N/A	N/A	11.79	8.35	01/01/2015
Russell 2000 Index			-0.08	-0.08	9.11	11.79	8.39	11.47	10.39	9.84	14.65	9.13	
Difference			-2.87	-2.87	-0.19	-2.05	-0.81	N/A	N/A	N/A	-2.86	-0.78	
IM U.S. Small Cap Core Equity (SA+CF) Median			-0.13	-0.13	9.52	12.04	9.44	12.78	11.70	10.82	15.21	10.33	
RBC Rank			94	94	58	70	77	N/A	N/A	N/A	77	83	

Performance shown is gross of fees. Total Equity Index consists of the MSCI World Index through July 2010 and the MSCI ACW Index thereafter. US Equity Index consists of the S&P 500 Index through September 2014 and the Russell 3000 Index thereafter. International Equity Custom Index and Fisher Index both consist of the MSCI EAFE Index (Gross) through July 2010 and the MSCI ACW Ex US Index (Net) 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	n					Р	erforma	nce (%)				
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	Since Incep.	Inception Date
Int'l Equity Composite	2,169,676,801	51.26	-1.02	-1.02	9.75	17.39	6.35	6.32	4.59	3.14	27.96	6.35	01/01/2004
International Equity Custom Index			-1.18	-1.18	10.16	16.53	6.18	5.89	4.26	2.27	27.19	5.77	
Difference			0.16	0.16	-0.41	0.86	0.17	0.43	0.33	0.87	0.77	0.58	
Internal International Equity Portfolio	172,430,073	4.07	-0.52	-0.52	10.37	16.78	N/A	N/A	N/A	N/A	27.29	17.00	02/01/2016
FTSE All Wrld Ex US Index (US Invstr) (USD) (Net)			-1.19	-1.19	10.22	16.45	6.53	6.30	4.58	3.11	27.11	17.30	
Difference			0.67	0.67	0.15	0.33	N/A	N/A	N/A	N/A	0.18	-0.30	
Northern Trust	1,142,284,618	26.99	-1.08	-1.08	10.47	16.90	6.29	6.03	4.42	N/A	27.51	6.35	08/01/2010
MSCI ACW Ex US Index (USD) (Net)			-1.18	-1.18	10.16	16.53	6.18	5.89	4.26	2.70	27.19	6.21	
Difference			0.10	0.10	0.31	0.37	0.11	0.14	0.16	N/A	0.32	0.14	
Fisher Investments	455,613,509	10.76	-1.10	-1.10	8.85	18.47	6.49	7.56	5.59	4.53	30.17	7.91	09/01/2004
MSCI ACW Ex US Index (USD) (Net)			-1.18	-1.18	10.16	16.53	6.18	5.89	4.26	2.27	27.19	5.91	
Difference			0.08	0.08	-1.31	1.94	0.31	1.67	1.33	2.26	2.98	2.00	
IM All ACWI Ex US (SA+CF) Median			-0.38	-0.38	10.57	18.00	7.50	8.14	6.65	4.60	28.68	8.13	
Fisher Investments Rank			72	72	73	45	67	66	72	52	40	58	
Arrowstreet	399,348,600	9.44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-1.55	03/01/2018
MSCI ACW Ex US IM Index (USD) (Net)			-1.06	-1.06	10.63	17.10	6.75	6.24	4.52	3.06	27.81	-1.67	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.12	
IM All ACWI Ex US (SA+CF) Median			-0.38	-0.38	10.57	18.00	7.50	8.14	6.65	4.60	28.68	-1.16	
Arrowstreet Rank			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	65	

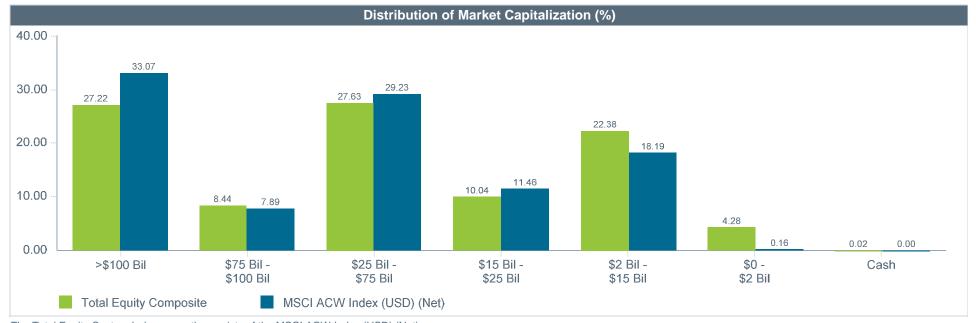
Performance shown is gross of fees. Total Equity Index consists of the MSCI World Index through July 2010 and the MSCI ACW Index thereafter. US Equity Index consists of the S&P 500 Index through September 2014 and the Russell 3000 Index thereafter. International Equity Custom Index and Fisher Index both consist of the MSCI EAFE Index (Gross) through July 2010 and the MSCI ACW Ex US Index (Net) 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 Ten Equity Holdings												
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)								
Apple Inc	1.33	1.91	-0.58	-0.46								
Microsoft Corp	1.11	1.48	-0.37	7.19								
Samsung Electronics Co Ltd	0.99	0.50	0.49	-1.95								
Tencent Holdings LTD	0.90	0.66	0.24	0.48								
Amazon.com Inc	0.59	1.31	-0.72	23.76								
Bank of America Corp	0.58	0.66	-0.08	1.98								
Exxon Mobil Corp	0.56	0.70	-0.14	-9.89								
Alphabet Inc	0.54	0.72	-0.18	-1.40								
ASML Holding NV	0.54	0.17	0.37	13.21								
JPMorgan Chase & Co	0.52	0.84	-0.32	3.36								
% of Portfolio	7.66	8.95	-1.29									

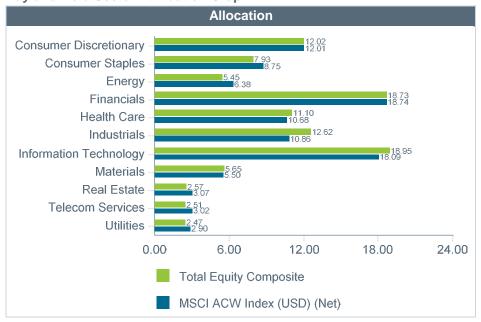
	lio Characteristics	
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	105,180	129,383
Median Mkt. Cap (\$M)	4,159	10,684
Price/Earnings Ratio	16.89	17.50
Price/Book Ratio	2.61	2.70
5 Yr. EPS Growth Rate (%)	12.96	12.38
Current Yield (%)	2.37	2.47
Beta (5 Years, Monthly)	0.98	1.00
Number of Securities	5,715	2,495

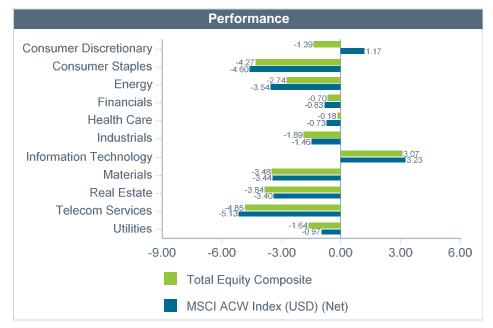


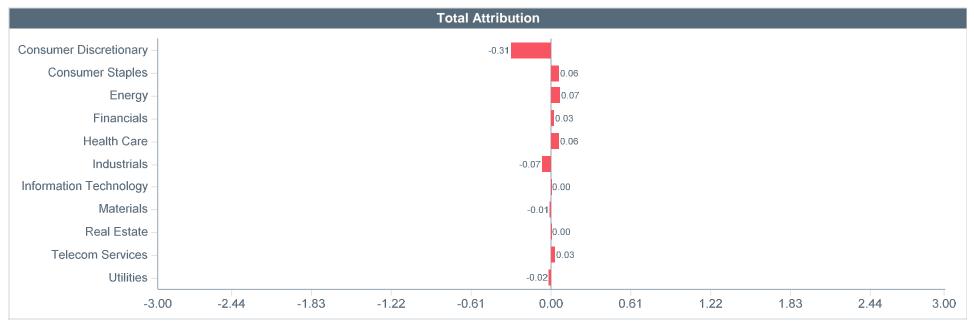
The Total Equity Custom Index currently consists of the MSCI ACW Index (USD) (Net).



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





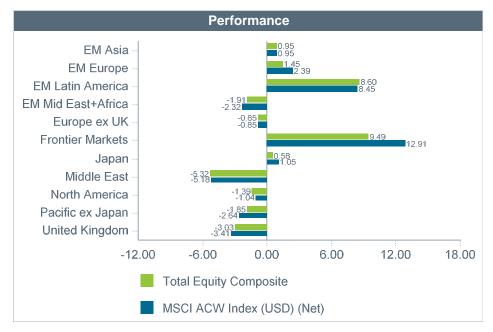


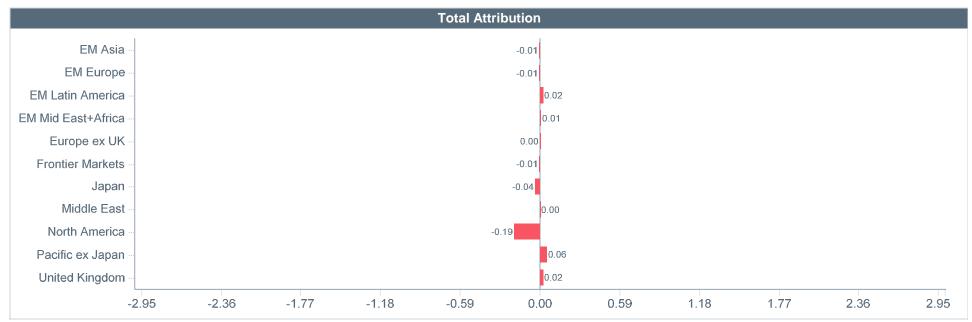
The Total Equity Custom Index currently consists of the MSCI ACW Index (USD) (Net).



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







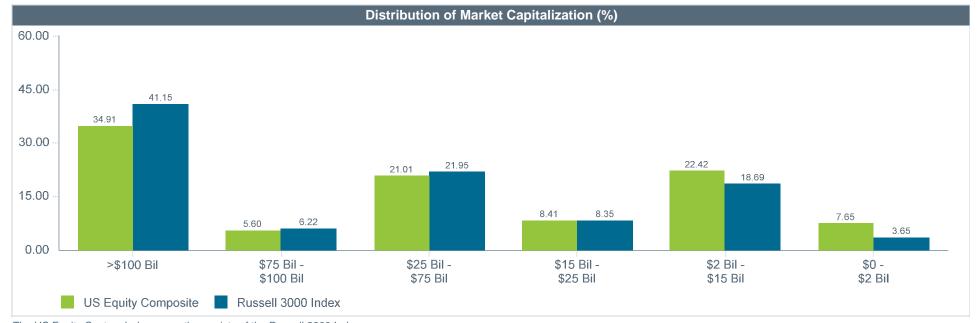




Wyoming State Treasurer's Office US Equity Composite vs. Russell 3000 Index Portfolio Characteristics

	Top Ten Eq	uity Holdings		
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Apple Inc	2.72	3.15	-0.43	-0.46
Microsoft Corp	2.27	2.53	-0.26	7.19
Amazon.com Inc	1.21	2.15	-0.94	23.76
Bank of America Corp	1.18	1.06	0.12	1.98
Exxon Mobil Corp	1.15	1.17	-0.02	-9.89
Alphabet Inc	1.11	1.15	-0.04	-1.40
JPMorgan Chase & Co	1.07	1.40	-0.33	3.36
Berkshire Hathaway Inc	1.03	1.42	-0.39	0.64
Johnson & Johnson	0.97	1.28	-0.31	-7.70
Unitedhealth Group Inc	0.96	0.76	0.20	-2.61
% of Portfolio	13.67	16.07	-2.40	

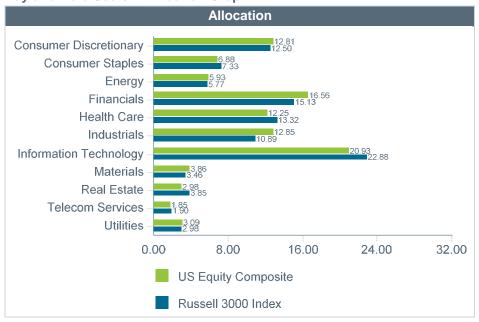
	Portfolio	Benchmark
Vtd. Avg. Mkt. Cap (\$M)	139,042	163,882
Median Mkt. Cap (\$M)	2,382	1,702
Price/Earnings Ratio	20.11	21.16
Price/Book Ratio	2.95	3.22
5 Yr. EPS Growth Rate (%)	14.73	14.27
Current Yield (%)	1.90	1.87
Beta (5 Years, Monthly)	1.00	1.00
Number of Securities	2,558	2,958

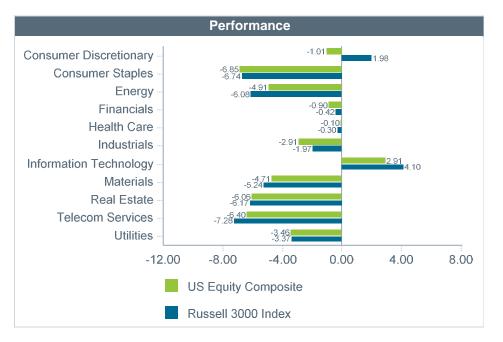


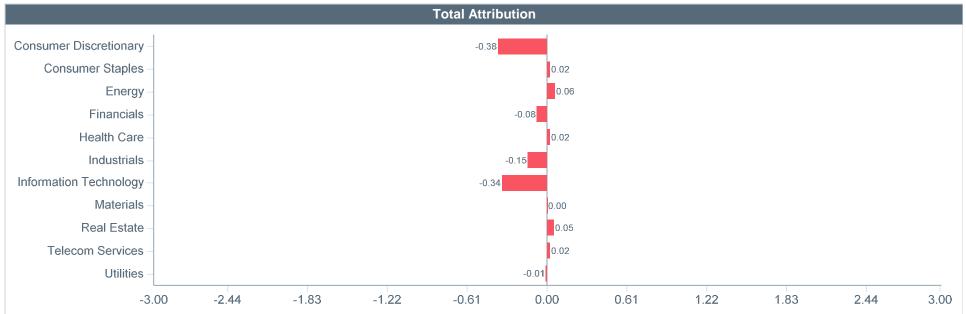
The US Equity Custom Index currently consists of the Russell 3000 Index.



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







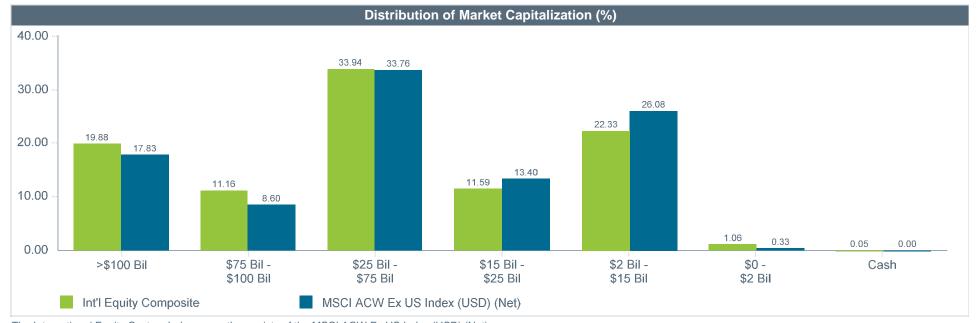




Wyoming State Treasurer's Office Int'l Equity Composite vs. MSCI ACW Ex US Index (USD) (Net) Portfolio Characteristics

Top Te	n Equity H	oldings		
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Samsung Electronics Co Ltd	1.94	1.04	0.90	-1.95
Tencent Holdings LTD	1.75	1.38	0.37	0.48
ASML Holding NV	1.06	0.35	0.71	13.21
Alibaba Group Holding Ltd	1.00	0.98	0.02	6.44
SAP AG Systeme Anwendungen	0.99	0.48	0.51	-6.70
Novartis AG	0.92	0.83	0.09	-0.66
Keyence Corp	0.91	0.28	0.63	11.05
Roche Holding AG	0.91	0.75	0.16	-5.74
Taiwan Semiconductor Mfg (ADR)	0.90	0.96	-0.06	10.37
Lvmh Moet Hennessy Louis Vuitton	0.88	0.40	0.48	4.61
% of Portfolio	11.26	7.45	3.81	

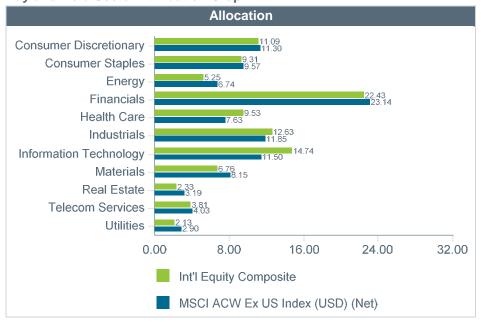
Follo	lio Characteristics	
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	72,943	67,470
Median Mkt. Cap (\$M)	5,916	8,755
Price/Earnings Ratio	14.64	14.45
Price/Book Ratio	2.29	2.13
5 Yr. EPS Growth Rate (%)	11.20	10.21
Current Yield (%)	2.81	3.05
Beta (5 Years, Monthly)	1.00	1.00
Number of Securities	3,168	1,864

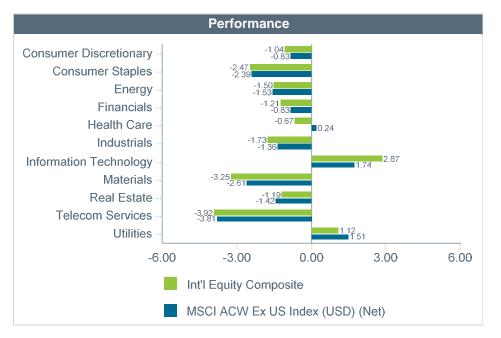


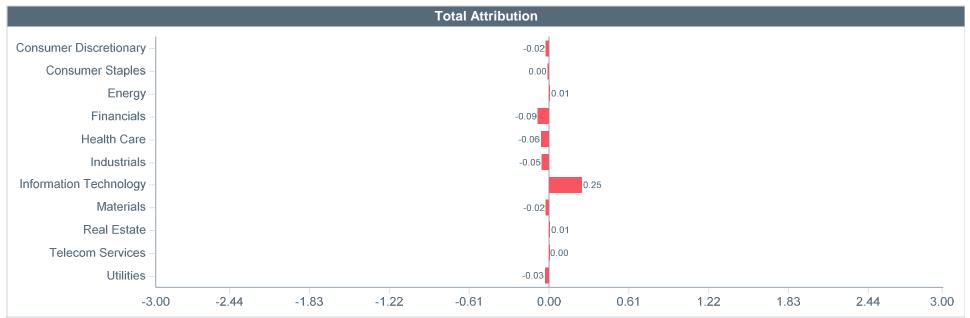
The International Equity Custom Index currently consists of the MSCI ACW Ex US Index (USD) (Net).



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



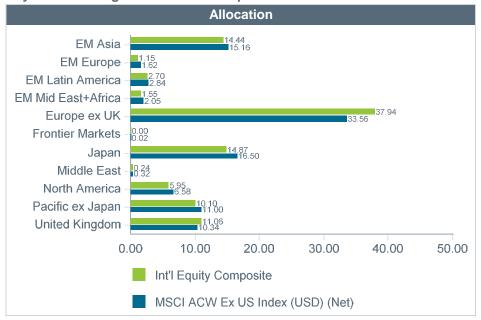


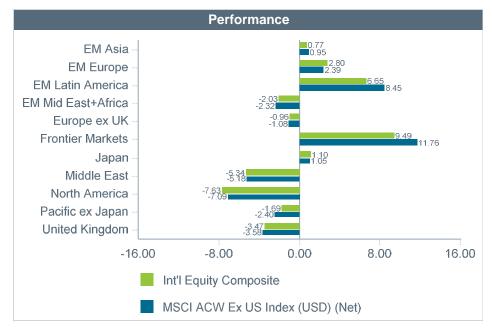


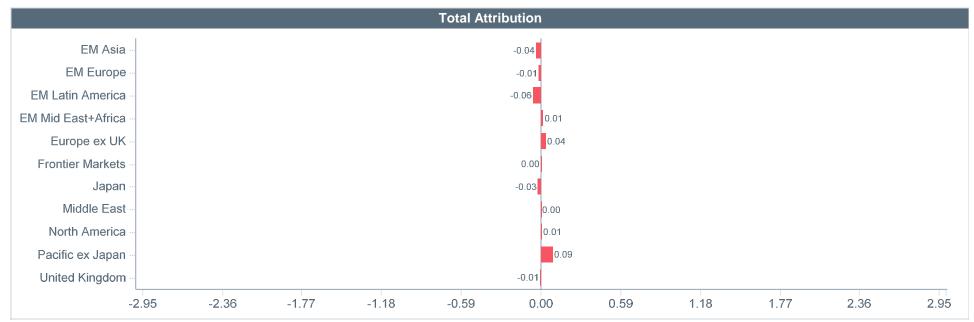
The International Equity Custom Index currently consists of the MSCI ACW Ex US Index (USD) (Net).



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

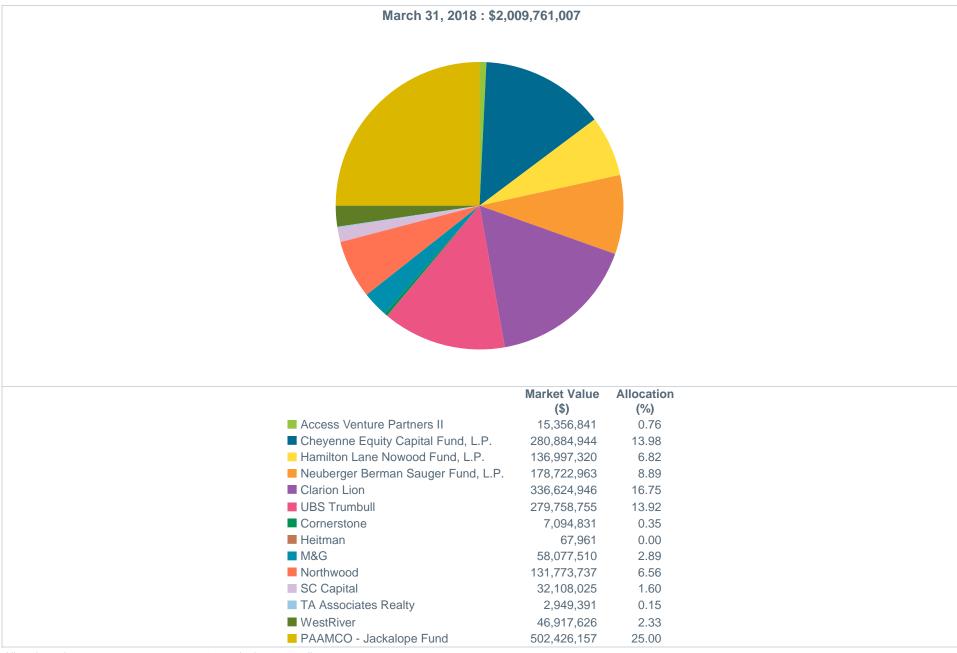






The International Equity Custom Index currently consists of the MSCI ACW Ex US Index (USD) (Net).





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



Wyoming State Treasurer's Office Comparative Performance

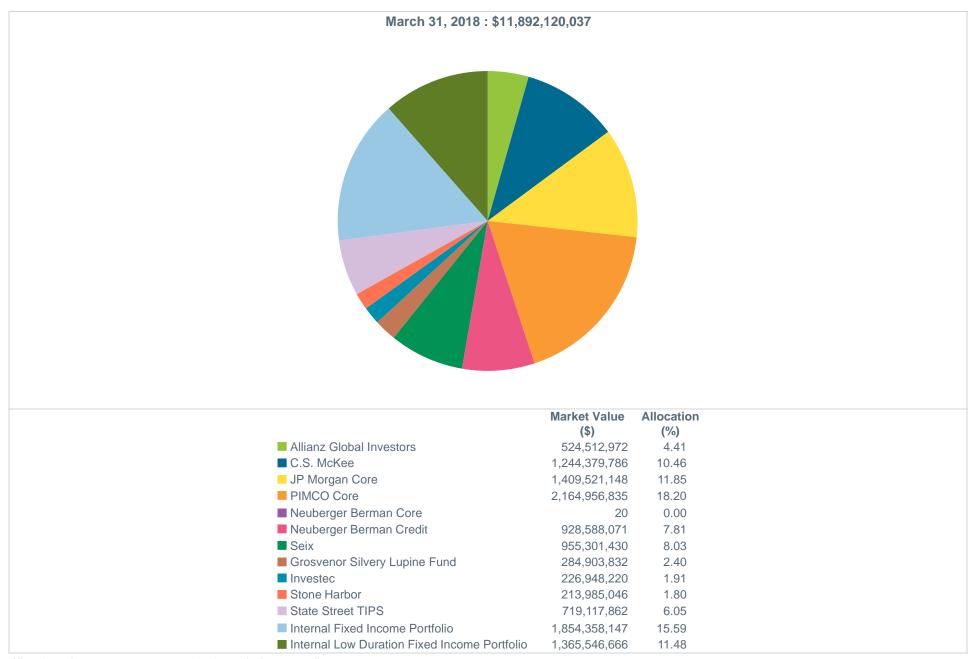
	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	Since Incep.	Inception Date
Core Real Estate Composite	2.07	2.07	5.84	7.31	8.94	10.17	10.27	3.85	6.96	5.76	01/01/2006
NCREIF ODCE Index (AWA) (Net)	1.97	1.97	5.56	7.11	9.00	10.41	10.76	4.16	6.66	5.87	
Difference	0.10	0.10	0.28	0.20	-0.06	-0.24	-0.49	-0.31	0.30	-0.11	
Clarion Lion	2.38	2.38	6.36	8.21	10.12	11.26	11.32	3.18	8.27	5.30	01/01/2006
NCREIF ODCE Index (AWA) (Net)	1.97	1.97	5.56	7.11	9.00	10.41	10.76	4.16	6.66	5.87	
Difference	0.41	0.41	0.80	1.10	1.12	0.85	0.56	-0.98	1.61	-0.57	
UBS Trumbull	1.70	1.70	5.21	6.25	7.41	8.69	8.94	4.27	5.42	5.57	07/01/2006
NCREIF ODCE Index (AWA) (Net)	1.97	1.97	5.56	7.11	9.00	10.41	10.76	4.16	6.66	5.48	
Difference	-0.27	-0.27	-0.35	-0.86	-1.59	-1.72	-1.82	0.11	-1.24	0.09	
Absolute Return Composite	-0.59	-0.59	1.98	2.20	0.19	2.85	2.98	2.82	4.90	2.37	12/01/2007
HFRI FOF Comp Index	0.29	0.29	4.72	5.56	1.87	3.38	2.58	1.55	7.77	1.12	
Difference	-0.88	-0.88	-2.74	-3.36	-1.68	-0.53	0.40	1.27	-2.87	1.25	
PAAMCO - Jackalope Fund	-0.59	-0.59	1.98	2.20	0.21	2.98	2.87	2.53	4.90	2.13	12/01/2007
HFRI FOF Comp Index	0.29	0.29	4.72	5.56	1.87	3.38	2.58	1.55	7.77	1.12	
Difference	-0.88	-0.88	-2.74	-3.36	-1.66	-0.40	0.29	0.98	-2.87	1.01	



Wyoming State Treasurer's Office Comparative Performance

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	Since Incep.	Inception Date
Core Real Estate Composite	2.25	2.25	6.40	8.09	9.79	11.07	11.20	4.74	7.76	6.64	01/01/2006
NCREIF ODCE Index (AWA) (Gross)	2.20	2.20	6.26	8.07	9.99	11.43	11.79	5.11	7.62	6.85	
Difference	0.05	0.05	0.14	0.02	-0.20	-0.36	-0.59	-0.37	0.14	-0.21	
Clarion Lion	2.56	2.56	6.90	8.94	10.89	12.06	12.15	4.00	8.99	6.10	01/01/2006
NCREIF ODCE Index (AWA) (Gross)	2.20	2.20	6.26	8.07	9.99	11.43	11.79	5.11	7.62	6.85	
Difference	0.36	0.36	0.64	0.87	0.90	0.63	0.36	-1.11	1.37	-0.75	
UBS Trumbull	1.89	1.89	5.82	7.10	8.36	9.72	10.00	5.24	6.33	6.57	07/01/2006
NCREIF ODCE Index (AWA) (Gross)	2.20	2.20	6.26	8.07	9.99	11.43	11.79	5.11	7.62	6.46	
Difference	-0.31	-0.31	-0.44	-0.97	-1.63	-1.71	-1.79	0.13	-1.29	0.11	
Absolute Return Composite	-0.59	-0.59	1.98	2.20	0.19	2.85	2.98	2.82	4.90	2.37	12/01/2007
HFRI FOF Comp Index	0.29	0.29	4.72	5.56	1.87	3.38	2.58	1.55	7.77	1.12	
Difference	-0.88	-0.88	-2.74	-3.36	-1.68	-0.53	0.40	1.27	-2.87	1.25	
PAAMCO - Jackalope Fund	-0.59	-0.59	1.98	2.20	0.21	2.98	2.87	2.53	4.90	2.13	12/01/2007
HFRI FOF Comp Index	0.29	0.29	4.72	5.56	1.87	3.38	2.58	1.55	7.77	1.12	
Difference	-0.88	-0.88	-2.74	-3.36	-1.66	-0.40	0.29	0.98	-2.87	1.01	





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



	Allocation	n					Р	erforma	nce (%))			
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	Since Incep.	Inception Date
Total Fixed Income Composite	11,892,120,037	100.00	-0.47	-0.47	1.24	2.43	1.98	2.04	3.13	4.25	4.43	5.38	10/01/1996
Bloomberg US Agg Bond Index			-1.46	-1.46	-0.24	1.20	1.20	1.82	2.92	3.63	3.54	5.15	
Difference			0.99	0.99	1.48	1.23	0.78	0.22	0.21	0.62	0.89	0.23	
Total Fixed Income (Ex. Convertibles) Composite	11,367,607,064	95.59	-0.65	-0.65	0.85	2.01	1.81	1.72	2.91	4.01	4.00	5.35	10/01/1996
Bloomberg US Agg Bond Index			-1.46	-1.46	-0.24	1.20	1.20	1.82	2.92	3.63	3.54	5.15	
Difference			0.81	0.81	1.09	0.81	0.61	-0.10	-0.01	0.38	0.46	0.20	
US Fixed Income (Ex. Convertibles) Composite	10,641,769,966	89.49	-0.92	-0.92	0.37	1.43	1.53	1.79	2.92	N/A	3.41	3.28	12/01/2009
Bloomberg US Agg Bond Index			-1.46	-1.46	-0.24	1.20	1.20	1.82	2.92	3.63	3.54	3.09	
Difference			0.54	0.54	0.61	0.23	0.33	-0.03	0.00	N/A	-0.13	0.19	
Externally Mgd Fixed Income Composite	8,672,215,224	72.92	-0.43	-0.43	1.70	3.04	2.18	2.17	3.27	4.49	4.99	5.16	10/01/1996
Bloomberg US Agg Bond Index			-1.46	-1.46	-0.24	1.20	1.20	1.82	2.92	3.63	3.54	5.15	
Difference			1.03	1.03	1.94	1.84	0.98	0.35	0.35	0.86	1.45	0.01	
Allianz Global Investors (Net)	524,512,972	4.41	3.57	3.57	9.97	13.09	6.14	8.87	7.77	8.83	14.76	5.98	09/01/2000
ICE BofAML All Cnvrts Index (All Qual)			2.43	2.43	7.95	10.60	6.50	9.60	8.46	8.20	13.70	5.49	
Difference			1.14	1.14	2.02	2.49	-0.36	-0.73	-0.69	0.63	1.06	0.49	
Core Fixed Income Composite	4,818,857,790	40.52	-1.35	-1.35	0.01	1.42	1.26	1.76	N/A	N/A	3.56	1.69	01/01/2013
Bloomberg US Agg Bond Index			-1.46	-1.46	-0.24	1.20	1.20	1.82	2.92	3.63	3.54	1.71	
Difference			0.11	0.11	0.25	0.22	0.06	-0.06	N/A	N/A	0.02	-0.02	
C.S. McKee	1,244,379,786	10.46	-1.13	-1.13	0.28	1.61	1.51	1.86	N/A	N/A	3.50	1.76	01/01/2013
C.S. McKee Custom Index			-1.23	-1.23	0.00	1.44	1.28	1.87	2.96	3.65	3.54	1.76	
Difference			0.10	0.10	0.28	0.17	0.23	-0.01	N/A	N/A	-0.04	0.00	
JP Morgan Core	1,409,521,148	11.85	-1.26	-1.26	-0.26	1.20	1.25	1.93	N/A	N/A	3.42	1.84	01/01/2013
Bloomberg US Agg Bond Index			-1.46	-1.46	-0.24	1.20	1.20	1.82	2.92	3.63	3.54	1.71	
Difference			0.20	0.20	-0.02	0.00	0.05	0.11	N/A	N/A	-0.12	0.13	
PIMCO Core	2,164,956,835	18.20	-1.55	-1.55	0.14	1.55	1.35	1.71	N/A	N/A	4.16	1.68	01/01/2013
PIMCO Custom Index			-1.65	-1.65	-0.43	1.01	1.14	1.79	2.90	3.61	3.54	1.68	
Difference			0.10	0.10	0.57	0.54	0.21	-0.08	N/A	N/A	0.62	0.00	

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 Credit Custom Index consists of 20% Bloomberg US Credit Index, 20% ICE BofAML US HY Master II Const. Index, and 60% S&P/LSTA Leveraged Loan Index. The Internal Fixed Income Portfolio Index consists of the Bloomberg US Gov't: Int. Term Bond Index; prior to December 2009 the index consisted of the Bloomberg US Gov't/Credit Bond Index. The C.S. McKee Custom Index consists of the Bloomberg US Agg Bond Index through January 2018 and the Bloomberg US Agg Int Index thereafter. The PIMCO Custom Index consists of the Bloomberg US Agg Bond Index through February 2018 and the Bloomberg US Agg Int Index thereafter.



	Allocation	1					Р	erforma	nce (%)				
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	Since Incep.	Inception Date
Credit Fixed Income Composite	1,883,889,502	15.84	-0.07	-0.07	2.13	3.33	3.72	3.43	N/A	N/A	4.87	3.43	04/01/2013
Credit Custom Index			0.26	0.26	2.53	3.92	4.01	3.92	4.72	6.11	5.20	3.92	
Difference			-0.33	-0.33	-0.40	-0.59	-0.29	-0.49	N/A	N/A	-0.33	-0.49	
Neuberger Berman Credit	928,588,071	7.81	0.00	0.00	1.92	3.05	3.22	3.49	N/A	N/A	4.10	3.49	04/01/2013
Credit Custom Index			0.26	0.26	2.53	3.92	4.01	3.92	4.72	6.11	5.20	3.92	
Difference			-0.26	-0.26	-0.61	-0.87	-0.79	-0.43	N/A	N/A	-1.10	-0.43	
Seix	955,301,430	8.03	-0.14	-0.14	2.33	3.60	4.15	N/A	N/A	N/A	5.40	3.63	05/01/2013
Credit Custom Index			0.26	0.26	2.53	3.92	4.01	3.92	4.72	6.11	5.20	3.76	
Difference			-0.40	-0.40	-0.20	-0.32	0.14	N/A	N/A	N/A	0.20	-0.13	
Grosvenor Silvery Lupine Fund	284,903,832	2.40	1.61	1.61	6.49	8.36	7.58	N/A	N/A	N/A	9.66	6.59	07/01/2014
CS Western Euro Hi Yld Index			-0.12	-0.12	3.07	5.75	5.99	6.62	7.62	9.27	8.41	5.38	
Difference			1.73	1.73	3.42	2.61	1.59	N/A	N/A	N/A	1.25	1.21	
Emerging Market Debt Fixed Income Composite	440,933,266	3.71	5.00	5.00	9.92	13.30	4.95	-1.43	N/A	N/A	15.88	-1.43	04/01/2013
JPM GBI-EM Gbl Dvf'd Index (USD) (TR) (Unhedged)			4.44	4.44	9.04	12.99	5.43	-0.67	1.07	3.78	15.21	-0.67	
Difference			0.56	0.56	0.88	0.31	-0.48	-0.76	N/A	N/A	0.67	-0.76	
Investec	226,948,220	1.91	5.02	5.02	10.51	13.86	4.98	-0.91	N/A	N/A	16.95	-0.91	04/01/2013
JPM GBI-EM Gbl Dvf'd Index (USD) (TR) (Unhedged)			4.44	4.44	9.04	12.99	5.43	-0.67	1.07	3.78	15.21	-0.67	
Difference			0.58	0.58	1.47	0.87	-0.45	-0.24	N/A	N/A	1.74	-0.24	
Stone Harbor	213,985,046	1.80	4.98	4.98	9.29	12.70	4.91	-2.02	N/A	N/A	14.78	-2.02	04/01/2013
JPM GBI-EM Gbl Dvf'd Index (USD) (TR) (Unhedged)			4.44	4.44	9.04	12.99	5.43	-0.67	1.07	3.78	15.21	-0.67	
Difference			0.54	0.54	0.25	-0.29	-0.52	-1.35	N/A	N/A	-0.43	-1.35	





	Allocation		Performance (%)										
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	Since Incep.	Inception Date
State Street TIPS	719,117,862	6.05	-0.91	-0.91	1.46	1.05	1.28	0.07	N/A	N/A	3.10	-0.03	01/01/2013
Bloomberg US Trsy US TIPS Index (Series B)			-0.86	-0.86	1.45	1.03	1.32	0.10	2.62	2.99	3.30	0.00	
Difference			-0.05	-0.05	0.01	0.02	-0.04	-0.03	N/A	N/A	-0.20	-0.03	
Internal Fixed Income Portfolio	1,854,358,147	15.59	-0.33	-0.33	-0.19	0.48	1.08	1.17	2.04	2.37	1.84	4.63	10/01/1996
Bloomberg US Gov't: Int. Term Bond Index			-0.73	-0.73	-0.79	-0.14	0.46	0.75	1.65	2.40	1.14	4.61	
Difference			0.40	0.40	0.60	0.62	0.62	0.42	0.39	-0.03	0.70	0.02	
Internal Low Duration Fixed Income Portfolio	1,365,546,666	11.48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.16	03/01/2018
Bloomberg US Gov't 1-3 Yr Bond Index			-0.15	-0.15	-0.18	0.02	0.40	0.53	0.68	1.22	0.45	0.20	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.04	



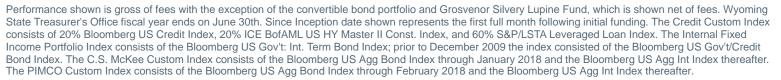


	Allocation	n					P	erforma	ance (%))			
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	Since Incep.	Inception Date
Total Fixed Income Composite	11,892,120,037	100.00	-0.42	-0.42	1.36	2.59	2.15	2.22	3.31	4.41	4.58	5.46	10/01/1996
Bloomberg US Agg Bond Index			-1.46	-1.46	-0.24	1.20	1.20	1.82	2.92	3.63	3.54	5.15	
Difference			1.04	1.04	1.60	1.39	0.95	0.40	0.39	0.78	1.04	0.31	
Total Fixed Income (Ex. Convertibles) Composite	11,367,607,064	95.59	-0.62	-0.62	0.95	2.13	1.95	1.88	3.07	4.15	4.12	5.42	10/01/1996
Bloomberg US Agg Bond Index			-1.46	-1.46	-0.24	1.20	1.20	1.82	2.92	3.63	3.54	5.15	
Difference			0.84	0.84	1.19	0.93	0.75	0.06	0.15	0.52	0.58	0.27	
US Fixed Income (Ex. Convertibles) Composite	10,641,769,966	89.49	-0.89	-0.89	0.45	1.54	1.66	1.93	3.06	N/A	3.53	3.42	12/01/2009
Bloomberg US Agg Bond Index			-1.46	-1.46	-0.24	1.20	1.20	1.82	2.92	3.63	3.54	3.09	
Difference			0.57	0.57	0.69	0.34	0.46	0.11	0.14	N/A	-0.01	0.33	
Externally Mgd Fixed Income Composite	8,672,215,224	72.92	-0.37	-0.37	1.85	3.24	2.37	2.37	3.47	4.67	5.18	5.25	10/01/1996
Bloomberg US Agg Bond Index			-1.46	-1.46	-0.24	1.20	1.20	1.82	2.92	3.63	3.54	5.15	
Difference			1.09	1.09	2.09	2.04	1.17	0.55	0.55	1.04	1.64	0.10	
Allianz Global Investors (Net)	524,512,972	4.41	3.57	3.57	9.97	13.09	6.14	8.87	7.77	8.83	14.76	5.98	09/01/2000
ICE BofAML All Cnvrts Index (All Qual)			2.43	2.43	7.95	10.60	6.50	9.60	8.46	8.20	13.70	5.49	
Difference			1.14	1.14	2.02	2.49	-0.36	-0.73	-0.69	0.63	1.06	0.49	
Core Fixed Income Composite	4,818,857,790	40.52	-1.33	-1.33	0.09	1.53	1.39	1.91	N/A	N/A	3.67	1.84	01/01/2013
Bloomberg US Agg Bond Index			-1.46	-1.46	-0.24	1.20	1.20	1.82	2.92	3.63	3.54	1.71	
Difference			0.13	0.13	0.33	0.33	0.19	0.09	N/A	N/A	0.13	0.13	
IM U.S. Broad Mkt Core Fixed Income (SA+CF) Median			-1.37	-1.37	0.09	1.65	1.56	2.15	3.36	4.29	4.05	2.08	
Core Fixed Income Composite Rank			41	41	51	56	66	76	N/A	N/A	74	73	
C.S. McKee	1,244,379,786	10.46	-1.10	-1.10	0.38	1.73	1.65	2.00	N/A	N/A	3.63	1.90	01/01/2013
C.S. McKee Custom Index			-1.23	-1.23	0.00	1.44	1.28	1.87	2.96	3.65	3.54	1.76	
Difference			0.13	0.13	0.38	0.29	0.37	0.13	N/A	N/A	0.09	0.14	
IM U.S. Broad Mkt Core Fixed Income (SA+CF) Median			-1.37	-1.37	0.09	1.65	1.56	2.15	3.36	4.29	4.05	2.08	
C.S. McKee Rank			18	18	25	45	44	61	N/A	N/A	77	61	
JP Morgan Core	1,409,521,148	11.85	-1.24	-1.24	-0.18	1.30	1.36	2.04	N/A	N/A	3.53	1.95	01/01/2013
Bloomberg US Agg Bond Index			-1.46	-1.46	-0.24	1.20	1.20	1.82	2.92	3.63	3.54	1.71	
Difference			0.22	0.22	0.06	0.10	0.16	0.22	N/A	N/A	-0.01	0.24	
IM U.S. Broad Mkt Core Fixed Income (SA+CF) Median			-1.37	-1.37	0.09	1.65	1.56	2.15	3.36	4.29	4.05	2.08	
JP Morgan Core Rank			29	29	71	76	69	59	N/A	N/A	86	60	

Performance shown is gross of fees with the exception of the convertible bond portfolio and Grosvenor Silvery Lupine Fund, 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. The Credit Custom Index consists of 20% Bloomberg US Credit Index, 20% ICE BofAML US HY Master II Const. Index, and 60% S&P/LSTA Leveraged Loan Index. The Internal Fixed Income Portfolio Index consists of the Bloomberg US Gov't: Int. Term Bond Index; prior to December 2009 the index consisted of the Bloomberg US Gov't/Credit Bond Index. The C.S. McKee Custom Index consists of the Bloomberg US Agg Bond Index through January 2018 and the Bloomberg US Agg Int Index thereafter. The PIMCO Custom Index consists of the Bloomberg US Agg Bond Index through February 2018 and the Bloomberg US Agg Int Index thereafter.



	Allocation	1					P	erforma	nce (%)				
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	Since Incep.	Inception Date
PIMCO Core	2,164,956,835	18.20	-1.52	-1.52	0.22	1.66	1.49	1.88	N/A	N/A	4.27	1.85	01/01/2013
PIMCO Custom Index			-1.65	-1.65	-0.43	1.01	1.14	1.79	2.90	3.61	3.54	1.68	
Difference			0.13	0.13	0.65	0.65	0.35	0.09	N/A	N/A	0.73	0.17	
IM U.S. Broad Mkt Core Fixed Income (SA+CF) Median			-1.37	-1.37	0.09	1.65	1.56	2.15	3.36	4.29	4.05	2.08	
PIMCO Core Rank			84	84	38	50	58	78	N/A	N/A	32	70	
Credit Fixed Income Composite	1,883,889,502	15.84	0.01	0.01	2.35	3.60	4.02	3.72	N/A	N/A	5.14	3.72	04/01/2013
Credit Custom Index			0.26	0.26	2.53	3.92	4.01	3.92	4.72	6.11	5.20	3.92	
Difference			-0.25	-0.25	-0.18	-0.32	0.01	-0.20	N/A	N/A	-0.06	-0.20	
IM U.S. Fixed Income (SA+CF) Median			-0.87	-0.87	0.57	1.98	1.92	2.39	3.60	4.29	4.21	2.39	
Credit Fixed Income Composite Rank			23	23	15	29	19	29	N/A	N/A	37	29	
Neuberger Berman Credit	928,588,071	7.81	0.09	0.09	2.15	3.34	3.50	3.80	N/A	N/A	4.38	3.80	04/01/2013
Credit Custom Index			0.26	0.26	2.53	3.92	4.01	3.92	4.72	6.11	5.20	3.92	
Difference			-0.17	-0.17	-0.38	-0.58	-0.51	-0.12	N/A	N/A	-0.82	-0.12	
IM U.S. Fixed Income (SA+CF) Median			-0.87	-0.87	0.57	1.98	1.92	2.39	3.60	4.29	4.21	2.39	
Neuberger Berman Credit Rank			21	21	17	32	24	29	N/A	N/A	47	29	
Seix	955,301,430	8.03	-0.07	-0.07	2.55	3.86	4.44	N/A	N/A	N/A	5.65	3.92	05/01/2013
Credit Custom Index			0.26	0.26	2.53	3.92	4.01	3.92	4.72	6.11	5.20	3.76	
Difference			-0.33	-0.33	0.02	-0.06	0.43	N/A	N/A	N/A	0.45	0.16	
IM U.S. Fixed Income (SA+CF) Median			-0.87	-0.87	0.57	1.98	1.92	2.39	3.60	4.29	4.21	2.22	
Seix Rank			24	24	14	27	15	N/A	N/A	N/A	33	23	
Grosvenor Silvery Lupine Fund	284,903,832	2.40	1.61	1.61	6.49	8.36	7.58	N/A	N/A	N/A	9.66	6.59	07/01/2014
CS Western Euro Hi Yld Index			-0.12	-0.12	3.07	5.75	5.99	6.62	7.62	9.27	8.41	5.38	
Difference			1.73	1.73	3.42	2.61	1.59	N/A	N/A	N/A	1.25	1.21	





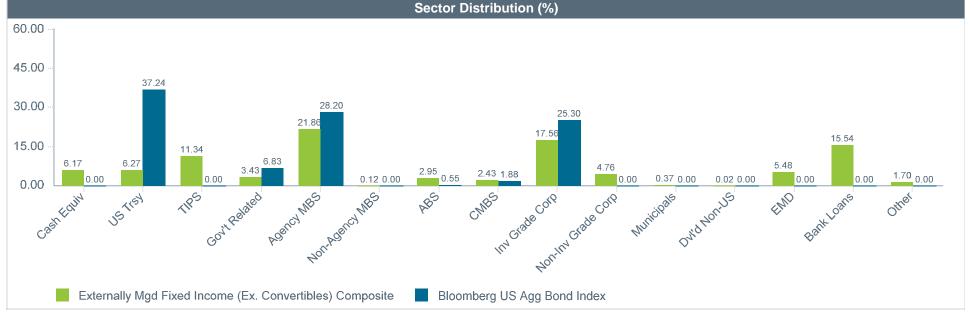
	Allocation						Р	erforma	nce (%)				
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	Since Incep.	Inception Date
Emerging Market Debt Fixed Income Composite	440,933,266	3.71	5.14	5.14	10.36	13.91	5.55	-0.83	N/A	N/A	16.51	-0.83	04/01/2013
JPM GBI-EM Gbl Dvf'd Index (USD) (TR) (Unhedged)			4.44	4.44	9.04	12.99	5.43	-0.67	1.07	3.78	15.21	-0.67	
Difference			0.70	0.70	1.32	0.92	0.12	-0.16	N/A	N/A	1.30	-0.16	
IM Emerging Markets Debt (SA+CF) Median			0.18	0.18	4.81	7.24	6.24	3.55	5.45	6.93	12.45	3.55	
Emerging Market Debt Fixed Income Composite Rank			11	11	6	11	74	95	N/A	N/A	11	95	
Investec	226,948,220	1.91	5.17	5.17	11.01	14.55	5.61	-0.31	N/A	N/A	17.65	-0.31	04/01/2013
JPM GBI-EM Gbl Dvf'd Index (USD) (TR) (Unhedged)			4.44	4.44	9.04	12.99	5.43	-0.67	1.07	3.78	15.21	-0.67	
Difference			0.73	0.73	1.97	1.56	0.18	0.36	N/A	N/A	2.44	0.36	
IM Emerging Markets Debt (SA+CF) Median			0.18	0.18	4.81	7.24	6.24	3.55	5.45	6.93	12.45	3.55	
Investec Rank			10	10	4	6	72	87	N/A	N/A	7	87	
Stone Harbor	213,985,046	1.80	5.10	5.10	9.68	13.24	5.49	-1.41	N/A	N/A	15.33	-1.41	04/01/2013
JPM GBI-EM Gbl Dvf'd Index (USD) (TR) (Unhedged)			4.44	4.44	9.04	12.99	5.43	-0.67	1.07	3.78	15.21	-0.67	
Difference			0.66	0.66	0.64	0.25	0.06	-0.74	N/A	N/A	0.12	-0.74	
IM Emerging Markets Debt (SA+CF) Median			0.18	0.18	4.81	7.24	6.24	3.55	5.45	6.93	12.45	3.55	
Stone Harbor Rank			11	11	14	14	76	99	N/A	N/A	22	99	
State Street TIPS	719,117,862	6.05	-0.90	-0.90	1.48	1.07	1.30	0.09	N/A	N/A	3.12	-0.01	01/01/2013
Bloomberg US Trsy US TIPS Index (Series B)			-0.86	-0.86	1.45	1.03	1.32	0.10	2.62	2.99	3.30	0.00	
Difference			-0.04	-0.04	0.03	0.04	-0.02	-0.01	N/A	N/A	-0.18	-0.01	
Internal Fixed Income Portfolio	1,854,358,147	15.59	-0.33	-0.33	-0.19	0.48	1.08	1.17	2.04	2.37	1.84	4.63	10/01/1996
Bloomberg US Gov't: Int. Term Bond Index			-0.73	-0.73	-0.79	-0.14	0.46	0.75	1.65	2.40	1.14	4.61	
Difference			0.40	0.40	0.60	0.62	0.62	0.42	0.39	-0.03	0.70	0.02	
IM U.S. Government Bonds (SA+CF) Median			-0.75	-0.75	-0.33	0.55	0.52	1.19	2.00	2.50	1.87	4.71	
Internal Fixed Income Portfolio Rank			20	20	45	56	15	52	50	53	51	52	
Internal Low Duration Fixed Income Portfolio	1,365,546,666	11.48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.16	03/01/2018
Bloomberg US Gov't 1-3 Yr Bond Index			-0.15	-0.15	-0.18	0.02	0.40	0.53	0.68	1.22	0.45	0.20	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.04	
IM U.S. Short Duration Fixed Income (SA+CF) Median			-0.16	-0.16	0.32	0.81	1.01	1.07	1.49	2.16	1.50	0.15	
Internal Low Duration Fixed Income Portfolio Rank			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	46	

Performance shown is gross of fees with the exception of the convertible bond portfolio and Grosvenor Silvery Lupine Fund, 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. The Credit Custom Index consists of 20% Bloomberg US Credit Index, 20% ICE BofAML US HY Master II Const. Index, and 60% S&P/LSTA Leveraged Loan Index. The Internal Fixed Income Portfolio Index consists of the Bloomberg US Gov't: Int. Term Bond Index; prior to December 2009 the index consisted of the Bloomberg US Gov't/Credit Bond Index. The C.S. McKee Custom Index consists of the Bloomberg US Agg Bond Index through January 2018 and the Bloomberg US Agg Int Index thereafter. The PIMCO Custom Index consists of the Bloomberg US Agg Bond Index through February 2018 and the Bloomberg US Agg Int Index thereafter.



Wyoming State Treasurer's Office Externally Mgd Fixed Income (Ex. Convertibles) Composite vs. Bloomberg US Agg Bond Index Portfolio Characteristics

	Portfolio Characteristics	
	Portfolio	Benchmark
Effective Duration	3.88	6.08
Avg. Maturity	6.13	8.42
Avg. Quality	A2	Aa1/Aa2
Yield To Maturity (%)	3.89	3.12
Coupon Rate (%)	3.37	3.08
Current Yield (%)	3.23	N/A

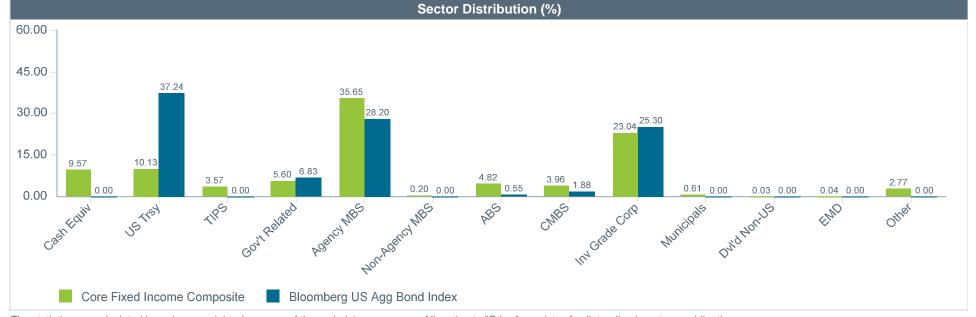


The statistics are calculated based on a weighted average of the underlying managers. Statistics shown exclude Grosvenor Silvery Lupine Fund and managers in the liquidation process as of 03/31/2018. Allocation to "Other" consists of collateralized mortgage obligations, Euro/Yankee securities, and sovereign debt.



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

	Portfolio Characteristics	
	Portfolio	Benchmark
Effective Duration	4.28	6.08
Convexity	-0.10	0.32
Avg. Maturity	5.24	8.42
Avg. Quality	Aa3	Aa1/Aa2
/ield To Maturity (%)	3.17	3.12
Coupon Rate (%)	3.08	3.08
Current Yield (%)	2.96	N/A



The statistics are calculated based on a weighted average of the underlying managers. Allocation to "Other" consists of collateralized mortgage obligations, sovereign debt, and Euro/Yankee securities.



Wyoming State Treasurer's Office Credit Fixed Income Composite vs. Credit Custom Index Portfolio Characteristics

Portfolio Characteristics	
Portfolio	Benchmark
2.00	N/A
7.00	6.45
Ba3	Ba2
5.37	5.98
4.34	5.05
4.08	N/A
	2.00 7.00 Ba3 5.37 4.34

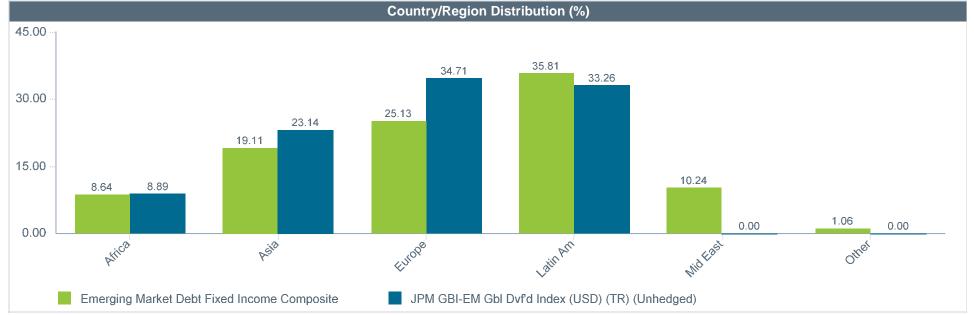






Wyoming State Treasurer's Office Emerging Market Debt Fixed Income Composite vs. JPM GBI-EM GbI Dvf'd Index (USD) (TR) (Unhedged) Portfolio Characteristics

	Portfolio Characteristics	
	Portfolio	Benchmark
Effective Duration	5.12	5.23
Spread Duration	N/A	N/A
Convexity	0.50	0.51
Avg. Maturity	7.77	7.58
Avg. Quality	Baa2	Baa3
Yield To Maturity (%)	7.07	5.91
Coupon Rate (%)	6.41	6.56
Yield To Worst (%)	7.07	5.91
Current Yield (%)	6.64	6.36



The statistics are calculated based on a weighted average of the underlying managers. Region allocation to "Other" consists of developed market securities, the Commonwealth of Independent States, and cash. Negative region allocation reflects manager's use of derivatives, short selling, or interest rate swaps.



Wyoming State Treasurer's Office Comparative Performance

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	Since Incep.	Inception Date
JP Morgan Cash Composite	0.37	0.37	0.79	1.00	0.55	0.39	0.37	0.63	0.83	1.46	01/01/2006
JP Morgan Cash Custom Index	0.31	0.31	0.82	1.03	0.54	0.40	0.41	0.66	0.84	1.47	
Difference	0.06	0.06	-0.03	-0.03	0.01	-0.01	-0.04	-0.03	-0.01	-0.01	
Wyo-Star Cash Composite	0.21	0.21	0.60	0.78	0.48	0.40	0.38	0.71	0.76	3.30	10/01/1996
Wyo-Star Cash Custom Index	0.23	0.23	0.67	0.90	0.51	0.42	0.45	0.72	0.80	2.66	
Difference	-0.02	-0.02	-0.07	-0.12	-0.03	-0.02	-0.07	-0.01	-0.04	0.64	

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. Currently, 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.

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	2017	Since Incep.	Inception Date
JP Morgan Cash Composite	0.37	0.37	0.82	1.05	0.64	0.49	0.47	0.73	0.87	1.54	01/01/2006
JP Morgan Cash Custom Index	0.31	0.31	0.82	1.03	0.54	0.40	0.41	0.66	0.84	1.47	
Difference	0.06	0.06	0.00	0.02	0.10	0.09	0.06	0.07	0.03	0.07	
Wyo-Star Cash Composite	0.22	0.22	0.64	0.84	0.55	0.46	0.46	0.79	0.81	3.33	10/01/1996
Wyo-Star Cash Custom Index	0.23	0.23	0.67	0.90	0.51	0.42	0.45	0.72	0.80	2.66	
Difference	-0.01	-0.01	-0.03	-0.06	0.04	0.04	0.01	0.07	0.01	0.67	

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. Currently, 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.

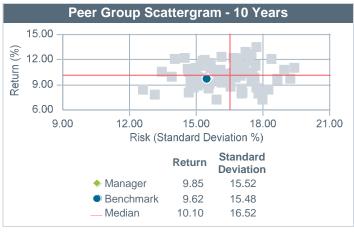
The Wyo-Star Cash Custom Index is calculated monthly using beginning of the month investment weights applied to each corresponding primary benchmark return. Currently, the primary benchmark for Wyo-Star Cash is the ICE BofAML 3 Mo US T-Bill Index and for Wyo-Star Extd is the JP Morgan Blended Index.



Manager: State Street All Cap Benchmark: Russell 3000 Index

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

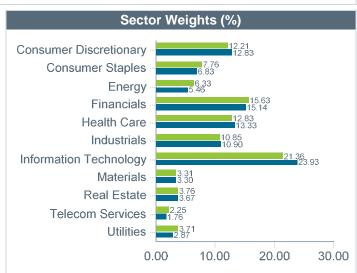
				Pe	erformand	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013
Manager	-1.15	12.59	9.94	12.69	12.33	9.85	19.79	13.77	-0.02	12.86	33.48
Benchmark	-0.64	13.81	10.22	13.03	12.39	9.62	21.13	12.74	0.48	12.56	33.55
Difference	-0.51	-1.22	-0.28	-0.34	-0.06	0.23	-1.34	1.03	-0.50	0.30	-0.07
Peer Group Median	-0.36	13.35	9.37	12.56	12.06	10.09	19.74	12.59	-0.63	10.01	35.08
Rank	59	56	40	48	45	56	50	43	46	22	66
Population	152	150	143	138	125	108	155	175	181	192	204







			Portfolio		Benchmark
Wtd. Avg. Mkt. Cap (\$N	1)		152,647		163,882
Median Mkt. Cap (\$M)			2,476		1,702
Price/Earnings Ratio			19.98		21.16
Price/Book Ratio			3.03		3.22
5 Yr. EPS Growth Rate	(%)		12.68		14.27
Current Yield (%)			2.04		1.87
Beta (5 Years, Monthly)		0.97		1.00
Number of Securities			2,476		2,958
Active Share			9.89		N/A
45.00 ··· 39.7341.15 30.00 ··· 15.00 ···	6.04 6.22	23.41 _{21.95}	9.29 8.35	19.2218.69	2.31 3.65
>\$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. Performance prior to client inception consists of the State Street All Cap Custom Index. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



As of March 31, 2018

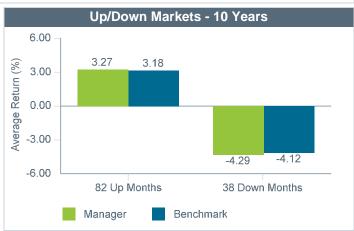
Manager: Epoch

Benchmark: Russell 3000 Index

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

				Pe	erforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013
Manager	-1.77	13.32	9.06	13.44	11.80	9.55	23.97	10.19	-1.61	14.56	37.28
Benchmark	-0.64	13.81	10.22	13.03	12.39	9.62	21.13	12.74	0.48	12.56	33.55
Difference	-1.13	-0.49	-1.16	0.41	-0.59	-0.07	2.84	-2.55	-2.09	2.00	3.73
Peer Group Median	-0.36	13.35	9.37	12.56	12.06	10.09	19.74	12.59	-0.63	10.01	35.08
Rank	73	51	55	36	54	66	24	58	57	12	36
Population	152	150	143	138	125	108	155	175	181	192	204







			Portfolio		Benchmark
Wtd. Avg. Mkt. Cap (\$N	1)		162,829		163,882
Median Mkt. Cap (\$M)			28,400		1,702
Price/Earnings Ratio			20.64		21.16
Price/Book Ratio			3.02		3.22
5 Yr. EPS Growth Rate	(%)		27.01		14.27
Current Yield (%)			1.60		1.87
Beta (5 Years, Monthly))		1.09		1.00
Number of Securities			58		2,958
Active Share			81.43		N/A
60.00 ··· 45.00 ··· 30.00 ···		22.80 21.95		25.54	
		22.80 21.95		18.69	
15.00	7.26 6.22		9.66 8.35		1.20 3.65
0.00					
>\$100 Bil	\$75 Bil -	\$25 Bil -	\$15 Bil -	\$2 Bil -	\$0 -



Performance shown is gross of fees and product specific prior to client inception. 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	2017	2016	2015	2014	2013
Manager	-1.26	13.72	10.05	12.68	10.07	5.18	21.83	10.87	1.03	13.30	23.52
Benchmark	-0.76	13.99	10.78	13.31	12.71	9.49	21.83	11.96	1.38	13.69	32.39
Difference	-0.50	-0.27	-0.73	-0.63	-2.64	-4.31	0.00	-1.09	-0.35	-0.39	-8.87
Peer Group Median	-0.44	14.02	10.23	13.32	12.73	9.75	21.82	10.50	1.39	13.43	32.98
Rank	76	58	53	68	90	100	50	46	54	52	95
Population	248	247	243	233	217	194	269	297	315	337	355







Portfolio Ch	aracteri	stics an	d Dist.	of Market Cap (%)
			Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$N	Л)		160,358	196,619
Median Mkt. Cap (\$M)			20,674	21,046
Price/Earnings Ratio			20.32	21.42
Price/Book Ratio			3.01	3.33
5 Yr. EPS Growth Rate	(%)		9.64	14.44
Current Yield (%)			2.03	1.97
Beta (5 Years, Monthly)		0.96	1.00
Number of Securities			519	505
Active Share			38.35	N/A
49.62 45.00 37.94 30.00 0.00	9.79 7.55	24.01 ^{25.95}	10.97 9.30	14.74 7.58 2.55 0.00
>\$100 Bil	\$75 Bil - \$100 Bil	\$25 Bil - \$75 Bil	\$15 Bil - \$25 Bil	\$2 Bil - \$0 - \$15 Bil \$2 Bil



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

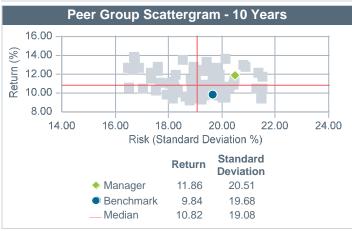


Manager: RBC As of March 31, 2018

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	2017	2016	2015	2014	2013
Manager	-2.95	9.74	7.58	11.03	10.80	11.86	11.79	27.49	-6.18	5.31	39.56
Benchmark	-0.08	11.79	8.39	11.47	10.39	9.84	14.65	21.31	-4.41	4.89	38.82
Difference	-2.87	-2.05	-0.81	-0.44	0.41	2.02	-2.86	6.18	-1.77	0.42	0.74
Peer Group Median	-0.13	12.04	9.44	12.78	11.70	10.82	15.21	20.64	-1.36	6.57	41.28
Rank	94	70	77	86	74	32	77	11	91	61	67
Population	134	134	132	127	122	101	138	146	154	153	152







	Portfolio	Benchmark
Vtd. Avg. Mkt. Cap (\$M)	2,976	2,531
Median Mkt. Cap (\$M)	1,239	860
Price/Earnings Ratio	20.71	20.18
Price/Book Ratio	2.46	2.55
7 Yr. EPS Growth Rate (%)	13.22	11.08
Current Yield (%)	1.18	1.28
Beta (5 Years, Monthly)	1.01	1.00
Number of Securities	272	1,983
Active Share	94.55	N/A
44.03 49.3 45.00 30.00 28.16 32.09	19.53 12.13 6.33 5.52	<u>1.63</u> 0.84 0.32 0.09
>\$3 Bil \$1 Bil - \$3 Bil	\$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.

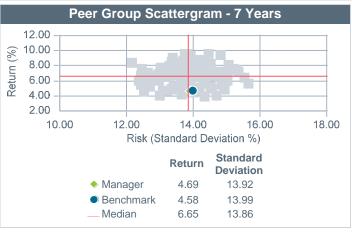


Manager: Internal International Equity Portfolio

Benchmark: FTSE All Wrld Ex US Index (US Invstr) (USD) (Net)

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

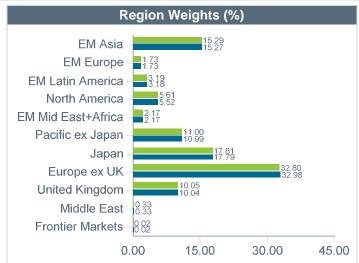
				Pe	erforman	ce					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013
Manager	-0.52	16.78	6.75	6.42	4.69	N/A	27.29	4.81	-4.54	-3.92	14.65
Benchmark	-1.19	16.45	6.53	6.30	4.58	3.11	27.11	4.80	-4.72	-3.31	15.31
Difference	0.67	0.33	0.22	0.12	0.11	N/A	0.18	0.01	0.18	-0.61	-0.66
Peer Group Median	-0.38	18.00	7.50	8.14	6.65	4.60	28.68	2.09	-0.53	-3.38	20.39
Rank	52	61	62	82	88	N/A	62	25	80	60	88
Population	179	179	175	164	146	122	191	206	217	214	204







			Portfolio		Benchmark
Wtd. Avg. Mkt. Cap (\$N	Л)		60,652		63,313
Median Mkt. Cap (\$M)			6,200		6,196
Price/Earnings Ratio			14.45		14.31
Price/Book Ratio			2.12		2.12
5 Yr. EPS Growth Rate	: (%)		10.17		10.56
Current Yield (%)			3.01		3.04
Beta (5 Years, Monthly)		0.97		1.00
Number of Securities			2,704		2,568
Active Share			4.37		N/A
40.00		32.2832.13			
30.00 ···				28.7928.80	
20.00 16.6716.74					
16.67 16.74			12.99 12.88		
10.00	8.04 8.22				
0.00					1.23 1.22
>\$100 Bil	\$75 Bil -	\$25 Bil -	: \$15 Bil -	: \$2 Bil -	\$0 -
∕φ100 BII	\$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. The Internal International Equity Portfolio currently consists of Vanguard FTSE xUS;InsP (VFWPX).

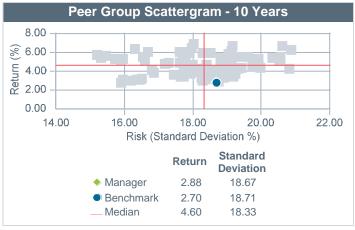


As of March 31, 2018

Manager: Northern Trust

Benchmark: MSCI ACW Ex US Index (USD) (Net) **Peer Group:** IM All ACWI Ex US (SA+CF)

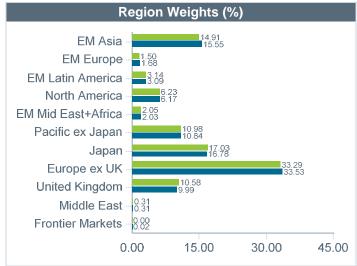
				Pe	erforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013
Manager	-1.08	16.90	6.29	6.03	4.42	2.88	27.51	4.48	-5.70	-3.63	15.42
Benchmark	-1.18	16.53	6.18	5.89	4.26	2.70	27.19	4.50	-5.66	-3.87	15.29
Difference	0.10	0.37	0.11	0.14	0.16	0.18	0.32	-0.02	-0.04	0.24	0.13
Peer Group Median	-0.38	18.00	7.50	8.14	6.65	4.60	28.68	2.09	-0.53	-3.38	20.39
Rank	71	59	71	89	91	94	61	29	87	54	85
Population	179	179	175	164	146	122	191	206	217	214	204







			Portfolio		Benchmark
Wtd. Avg. Mkt. Cap (\$N	Л)		66,221		67,470
Median Mkt. Cap (\$M)			8,846		8,755
Price/Earnings Ratio			14.52		14.45
Price/Book Ratio			2.13		2.13
5 Yr. EPS Growth Rate	(%)		10.11		10.21
Current Yield (%)			3.04		3.05
Beta (5 Years, Monthly)		1.00		1.00
Number of Securities			1,874		1,864
Active Share			5.66		N/A
45.00		34.1733.76			
30.00				25.92 26.08	
15.00	8.62 8.60		13.3613.40		0.27 0.33
0.00					0.27 0.55
>\$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.



Manager: Fisher Investments

Benchmark: MSCI ACW Ex US Index (Net)* **Peer Group:** IM All ACWI Ex US (SA+CF)

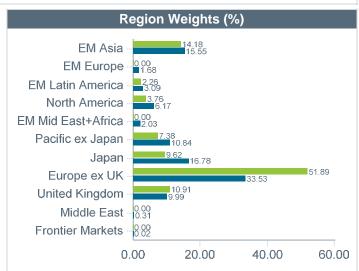
				Pe	erforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013
Manager	-1.10	18.47	6.49	7.56	5.59	4.53	30.17	1.94	-1.84	-1.91	17.68
Benchmark	-1.18	16.53	6.18	5.89	4.26	2.27	27.19	4.50	-5.66	-3.87	15.29
Difference	0.08	1.94	0.31	1.67	1.33	2.26	2.98	-2.56	3.82	1.96	2.39
Peer Group Median	-0.38	18.00	7.50	8.14	6.65	4.60	28.68	2.09	-0.53	-3.38	20.39
Rank	72	45	67	66	72	52	40	52	59	37	68
Population	179	179	175	164	146	122	191	206	217	214	204







			Portfolio		Benchmark
Wtd. Avg. Mkt. Cap (\$N	A)		120,380		67,470
Median Mkt. Cap (\$M)			74,171		8,755
Price/Earnings Ratio			15.91		14.45
Price/Book Ratio			2.73		2.13
5 Yr. EPS Growth Rate	(%)		11.51		10.21
Current Yield (%)			2.46		3.05
Beta (5 Years, Monthly)		1.04		1.00
Number of Securities			67		1,864
Active Share			79.79		N/A
60.00 ···· 45.00 ··· 36.67 30.00 ··· 17.83	24.14 8.60	31.57 33.76	13.40 5.48	26.08	0.00 0.33
>\$100 Bil	\$75 Bil - \$100 Bil	\$25 Bil - \$75 Bil	\$15 Bil - \$25 Bil	\$2 Bil - \$15 Bil	\$0 - \$2 Bil



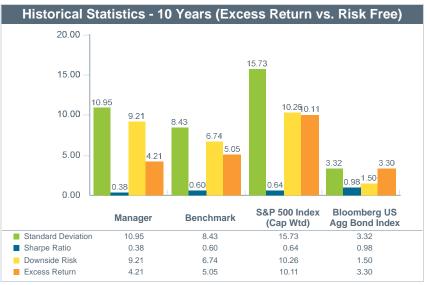
Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. *Consists of the MSCI EAFE (Gross) through July 2010 and the MSCI ACW Ex US (Net) thereafter.



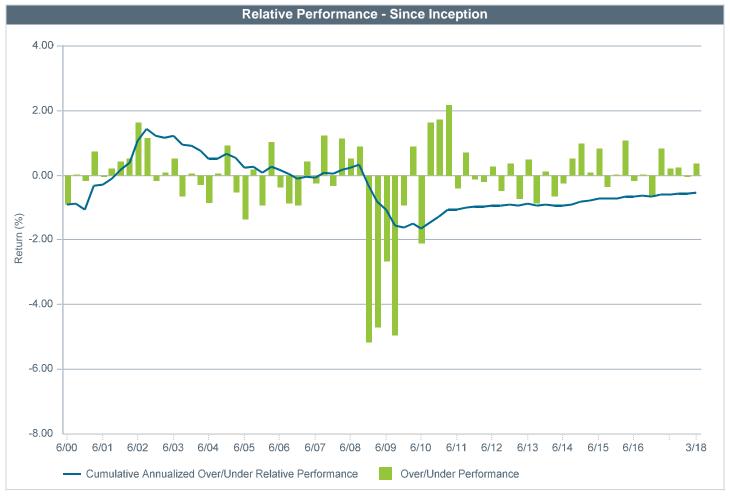
Manager: Clarion Lion Properties (CF)

Benchmark: NCREIF ODCE Index (AWA) (Gross)

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013
Manager	2.56	8.93	10.88	12.05	12.14	3.96	8.99	9.09	15.71	13.17	12.77
Benchmark	2.20	8.07	9.99	11.43	11.79	5.11	7.62	8.77	15.02	12.50	13.94
Difference	0.36	0.86	0.89	0.62	0.35	-1.15	1.37	0.32	0.69	0.67	-1.17



Actual Correlation - 10	Years
	Actual Correlation
NCREIF ODCE Index (AWA) (Gross)	0.99
S&P 500 Index (Cap Wtd)	0.24
Russell 2000 Index	0.21
MSCI EAFE Index (USD) (Net)	0.08
MSCI Emg Mkts Index (USD) (Net)	-0.07
Bloomberg US Agg Bond Index	-0.27
Bloomberg US Trsy US TIPS Index	-0.09
Wilshire US REIT Index	0.22
HFRI FOF Comp Index	0.14
Bloomberg Cmdty Index (TR)	0.17
ICE BofAML 3 Mo US T-Bill Index	-0.14
Cons Price Index (Unadjusted)	0.23



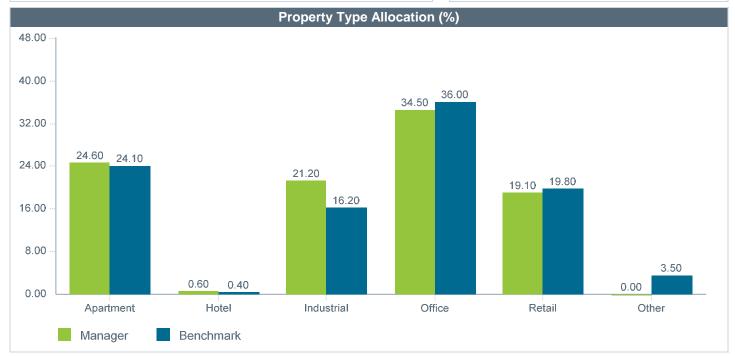


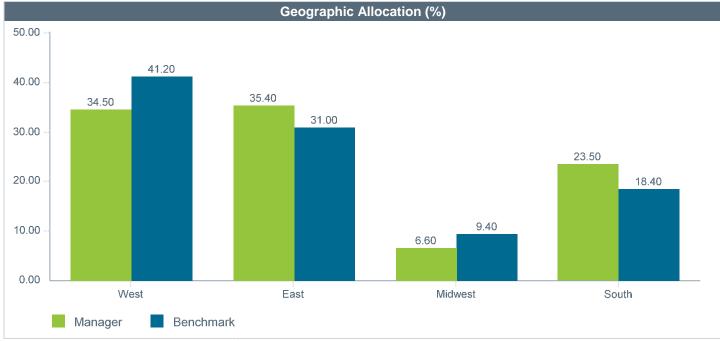
Manager: Clarion Lion Properties (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

Investment Strategy

The Clarion Lion Properties Fund is a core real estate investment vehicle that seeks to combine an attractive income yield with long-term capital growth. The Fund's investment strategy is to manage a diversified portfolio of primarily institutional quality real estate assets and related investments across the four main property types in major markets located throughout the US. The portfolio is actively managed with inputs from the firm's Research and Investment Strategy Group and the firm's Acquisitions Group through a continuous evaluation of real estate cycles, national and regional market fundamentals, and property characteristics to emphasize sectors of relative value. The Fund may invest up to 15% of its gross assets in non-core type real estate investment opportunities.

Investment Profile						
Fund Inception	2000					
Legal Structure	LP					
Fund Structure	Open-End					
Gross Real Estate Assets (\$M)	10,848					
Fund Leverage %	22.00					
Portfolio Occupancy %	93.60					
Cash Reserve %	4.20					
Number of Investments	136					
Number of Limited Partners	323					



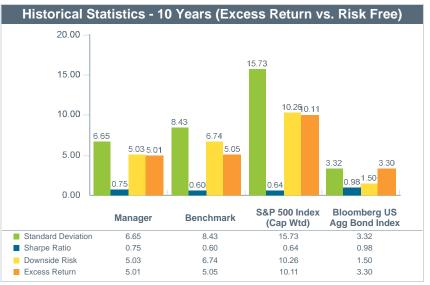


Performance shown is gross of fees and product specific. Calculation is based on quarterly periodicity. Investment profile data shown is provided by the investment manager and is as of the most recently available quarter end. Allocation data shown is based on NAV. Benchmark allocation to "Other" consists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

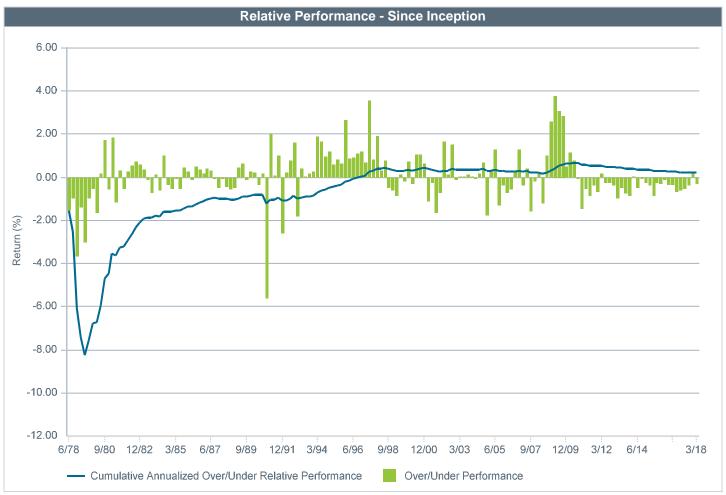


Manager: UBS Trumbull Property (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013
Manager	1.89	7.08	8.39	9.73	10.01	5.22	6.30	7.21	12.94	11.69	10.44
Benchmark	2.20	8.07	9.99	11.43	11.79	5.11	7.62	8.77	15.02	12.50	13.94
Difference	-0.31	-0.99	-1.60	-1.70	-1.78	0.11	-1.32	-1.56	-2.08	-0.81	-3.50



	Actual Correlation
NCREIF ODCE Index (AWA) (Gross)	0.99
S&P 500 Index (Cap Wtd)	0.22
Russell 2000 Index	0.19
MSCI EAFE Index (USD) (Net)	0.08
MSCI Emg Mkts Index (USD) (Net)	-0.07
Bloomberg US Agg Bond Index	-0.15
Bloomberg US Trsy US TIPS Index	-0.04
Wilshire US REIT Index	0.27
HFRI FOF Comp Index	0.12
Bloomberg Cmdty Index (TR)	0.12
ICE BofAML 3 Mo US T-Bill Index	-0.21
Cons Price Index (Unadjusted)	0.18



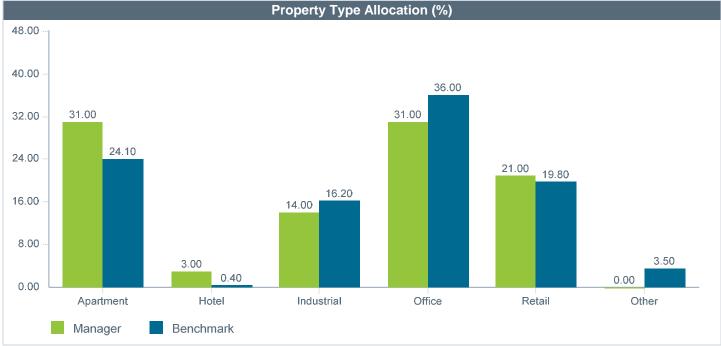


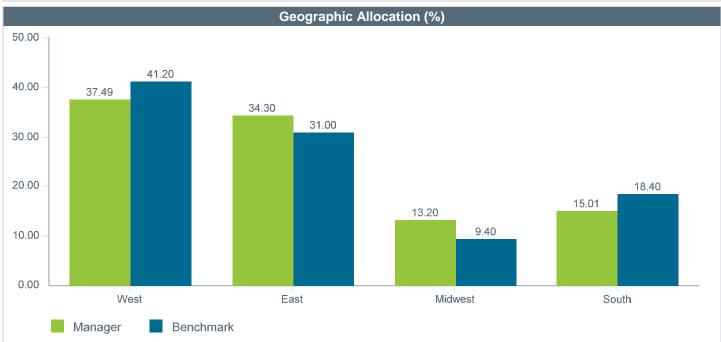
Manager: UBS Trumbull Property (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

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The UBS Trumbull Property Fund is an actively managed core equity real estate investment vehicle 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 its income component. The Fund has historically maintained a leverage ratio significantly lower than the NCREIF ODCE Index and invests 5-15% of its gross assets in the "value-added" type real estate investment opportunities.

Investment Profile	
Fund Inception	1978
Legal Structure	LP
Fund Structure	Open-End
Gross Real Estate Assets (\$M)	23,672
Fund Leverage %	17.20
Portfolio Occupancy %	92.24
Cash Reserve %	3.40
Number of Investments	211
Number of Limited Partners	440





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.



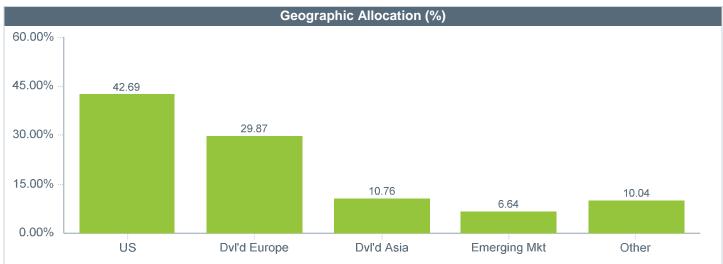
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IIIVCS	unioni	Otlat	9,5

PAAMCO focuses on returns which are targeted to be independent of traditional markets and builds portfolios which aim to diversify sources of idiosyncratic returns. PAAMCO believes in being open to new investment ideas and that investment decisions should be based on independent, fundamental assessments. PAAMCO attempts to avoid conflicts and maintain the highest ethical standards in evaluating investment opportunities.

Firm Statistics	
Year Firm Established	2000
Firm AUM (\$M)	8,878
Percentage Employee Owned %	60.10

Fund Statistics	
Fund Inception	2007
Fund Size(\$M)	505
Number of Underlying Managers	40
Maximum Weighting of an Underlying Manager %	5.98
Current Leverage (Assets/Equity)	3.13
Annual Manager Turnover %	15.65
Annual Management Fee %	0.94
Performance Fee %	No
Hurdle %	No
Initial Lock-Up Periods	No
Redemption Frequency	Monthly
Notification Period	30 Days





Strategy Allocation to "Other" consists of opportunistic investments, lower liquidity investments, and cash. Geographic Allocation to "Other" consists of Asia ex-Japan, Canada, and unclassified geographies. Investment profile data shown is provided by the investment manager and is as of the most recently available quarter end.

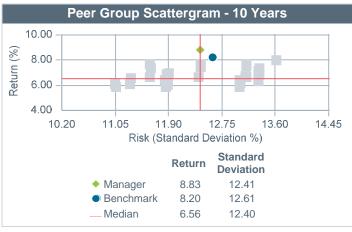


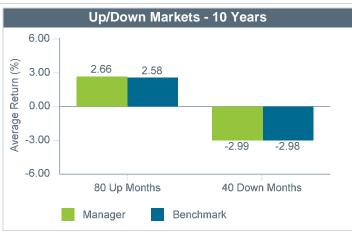
Manager: Allianz Global Investors

Benchmark: ICE BofAML All Cnvrts Index (All Qual)

Peer Group: IM Convertible Bonds (MF)

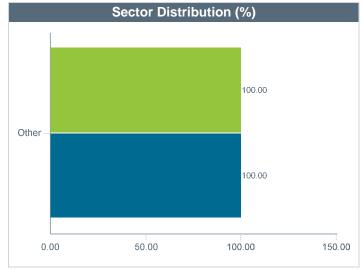
Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013
Manager	3.57	13.09	6.14	8.87	7.77	8.83	14.76	5.86	-1.49	6.64	25.60
Benchmark	2.43	10.60	6.50	9.60	8.46	8.20	13.70	10.44	-3.24	9.42	24.96
Difference	1.14	2.49	-0.36	-0.73	-0.69	0.63	1.06	-4.58	1.75	-2.78	0.64
Peer Group Median	1.98	10.62	5.58	8.10	6.75	6.56	14.26	6.87	-3.74	6.42	23.16
Rank	12	17	34	31	22	1	42	67	29	46	11
Population	83	82	71	62	53	40	85	87	79	76	76







io Characteristic	55
Portfolio	Benchmark
N/A	2.48
N/A	N/A
11.63	18.72
Ba1	Ba2
N/A	0.17
2.35	3.22
1.88	3.03
109	414
	N/A N/A 11.63 Ba1 N/A 2.35



Performance shown is net of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Allocation to other consists of convertibles.



Manager: C.S. McKee

Benchmark: C.S. McKee 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	2017	2016	2015	2014	2013
Manager	-1.10	1.73	1.65	2.00	3.25	4.30	3.63	2.65	1.49	5.75	-2.23
Benchmark	-1.23	1.44	1.28	1.87	2.96	3.65	3.54	2.65	0.55	5.97	-2.02
Difference	0.13	0.29	0.37	0.13	0.29	0.65	0.09	0.00	0.94	-0.22	-0.21
Peer Group Median	-1.37	1.65	1.56	2.15	3.36	4.29	4.05	3.10	0.82	6.16	-1.56
Rank	18	45	44	61	59	49	77	75	10	78	88
Population	132	132	127	124	120	115	142	157	160	174	186







	Portfolio	Benchmark
Effective Duration	4.29	4.36
Spread Duration	3.18	4.57
Avg. Maturity	5.01	5.42
Avg. Quality	Aa2	Aa1/Aa2
Yield To Maturity (%)	3.13	2.99
Coupon Rate (%)	2.87	2.85
Current Yield (%)	2.89	N/A
Holdings Count	259	7,751



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 sovereign debt and collateralized mortgage obligations.



Manager: JP Morgan Core

Benchmark: Bloomberg US Agg Bond Index

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

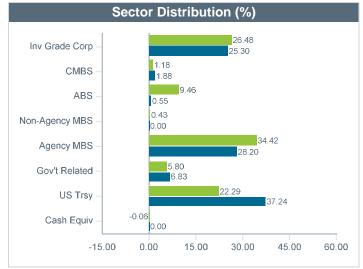
Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013
Manager	-1.24	1.30	1.36	2.04	3.27	4.43	3.53	2.52	1.25	6.19	-1.83
Benchmark	-1.46	1.20	1.20	1.82	2.92	3.63	3.54	2.65	0.55	5.97	-2.02
Difference	0.22	0.10	0.16	0.22	0.35	0.80	-0.01	-0.13	0.70	0.22	0.19
Peer Group Median	-1.37	1.65	1.56	2.15	3.36	4.29	4.05	3.10	0.82	6.16	-1.56
Rank	29	76	69	59	58	40	86	85	16	47	65
Population	132	132	127	124	120	115	142	157	160	174	186







Portfolio Characteristics									
	Portfolio	Benchmark							
Effective Duration	5.66	6.08							
Spread Duration	3.89	6.25							
Avg. Maturity	7.33	8.42							
Avg. Quality	Aa3	Aa1/Aa2							
Yield To Maturity (%)	3.23	3.12							
Coupon Rate (%)	3.41	3.08							
Current Yield (%)	2.96	N/A							
Holdings Count	792	9,868							



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

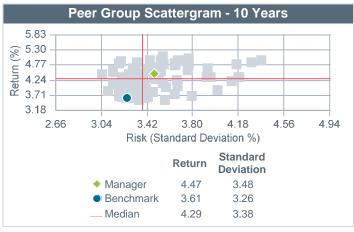


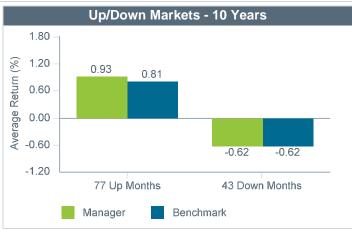
Manager: PIMCO Core

Benchmark: PIMCO Custom Index

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

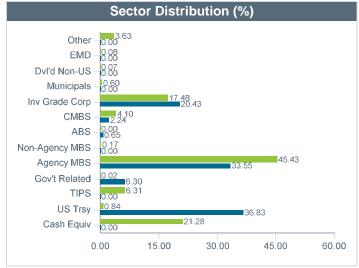
Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013
Manager	-1.52	1.66	1.49	1.88	3.30	4.47	4.27	3.35	0.50	5.85	-2.48
Benchmark	-1.65	1.01	1.14	1.79	2.90	3.61	3.54	2.65	0.55	5.97	-2.02
Difference	0.13	0.65	0.35	0.09	0.40	0.86	0.73	0.70	-0.05	-0.12	-0.46
Peer Group Median	-1.37	1.65	1.56	2.15	3.36	4.29	4.05	3.10	0.82	6.16	-1.56
Rank	84	50	58	78	56	38	32	42	79	73	95
Population	132	132	127	124	120	115	142	157	160	174	186







Portfolio Characteristics										
	Portfolio	Benchmark								
Effective Duration	3.37	4.36								
Spread Duration	3.26	4.57								
Avg. Maturity	4.00	5.42								
Avg. Quality	Aa2	Aa1/Aa2								
Yield To Maturity (%)	3.16	2.99								
Coupon Rate (%)	2.98	2.85								
Current Yield (%)	3.00	N/A								
Holdings Count	274	7,751								



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: Neuberger Berman Credit Benchmark: Credit Custom Index

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

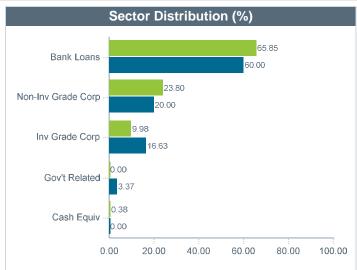
	Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013	
Manager	0.09	3.34	3.50	3.80	N/A	N/A	4.38	8.42	0.08	3.40	N/A	
Benchmark	0.26	3.92	4.01	3.92	4.72	6.11	5.20	10.69	-1.47	2.95	4.22	
Difference	-0.17	-0.58	-0.51	-0.12	N/A	N/A	-0.82	-2.27	1.55	0.45	N/A	
Peer Group Median	-0.87	1.98	1.92	2.39	3.60	4.29	4.21	3.74	0.72	4.43	-0.18	
Rank	21	32	24	29	N/A	N/A	47	23	66	62	N/A	
Population	1,264	1,260	1,227	1,176	1,109	925	1,381	1,478	1,512	1,568	1,600	







Portfolio Characteristics										
	Portfolio	Benchmark								
Effective Duration	1.71	N/A								
Spread Duration	4.65	N/A								
Avg. Maturity	6.07	6.45								
Avg. Quality	Ba3	Ba2								
Yield To Maturity (%)	5.13	5.98								
Coupon Rate (%)	3.68	5.05								
Current Yield (%)	3.16	N/A								
Holdings Count	141	N/A								



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

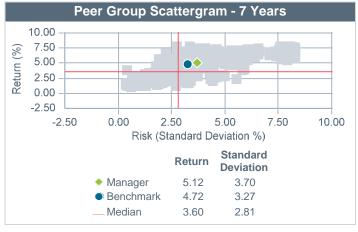


Manager: Seix As of March 31, 2018

Benchmark: Credit Custom Index

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

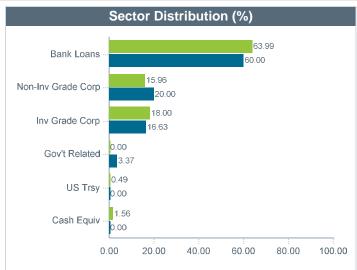
	Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013	
Manager	-0.07	3.86	4.44	4.09	5.12	N/A	5.65	11.46	-0.91	2.68	3.27	
Benchmark	0.26	3.92	4.01	3.92	4.72	6.11	5.20	10.69	-1.47	2.95	4.22	
Difference	-0.33	-0.06	0.43	0.17	0.40	N/A	0.45	0.77	0.56	-0.27	-0.95	
Peer Group Median	-0.87	1.98	1.92	2.39	3.60	4.29	4.21	3.74	0.72	4.43	-0.18	
Rank	24	27	15	26	28	N/A	33	14	76	70	22	
Population	1,264	1,260	1,227	1,176	1,109	925	1,381	1,478	1,512	1,568	1,600	







	Portfolio	Benchmark
Effective Duration	2.29	N/A
Spread Duration	N/A	N/A
Avg. Maturity	7.90	6.45
Avg. Quality	Ba2	Ba2
Yield To Maturity (%)	5.61	5.98
Coupon Rate (%)	4.97	5.05
Current Yield (%)	4.98	N/A
Holdings Count	571	N/A



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



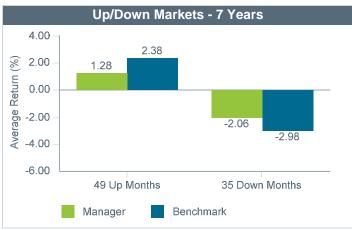
Manager: Investec

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

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

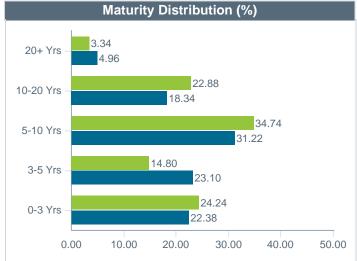
Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013
Manager	5.17	14.55	5.61	-0.31	-1.87	N/A	17.65	7.00	-14.68	-4.67	-8.93
Benchmark	4.44	12.99	5.43	-0.67	1.07	3.78	15.21	9.94	-14.92	-5.72	-8.98
Difference	0.73	1.56	0.18	0.36	-2.94	N/A	2.44	-2.94	0.24	1.05	0.05
Peer Group Median	0.18	7.24	6.24	3.55	5.45	6.93	12.45	11.09	-2.82	1.44	-5.87
Rank	10	6	72	87	100	N/A	7	92	83	81	81
Population	134	134	129	115	97	68	154	165	171	172	157







Portfolio Characteristics (%)										
	Portfolio	Benchmark								
Effective Duration	5.16	5.23								
Spread Duration	N/A	N/A								
Avg. Maturity	7.92	7.58								
Avg. Quality	Baa2	Baa3								
Yield To Maturity (%)	7.15	5.91								
Coupon Rate (%)	5.99	6.56								
Current Yield (%)	6.52	6.36								
Holdings Count	140	215								





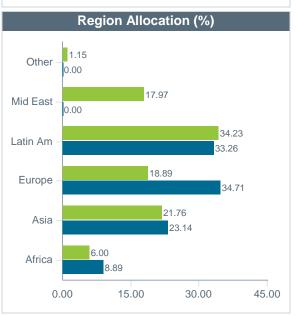
Manager: Investec As of March 31, 2018

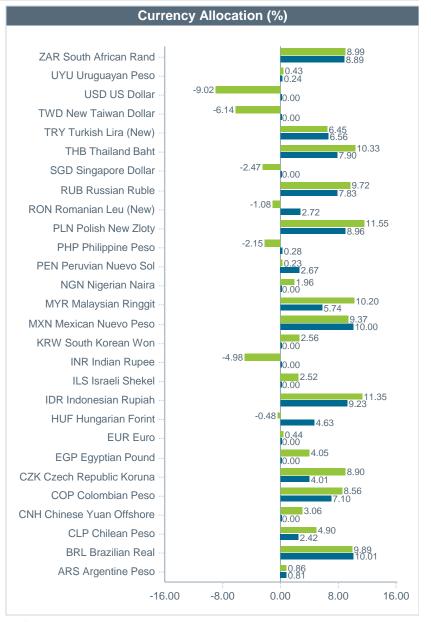
Benchmark: JPM GBI-EM Gbl Dvf'd Index (USD) (TR) (Unhedged)

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. Negative sector allocation reflects manager's use of derivatives, short selling, or interest rate swaps. Region allocation to "Other" consists of developed market securities and securities from the Commonwealth of Independent States region.



Manager: Stone Harbor

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

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

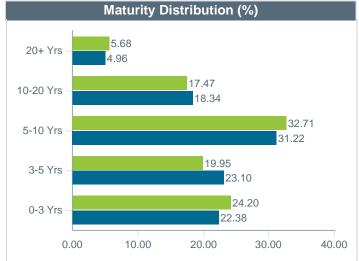
	Performance Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013	
Manager	5.10	13.24	5.49	-1.41	0.76	4.01	15.33	9.94	-14.61	-7.63	-11.48	
Benchmark	4.44	12.99	5.43	-0.67	1.07	3.78	15.21	9.94	-14.92	-5.72	-8.98	
Difference	0.66	0.25	0.06	-0.74	-0.31	0.23	0.12	0.00	0.31	-1.91	-2.50	
Peer Group Median	0.18	7.24	6.24	3.55	5.45	6.93	12.45	11.09	-2.82	1.44	-5.87	
Rank	11	14	76	99	98	83	22	71	83	98	99	
Population	134	134	129	115	97	68	154	165	171	172	157	







Portfolio Characteristics (%)										
	Portfolio	Benchmark								
Effective Duration	5.08	5.23								
Spread Duration	4.94	N/A								
Avg. Maturity	7.61	7.58								
Avg. Quality	Baa2	Baa3								
Yield To Maturity (%)	6.98	5.91								
Coupon Rate (%)	6.86	6.56								
Current Yield (%)	6.78	6.36								
Holdings Count	180	215								



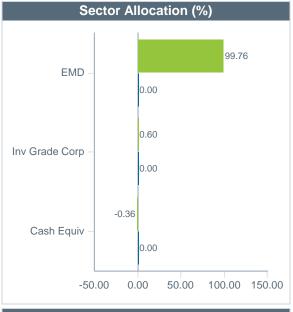


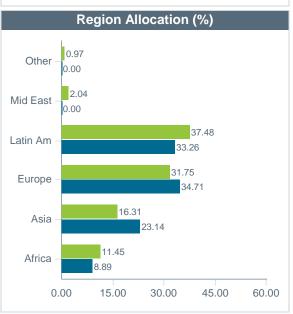
Manager: Stone Harbor As of March 31, 2018

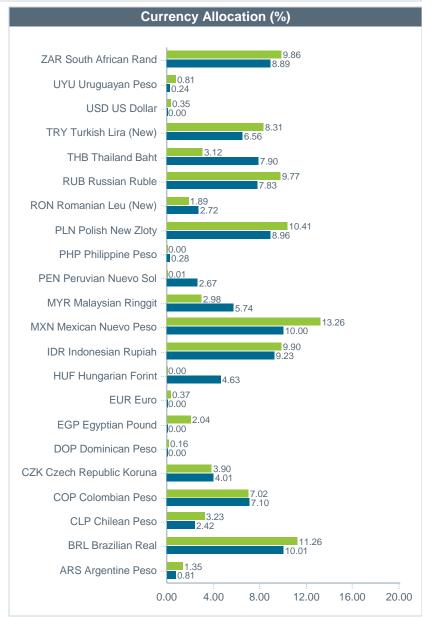
Benchmark: JPM GBI-EM Gbl Dvf'd Index (USD) (TR) (Unhedged)

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. Negative sector allocation reflects manager's use of derivatives, short selling, or interest rate swaps. Region allocation to "Other" consists of USD and cash.



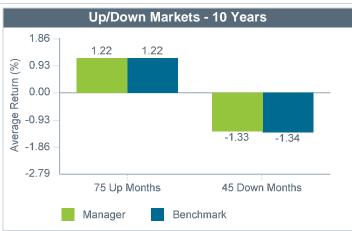
Manager: State Street TIPS

Benchmark: Bloomberg US Trsy US TIPS Index (Series B)

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

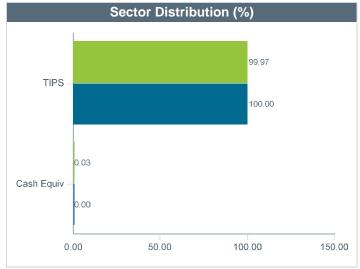
	Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013	
Manager	-0.90	1.07	1.30	0.09	2.61	2.99	3.12	5.04	-1.75	4.47	-9.26	
Benchmark	-0.86	1.03	1.32	0.10	2.62	2.99	3.30	4.85	-1.72	4.43	-9.26	
Difference	-0.04	0.04	-0.02	-0.01	-0.01	0.00	-0.18	0.19	-0.03	0.04	0.00	
Peer Group Median	-0.75	0.95	1.35	0.10	2.56	2.96	3.09	4.65	-1.41	3.57	-8.41	
Rank	90	36	69	53	37	48	47	23	89	7	93	
Population	32	32	31	31	28	28	35	37	37	42	45	







Effective Duration Spread Duration	5.41	N/A
Spread Duration	NI/A	
	N/A	N/A
Avg. Maturity	8.89	8.72
Avg. Quality	Aaa	Aaa
Yield To Maturity (%)	2.82	N/A
Coupon Rate (%)	0.94	N/A
Current Yield (%)	0.70	N/A
Holdings Count	40	39

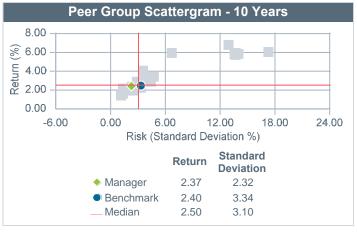


Performance shown is gross of fees. Performance prior to client inception consists of the Bloomberg US Trsy: US TIPS Index (Series B). Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



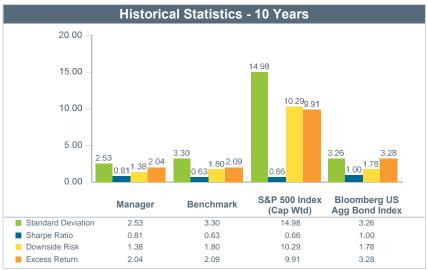
Manager: Internally Managed Fixed Income Comp Benchmark: Bloomberg US Gov't: Int. Term Bond Index* Peer Group: IM U.S. Government Bonds (SA+CF)

				Pe	erformand	ce					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2017	2016	2015	2014	2013
Manager	-0.33	0.48	1.08	1.17	2.04	2.37	1.84	0.95	1.83	5.30	-3.11
Benchmark	-0.73	-0.14	0.46	0.75	1.65	2.40	1.14	1.05	1.18	2.52	-1.25
Difference	0.40	0.62	0.62	0.42	0.39	-0.03	0.70	-0.10	0.65	2.78	-1.86
Peer Group Median	-0.75	0.55	0.52	1.19	2.00	2.50	1.87	1.37	0.72	2.89	-1.26
Rank	20	56	15	52	50	53	51	84	7	35	67
Population	42	41	40	39	38	33	44	46	46	47	47









Actual Correlation - 10 Years	
	Actual Correl.
Bloomberg US Gov't: Int. Term Bond Index*	0.70
S&P 500 Index (Cap Wtd)	-0.10
Russell 2000 Index	-0.18
MSCI EAFE Index (USD) (Net)	-0.05
MSCI Emg Mkts Index (USD) (Net)	-0.01
Bloomberg US Agg Bond Index	0.75
Bloomberg US Trsy US TIPS Index	0.55
NCREIF ODCE Index (AWA) (Gross)	-0.20
Wilshire US REIT Index	0.06
HFN FOF Multi-Strat Index (Net)	-0.11
Bloomberg Cmdty Index (TR)	-0.09
ICE BofAML 3 Mo US T-Bill Index	0.01
Cons Price Index (Unadjusted)	-0.18

Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. *Consists of the Bloomberg US Gov't: Int. Term Bond Index; prior to December 2009 the index consisted of the Bloomberg US Gov't/Credit Bond Index.



State of Wyoming State Loan and Investment Board Investment Policy Objective Review

Investment Policy Guidelines		eetir ojecti	_	Explanation
	Yes	No	N/A	Explanation
1. Total Fund				
Exceed the rate of inflation (C.P.I.) over a market cycle of 5-years.	1			Wyoming returned 4.3% vs. 1.4% 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.	1			Wyoming returned 4.3% vs. 4.2% for the Actual Allocation 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.	1			
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 5.5% vs. 5.6% for the Actual Allocation 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 5.6% vs. 5.6% for the Actual Allocation 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 5.4% vs. 5.4% for the Actual Allocation 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 5.8% vs. 5.9% for the Actual Allocation 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 4.9% vs. 5.0% for the Actual Allocation 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 4.8% vs. 5.0% for the Actual Allocation 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 3.8% vs. 3.9% for the Actual Allocation Index
h) Pool A				
At least 5% to 10% of the fund balance should be invested in securities with maturities of less than one year.	✓			
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 1.9% vs. 2.0% for the Actual Allocation Index
i) State Agency Pool				
At least 10% to 15% of the fund balance should be invested in securities with maturities of less than one year.	✓			
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 1.6% vs. 1.8% 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 the greater of five percent (5%), or the benchmark weighting plus two percent (2%), of the total stock portfolio of a manager may be invested in any one security.	✓			Largest Holding: Apple Inc = 2.74%
A maximum of one percent (1%) of the outstanding float of shares of one company may be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. A maximum of five percent (5%) of the outstanding float of shares of one company may be held in companies with market capitalizations of less than \$5 Billion at the time of purchase.				
The maximum allowable in any sector, as defined as Global Industry Classification System Level 1, is two and one-half (2.5) times the respective benchmark weighting, unless the contract with the investment manager specifically provides otherwise.	✓			
A minimum number of twenty (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.			N/A	Inception date: 01/2015
b) Epoch – All Cap				
A maximum of the greater of five percent (5%), or the benchmark weighting plus two percent (2%), of the total stock portfolio of a manager may be invested in any one security.	✓			Largest Holding: Microsoft Corp = 4.90%
A maximum of one percent (1%) of the outstanding float of shares of one company may be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. A maximum of five percent (5%) of the outstanding float of shares of one company may be held in companies with market capitalizations of less than \$5 Billion at the time of purchase.	✓			
The maximum allowable in any sector, as defined as Global Industry Classification System Level 1, is two and one-half (2.5) times the respective benchmark weighting, unless the contract with the investment manager specifically provides otherwise.	√			
A minimum number of twenty (20) securities shall be held.	✓			
Outperform the Russell 3000 Index, net of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception date: 11/2014
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: 11/2014



	Yes	No	N/A	Explanation
c) RBC – Small Cap				
A maximum of the greater of five percent (5%), or the benchmark weighting plus two percent (2%), of the total stock portfolio of a manager may be invested in any one security.	✓			Largest Holding: Patrick Industries Inc = 4.78%
A maximum of one percent (1%) of the outstanding float of shares of one company may be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. A maximum of five percent (5%) of the outstanding float of shares of one company may be held in companies with market capitalizations of less than \$5 Billion at the time of purchase.				
The maximum allowable in any sector, as defined as Global Industry Classification System Level 1, is two and one-half (2.5) times the respective benchmark weighting, unless the contract with the investment manager specifically provides otherwise.	✓			
A minimum number of twenty (20) securities shall be held.	✓			
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: 11/2014
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: 11/2014



	Yes	No	N/A	Explanation
4. International Equity Portfolios				
a) Internal International Equity Portfolio – Int'l – Passive				
A maximum of the greater of five percent (5%), or the benchmark weighting plus two percent (2%), of the total stock portfolio of a manager may be invested in any one security.	✓			Largest Holding: Tencent Holdings Ltd = 1.30%
A maximum of one percent (1%) of the outstanding float of shares of one company may be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. A maximum of five percent (5%) of the outstanding float of shares of one company may be held in companies with market capitalizations of less than \$5 Billion at the time of purchase.	✓			
The maximum allowable in any sector, as defined as Global Industry Classification System Level 1, is two and one-half (2.5) times the respective benchmark weighting, unless the contract with the investment manager specifically provides otherwise.	√			
A minimum number of twenty (20) securities shall be held.	√			
Meet performance of the FTSE All World Ex US Index (Net), net of fees, over a full market cycle, approximated by the most recent five-year period.			N/A	Inception Date: 02/2016
b) Northern Trust – Int'l – Passive				
A maximum of the greater of five percent (5%), or the benchmark weighting plus two percent (2%), of the total stock portfolio of a manager may be invested in any one security.	✓			Largest Holding: Tencent Holdings Ltd = 1.39%
A maximum of one percent (1%) of the outstanding float of shares of one company may be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. A maximum of five percent (5%) of the outstanding float of shares of one company may be held in companies with market capitalizations of less than \$5 Billion at the time of purchase.				
The maximum allowable in any sector, as defined as Global Industry Classification System Level 1, is two and one-half (2.5) times the respective benchmark weighting, unless the contract with the investment manager specifically provides otherwise.	✓			
A minimum number of twenty (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.	✓		1	5-year: Northern Trust gross of fees return was 6.0% vs. 5.9% for the MSCI ACW Ex US Index (Net)



	Yes	No	N/A	Explanation
c) Fisher – Int'l Active				
A maximum of the greater of five percent (5%), or the benchmark weighting plus two percent (2%), of the total stock portfolio of a manager may be invested in any one security.	✓			Largest Holding: Tencent Holdings Ltd = 4.33%
A maximum of one percent (1%) of the outstanding float of shares of one company may be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. A maximum of five percent (5%) of the outstanding float of shares of one company may be held in companies with market capitalizations of less than \$5 Billion at the time of purchase.				
The maximum allowable in any sector, as defined as Global Industry Classification System Level 1, is two and one-half (2.5) times the respective benchmark weighting, unless the contract with the investment manager specifically provides otherwise.	✓			
A minimum number of twenty (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.	✓			5-year: Fisher net of fees return was 7.1% vs. 5.9% for the MSCI ACW Ex US Index (Net)
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: Fisher ranked in the 66th percentile for International Equity
*Fisher Index consists of MSCI EAFE Index (Gross) through July 2010 and the MSCI ACW Ex US Index (Net) the	nereaft	er.		
d) Arrowstreet - Int'l Active				
A maximum of the greater of five percent (5%), or the benchmark weighting plus two percent (2%), of the total stock portfolio of a manager may be invested in any one security.	✓			Largest Holding: Samsung Electronics Co = 3.12%
A maximum of one percent (1%) of the outstanding float of shares of one company may be held in companies with market capitalizations of \$5 Billion or greater at the time of purchase. A maximum of five percent (5%) of the outstanding float of shares of one company may be held in companies with market capitalizations of less than \$5 Billion at the time of purchase.				
The maximum allowable in any sector, as defined as Global Industry Classification System Level				

1, is two and one-half (2.5) times the respective benchmark weighting, unless the contract with

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-

Outperform the MSCI ACW Ex US IM Index (Net), net of fees, over a full market cycle,

the investment manager specifically provides otherwise.

A minimum number of twenty (20) securities shall be held.

approximated by the most recent five-year period.

year period.



N/A Inception date: 03/2018

N/A Inception date: 03/2018

	Yes	No	N/A	Explanation
5. 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 11.3% vs. 10.4% for the NCREIF ODCE Index (Net) (AWA)
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 8.7% vs. 10.4% for the NCREIF ODCE Index (Net) (AWA)
Absolute Return				
c) PAAMCO				
Outperform the 90-Day T-Bills by 300 basis points, net of all fees (including underlying fund manager fees), over a full market cycle, approximated by the most recent 5-year period.		×		5-year: PAAMCO net of fees return was 3.0% vs. 0.3% for the ICE BofAML 3 Mo US T-Bill Index
Outperform the HFRI FOF Comp Index, net of all fees (including underlying fund manager fees), over a full market cycle, approximated by the most recent 5-year period.		×		5-year: PAAMCO net of fees return was 3.0% vs. 3.4% for the HFRI FOF Comp Index

	Yes	No	N/A	Explanation
6. Convertible Bond Portfolios				
a) Allianz Global Investors				
Outperform the BofA ML All Quality Convertible Bond Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.		×		5-year: Allianz Global Investors net of fees return was 8.9% vs. 9.6% for the ICE BofAML All Quality Convertible Bond Index



	Yes	No	N/A	Explanation
7. Fixed Income Portfolios				
a) C.S. McKee – Core				
Obligations not issued or guaranteed by the US government, US agencies, or US government- sponsored corporations and agencies are subject to a five percent (5%) per issuer limit excluding investments in commingled vehicles.	✓			
Non-US dollar denominated securities are permitted, but shall comprise no more than ten percent (10%) of the portfolio market value.	✓			
Private mortgage-backed and asset-backed securities are limited to ten percent (10%) of the portfolio market value.	✓			
Commercial mortgage-backed securities are permitted but shall comprise no more than ten percent (10%) of the portfolio market value.	✓			
Commercial paper of all issuers shall not exceed \$500 million.	√			
Duration must fall in the range of plus or minus twenty percent (20%) of the Bloomberg Barclays US Aggregate Bond Index.	✓			
Minimum Issue Credit Rating at the time of purchase will be: A1 or equivalent for commercial paper BBB- for Corporate Bonds BBB- for Mortgage-Backed Securities BBB- for Commercial Mortgage-Backed Securities BBB- for Asset-Backed Securities BBB- for Non-US Dollar Denominated Securities BBB- for Dollar Denominated Emerging Market Securities Average portfolio credit quality must be A- or better.	✓			
Dollar denominated emerging market securities are permitted, but shall comprise no more than ten percent (10%) of the portfolio market value.	✓			
A minimum number of 25 securities shall be held.	√			
Investments in mortgage interest only and principal only securities or their derivations are permitted, but shall comprise no more than five percent (5%) of the portfolio market value.	✓			
Private placements, including 144A securities are not permitted.	√			
Outperform its Custom Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.		×		5-year: C.S. McKee net of fees return was 1.9% vs. 1.9% for the C.S. McKee 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: C.S. McKee ranked in the 61st percentile for Core Fixed Income



	Yes	No	N/A	Explanation
b) JP Morgan – Core				
Obligations not issued or guaranteed by the US government, US agencies, or US government- sponsored corporations and agencies are subject to a five percent (5%) per issuer limit excluding investments in commingled vehicles.	✓			
Non-US dollar denominated securities are permitted, but shall comprise no more than ten percent (10%) of the portfolio market value.			N/A	
Private mortgage-backed and asset-backed securities are limited to ten percent (10%) of the portfolio market value.	✓			
Commercial mortgage-backed securities are permitted but shall comprise no more than ten percent (10%) of the portfolio market value.	✓			
Commercial paper of all issuers shall not exceed \$500 million.			N/A	
Duration must fall in the range of plus or minus twenty percent (20%) of the Bloomberg US Aggregate Bond Index.	√			
Minimum Issue Credit Rating at the time of purchase will be: A1 or equivalent for commercial paper BBB- for Corporate Bonds BBB- for Mortgage-Backed Securities BBB- for Commercial Mortgage-Backed Securities BBB- for Asset-Backed Securities BBB- for Non-US Dollar Denominated Securities BBB- for Dollar Denominated Emerging Market Securities	✓			
Average portfolio credit quality must be A- or better.	✓			
Dollar denominated emerging market securities are permitted, but shall comprise no more than ten percent (10%) of the portfolio market value.			N/A	
A minimum number of 25 securities shall be held.	✓			
Investments in mortgage interest only and principal only securities or their derivations are permitted, but shall comprise no more than five percent (5%) of the portfolio market value.	✓			
Private placements, including 144A securities are not permitted.	✓			
Outperform the Bloomberg US Aggregate Bond Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: JP Morgan net of fees return was 1.9% vs. 1.8% for the Bloomberg US Aggregate Bond 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: JP Morgan ranked in the 59th percentile for Core Fixed Income



	Yes	No	N/A	Explanation
c) PIMCO – Core				
Obligations not issued or guaranteed by the US government, US agencies, or US government- sponsored corporations and agencies are subject to a five percent (5%) per issuer limit excluding investments in commingled vehicles.	✓			
Non-US dollar denominated securities are permitted, but shall comprise no more than ten percent (10%) of the portfolio market value.	✓			
Private mortgage-backed and asset-backed securities are limited to ten percent (10%) of the portfolio market value.	✓			
Commercial mortgage-backed securities are permitted but shall comprise no more than ten percent (10%) of the portfolio market value.	✓			
Commercial paper of all issuers shall not exceed \$500 million.	√			
Duration must fall in the range of plus or minus twenty percent (20%) of the Bloomberg US Aggregate Bond Index.	✓			
Minimum Issue Credit Rating at the time of purchase will be: A1 or equivalent for commercial paper BBB- for Corporate Bonds BBB- for Mortgage-Backed Securities BBB- for Commercial Mortgage-Backed Securities BBB- for Asset-Backed Securities BBB- for Non-US Dollar Denominated Securities BBB- for Dollar Denominated Emerging Market Securities	✓			
Average portfolio credit quality must be A- or better.	✓			
Dollar denominated emerging market securities are permitted, but shall comprise no more than ten percent (10%) of the portfolio market value.	✓			
A minimum number of 25 securities shall be held.	✓			
Investments in mortgage interest only and principal only securities or their derivations are permitted, but shall comprise no more than five percent (5%) of the portfolio market value.	✓			
Private placements, including 144A securities are not permitted.	✓			
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 1.7% vs. 1.8% 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 78th percentile for Core Fixed Income



	Yes	No	N/A	Explanation
d) Neuberger Berman – Credit				
Duration must not exceed plus two (2) years of the custom index.	√			
Minimum Issue Credit Rating for commercial paper will be A1.	✓			
Average portfolio credit quality must be B or better.	✓			
Obligations of specific issuers are subject to five percent (5%) per issuer limit, excluding investments in commingled vehicles.	✓			
Standalone purchases of private placements, including 144A securities, are not allowed.	✓			
Outperform the State's custom benchmark as measured by twenty percent (20%) Bloomberg US Credit Index, twenty percent (20%) BofA Merrill Lynch US High Yield Master II Constrained Index and sixty percent (60%) S&P/LSTA Leveraged Loan Index, net of fees, over a full market cycle, approximated by the most recent 5-year period.		×		5-year: Neuberger Berman net of fees return was 3.5% vs. 3.9% for the Credit 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: Neuberger Berman ranked in the 29th percentile for US Fixed Income
Investment Grade Credit Sleeve:				
Minimum Issue Credit Rating at the time of purchase will be: BBB- for individual securities.	✓			
Minimum of ten percent (10%) of the total portfolio must be invested in investment grade rated securities and a maximum of sixty percent (60%) of the total portfolio can be invested in investment grade rated securities.	✓			
High Yield Sleeve:				
Minimum Issue Credit Rating at the time of purchase will be:				
CCC- for individual securities. Securities that are not rated shall be, in the judgement of the investment manager, of credit quality equal or superior to the standards decribed above.	✓			
Maximum of forty percent (40%) of the total portfolio can be invested in high yield bonds.	✓			
Bank Loan Sleeve:				
Minimum Issue Credit Rating at the time of purchase will be:				
CCC for individual securities. Securities that are not rated shall be, in the judgement of the investment manager, of credit quality equal or superior to the standards decribed above.	✓			
Minimum of forty percent (40%) of the total portfolio must be invested in bank loans and a maximum of eighty percent (80%) of the total portfolio can be invested in bank loans.	✓			



	Yes	No	N/A	Explanation
e) Seix - Credit				
Duration must not exceed plus two (2) years of the custom index.	√			
Minimum Issue Credit Rating for commercial paper will be A1.	✓			
Average portfolio credit quality must be B or better.	✓			
Obligations of specific issuers are subject to five percent (5%) per issuer limit, excluding investments in commingled vehicles.	✓			
Standalone purchases of private placements, including 144A securities, are not allowed.	✓			
Outperform the State's custom benchmark as measured by twenty percent (20%) Bloomberg US Credit Index, twenty percent (20%) BofA Merrill Lynch US High Yield Master II Constrained Index and sixty percent (60%) 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: 05/2013
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: 05/2013
Investment Grade Credit Sleeve:				
Minimum Issue Credit Rating at the time of purchase will be: BBB- for individual securities.	✓			
Minimum of ten percent (10%) of the total portfolio must be invested in investment grade rated securities and a maximum of sixty percent (60%) of the total portfolio can be invested in investment grade rated securities.	✓			
High Yield Sleeve:				
Minimum Issue Credit Rating at the time of purchase will be:				
CCC- for individual securities. Securities that are not rated shall be, in the judgement of the investment manager, of credit quality equal or superior to the standards decribed above.	✓			
Maximum of forty percent (40%) of the total portfolio can be invested in high yield bonds.	✓			
Bank Loan Sleeve:				
Minimum Issue Credit Rating at the time of purchase will be:				
CCC for individual securities. Securities that are not rated shall be, in the judgement of the investment manager, of credit quality equal or superior to the standards decribed above.	✓			
Minimum of forty percent (40%) of the total portfolio must be invested in bank loans and a maximum of eighty percent (80%) of the total portfolio can be invested in bank loans.	√			



	Yes	No	N/A	Explanation
f) Grosvenor Silvery Lupine Fund – Opportunistic Fixed Income				
Outperform the CS Western European Hi Yld Index, net of fees, over a full market cycle,			N/A	Inception date: 07/2014
approximated by the most recent 5-year period.			14// (inospitori dato. 07/2011
g) Investec – Emerging Market Debt (Local Currency)				
Duration must fall in the range of plus or minus twenty percent (20%) of the index.	√			
Minimum Issue Credit Rating at the time of purchase will be:				
A1 for commercial paper	1			
B- for individual securities	•			
Where a security is not rated at the issue level, the issuer rating will be relied upon.				
Average portfolio credit quality must be BB+ or better.	√			
Obligations of individual sovereign/quasi-sovereign issuer are subject to a twenty-five percent	1			
(25%) per issuer limit.				
Private placements, including 144A securities are not allowed.	✓			There are three 144A securities held by this portfolio. Retention of these securities in the portfolio is permitted pursuant to Section 7.2 of the Investment Policy.
The investment manager, as part of managing the account, can take net investment positions of up to twenty percent (20%) of the portfolio in currency and currency forwards.	✓			
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.		×		5-year: Investec net of fees return was -0.9% vs. the return of -0.7% for the JPM GBI-EM Gbl Dvf'd Index (USD) (TR) (Unhedged)
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: Investec ranked in the 87th percentile for Emerging Market Debt (Local Currency)



	Yes	No	N/A	Explanation
h) Stone Harbor – Emerging Market Debt (Local Currency)				
Duration must fall in the range of plus or minus twenty percent (20%) of the index.	1			
Minimum Issue Credit Rating at the time of purchase will be: A1 for commercial paper B- for individual securities	✓			The portfolio currently holds securities which are rated below B Retention of these securities in the portfolio is permitted pursuant to Section 7.2 of the Investment Policy.
Where a security is not rated at the issue level, the issuer rating will be relied upon.				
Average portfolio credit quality must be BB+ or better.	√			
Obligations of individual sovereign/quasi-sovereign issuer are subject to a twenty-five percent (25%) per issuer limit.	✓			
Private placements, including 144A securities are not allowed.	✓			The portfolio holds private placement and 144A securities. Retention of these securities in the portfolio is permitted pursuant to Section 7.2 of the Investment Policy.
The investment manager, as part of managing the account, can take net investment positions of up to twenty percent (20%) of the portfolio in currency and currency forwards.	✓			
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.		×		5-year: Stone Harbor net of fees return was -2.0% vs. return of -0.7% for the JPM GBI-EM GbI Dvf'd Index (USD) (TR) (Unhedged)
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: Stone Harbor ranked in the 99th percentile for Emerging Market Debt (Local Currency)
i) State Street – US TIPS – Passive				
Meet the performance of the Bloomberg US TIPS Index with minimal tracking error, gross of fees, over a full market cycle, approximated by the most recent 5-year period.	✓			5-year: State Street gross of fees return was 0.1% vs. 0.1% for the Bloomberg US TIPS Index and a tracking error of 0.3%



	Yes	No	N/A	Explanation
8. Cash and Cash Equivalents Portfolios				
JP Morgan Cash Composite*				
a) JP Morgan Treasury Cash				
Portfolio's weighted average maturity is not to exceed 90 days.	√			
Portfolio's maximum average cash flow weighted duration of the portfolio must not exceed 90 days.	✓			
The market value of the portfolio must remain within plus or minus one-half percent (0.5%) of one percent (1%) of amortized cost.	✓			
A maximum of 5% of total assets shall be placed in the securities of one issuer except for government securities.	✓			
Investment in any single issuer must not exceed 5% of the outstanding issues of that 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 Treasury Cash net of fees return was 0.3% vs. 0.3% for the ICE BofAML 3 Mo US T-Bill Index
b) JP Morgan Treasury Extended Cash				
Portfolio's average cash flow weighted duration is not to exceed 3 years.	1			
Average cash flow weighted duration is not to exceed 3 years.	✓			
Individual securities must not exceed cash flow weighted duration of greater than 5-years.	✓			
A maximum of 5% of total assets shall be placed in the 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 Treasury Extended Cash net of fees return was 0.7% vs. 0.7% for the Blended Index
The extended portfolio must not exceed 35% of the total JP Morgan managed portfolio.	✓			

^{*}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*				
c) JP Morgan Wyo-Star Cash				
Portfolio's weighted average maturity is not to exceed 90 days.	√			
Portfolio's maximum average cash flow weighted duration of the portfolio must not exceed 90 days.	✓			
The market value of the portfolio must remain within plus or minus one-half percent (0.5%) of one percent (1%) of amortized cost.	✓			
A maximum of 5% of total assets shall be placed in the 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 Wyo-Star Cash net of fees return was 0.3% vs. 0.3% for the ICE BofAML 3 Mo US T-Bill Index
d) JP Morgan Wyo-Star Extended Cash				
Portfolio's average cash flow weighted duration is not to exceed 3 years.	√			
Average cash flow weighted duration is not to exceed 3 years.	√			
Individual securities must not exceed cash flow weighted duration of greater than 5-years.	✓			
A maximum of 5% of total assets shall be placed in the 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 0.6% vs. 0.7% for the Blended Index
The extended portfolio must not exceed 35% of the total JP Morgan managed portfolio.	✓			

^{*}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

Custom Benchmark Comments

The Wyoming State Actual Allocation Index is calculated using beginning month asset class weights applied to the appropriate asset class benchmark return, using the US Equity Custom Index for US equities, MSCI ACW Index (Net) for global equities, MSCI ACW Ex US Index (Net) for international equities, Bloomberg US Aggregate Bond Index for fixed income, ICE BofA Merrill Lynch All Convertibles Index (All Qualities) for convertible bonds, NCREIF Open-End Diversified Core Equity Index (Gross) (AWA) for core real estate, NCREIF Property Index for value-added real estate, the State's actual private equity investment returns for private equity. HFRI FOF Comp Index for absolute return, and ICE BofA Merrill Lynch 90 day US T-Bill rate for cash equivalents.

Pooled Fund actual allocation indices are calculated using beginning month asset class weights applied to the appropriate asset class benchmark return, using the US Equity Custom Index for US eguities, MSCI ACW Index (Net) for global equities, MSCI ACW Ex US Index (Net) for international equities, Bloomberg US Aggregate Bond Index for fixed income, ICE BofA Merrill Lynch All Convertibles Index (All Qualities) for convertible bonds, NCREIF Open-End Diversified Core Equity Index for core real estate, NCREIF Property Index for value-added real estate, the State's actual private equity investment returns for private equity, HFRI FOF Comp Index for absolute return, and the State Agency Pool Custom Index for the State Agency Pool allocation.

The Total Equity Custom Index consists of the MSCI World Index (USD) (Net) through July 2010 and the MSCI All Country World Index (USD) (Net) thereafter.

The US Equity Custom Index consists of the S&P 500 Index (Cap Wtd) through September 2014 and the Russell 3000 Index thereafter.

The State Street All Cap Custom Index consists of 69% Russell 3000 Index, 24% FTSE RAFI US 1000 Index and 7% MSCI USA Minimum Volatility Index (Net).

The International Equity Custom Index and the Fisher Custom Benchmark both consist of MSCI EAFE Index (Gross) through July 2010 and the MSCI ACW Ex US Index (Net) thereafter.

The Credit Custom Index consists of 20% Bloomberg US Credit Index, 20% ICE BofA Merrill Lynch US High Yield Master II Constrained Index, and 60% S&P/LSTA Leveraged Loan Index.

The Internal Fixed Income Portfolio Custom Index consists of the Bloomberg US Gov't: Int. Term Bond Index; prior to December 2009 the index consists of the Bloomberg US Gov't/Credit Bond Index.

The C.S. McKee Custom Index consists of the Bloomberg US Agg Bond Index through January 2018 and the Bloomberg US Agg Int Index thereafter.

The PIMCO Custom Index consists of the Bloomberg US Agg Bond Index through February 2018 and the Bloomberg US Agg Int Index thereafter.

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

The JP Morgan 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 JP Morgan Cash is the ICE BofAML 3 ML US T-Bill Index and for JP Morgan Extd is the JP Morgan Blended Index.

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 ML 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 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.



Wyoming State Treasurer's Office As of March 31, 2018
Addendum

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 value-added 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 value-added 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 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 quarter of 2018, Arrowstreet was reclassified as International Equity.



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 U.S. Fixed Income (SA+CF): The U.S. Fixed Income universe includes all U.S. fixed income products.
- **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.



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	Credit Qua	lity - Investment Grade	Lower	Credit Quali	ity – 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, 3rd quartile, and 4th quartile). The median observation is where the 2nd quartile and 3rd 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.

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, names that make up the subsequent 1/3 of the total market capitalization are assigned to the names are assigned to the value category.

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.

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.

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

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, but focuses only on the negative movements of the return series. It is calculated by taking the standard deviation of the negative monthly returns. 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 returns compiled from consultant and custodial 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. Plan Sponsor Peer Groups are gross of fees.

Institutional Peer Groups (Separate Account and Commingled Fund) - RVK utilizes the Investment Metrics Separate Account and Commingled Fund Manager Peer Groups for peer comparison and rankings. The Separate Account and Commingled Fund Peer Group database includes performance and other quantitative data for over 1,000 investment management firms, 6,400 investment products, across 100 standard peer groups. Separate Account and Commingled Fund Peer Groups are gross of fees.

Mutual Fund (MF) Peer Groups - RVK utilizes the Lipper Mutual Fund Manager Peer Groups for peer comparison and rankings. The Lipper Manager Peer Group database includes performance and other quantitative data for over 700 investment management firms and 24,500 investment products, across more than 140 standard peer groups. Mutual Fund Peer Groups are net of fees.

For more information on Peer Groups, visit https://www.invmetrics.com/style-peer-groups.

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 of a company's share price to its per-share earnings

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.

Return - Compounded rate of return for the period.

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

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.

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	Bank Loans	50
TIPS	95	Stable Value (Plan Sponsor Directed)	50
US Large Cap Equity	95	Absolute Return Strategies	35
Diversified Real Return	93	· ·	
Stable Value (Participant Directed)	91		
Non-US Large Cap Equity	90	Not Liquid Investments	
Global Tactical Asset Allocation	88	Core Real Estate	25
US Small Cap Equity	85	Core Plus Real Estate	15
REITS	85	Non-Core Real Estate	5
Non-US Small Cap Equity	85	Private Equity Funds of Funds	5
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.

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

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>
Absolute Return Strategies
Currency Overlay

Capital Appreciation
Public Equity
Private Equity
Preferred Securities
High Yield
Convertible Fixed Income
TALF Funds
Distressed Debt
Emerging Market Fixed Incor
Value Added Real Estate
Opportunistic Real Estate

Capital Preservation	<u>Inflation</u>
Core Fixed Income	TIPS
CMBS Fixed Income	Bank Loans
Asset Backed Fixed Income	Core Real Estate
Domestic Core Plus Fixed Income	Real Return
Mortgage Backed Fixed Income	Inflation Hedges
International Developed Fixed Income	REITS
Cash Equivalents	Commodities
Stable Value	

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 portfolios 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.



PORTLAND CHICAGO

NEW YORK

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