# Monthly Investment Performance Analysis Wyoming State Treasurer's Office

Period Ended: January 31, 2022



**Annual Asset Class Performance** 

										Sha	rpe Ratio		Annualized Statis	tics (01/2	2006 - 01/20	)22)
	2014	2015	2016	2017	2018	2019	2020	2021	CYTD (As of 1/22)	Asset Class	Historical 10 Years Sharpe Ratio	Forecasted Sharpe Ratio		Return	Standard Deviation	Sharpe Ratio
Best	14.07	15.02	21.95	27.19	10.37	31.49	21.73	39.33	10.41	S&P 500 Index - US Large Cap	1.11	0.19	S&P 500 Index - US Large Cap	10.55	14.91	0.67
1	13.69	5.92	21.31	21.83	8.35	25.53	19.96	31.80	0.14	Russell 2000 Index - US Small Cap	0.65	0.16	Russell 2000 Index - US Small Cap	8.54	19.96	0.45
	12.50	5.47	13.21	18.03	1.87	21.51	18.40	28.71	0.00	International Equity Custom Index - International	0.46	0.28	International Equity Custom Index - International	4.27	17.00	0.27
	11.38	1.38	11.96	15.21	0.44	17.64	10.88	22.17	0.00	Cambridge US PE Index - Private Equity	1.45	0.24	Cambridge US PE Index - Private Equity	13.79	10.98	1.13
	7.66	0.55	10.16	14.65	0.01	13.96	10.65	14.82	0.00	NCREIF ODCE Index - Real Estate	1.84	Core 0.30 / Non-Core 0.26	NCREIF ODCE Index - Real Estate	7.31	7.82	0.80
	5.97	0.18	9.94	9.11	-4.02	13.47	7.97	7.82	-1.51	HFRI FOF Comp Index	0.70	0.33	HFRI FOF Comp Index	3.02	5.54	0.35
	4.89	-0.27	8.77	7.77	-4.25	8.72	7.51	6.08	-2.15	Preferred Stock Custom Index	0.81	0.25	Preferred Stock Custom Index	5.35	15.99	0.34
	3.37	-0.69	4.50	7.62		8.64	3.12	5.71	-2.15	MLP Custom Index	0.18	0.21	MLP Custom Index	6.71	24.58	0.35
	1.60	-4.41	2.65	4.12	-6.21	8.39	1.50	4.66	-2.78	Bloomberg US Agg Bond Index - Fixed Income	0.65	0.18	Bloomberg US Agg Bond Index - Fixed Income	3.94	3.23	0.86
	0.18	-5.66	1.94	3.54	-11.01	7.55	1.19	0.05	-3.69	Bank Loans Custom Index	0.74	0.40	Bank Loans Custom Index	4.61	7.46	0.48
Ļ	-3.87	-14.92	0.51	0.84	-11.67	5.34	0.67		-5.17	EMD Custom Index	0.03	0.36	EMD Custom Index	4.36	12.08	0.32
Worst	-5.72	-35.07	0.38	-5.58	-14.20	2.47	-25.60	-3.26	-9.63	JP Morgan Cash Custom Index - Cash Equiv	0.71	0.00	JP Morgan Cash Custom Index - Cash Equiv	1.41	0.53	1.16

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

The Preferred Stock Custom Index consists of S&P U.S. Preferred Stock Index through 06/30/2021, and 60% ICE BofAML US IG Inst Capital Securities Index, 20% ICE BofAML Core Fixed Rate

Preferred Securities Index, and 20% Bloomberg Barclays Developed Market USD Contingent Capital Index thereafter.

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

The Bank Loans Custom Index consists of S&P LSTA Lvgd Loan Index through 06/30/2021, and the S&P LSTA US Lvgd Loan 100 Index thereafter.

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

and 1/3 JPM GBI-EM GbI Dvf'd Index, 1/3 JPM CEMBI Brd Dvf'd Index, and 1/3 JPM EMBI GbI Dvf'd Index thereafter.

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

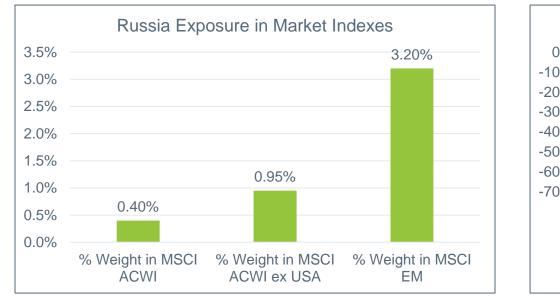
The primary benchmark for JP Morgan Cash is the ICE BofAML 3 Mo US T-Bill Index and for JP Morgan Extd is the JP Morgan Blended Index through 06/30/2019,

and the ICE BofAML 3 Mo US T-Bill Index thereafter.



# **Direct Market Impact**

- The size of the Russian economy and market capitalization, relative to the global market and emerging markets region, has declined over the past decade.
- According to the World Bank, Russia generated 1.7% of global GDP in 2020 while Ukraine generated 0.2%. Additionally, the IMF projected that 2022 GDP growth for Russia would be roughly half (2.8%) the level forecasted for global GDP growth (5.9%) prior to this conflict.
- Although Russia and Ukraine's respective sizes as constituents in traditional market indices and total percentage of contribution to global GDP is limited, the disruption of economic activity in both regions is likely to have a significant impact on specific markets.
- The below charts illustrate the exposure to Russia within major market indexes and equity market returns thus far in 2022.







# **Spillover Effects**

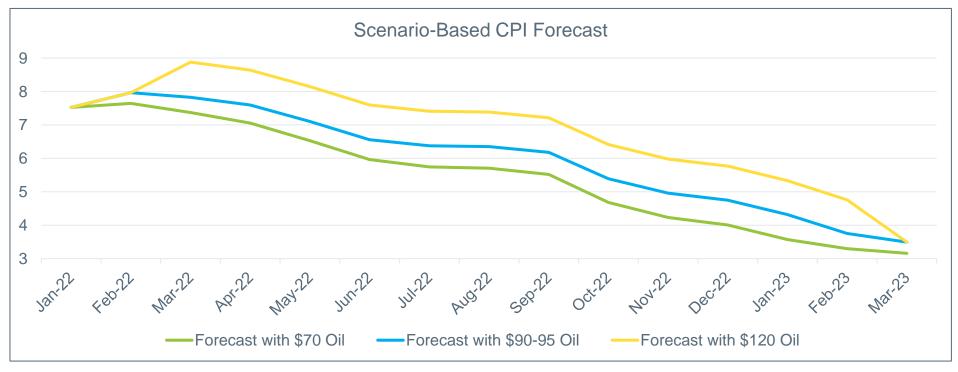
- As shown on the previous slide and in the chart on the bottom left, the share of Russian securities in traditional equity and debt markets is relatively limited.
- However, the Russian and Ukrainian prominence as exporters of commodity goods, such as energy and wheat, are likely to materially impact the prices of these commodities over the course of the conflict, particularly across Europe, and to drive elevated price-based volatility.
- Russia's competitive advantages in niche commodity markets such as palladium and neon also has the potential to disrupt supply chains and further exacerbate production delays for several widely used manufactured goods, such as catalytic converters and semiconductors.
- The incremental contribution of the conflict to global inflationary pressures, coupled with an expected negative impact on global growth, may place central banks in a difficult position, as policymakers face a deterioration of factors on both sides of the traditional central banking mandate to jointly manage inflation and economic growth.





# **Inflationary Environment**

- The broadest impact that this crisis has on global inflation is on energy prices (oil, natural gas) with a narrower impact on certain commodities in the agriculture and metals markets.
- European energy costs already increased 27% in the twelve months ended January 2021, according to Eurostat, and futures prices are moving sharply higher in the wake of this escalation and related sanctions.
- As this conflict progresses, the associated economic pressures could pass through to an extended period of higher prices, as shown in the following the chart, and impact consumer behavior and economic growth as a result.





# **Evaluation of Past Market Reactions**

- The ultimate impact and market reaction of this conflict is ongoing and cannot be predicted.
- As with any point in market history, a single variable will not be the sole driver of market results as investors will continue to grapple with other issues, including inflationary pressures, global supply chain disruption and central bank behavior being key considerations.
- However, there are past instances of international conflict that point to continued volatility in the near-term (as displayed in the following table).

Event	Fed Policy		S&P 500		European/UK Equities*		
	Stance	Next Day	30-Day	To Worst	Next Day	30-day	To Worst
Downing of MH17 (2014)	Steady	-0.2	-1.3	-3.6	-1.2	-5.3	-2.1
Crimea Conflict (2014)	Steady	0.8	0.7	N/A	0.0	0.8	-4.6
US Invasion of Iraq (2003)	Easing	2.5	2.2	-3.0	2.8	6.3	-6.9
September 11 Attacks (2001)	Easing	N/A	0.4	-11.6	-5.2	2.0	-16.4
Kosovo War (1999)	Tightening	2.2	7.5	N/A	0.2	4.0	-1.4
Iraq Invasion of Kuwait (1990)	Easing	-3.0	-9.3	-16.9	-3.2	-13.2	-26.2
Iran-Iraq War (1980)	Tightening	0.1	2.1	-4.4	N/A	3.2	N/A
Arab Oil Embargo (1973)	Tightening	-0.2	-5.7	-16.4	N/A	3.3	-9.8
Cuban Missile Crisis (1962)	Tightening	-3.8	9.4	-3.8	N/A	1.6	N/A
Pearl Harbor Attack (1941)	N/A	-3.8	-2.9	-10.2	N/A	-1.2	-1.2
German Invasion of Poland (1939)	N/A	1.1	14.4	N/A	N/A	-5.2	-5.2

# Equity Market Reaction to Select Geopolitical Events (%)

Source: Goldman Sachs provided table using Investment Strategy Group, Council on Foreign Relations, Bloomberg, Datastream, Global Financial Data.

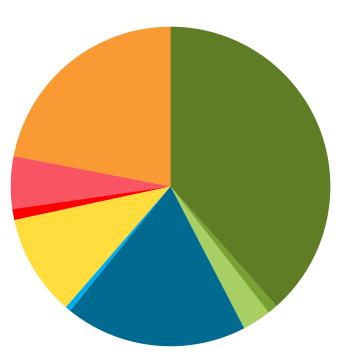


# **Client Portfolio Considerations**

- To summarize current market conditions, there have been elevated levels of volatility and general decline in valuation across many risk assets so far in 2022 driven by inflationary concerns, anticipated adjustments in central bank policies in addition to the heightened geopolitical tensions.
- It is very difficult to anticipate precisely how these events will unfold, how other market participants might react to them, and what that will mean for price movements over the near-term.
- Investors should seek to remain informed and focus on which long-term trends or forecasts could be impacted by this conflict and how it could shift their strategic asset allocation, if at all.
- RVK continues to believe that investors are best served by a consistent, disciplined application of an appropriate strategic asset allocation strategy, reflective of the fund's purpose and circumstances.
- In these situations, RVK consistently monitors market movements for rebalancing opportunities, which serve to mitigate risk and add to long-term returns.



# January 31, 2022 : \$24,950,212,356

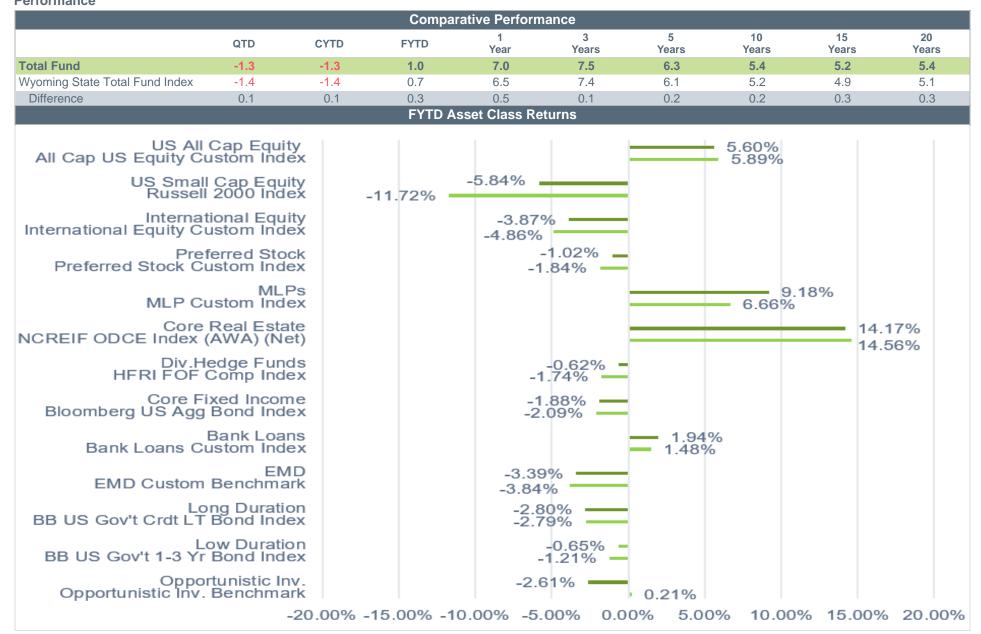


	Market Value (\$)	Allocation (%)
Permanent Mineral Trust	9,595,733,167	38.46
Permanent Land Fund	246,641,114	0.99
University Permanent Land Fund	28,608,121	0.11
Hathaway Scholarship	702,305,407	2.81
Common School PLF	4,595,940,131	18.42
Higher Education	141,570,022	0.57
Workers Compensation Fund	2,559,444,271	10.26
Pool A	275,387,147	1.10
LSRA	1,327,884,682	5.32
State Agency Pool	5,476,698,294	21.95

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

#### Wyoming State Treasurer's Office Total Fund Performance



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# Wyoming State Treasurer's Office Permanent Funds

		С	omparative F	Performance	•				
	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years
Permanent Mineral Trust	-1.6	-1.6	1.7	10.9	10.1	8.1	7.0	5.9	6.5
PMTF - Total Fund Index	-1.7	-1.7	1.3	10.3	9.8	7.9	6.8	5.5	5.9
Difference	0.1	0.1	0.4	0.6	0.3	0.2	0.2	0.4	0.6
70% MSCI ACW/30% B US Agg	-4.1	-4.1	-0.3	8.2	12.1	10.0	8.4	6.1	7.0
Permanent Land Fund	-1.6	-1.6	1.9	10.8	10.1	8.0	6.9	5.8	N/A
PLF - Total Fund Index	-1.7	-1.7	1.3	10.3	9.8	7.9	6.7	5.4	N/A
Difference	0.1	0.1	0.6	0.5	0.3	0.1	0.2	0.4	N/A
University PLF	-1.8	-1.8	2.3	11.2	10.3	8.4	7.2	5.9	N/A
University PLF - Total Fund Index	-1.7	-1.7	1.3	10.3	9.8	8.2	7.0	5.6	N/A
Difference	-0.1	-0.1	1.0	0.9	0.5	0.2	0.2	0.3	N/A
Hathaway Scholarship	-1.6	-1.6	2.3	11.5	10.2	7.9	6.5	N/A	N/A
Hathaway - Total Fund Index	-1.7	-1.7	1.3	10.3	9.8	7.7	6.4	N/A	N/A
Difference	0.1	0.1	1.0	1.2	0.4	0.2	0.1	N/A	N/A
Common School PLF	-1.1	-1.1	1.7	7.9	8.1	6.9	6.4	5.7	6.4
Common School - Total Fund Index	-1.1	-1.1	1.5	7.4	7.6	6.6	6.2	5.1	5.6
Difference	0.0	0.0	0.2	0.5	0.5	0.3	0.2	0.6	0.8
Higher Education	-1.1	-1.1	1.6	7.8	7.8	6.4	5.8	N/A	N/A
Higher Education - Total Fund Index	-1.1	-1.1	1.5	7.4	7.6	6.3	5.7	N/A	N/A
Difference	0.0	0.0	0.1	0.4	0.2	0.1	0.1	N/A	N/A
Workers Compensation Fund	-2.2	-2.2	0.0	4.5	8.9	7.1	5.6	5.8	5.8
Workers Comp - Total Fund Index	-2.2	-2.2	-0.3	3.5	8.3	6.6	5.4	5.6	5.4
Difference	0.0	0.0	0.3	1.0	0.6	0.5	0.2	0.2	0.4

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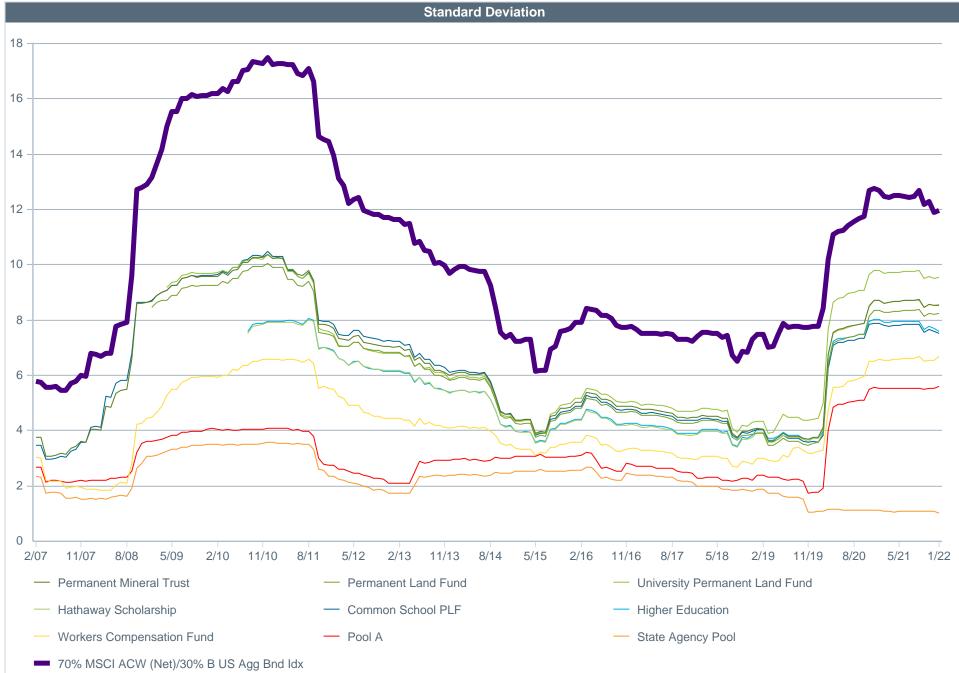
### Wyoming State Treasurer's Office Non-Permanent Funds Performance

		Com	parative Per	formance					
	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years
LSRA Total Fund	-1.3	-1.3	-0.5	3.1	N/A	N/A	N/A	N/A	N/A
LSRA - Total Fund Index	-1.4	-1.4	-1.0	2.6	N/A	N/A	N/A	N/A	N/A
Difference	0.1	0.1	0.5	0.5	N/A	N/A	N/A	N/A	N/A
LSRA Long Term Reserve	-2.2	-2.2	0.7	13.1	N/A	N/A	N/A	N/A	N/A
LSRA LT Reserve - Total Fund Index	-2.0	-2.0	0.0	12.5	N/A	N/A	N/A	N/A	N/A
Difference	-0.2	-0.2	0.7	0.6	N/A	N/A	N/A	N/A	N/A
LSRA Int Term Reserve	-1.9	-1.9	-2.0	-2.9	N/A	N/A	N/A	N/A	N/A
LSRA IT Reserve - Total Fund Index	-2.2	-2.2	-2.1	-3.0	N/A	N/A	N/A	N/A	N/A
Difference	0.3	0.3	0.1	0.1	N/A	N/A	N/A	N/A	N/A
LSRA Short Term Reserve	-0.5	-0.5	-0.7	-0.6	N/A	N/A	N/A	N/A	N/A
LSRA ST Reserve - Total Fund Index	-0.7	-0.7	-1.2	-1.3	N/A	N/A	N/A	N/A	N/A
Difference	0.2	0.2	0.5	0.7	N/A	N/A	N/A	N/A	N/A
Pool A	-1.3	-1.3	0.7	5.3	6.9	5.2	3.8	4.8	4.4
Pool A - Total Fund Index	-1.3	-1.3	0.7	4.9	6.3	4.6	3.4	4.5	4.6
Difference	0.0	0.0	0.0	0.4	0.6	0.6	0.4	0.3	-0.2
State Agency Pool	-0.6	-0.6	-0.9	-1.0	1.8	2.1	2.0	3.3	3.5
State Agency Pool - AA Index	-0.6	-0.6	-0.9	-1.0	1.9	1.9	1.9	3.2	3.4
Difference	0.0	0.0	0.0	0.0	-0.1	0.2	0.1	0.1	0.1

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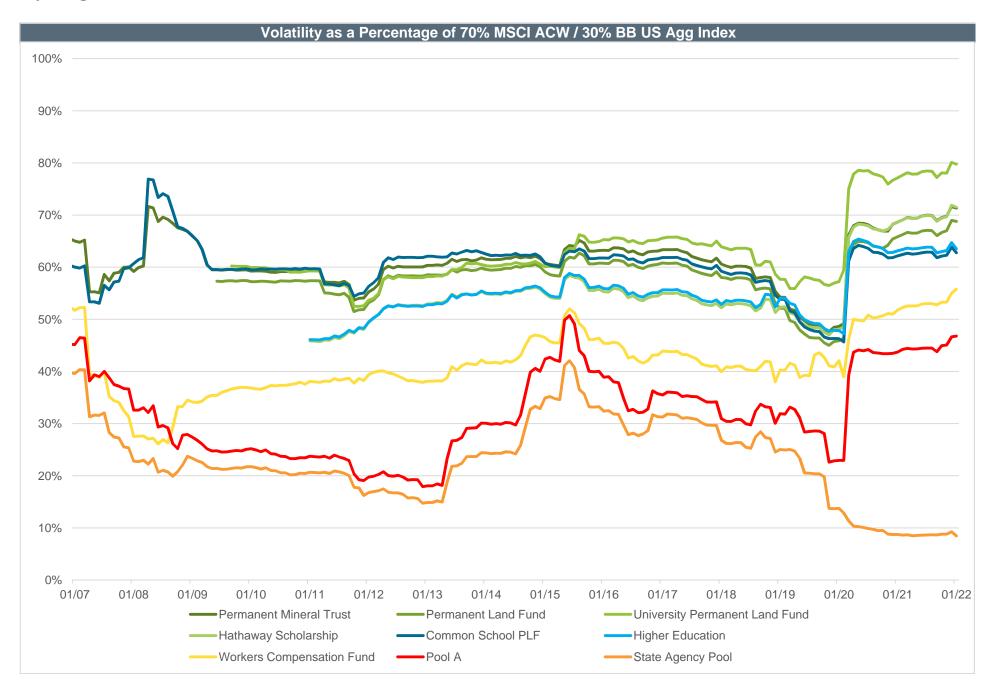






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# Wyoming State Treasurer's Office

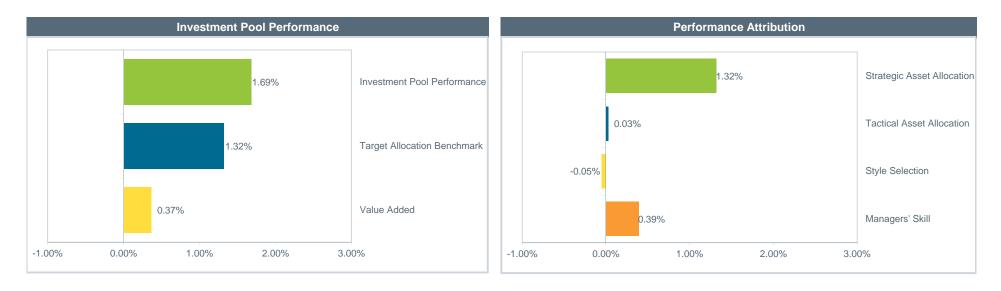
# 3 Year Rolling as of January 31, 2022

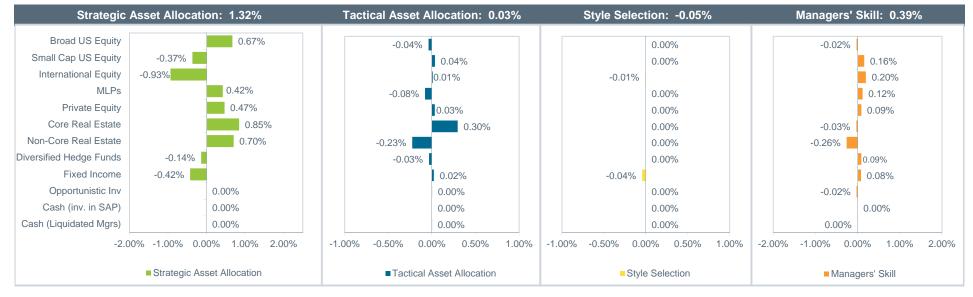


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#### Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Permanent Mineral Trust Fund vs. Target Allocation Index FYTD Ending January 31, 2022





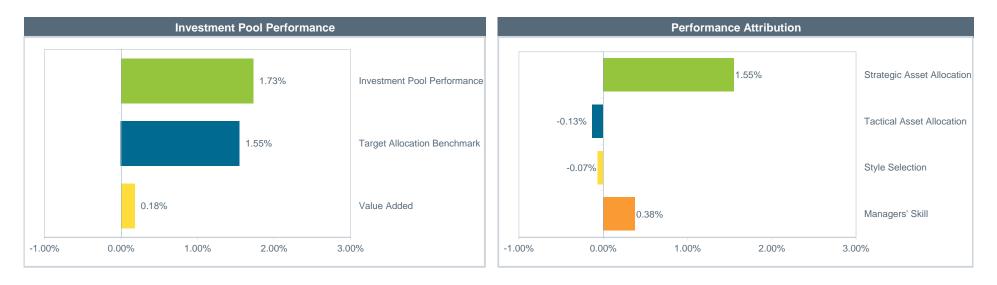
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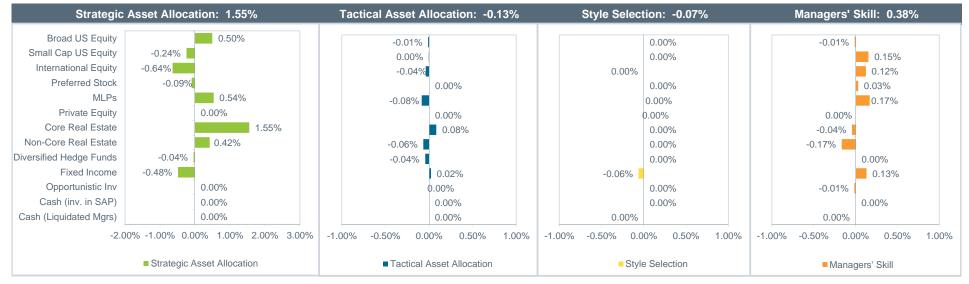
The benchmark utilized in this analysis is a passive target allocation index rather than an active actual allocation index.

Actual Allocation Index = Target Allocation Benchmark + Tactical Asset Allocation. The underlying parts may not exactly sum to the category totals due to rounding. FY begins 7/1/2021.



#### Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Common School Permanent Land Fund vs. Target Allocation Index FYTD Ending January 31, 2022

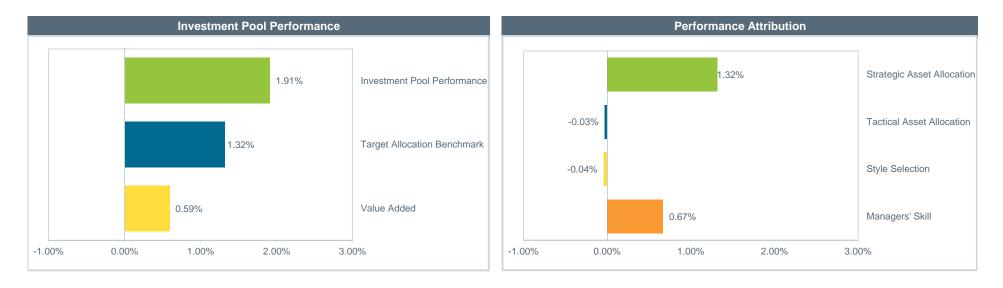


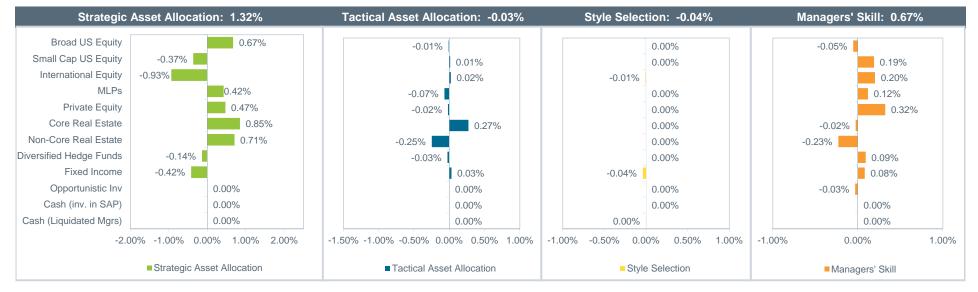


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#### Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Permanent Land Fund vs. Target Allocation Index FYTD Ending January 31, 2022





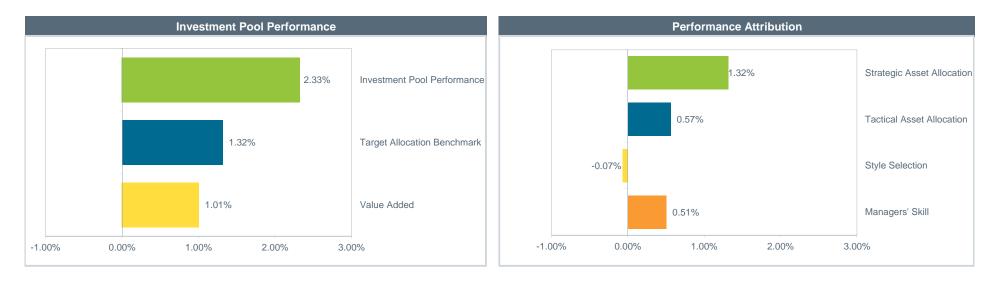
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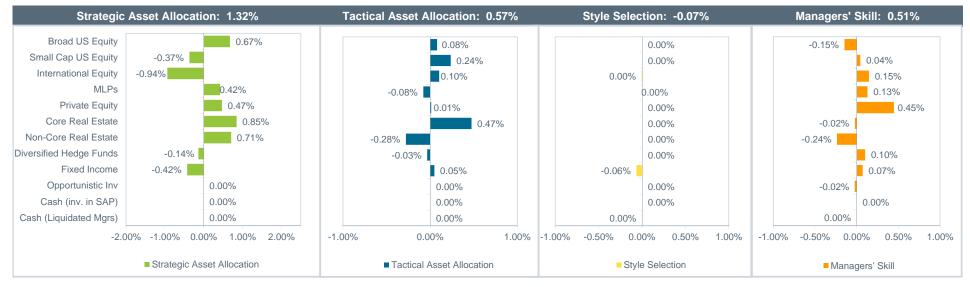
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#### Wyoming State Treasurer's Office Pool Attribution - IDP Methodology University Permanent Land Fund vs. Target Allocation Index FYTD Ending January 31, 2022



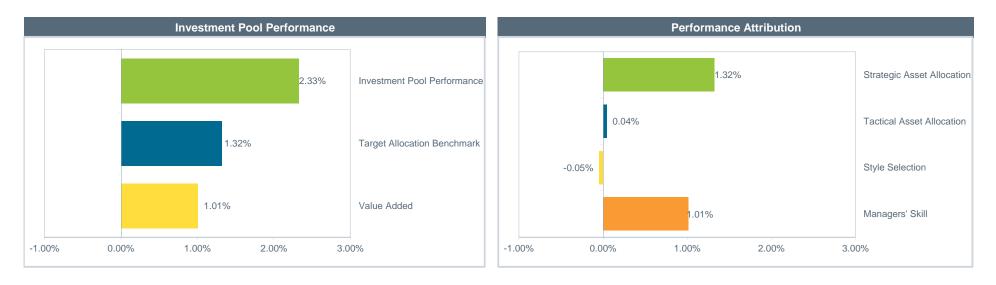


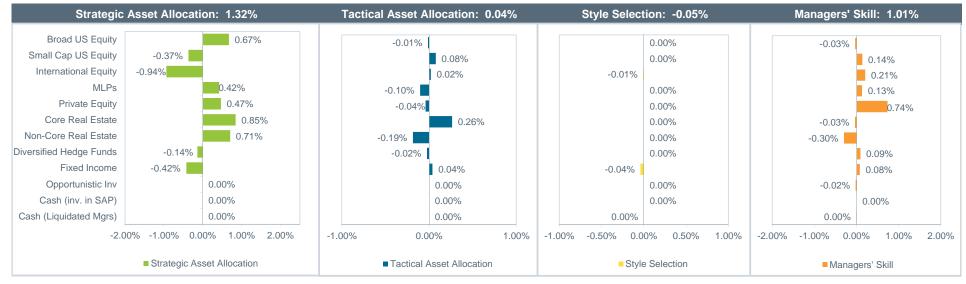
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#### Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Hathaway Scholarship Endowment Fund vs. Target Allocation Index FYTD Ending January 31, 2022

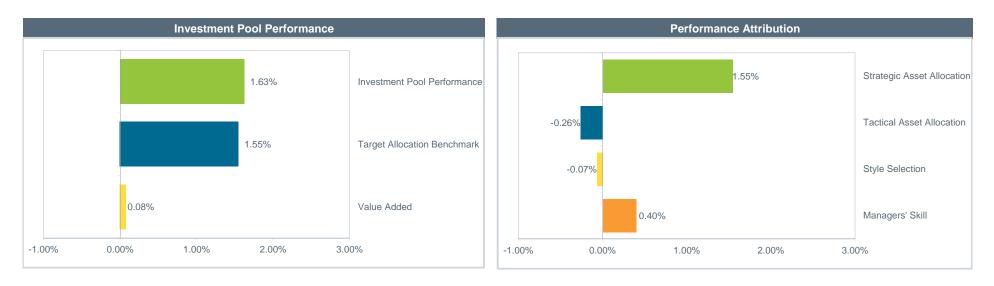


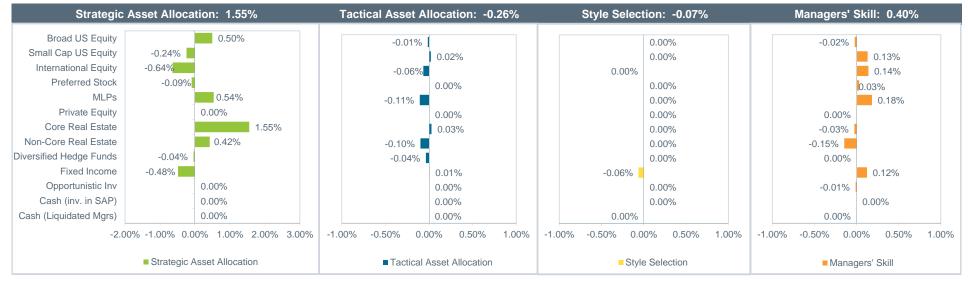


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#### Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Higher Education Endowment Fund vs. Target Allocation Index FYTD Ending January 31, 2022



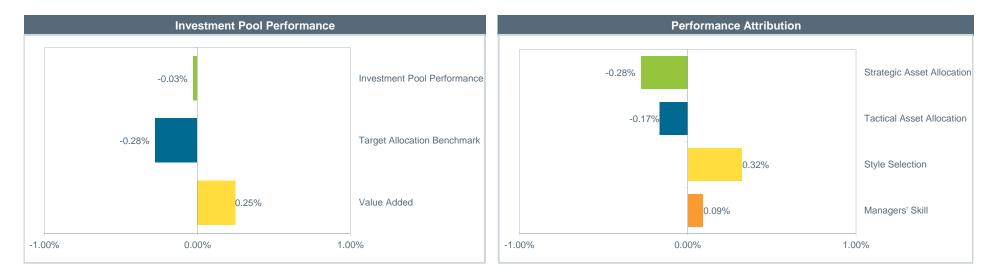


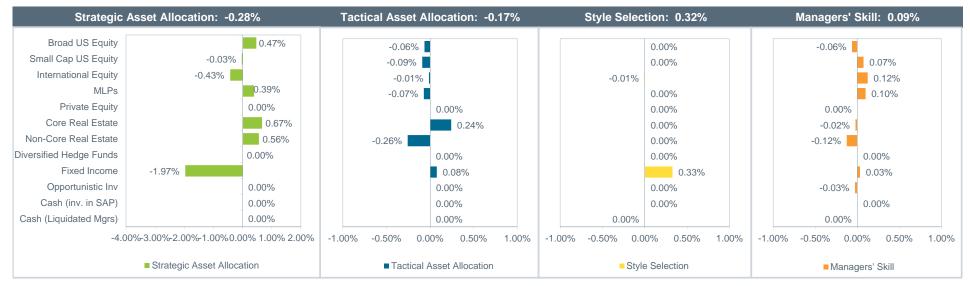
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#### Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Workers Compensation Fund vs. Target Allocation Index FYTD Ending January 31, 2022

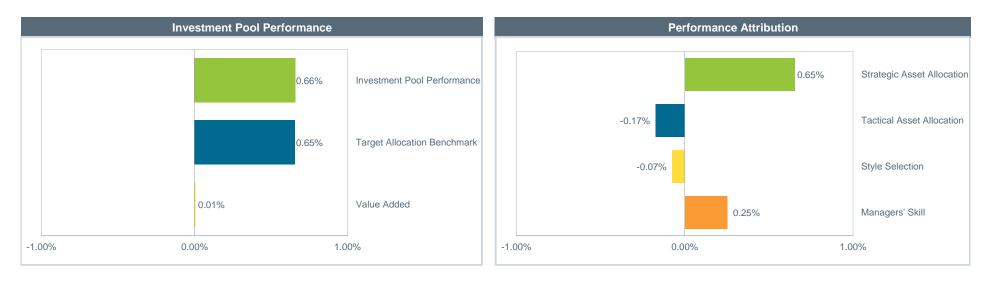


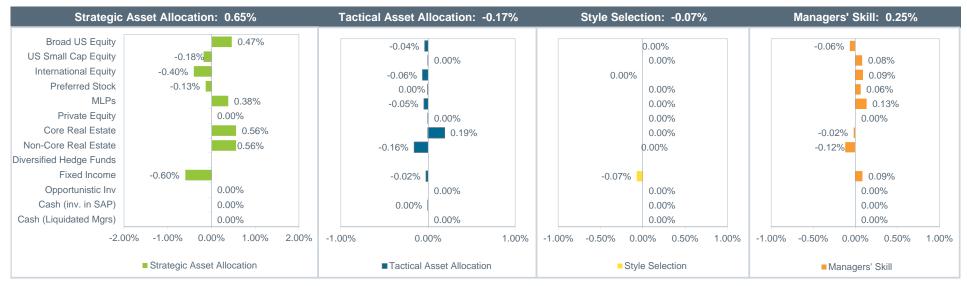


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Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Pool A vs. Target Allocation Index FYTD Ending January 31, 2022



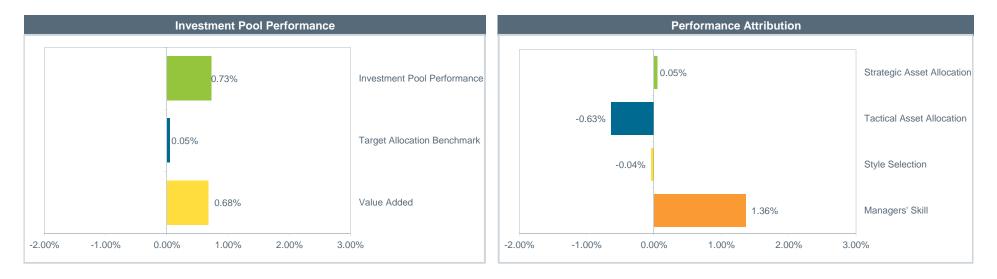


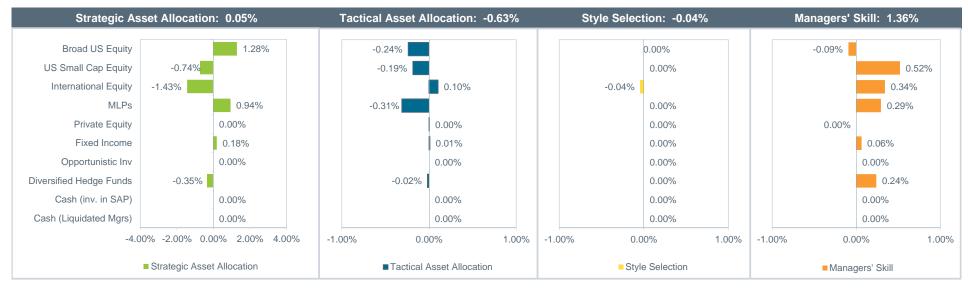
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#### Wyoming State Treasurer's Office Pool Attribution - IDP Methodology LSRA LT Reserve vs. Target Allocation Index FYTD Ending January 31, 2022





Attribution shown is calculated using the Investment Decision Process (IDP) method. Performance shown is net of fees. Calculation is based on monthly periodicity. The benchmark utilized in this analysis is a passive target allocation index rather than an active actual allocation index. Actual Allocation Index = Target Allocation Benchmark + Tactical Asset Allocation. The underlying parts may not exactly sum to the category totals due to rounding. FY begins 7/1/2021.



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## Wyoming State Treasurer's Office Permanent Funds - Total Return Focus Asset Allocation vs. Target

			P	ermanent	Mineral Tr	Trust Ex PPI	
	Allocation (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)	Broad US Equity – -1.6 %	
Permanent Mineral Trust Ex. PPI	9,470,457	100.0	-	100.0	-	Small Cap US Equity – -0.5 %	
Broad US Equity	955,308	10.1	5.9	11.7	17.6	International Equity – -2.5 %	
Small Cap US Equity	232,801	2.5	1.5	3.0	4.5	MLPs0.1 %	
International Equity	1,594,178	16.8	9.7	19.3	29.0	Private Equity – 1.6%	
MLPs	510,156	5.4	2.8	5.5	8.3	Core Real Estate – 2.4%	
Private Equity	908,021	9.6	4.0	8.0	12.0	Diversified Hedge Funds –	
Core Real Estate	794,725	8.4	3.0	6.0	9.0	Core Fixed Income – -1.9 %	
Non-Core Real Estate	364,848	3.9	2.5	5.0	7.5	Bank Loans – -0.5 %	
Diversified Hedge Funds	818,684	8.6	3.8	7.5	11.3	Opportunistic Fixed Income –	
Core Fixed Income	1,460,708	15.4	8.7	17.3	26.0	EMD0.4 %	
Bank Loans	677,941	7.2	3.9	7.7	11.6	Transition Low Duration – -0.2 %	
Opportunistic Fixed Income	10,730	0.1	0.0	0.0	5.0	Opportunistic Investments – 0.7%	
EMD	433,467	4.6	2.5	5.0	7.5	Cash (Liquidated Managers) –	
Transition Low Duration	357,418	3.8	0.0	4.0	6.0	Cash (inv. in SAP) – 3.0%	
Opportunistic Investments	69,536	0.7	0.0	0.0	5.0		200/
Cash (Liquidated Managers)	324	0.0	0.0	0.0	0.0	-6.0 % -3.0 % 0.0% 3.0% 6	5.0%
Cash (inv. in SAP)	281,612	3.0	0.0	0.0	5.0	Allocation Differences	

				Perm	nanent Land	d Fund
	Allocation (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)	Broad US Equity1.7 %
Permanent Land Fund	246,641	100.0	-	100.0	-	Small Cap US Equity – -0.4 %
Broad US Equity	24,656	10.0	5.9	11.7	17.6	International Equity – -2.6 %
Small Cap US Equity	6,347	2.6	1.5	3.0	4.5	MLPs0.1 %
International Equity	41,231	16.7	9.7	19.3	29.0	Private Equity – 3.1%
MLPs	13,314	5.4	2.8	5.5	8.3	Core Real Estate – 2.3%
Private Equity	27,392	11.1	4.0	8.0	12.0	Non-Core Real Estate – -1.4 %
Core Real Estate	20,358	8.3	3.0	6.0	9.0	Diversified Hedge Funds – Core Fixed Income – -2.1 %
Non-Core Real Estate	8,929	3.6	2.5	5.0	7.5	Bank Loans – -0.5 %
Diversified Hedge Funds	21,336	8.7	3.8	7.5	11.3	Opportunistic Fixed Income – 0.1%
Core Fixed Income	37,559	15.2	8.7	17.3	26.0	EMD0.5 %
Bank Loans	17,830	7.2	3.9	7.7	11.6	Transition Low Duration – -0.2 %
Opportunistic Fixed Income	201	0.1	0.0	0.0	5.0	Opportunistic Investments –
EMD	11,031	4.5	2.5	5.0	7.5	Cash (Liquidated Managers) –
Transition Low Duration	9,404	3.8	0.0	4.0	6.0	Cash (inv. in SAP) –
Opportunistic Investments	2,346	1.0	0.0	0.0	5.0	
Cash (Liquidated Managers)	7	0.0	0.0	0.0	0.0	-6.0 % -3.0 % 0.0% 3.0% 6.0%
Cash (inv. in SAP)	4,699	1.9	0.0	0.0	5.0	Allocation Differences

Allocations shown may not sum up to 100% exactly due to rounding. Market value shown for PMTF excludes Public Purpose Investments (PPIs). Asset class targets shown represent 12/1/2021 interim targets. Pool allocations shown are based on 12/31/2021 allocations.



## Wyoming State Treasurer's Office Permanent Funds - Total Return Focus Asset Allocation vs. Target

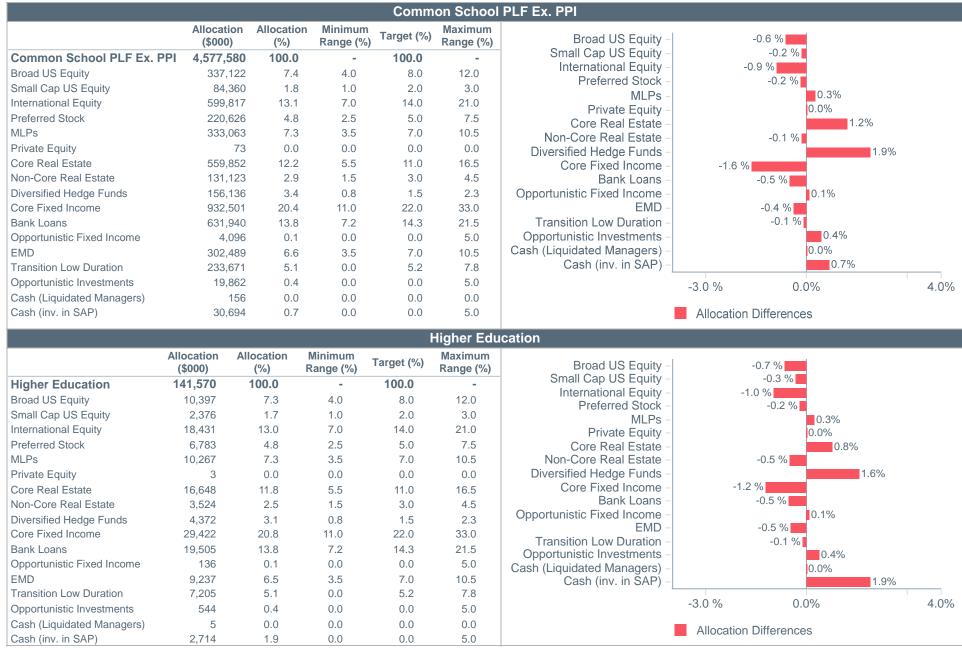
				Universit	y Permane	ent Land Fund	
	Allocation (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)	Broad US Equity – 1.7%	
University Permanent Land Fund	28,608	100.0	-	100.0	-	Small Cap US Equity – -1.9 %	
Broad US Equity	3,836	13.4	5.9	11.7	17.6	International Equity – -4.2 %	
Small Cap US Equity	327	1.1	1.5	3.0	4.5	MLPs0.3 %	
International Equity	4,329	15.1	9.7	19.3	29.0	Private Equity – 2.2%	
MLPs	1,500	5.2	2.8	5.5	8.3	Core Real Estate – 3.8%	
Private Equity	2,928	10.2	4.0	8.0	12.0	Non-Core Real Estate – -1.9 %	
Core Real Estate	2,807	9.8	3.0	6.0	9.0	Diversified Hedge Funds – Core Fixed Income – -2.0 %	
Non-Core Real Estate	893	3.1	2.5	5.0	7.5	Bank Loans – -2.0 %	
Diversified Hedge Funds	2,603	9.1	3.8	7.5	11.3	Opportunistic Fixed Income – 0.1%	
Core Fixed Income	4,387	15.3	8.7	17.3	26.0	EMD0.6 %	
Bank Loans	1,702	5.9	3.9	7.7	11.6	Transition Low Duration – -0.3 %	
Opportunistic Fixed Income	22	0.1	0.0	0.0	5.0	Opportunistic Investments – 0.7%	
EMD	1,248	4.4	2.5	5.0	7.5	Cash (Liguidated Managers) –	
Transition Low Duration	1,054	3.7	0.0	4.0	6.0	Cash (inv. in SAP) –	
Opportunistic Investments	203	0.7	0.0	0.0	5.0		
Cash (Liquidated Managers)	1	0.0	0.0	0.0	0.0	-8.0 % 0.0% 10.0	1%
Cash (inv. in SAP)	768	2.7	0.0	0.0	5.0	Allocation Differences	

				Hat	thaway Sch	nolarship	
	Allocation (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)	Broad US Equity – -1.8 %	
Hathaway Scholarship	702,305	100.0	-	100.0	-	Small Cap US Equity0.8 %	
Broad US Equity	69,778	9.9	5.9	11.7	17.6	International Equity – -2.7 %	
Small Cap US Equity	15,295	2.2	1.5	3.0	4.5	MLPs0.2 %	
International Equity	116,364	16.6	9.7	19.3	29.0	Private Equity – 4.4% Core Real Estate – 2.1%	
MLPs	37,384	5.3	2.8	5.5	8.3	Non-Core Real Estate – -0.7 %	
Private Equity	87,042	12.4	4.0	8.0	12.0	Diversified Hedge Funds –	
Core Real Estate	57,213	8.1	3.0	6.0	9.0	Core Fixed Income – -2.4 %	
Non-Core Real Estate	30,547	4.3	2.5	5.0	7.5	Bank Loans – -0.6 %	
Diversified Hedge Funds	60,338	8.6	3.8	7.5	11.3	Opportunistic Fixed Income – 0.1%	
Core Fixed Income	104,638	14.9	8.7	17.3	26.0	EMD0.6 %	
Bank Loans	49,706	7.1	3.9	7.7	11.6	Transition Low Duration – -0.3 %	
Opportunistic Fixed Income	660	0.1	0.0	0.0	5.0	Opportunistic Investments – 0.7%	
EMD	30,862	4.4	2.5	5.0	7.5	Cash (Liquidated Managers) – 0.0%	
Transition Low Duration	26,232	3.7	0.0	4.0	6.0	Cash (inv. in SAP) –	
Opportunistic Investments	4,625	0.7	0.0	0.0	5.0	-5.0 % -3.0 % 0.0% 3.0% 5.0%	,
Cash (Liquidated Managers)	24	0.0	0.0	0.0	0.0	-5.0 % -3.0 % 0.0% 3.0% 5.0%	)
Cash (inv. in SAP)	11,597	1.7	0.0	0.0	5.0	Allocation Differences	

Allocations shown may not sum up to 100% exactly due to rounding. Asset class targets shown represent 12/1/2021 interim targets. Pool allocations shown are based on 12/31/2021 allocations.



## Wyoming State Treasurer's Office Permanent Funds - Income Focus Asset Allocation vs. Target

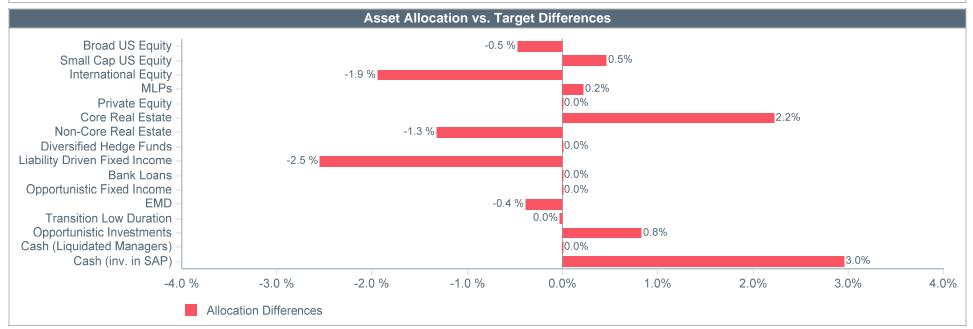


Allocations shown may not sum up to 100% exactly due to rounding. Market value shown for CSPLF excludes Public Purpose Investments (PPIs). Asset class targets shown represent 12/1/2021 interim targets. Pool allocations shown are based on 12/31/2021 allocations.



### Wyoming State Treasurer's Office Permanent Funds - Workers' Compensation Fund Asset Allocation vs. Target

	A	Asset Allocation vs. Tar	get		
	Allocation (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)
Workers Compensation Fund	2,559,444	100.00	-	100.00	-
Broad US Equity	141,468	5.53	3.00	6.00	9.00
Small Cap US Equity	11,916	0.47	0.00	0.00	0.00
International Equity	180,723	7.06	4.50	9.00	13.50
MLPs	128,597	5.02	2.40	4.80	7.20
Private Equity	48	0.00	0.00	0.00	0.00
Core Real Estate	179,773	7.02	2.40	4.80	7.20
Non-Core Real Estate	68,467	2.68	2.00	4.00	6.00
Diversified Hedge Funds	-	0.00	0.00	0.00	0.00
Liability Driven Fixed Income	1,403,892	54.85	28.70	57.40	86.10
Bank Loans	-	0.00	0.00	0.00	0.00
Opportunistic Fixed Income	13	0.00	0.00	0.00	5.00
EMD	118,003	4.61	2.50	5.00	7.50
Transition Low Duration	229,469	8.97	0.00	9.00	12.00
Opportunistic Investments	21,252	0.83	0.00	0.00	5.00
Cash (Liquidated Managers)	50	0.00	0.00	0.00	0.00
Cash (inv. in SAP)	75,773	2.96	0.00	0.00	5.00



Allocations shown may not sum up to 100% exactly due to rounding. Asset class targets shown represent 12/1/2021 interim targets. Pool allocations shown are based on 12/31/2021 allocations.



Low Duration Fixed Income

Asset Allocation vs. Target					
		Total LSRA			
		Alloc	set cation 000)	Alloc	sset cation %)
_SRA		1,32	7,885		0.00
Broad US Equity		7	5,856		5.71
Small Cap US Equity			2,742		1.71
nternational Equity			6,312		6.50
Core Fixed Income			3,094		8.10
Bank Loans			7,774		3.60
ow Duration Fixed Income		59	1,257		4.53
Private Equity			21		0.00
MLPs			9,304		2.96
Diversified Hedge Funds		7	2,213		5.44
Opportunistic Investments			-		0.00
Cash (inv. in SAP)		1	9,312		1.45
		LSRA Long Term R	eserve		
	Asset	Asset	Minimum	Target	Maximum
	Allocation	Allocation	Allocation	Allocation	Allocation
	(\$000)	(%)	(%)	(%)	(%)
SRA Long Term Reserve	363,534	100.00	-	100.00	-
Broad US Equity	75,856	20.87	17.00	22.00	27.00
Small Cap US Equity	22,742	6.26	4.00	6.00	8.00
nternational Equity	86,312	23.74	21.00	28.00	35.00
Bank Loans	47,774	13.14	10.00	12.50	15.00
Private Equity	21	0.01	0.00	0.00	0.00
/LPs	39,304	10.81	10.00	12.50	15.00
Diversified Hedge Funds	72,213	19.86	15.00	19.00	23.00
Opportunistic Investments	-	0.00	0.00	0.00	0.00
cash (inv. in SAP)	19,312	5.31 LSRA Intermediate Terr	0.00	0.00	0.00
				Torget	Maximum
	Asset Allocation	Asset Allocation	Minimum Allocation	Target Allocation	Allocation
	(\$000)	(%)	(%)	(%)	(%)
SRA Intermediate Term Reserve	373,094	100.00	-	100.00	-
Core Fixed Income	373,094	100.00	100.00	100.00	100.00
		LSRA Short Term R			
	Asset	Asset	Minimum	Target	Maximum
	Allocation	Allocation	Allocation	Allocation	Allocation
	(\$000)	(%)	(%)	(%)	(%)
SRA Short Term Reserve	591,257	100.00	-	100.00	-
		100.00	100.00		

Allocations shown may not sum up to 100% exactly due to rounding. The Total LSRA pool has no target allocation. Pool allocations shown are based on 12/31/2021 allocations.

591,257



100.00

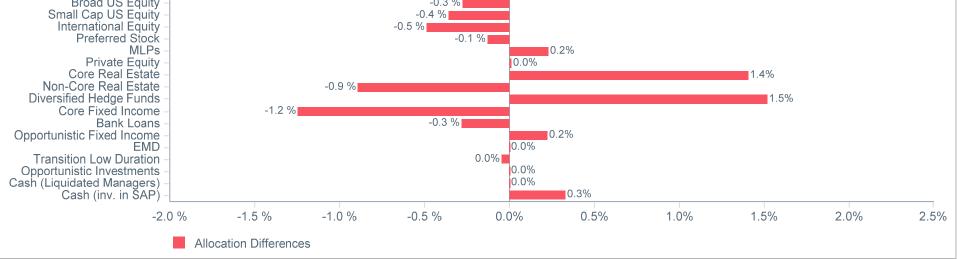
100.00

100.00

100.00

### Wyoming State Treasurer's Office Non-Permanent Funds - Pool A Investment Account Asset Allocation vs. Target

		Asset Allocation vs. Ta	irget		
	Allocation (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)
Pool A	275,387	100.00	-	100.00	-
Broad US Equity	15,297	5.55	2.92	5.83	8.75
Small Cap US Equity	3,604	1.31	0.84	1.67	2.51
International Equity	23,905	8.68	4.59	9.17	13.76
Preferred Stock	18,923	6.87	3.50	7.00	10.50
MLPs	14,410	5.23	2.50	5.00	7.50
Private Equity	28	0.01	0.00	0.00	0.00
Core Real Estate	14,900	5.41	2.00	4.00	6.00
Non-Core Real Estate	8,552	3.11	2.00	4.00	6.00
Diversified Hedge Funds	8,311	3.02	0.75	1.50	2.25
Core Fixed Income	101,206	36.75	19.00	38.00	57.00
Bank Loans	31,342	11.38	5.84	11.67	17.51
Opportunistic Fixed Income	618	0.22	0.00	0.00	5.00
EMD	-	0.00	0.00	0.00	0.00
Transition Low Duration	19,606	7.12	0.00	7.17	10.76
Opportunistic Investments	-	0.00	0.00	0.00	5.00
Cash (Liquidated Managers)	-	0.00	0.00	0.00	0.00
Cash (inv. in SAP)	14,684	5.33	2.50	5.00	7.50
	Asse	t Allocation vs. Target D	lifferences		
Broad US Equity – Small Cap US Equity –		-0.3 %			



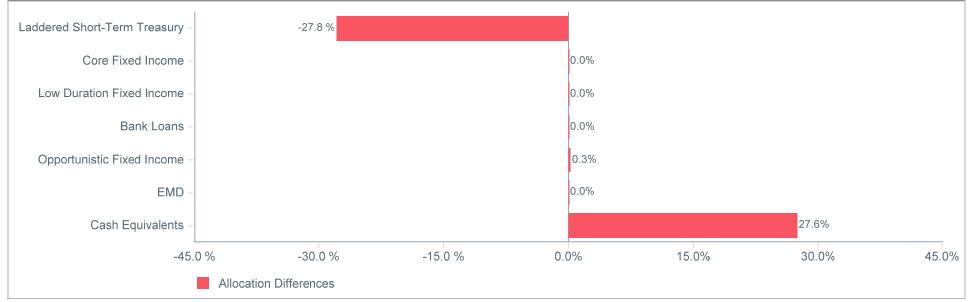
Allocations shown may not sum up to 100% exactly due to rounding. Asset class targets shown represent 12/1/2021 interim targets. Pool allocations shown are based on 12/31/2021 allocations.



## Wyoming State Treasurer's Office Non-Permanent Funds - State Agency Pool Asset Allocation vs. Target

	Ass	set Allocation vs. Targe	ət		
	Allocation (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)
State Agency Pool Excluding PPI	5,429,998	100.00	-	100.00	-
Laddered Short-Term Treasury	3,918,976	72.17	100.00	100.00	100.00
Core Fixed Income	-	0.00	0.00	0.00	0.00
Low Duration Fixed Income	56	0.00	0.00	0.00	0.00
Bank Loans	-	0.00	0.00	0.00	0.00
Opportunistic Fixed Income	14,140	0.26	0.00	0.00	0.00
EMD	-	0.00	0.00	0.00	0.00
Cash Equivalents	1,496,825	27.57	0.00	0.00	0.00

Asset Allocation vs. Target Differences



Allocations shown may not sum up to 100% exactly due to rounding. Market value shown excludes Public Purpose Investments (PPIs). Pool allocations shown are based on 12/31/2021 allocations.



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

Asset A	Ilocation & Perform	nance		Asset All	ocation & Performa	nce
	Allocation		Performance (%)		Allocation	
	Market Value (\$)	%	FYTD		Market Value (\$)	%
Total Fund	24,950,212,356	100.00	1.00	Diversified Hedge Funds Composite	1,143,993,142	4
All Cap US Equity Composite	1,631,724,945	6.54	5.60	PAAMCO - Jackalope Fund	2,804,014	C
State Street All Cap	1,527,380,368	6.12	5.88	Grosvenor Diversified Hedge Funds	477,161,073	1
Domestic Equity Quantamental	51,409,702	0.21	-2.92	Internal Diversified Hedge Funds	664,028,055	2
Domestic Equity Quantitative	52,934,875	0.21	5.50	Core Fixed Income Composite	3,759,469,554	15
UW Portfolio Mgmt Program	1,993,928	0.01	3.79	Internal Intermediate Gov't Fixed Income	1,073,578,777	4
Small Cap US Equity Composite	379,769,145	1.52	-5.84	Payden & Rygel IGC	647,325,624	2
Van Berkom	193,174,282	0.77	-2.05	JP Morgan MBS	723,865,565	2
BlackRock Small Cap	91,666,140	0.37	-11.10	PIMCO	1,314,699,587	5
Small Cap Equity Quantamental	47,545,940	0.19	-9.09	Laddered Treasury Composite	3,918,976,270	15
Small Cap Equity Quantitative	47,382,782	0.19	N/A	Internal Ladder Portfolio	3,918,976,270	15
Int'l Equity Composite	2,665,289,343	10.68	-3.87	Bank Loans Composite	1,477,739,479	5
Northern Trust	1,213,060,580	4.86	-4.64	Credit Suisse	487,608,028	1
Arrowstreet	886,256,492	3.55	-3.20	Octagon	738,427,374	2
Harding Loevner	565,972,271	2.27	-3.68	KKR	251,704,078	1
Preferred Stock Composite	246,332,356	0.99	-1.02	Emerging Market Debt Composite	906,336,492	3
Cohen & Steers Preferred Stock	246,332,356	0.99	-1.02	Global Evolution	111,411,231	0
MLPs Composite	1,087,994,079	4.36	9.18	Global Evolution Hard	161,695,663	0
Harvest Fund Advisors	541,573,635	2.17	11.41	Goldman Sachs	216,473,429	0
Harvest Fund Advisors Passive	546,420,444	2.19	7.03	Eaton Vance	182,863,593	0
Private Equity Composite	1,025,555,881	4.11	N/A	Finisterre	130,315,503	0
Access Venture Partners II	2,925,033	0.01	N/A	Wellington	103,577,074	0
Cheyenne Equity Capital Fund, L.P.	163,635,873	0.66	N/A	Long Duration Fixed Income Composite	687,937,520	2
Hamilton Lane Nowood Fund, L.P.	144,794,699	0.58	N/A	Internal Long Duration Fixed Income	292,504,365	1
Neuberger Berman Sauger Fund, L.P.	207,895,436	0.83	N/A	Metlife	395,433,155	1
BlackRock LTPC, L.P.	420,197,367	1.68	N/A	Low Duration Fixed Income Composite	591,313,254	2
Valor Equity Partners V LP	49,399,223	0.20	N/A	Internal Low Duration Fixed Income	591,313,254	2
GTCR Fund XIII	14,647,627	0.06	N/A	Transition Low Duration Composite	884,061,152	3
Veritas Capital Vantage Fund	4,000,000	0.02	N/A	PIMCO Transition Low Duration	884,061,152	3
StepStone Fund V	12,695,940	0.05	N/A	Grosvenor Silvery Lupine Fund	30,617,465	0
Nautic Partners X	5,364,683	0.02	N/A	Grosvenor Opportunistic Class D	118,367,589	0
Real Estate Composite	2,263,160,618	9.07	N/A	Cash Equivalents	1,939,244,163	7
Clarion Lion	960,606,134	3.85	14.07	Fisher Investments	567,582	0
UBS Trumbull	222,826,719	0.89	11.17	Public Purpose Investments	190,335,981	0
MS Prime	462,843,200	1.86	15.98			
SC Capital	112,478,675	0.45	N/A			
Realterm	289,162,585	1.16	N/A			
M&G	12,727,551	0.05	N/A			
Northwood	193,982,166	0.78	N/A			
WestRiver	8,533,587	0.03	N/A			
	, ,			d Composite Ex Public Purpose Inve	stments	
Periods Ending	Beginning		Net	Gain/Loss (\$)	Ending	
	Market Value (\$)		Cash Flow (\$)		Market Value (\$)	
FYTD	24,784,672,429		-258,490,982	233,694,928	24,759,876,375	

Allocations may not sum up to 100% exactly due to rounding. Performance shown is net of fees and excludes Public Purpose Investments (PPIs) and operational cash. Market value shown for Public Purpose Investments (PPIs) is as of 12/31/2021. Investment manager fees are accounted for on a quarterly basis. Wyoming State Treasurer's Office fiscal year ends on June 30th. Fiscal year begins 7/1/2021.



Unit Value

100.95

Performance (%)

FYTD

-0.62

N/A

-0.65

-0.58

-1.88

-1.45

-2.95

-1.52

-2.04

-0.93

-0.93

1.94

1.97

1.93

N/A

-3.39

-4.42 -4.58

-2.58

-1.57

-3.74

N/A

-2.80

-1.32

-3.84

-0.65

-0.65 N/A

N/A

0.67

-2.61

0.02

N/A N/A

%

4.59

0.01

1.91

2.66

15.07

4.30

2.59

2.90

5.27

15.71

15.71

5.92

1.95

2.96

1.01

3.63

0.45

0.65

0.87

0.73

0.52

0.42

2.76

1.17

1.58

2.37

2.37

3.54

3.54

0.12

0.47

7.77

0.00

0.76

	Allocation	1					P	erforma	nce (%)				
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
All Cap US Equity Composite	1,631,724,945	6.54	-5.24	-5.24	-5.24	5.60	22.87	19.84	15.43	13.41	-	13.82	11/01/2014
All Cap US Equity Custom Index			-5.17	-5.17	-5.17	5.89	23.29	20.35	16.35	14.19	15.15	13.60	
Difference			-0.07	-0.07	-0.07	-0.29	-0.42	-0.51	-0.92	-0.78	-	0.22	
State Street All Cap	1,527,380,368	6.12	-5.17	-5.17	-5.17	5.88	23.24	19.97	15.82	13.86	-	13.21	01/01/2015
State Street All Cap Custom Index			-5.17	-5.17	-5.17	5.89	23.29	19.93	15.80	13.86	14.97	13.22	
Difference			0.00	0.00	0.00	-0.01	-0.05	0.04	0.02	0.00	-	-0.01	
Domestic Equity Quantamental	51,409,702	0.21	-7.75	-7.75	-7.75	-2.92	-	-	-	-	-	7.20	04/01/2021
S&P 500 Index (Cap Wtd)			-5.17	-5.17	-5.17	5.89	23.29	20.71	16.78	14.56	15.43	14.95	
Difference			-2.58	-2.58	-2.58	-8.81	-	-	-	-	-	-7.75	
Domestic Equity Quantitative	52,934,875	0.21	-4.61	-4.61	-4.61	5.50	-	-	-	-	-	7.14	06/01/2021
S&P 500 Index (Cap Wtd)			-5.17	-5.17	-5.17	5.89	23.29	20.71	16.78	14.56	15.43	8.37	
Difference			0.56	0.56	0.56	-0.39	-	-	-	-	-	-1.23	
UW Portfolio Mgmt Program	1,993,928	0.01	-5.82	-5.82	-5.82	3.79	17.73	15.76	12.96	11.62	12.02	5.38	04/01/2006
S&P 500 Index (Cap Wtd)			-5.17	-5.17	-5.17	5.89	23.29	20.71	16.78	14.56	15.43	10.43	
Difference			-0.65	-0.65	-0.65	-2.10	-5.56	-4.95	-3.82	-2.94	-3.41	-5.05	
Small Cap US Equity Composite	379,769,145	1.52	-7.51	-7.51	-7.51	-5.84	4.79	11.94	7.23	8.25	-	7.44	11/01/2014
Russell 2000 Index			-9.63	-9.63	-9.63	-11.72	-1.21	11.99	9.69	9.68	11.33	9.28	
Difference			2.12	2.12	2.12	5.88	6.00	-0.05	-2.46	-1.43	-	-1.84	
Van Berkom	193,174,282	0.77	-6.13	-6.13	-6.13	-2.05	5.93	-	-	-	-	16.55	03/01/2020
Russell 2000 Index			-9.63	-9.63	-9.63	-11.72	-1.21	11.99	9.69	9.68	11.33	19.38	
Difference			3.50	3.50	3.50	9.67	7.14	-	-	-	-	-2.83	
BlackRock Small Cap	91,666,140	0.37	-9.26	-9.26	-9.26	-11.10	0.15	-	-	-	-	25.84	08/01/2020
Russell 2000 Index			-9.63	-9.63	-9.63	-11.72	-1.21	11.99	9.69	9.68	11.33	24.66	
Difference			0.37	0.37	0.37	0.62	1.36	-	-	-	-	1.18	
Small Cap Equity Quantamental	47,545,940	0.19	-10.23	-10.23	-10.23	-9.09	-	-	-	-	-	-6.41	06/01/2021
Russell 2000 Index			-9.63	-9.63	-9.63	-11.72	-1.21	11.99	9.69	9.68	11.33	-10.01	
Difference			-0.60	-0.60	-0.60	2.63	-	-	-	-	-	3.60	
Small Cap Equity Quantitative	47,382,782	0.19	-6.63	-6.63	-6.63	-	-	-	-	-	-	-6.05	11/01/2021
Russell 2000 Index			-9.63	-9.63	-9.63	-11.72	-1.21	11.99	9.69	9.68	11.33	-11.46	
Difference			3.00	3.00	3.00	-	-	-	-	-	-	5.41	



	Allocatio	n					P	erforma	nce (%)				
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Int'l Equity Composite	2,665,289,343	10.68	-3.93	-3.93	-3.93	-3.87	5.35	12.23	9.90	7.24	7.13	6.42	01/01/2004
International Equity Custom Index			-3.69	-3.69	-3.69	-4.86	3.63	9.09	8.04	6.01	6.18	5.64	
Difference			-0.24	-0.24	-0.24	0.99	1.72	3.14	1.86	1.23	0.95	0.78	
Northern Trust	1,213,060,580	4.86	-3.46	-3.46	-3.46	-4.64	3.85	9.17	8.23	6.13	6.32	5.98	08/01/2010
MSCI ACW Ex US Index (USD) (Net)			-3.69	-3.69	-3.69	-4.86	3.63	9.09	8.04	6.01	6.18	5.86	
Difference			0.23	0.23	0.23	0.22	0.22	0.08	0.19	0.12	0.14	0.12	
Arrowstreet	886,256,492	3.55	-3.24	-3.24	-3.24	-3.20	9.11	15.36	-	-	-	8.79	03/01/2018
MSCI ACW Ex US IM Index (USD) (Net)			-4.06	-4.06	-4.06	-4.98	3.95	9.36	8.16	6.26	6.40	4.59	
Difference			0.82	0.82	0.82	1.78	5.16	6.00	-	-	-	4.20	
Harding Loevner	565,972,271	2.27	-5.87	-5.87	-5.87	-3.68	2.44	-	-	-	-	10.24	01/01/2020
MSCI ACW Ex US Index (USD) (Net)			-3.69	-3.69	-3.69	-4.86	3.63	9.09	8.04	6.01	6.18	6.90	
Difference			-2.18	-2.18	-2.18	1.18	-1.19	-	-	-	-	3.34	
Cohen & Steers Preferred Stock	246,332,356	0.99	-2.02	-2.02	-2.02	-1.02	2.28	7.95	-	-	-	7.25	07/01/2018
Preferred Stock Custom Index			-2.15	-2.15	-2.15	-1.84	4.39	7.73	6.03	5.48	6.42	6.24	
Difference			0.13	0.13	0.13	0.82	-2.11	0.22	-	-	-	1.01	
MLP Composite	1,087,994,079	4.36	10.23	10.23	10.23	9.18	46.95	4.71	-		-	1.25	08/01/2018
MLP Custom Index			10.41	10.41	10.41	6.66	45.65	2.85	-0.19	-2.59	1.59	0.41	
Difference			-0.18	-0.18	-0.18	2.52	1.30	1.86	-	-	-	0.84	
Harvest Fund Advisors	541,573,635	2.17	9.99	9.99	9.99	11.41	47.48	4.84	-	-	-	1.36	08/01/2018
MLP Custom Index			10.41	10.41	10.41	6.66	45.65	2.85	-0.19	-2.59	1.59	0.41	
Difference			-0.42	-0.42	-0.42	4.75	1.83	1.99	-	-	-	0.95	
Harvest Fund Advisors Passive	546,420,444	2.19	10.43	10.43	10.43	7.03	46.43	-	-	-	-	9.95	02/01/2020
MLP Custom Index			10.41	10.41	10.41	6.66	45.65	2.85	-0.19	-2.59	1.59	9.37	
Difference			0.02	0.02	0.02	0.37	0.78	-	-	-	-	0.58	



	Allocation	ı					P	erforma	nce (%)				
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Core Real Estate Composite	1,646,276,054	6.60	0.00	0.00	0.00	14.17	21.65	7.88	7.66	8.46	9.12	6.20	01/01/2006
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	14.56	21.02	8.23	7.74	8.61	9.43	6.33	
Difference			0.00	0.00	0.00	-0.39	0.63	-0.35	-0.08	-0.15	-0.31	-0.13	
Clarion Lion	960,606,134	3.85	0.00	0.00	0.00	14.07	22.73	9.98	9.43	10.03	10.45	6.28	01/01/2006
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	14.56	21.02	8.23	7.74	8.61	9.43	6.33	
Difference			0.00	0.00	0.00	-0.49	1.71	1.75	1.69	1.42	1.02	-0.05	
UBS Trumbull	222,826,719	0.89	0.00	0.00	0.00	11.17	15.40	2.23	3.65	5.14	6.46	4.91	07/01/2006
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	14.56	21.02	8.23	7.74	8.61	9.43	6.05	
Difference			0.00	0.00	0.00	-3.39	-5.62	-6.00	-4.09	-3.47	-2.97	-1.14	
MS Prime	462,843,200	1.86	0.00	0.00	0.00	15.98	21.48	-	-	-	-	16.99	10/01/2020
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	14.56	21.02	8.23	7.74	8.61	9.43	16.33	
Difference			0.00	0.00	0.00	1.42	0.46	-	-	-	-	0.66	
Diversified Hedge Funds Composite	1,143,993,142	4.59	-3.14	-3.14	-3.14	-0.62	4.54	3.89	3.17	2.31	3.74	2.62	12/01/2007
HFRI FOF Comp Index			-2.78	-2.78	-2.78	-1.74	3.82	6.52	4.88	3.63	4.07	2.04	
Difference			-0.36	-0.36	-0.36	1.12	0.72	-2.63	-1.71	-1.32	-0.33	0.58	
Grosvenor Diversified Hedge Funds	477,161,073	1.91	-3.21	-3.21	-3.21	-0.65	5.32	5.12	-	-	-	3.81	07/01/2018
HFRI FOF Comp Index			-2.78	-2.78	-2.78	-1.74	3.82	6.52	4.88	3.63	4.07	4.75	
Difference			-0.43	-0.43	-0.43	1.09	1.50	-1.40	-	-	-	-0.94	
Internal Diversified Hedge Funds	664,028,055	2.66	-3.10	-3.10	-3.10	-0.58	4.14	4.24	-	-	-	4.05	07/01/2018
HFRI FOF Comp Index			-2.78	-2.78	-2.78	-1.74	3.82	6.52	4.88	3.63	4.07	4.75	
Difference			-0.32	-0.32	-0.32	1.16	0.32	-2.28	-	-	-	-0.70	



	Allocatio	า					P	erforma	nce (%)				
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Core Fixed Income Composite	3,759,469,554	15.07	-1.87	-1.87	-1.87	-1.88	-2.69	3.87	3.29	2.55	-	2.57	01/01/2013
Bloomberg US Agg Bond Index			-2.15	-2.15	-2.15	-2.09	-2.97	3.67	3.08	2.38	2.58	2.48	
Difference			0.28	0.28	0.28	0.21	0.28	0.20	0.21	0.17	-	0.09	
Internal Aggregate Core Fixed Income	2,444,769,967	9.80	-1.79	-1.79	-1.79	-1.86	-2.58	-			-	1.96	11/01/2019
Bloomberg US Agg Bond Index			-2.15	-2.15	-2.15	-2.09	-2.97	3.67	3.08	2.38	2.58	1.51	
Difference			0.36	0.36	0.36	0.23	0.39	-	-	-	-	0.45	
Internal Intermediate Govt Fixed Income Portfolio	1,073,578,777	4.30	-1.64	-1.64	-1.64	-1.45	-2.93	2.53	2.30	1.91	1.89	4.33	10/01/1996
Internal Intermediate Govt Fixed Income Portfolio Index			-1.89	-1.89	-1.89	-1.64	-3.25	2.57	2.10	1.62	1.54	4.32	
Difference			0.25	0.25	0.25	0.19	0.32	-0.04	0.20	0.29	0.35	0.01	
Payden & Rygel IGC	647,325,624	2.59	-3.05	-3.05	-3.05	-2.95	-2.89	-	-	-	-	2.65	11/01/2019
Payden & Rygel Custom Index			-3.37	-3.37	-3.37	-3.15	-3.13	5.25	4.30	3.43	4.02	2.09	
Difference			0.32	0.32	0.32	0.20	0.24	-	-	-	-	0.56	
JP Morgan MBS	723,865,565	2.90	-0.92	-0.92	-0.92	-1.52	-1.91	-	-	-	-	1.81	11/01/2019
Bloomberg US MBS Index (Unhgd)			-1.48	-1.48	-1.48	-1.75	-2.59	2.23	2.20	1.90	2.08	0.72	
Difference			0.56	0.56	0.56	0.23	0.68	-	-	-	-	1.09	
PIMCO	1,314,699,587	5.27	-1.87	-1.87	-1.87	-2.04	-2.93	3.77	3.34	2.60	-	2.56	01/01/2013
PIMCO Custom Index			-2.15	-2.15	-2.15	-2.09	-2.97	3.49	2.99	2.31	2.54	2.43	
Difference			0.28	0.28	0.28	0.05	0.04	0.28	0.35	0.29	-	0.13	
Bank Loans Composite	1,477,739,479	5.92	0.37	0.37	0.37	1.94	3.97	-	-	-	-	4.65	09/01/2019
Bank Loans Custom Index			0.14	0.14	0.14	1.48	3.58	4.62	4.08	4.26	4.43	4.21	
Difference			0.23	0.23	0.23	0.46	0.39	-	-	-	-	0.44	
Credit Suisse	487,608,028	1.95	0.33	0.33	0.33	1.97	4.15	-	-	-	-	4.28	09/01/2019
Bank Loans Custom Index			0.14	0.14	0.14	1.48	3.58	4.62	4.08	4.26	4.43	4.21	
Difference			0.19	0.19	0.19	0.49	0.57	-	-	-	-	0.07	
Octagon	738,427,374	2.96	0.33	0.33	0.33	1.93	3.88	-	-	-	-	4.55	09/01/2019
Bank Loans Custom Index			0.14	0.14	0.14	1.48	3.58	4.62	4.08	4.26	4.43	4.21	
Difference			0.19	0.19	0.19	0.45	0.30	-	-	-	-	0.34	
KKR	251,704,078	1.01	0.56	0.56	0.56	-	-	-	-	-	-	1.31	10/01/2021
Bank Loans Custom Index			0.14	0.14	0.14	1.48	3.58	4.62	4.08	4.26	4.43	0.50	
Difference			0.42	0.42	0.42	-	-	-	-	-	-	0.81	



	Allocatio	า					P	erforma	nce (%)				
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Emerging Market Debt Fixed Income Composite	906,336,492	3.63	-1.47	-1.47	-1.47	-3.39	-3.16	1.84	2.85	0.98	-	-1.16	04/01/2013
EMD Custom Benchmark			-1.51	-1.51	-1.51	-3.84	-4.01	1.34	3.01	1.44	0.34	-0.54	
Difference			0.04	0.04	0.04	0.45	0.85	0.50	-0.16	-0.46	-	-0.62	
Global Evolution	111,411,231	0.45	0.46	0.46	0.46	-4.42	-6.04	-	-	-	-	-1.85	02/01/2020
JPM GBI-EM GbI Dvf'd Index (USD) (TR) (Unhedged)			-0.01	-0.01	-0.01	-5.56	-7.76	0.28	2.36	0.99	0.03	-2.57	
Difference			0.47	0.47	0.47	1.14	1.72	-	-	-	-	0.72	
Goldman Sachs	216,473,429	0.87	-1.79	-1.79	-1.79	-2.58	-2.28	-	-	-	-	1.98	03/01/2020
Goldman Sachs Custom Index			-1.67	-1.67	-1.67	-2.03	-0.71	5.44	4.78	5.04	5.21	2.51	
Difference			-0.12	-0.12	-0.12	-0.55	-1.57	-	-	-	-	-0.53	
Eaton Vance	182,863,593	0.73	-1.38	-1.38	-1.38	-1.57	0.67	-	-	-	-	1.25	01/01/2021
JP Morgan EMB (JEMB) Hard /Local 50/50			-1.13	-1.13	-1.13	-4.27	-4.95	2.37	3.36	2.89	2.56	-5.30	
Difference			-0.25	-0.25	-0.25	2.70	5.62	-	-	-	-	6.55	
Global Evolution Hard	161,695,663	0.65	-2.80	-2.80	-2.80	-4.58	-4.81	-	-	-	-	-3.70	12/01/2020
JP Morgan EMBIG Div Ex CCC (USD) (TR) Index			-2.98	-2.98	-2.98	-4.00	-3.81	3.89	4.11	4.15	4.81	-2.80	
Difference			0.18	0.18	0.18	-0.58	-1.00	-	-	-	-	-0.90	
Finisterre	130,315,503	0.52	-1.01	-1.01	-1.01	-3.74	-	-	-	-	-	-3.22	03/01/2021
EMD Custom Benchmark (1/3 blend)			-1.51	-1.51	-1.51	-3.84	-4.01	3.06	3.67	3.50	3.39	-2.27	
Difference			0.50	0.50	0.50	0.10	-	-	-	-	-	-0.95	
Wellington EMD	103,577,074	0.42	-1.53	-1.53	-1.53	-	-	-	-	-	-	-5.80	09/01/2021
50% JPM GBI-EM Glb Div / 50% JPM EMBI Glb Div			-1.43	-1.43	-1.43	-4.74	-5.65	1.89	3.11	2.72	2.45	-5.57	
Difference			-0.10	-0.10	-0.10	-	-	-	-	-	-	-0.23	
Laddered Treasury Composite	3,918,976,270	15.71	-0.57	-0.57	-0.57	-0.93	-0.99	-	-			1.13	10/01/2019
Internal Ladder Portfolio	3,918,976,270	15.71	-0.57	-0.57	-0.57	-0.93	-0.99	-	-	-	-	1.13	10/01/2019



	Allocation	า					P	erforma	nce (%)				
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Long Duration Fixed Income Composite	687,937,520	2.76	-4.45	-4.45	-4.45	-2.80	-4.52	8.33	-	-	-	8.88	01/01/2019
Bloomberg US Gov't Crdt Lng Trm Bond Index			-4.90	-4.90	-4.90	-2.79	-4.46	7.98	6.25	4.01	5.06	8.53	
Difference			0.45	0.45	0.45	-0.01	-0.06	0.35	-	-	-	0.35	
Internal Long Duration Fixed Income Portfolio	292,504,365	1.17	-3.79	-3.79	-3.79	-1.32	-5.45	6.67	-	-	-	6.67	01/01/2019
Bloomberg US Gov't Lng Trm Bond Index			-4.12	-4.12	-4.12	-0.75	-5.13	7.03	5.55	2.84	4.09	7.06	
Difference			0.33	0.33	0.33	-0.57	-0.32	-0.36	-	-	-	-0.39	
Metlife	395,433,155	1.58	-5.19	-5.19	-5.19	-3.84	-3.73	9.02	-	-	-	10.14	11/01/2018
Bloomberg US Lng Crdt Index			-5.48	-5.48	-5.48	-4.22	-4.12	8.07	6.38	4.55	5.58	9.23	
Difference			0.29	0.29	0.29	0.38	0.39	0.95	-	-	-	0.91	
Low Duration Fixed Income Composite	591,313,254	2.37	-0.53	-0.53	-0.53	-0.65	-0.62	2.01	-	-		2.26	12/01/2018
Low Duration Fixed Income Custom Index			-0.70	-0.70	-0.70	-1.21	-1.33	1.74	1.57	1.35	1.23	2.02	
Difference			0.17	0.17	0.17	0.56	0.71	0.27	-	-	-	0.24	
Internal Low Duration Fixed Income Portfolio	591,313,254	2.37	-0.53	-0.53	-0.53	-0.65	-0.62	1.99	-	-	-	2.09	03/01/2018
Bloomberg US Gov't 1-3 Yr Bond Index			-0.70	-0.70	-0.70	-1.21	-1.33	1.70	1.45	1.18	1.02	1.86	
Difference			0.17	0.17	0.17	0.56	0.71	0.29	-	-	-	0.23	
Transition Low Duration Fixed Income Composite	884,061,152	3.54	-0.37	-0.37	-0.37				-	-		-0.20	11/01/2021
Transition Fixed Income Custom Index			-0.25	-0.25	-0.25	0.05	0.66	2.73	2.64	2.58	-	-0.22	
Difference			-0.12	-0.12	-0.12	-	-	-	-	-	-	0.02	
PIMCO Transition Low Duration	884,061,152	3.54	-0.37	-0.37	-0.37	-	-	-	-	-	-	-0.20	11/01/2021
PIMCO Low Duration Custom Index			-0.25	-0.25	-0.25	0.20	0.80	2.78	2.67	2.60	-	-0.08	
Difference			-0.12	-0.12	-0.12	-	-	-	-	-	-	-0.12	
Groovener Silvery Luning Fund	20 617 465	0.12	0.32	0.32	0.32	0.67	1.26	-0.39	2.40	3.78	-	3.52	07/01/2014
Grosvenor Silvery Lupine Fund CS Western Euro Hi Yld Index	30,617,465	0.12	-1.57	-1.57	-1.57	-0.36	2.66	-0.39 6.00	<b>2.40</b> 5.40	<b>3.70</b> 5.72	7.20	<b>3.32</b> 5.26	01/01/2014
Difference			-1.57	1.89	-1.57	1.03	-1.40	-6.39	-3.00	-1.94	7.20	-1.74	
Grosvenor Opportunistic Class D	118,367,589	0.47	-3.92	-3.92	-3.92	-2.61	19.62	-	_	_		35.66	07/01/2020
Grosvenor Opportunistic Class D Grosvenor Opportunistic Class D Custom Benchmark	110,307,303	0.47	-2.11	-2.11	-2.11	0.21	6.66	_				11.69	01/01/2020
Difference			-1.81	-1.81	-1.81		12.96	-	-	-	-	23.97	
Directorio			1.01	1.01	1.01	2.02	12.00					20.01	



	Allocation	1 2 5 7 10 Sinco Inc											
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
JP Morgan Cash Composite	1,939,244,163	7.77	0.00	0.00	0.00	0.02	0.04	0.88	1.10	0.87	0.66	1.38	01/01/2006
JP Morgan Cash Custom Index			0.00	0.00	0.00	0.02	0.04	0.98	1.16	0.91	0.69	1.41	
Difference			0.00	0.00	0.00	0.00	0.00	-0.10	-0.06	-0.04	-0.03	-0.03	
Wyo-Star Cash Composite	952,186,033	3.82	-0.16	-0.16	-0.16	-0.26	-0.30	1.06	1.17	0.92	0.72	2.99	10/01/1996
Wyo-Star Cash Custom Index			-0.20	-0.20	-0.20	-0.32	-0.46	1.15	1.25	0.97	0.77	2.47	
Difference			0.04	0.04	0.04	0.06	0.16	-0.09	-0.08	-0.05	-0.05	0.52	
WYO STAR II Total Fund	197,346,829	0.79	-0.72	-0.72	-0.72	-1.09	-1.10	2.20	-	-	-	2.36	01/01/2019
Bloomberg US Corp 1-3 Yr Index			-0.78	-0.78	-0.78	-1.15	-0.93	2.44	2.24	2.04	2.08	2.62	
Difference			0.06	0.06	0.06	0.06	-0.17	-0.24	-	-	-	-0.26	

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

- Since Inception date shown represents the first full month following initial funding.
- The Wyoming State Total Fund Index is calculated using beginning month asset class weights applied to the appropriate asset class benchmark return through 12/31/2019. As of 01/01/2020, the Index is calculated using the weighted average of the respective Investment Funds' Target Allocation Indices.
- Pool Total Fund Indices consist of the actual allocation index through 12/31/2019, and the target allocation index thereafter.
- The All Cap US Equity Custom Index consists of the Russell 3000 Index through 02/29/2020, and the S&P 500 Index thereafter.
- The MLP Custom Index consists of the S&P MLP Index (TR) through 06/30/2019, the Alerian MLP Index through 12/31/2019, and 50% Alerian MLP Index / 50% Alerian Midstream Energy Index thereafter.
- The International Equity Custom Index consists of the MSCI EAFE Index (USD) (Gross) through July 2010 and the MSCI ACW Ex US Index (USD) (Net) thereafter.
- The Preferred Stock Custom Index consists of S&P U.S. Preferred Stock Index through 06/30/2021, and 60% ICE BofAML US IG Inst Capital Securities Index, 20% ICE BofAML Core Fixed Rate Preferred Securities Index, and 20% Bloomberg Barclays Developed Market USD Contingent Capital Index thereafter.
- The Internal Intermediate Govt Fixed Income Portfolio Index currently consists of the Bloomberg US Treasury Index. November 2019 performance consists of the Internal Intermediate Govt Fixed Income Portfolio. Prior to November 2019, the index consists of Bloomberg US Gov't Int Term Bond Index. Prior to December 2009, the index consisted of the Bloomberg US Gov't Crdt Bond Index.
- The PIMCO Custom Index consists of the Bloomberg US Agg Bond Index through February 2018, the Bloomberg US Agg Int Index through June 2019, the Bloomberg US Agg Bond Index through 03/26/2020, account performance from 03/27/2020 through 04/03/2020, and the Bloomberg US Agg Bond Index thereafter.
- The Low Duration Fixed Income Custom Index consists of the Bloomberg US Gov't Crdt 1-3 Yr Bond Index through 06/30/2019 and the Bloomberg US Gov't 1-3 Yr Bond Index thereafter.
- Transition Fixed Income Custom Index consists of 50% JPM CLOIE IG Idx, 40% BB 1 3 Yr Crdt, and 10% ICE BofA 0-2 Yr Dur BB-B Index.
- The PIMCO Low Duration Custom Index consists of 50% JPM CLOIE IG Idx, 40% BB 1 3 Yr Crdt, and 10% ICE BofA 0-2 Yr Dur BB-B Index through 11/30/2021, account performance on 12/1/2021-12/13/2021, and 50% JPM CLOIE IG Idx, 40% BB 1 3 Yr Crdt, and 10% ICE BofA 0-2 Yr Dur BB-B Index thereafter.
- The State Street All Cap Custom Index consists of 69% Russell 3000 Index, 24% FTSE RAFI US 1000 Index, and 7% MSCI US Min Vol Index (USD) (Gross) through 02/27/2020, State Street All Cap account performance on 02/28/2020, and the S&P 500 Index thereafter.
- The EMD Custom Index consists of the JPM GBI-EM GbI Dvf'd Index through 02/29/2020, 70% JPM GBI-EM GbI Dvf'd Index / 30% JPM CEMBI Brd Dvf'd Index thereafter through 11/30/2020, and 1/3 JPM GBI-EM GbI Dvf'd Index, 1/3 JPM CEMBI Brd Dvf'd Index, and 1/3 JPM EMBI GbI Dvf'd Index thereafter.
- The JP Morgan EMB (JEMB) Hard Currency/Local Currency 50/50 consists of 50% JPM GBI-EM GbI Dvf'd Index, 25% JPM CEMBI Brd Dvf'd Index, and 25% J PM EMBI GbI Dvf'd Index.
- The Goldman Sachs Index consists of JPM CEMBI Brd Dvf'd Index through 11/22/2020, account performance from 11/23/2020 through 11/30/2020, and the JP



M CEMBI Brd Dvf'd Index thereafter.

- The Bank Loans Custom Index consists of S&P LSTA Lvgd Loan Index through 06/30/2021, and the S&P LSTA US Lvgd Loan 100 Index thereafter.
- The Payden & Rygel Custom Index consists of the Bloomberg US Corp Inv Grade Index through 03/25/2020, account performance from 03/26/2020 through 03/31/2020, and Bloomberg US Corp Inv Grade Index thereafter.
- Performance shown for the JP Morgan Cash Composite and the Wyo-Star Cash Composite consists of the respective operating and extended cash accounts.
- The JP Morgan Cash Custom Index is calculated monthly using beginning of the month investment weights applied to each corresponding primary benchmark return. The primary benchmark for JP Morgan Cash is the ICE BofAML 3 Mo US T-Bill Index and for JP Morgan Extd is the JP Morgan Blended Index through 06/30/2019, and the ICE BofAML 3 Mo US T-Bill Index thereafter.
- The Wyo-Star Cash Custom Index is calculated monthly using beginning of the month investment weights applied to each corresponding primary benchmark return. Currently, the primary benchmark for Wyo-Star Cash is the ICE BofAML 3 Mo US T-Bill Index and for Wyo-Star Extd is the JP Morgan Blended Index.



	Allocation Performance (%)												
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Internal Equity Composite	199,273,299	0.80	-7.29	-7.29	-7.29	-2.70	N/A	N/A	N/A	N/A	N/A	6.13	04/01/2021
Internal Equity Composite Actual Allocation Index			-7.32	-7.32	-7.32	-1.83	N/A	N/A	N/A	N/A	N/A	5.64	
Difference			0.03	0.03	0.03	-0.87	N/A	N/A	N/A	N/A	N/A	0.49	
Domestic Equity Quantamental	51,409,702	0.21	-7.75	-7.75	-7.75	-2.92	N/A	N/A	N/A	N/A	N/A	7.20	04/01/2021
S&P 500 Index (Cap Wtd)			-5.17	-5.17	-5.17	5.89	23.29	20.71	16.78	14.56	15.43	14.95	
Difference			-2.58	-2.58	-2.58	-8.81	N/A	N/A	N/A	N/A	N/A	-7.75	
Domestic Equity Quantitative	52,934,875	0.21	-4.61	-4.61	-4.61	5.50	N/A	N/A	N/A	N/A	N/A	7.14	06/01/2021
S&P 500 Index (Cap Wtd)			-5.17	-5.17	-5.17	5.89	23.29	20.71	16.78	14.56	15.43	8.37	
Difference			0.56	0.56	0.56	-0.39	N/A	N/A	N/A	N/A	N/A	-1.23	
Small Cap Equity Quantamental	47,545,940	0.19	-10.23	-10.23	-10.23	-9.09	N/A	N/A	N/A	N/A	N/A	-6.41	06/01/2021
Russell 2000 Index			-9.63	-9.63	-9.63	-11.72	-1.21	11.99	9.69	9.68	11.33	-10.01	
Difference			-0.60	-0.60	-0.60	2.63	N/A	N/A	N/A	N/A	N/A	3.60	
Small Cap Equity Quantitative	47,382,782	0.19	-6.63	-6.63	-6.63	N/A	N/A	N/A	N/A	N/A	N/A	-6.05	11/01/2021
Russell 2000 Index			-9.63	-9.63	-9.63	-11.72	-1.21	11.99	9.69	9.68	11.33	-11.46	
Difference			3.00	3.00	3.00	N/A	N/A	N/A	N/A	N/A	N/A	5.41	
Internal Diversified Hedge Funds	664,028,055	2.66	-3.10	-3.10	-3.10	-0.58	4.14	4.24	N/A	N/A	N/A	4.05	07/01/2018
HFRI FOF Comp Index			-2.78	-2.78	-2.78	-1.74	3.82	6.52	4.88	3.63	4.07	4.75	
Difference			-0.32	-0.32	-0.32	1.16	0.32	-2.28	N/A	N/A	N/A	-0.70	
Internal Fixed Income Composite	5,876,372,666	23.55	-0.93	-0.93	-0.93	-0.96	-1.42	2.81	2.46	2.02	1.97	4.36	10/01/1996
Internal Fixed Income Actual Allocation Index			-1.01	-1.01	-1.01	-1.03	-1.50	2.81	2.28	1.75	1.63	4.36	
Difference			0.08	0.08	0.08	0.07	0.08	0.00	0.18	0.27	0.34	0.00	
Internal Intermediate Govt Fixed Income Portfolio	1,073,578,777	4.30	-1.64	-1.64	-1.64	-1.45	-2.93	2.53	2.30	1.91	1.89	4.33	10/01/1996
Internal Intermediate Govt Fixed Income Portfolio Index			-1.89	-1.89	-1.89	-1.64	-3.25	2.57	2.10	1.62	1.54	4.32	
Difference			0.25	0.25	0.25	0.19	0.32	-0.04	0.20	0.29	0.35	0.01	
Internal Ladder Portfolio	3,918,976,270	15.71	-0.57	-0.57	-0.57	-0.93	-0.99	N/A	N/A	N/A	N/A	1.13	10/01/2019
Internal Long Duration Fixed Income Portfolio	292,504,365	1.17	-3.79	-3.79	-3.79	-1.32	-5.45	6.67	N/A	N/A	N/A	6.67	01/01/2019
Bloomberg US Gov't Lng Trm Bond Index			-4.12	-4.12	-4.12	-0.75	-5.13	7.03	5.55	2.84	4.09	7.06	
Difference			0.33	0.33	0.33	-0.57	-0.32	-0.36	N/A	N/A	N/A	-0.39	



	Allocation	ı					P	erforma	nce (%)				
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Internal Low Duration Fixed Income Portfolio	591,313,254	2.37	-0.53	-0.53	-0.53	-0.65	-0.62	1.99	N/A	N/A	N/A	2.09	03/01/2018
Bloomberg US Gov't 1-3 Yr Bond Index			-0.70	-0.70	-0.70	-1.21	-1.33	1.70	1.45	1.18	1.02	1.86	
Difference			0.17	0.17	0.17	0.56	0.71	0.29	N/A	N/A	N/A	0.23	
Grosvenor Opportunistic Class D	118,367,589	0.47	-3.92	-3.92	-3.92	-2.61	19.62	N/A	N/A	N/A	N/A	35.66	07/01/2020
Grosvenor Opportunistic Class D Custom Benchmark			-2.11	-2.11	-2.11	0.21	6.66	N/A	N/A	N/A	N/A	11.69	
Difference			-1.81	-1.81	-1.81	-2.82	12.96	N/A	N/A	N/A	N/A	23.97	

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