Monthly Investment Performance Analysis Wyoming State Treasurer's Office

Preliminary

Period Ended: July 31, 2024



										Sha	rpe Ratio		Annualized Statistics (02/2006 - 07/2024)				
	2016	2017	2018	2019	2020	2021	2022	2023	CYTD (As of 07/24)	Asset Class	Historical 10 Years Sharpe Ratio	Forecasted Sharpe Ratio		Return	Standard Deviation	Sharpe Ratio	
Best	21.95	27.19	10.40	31.49	21.68	39.92	26.26	26.29	19.54	S&P 500 Index - US Large Cap	0.79	0.16	S&P 500 Index - US Large Cap	10.49	15.35	0.63	
1	21.31	21.83	8.35	25.53	19.96	39.33	7.47	20.23	16.70	Russell 2000 Index - US Small Cap	0.44	0.14	Russell 2000 Index - US Small Cap	8.18	20.41	0.42	
	13.24	18.44	1.87	21.51	18.40	28.71	1.46	16.93	12.07	International Equity Custom Index - International	0.25	0.26	International Equity Custom Index - International	4.21	17.00	0.24	
	11.96	15.21	0.44	17.64	10.88	22.17	-0.68	16.28	8.34	Cambridge US PE Index - Private Equity	1.12	0.22	Cambridge US PE Index - Private Equity	12.88	10.60	1.06	
	10.16	14.65	0.01	13.82	10.65	14.82	-3.34	13.09	5.8	NCREIF ODCE Index - Real Estate	0.76	Core 0.18 / Non-Core 0.17	NCREIF ODCE Index - Real Estate	5.81	7.88	0.56	
	9.94	9.11	-4.02	13.47	7.97	7.82	-5.27	10.99	5.28	HFRI FOF Comp Index	0.42	0.25	HFRI FOF Comp Index	3.08	5.32	0.31	
	8.77	7.77	-4.25	8.72	7.51	6.17	-12.04	8.57	5.21	Preferred Stock Custom Index	0.40	0.20	Preferred Stock Custom Index	4.80	15.31	0.29	
	4.50	7.62		8.64	3.12	5.71		6.59	3.09	MLP Custom Index	0.18	0.14	MLP Custom Index	8.64	23.83	0.41	
	2.65	4.12	-6.21	8.39	1.50	4.66	-13.90	6.06	2.68	Bloomberg US Agg Bond Index - Fixed Income	0.03	0.23	Bloomberg US Agg Bond Index - Fixed Income	3.13	4.24	0.40	
	1.94	3.54	-11.01	7.55	1.19	0.05	-16.00	5.53	1.87	Bank Loans Custom Index	0.55	0.38	Bank Loans Custom Index	4.89	7.16	0.49	
ţ	0.51	0.84	-11.67	5.34	0.67			5.02	1.61	EMD Custom Index	-0.10	0.19	EMD Custom Index	3.74	11.80	0.25	
Worst	0.38	-5.58	-14.20	2.47	-25.60	-3.26	-20.44	-12.02	-2.80	JP Morgan Cash Custom Index - Cash Equiv	0.58	0.00	JP Morgan Cash Custom Index - Cash Equiv	1.73	0.59	1.07	

The International Equity Custom Index consists of the MSCI EAFE Index (USD) (Gross) through July 2010, the MSCI ACW Ex US Index (USD) (Net) through September 2023,

an actively weighted blend of MSCI ACW Ex US Index (USD) (Net) and MSCI ACW Ex US Ex China Index through June 2024, and a 50/50 blend of the MSCI ACW Ex US and MSCI ACW Ex US Ex China Index

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, the S&P LSTA US Lvgd Loan 100 Index through 6/30/2023, and the Credit Suisse Leveraged Loan 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.

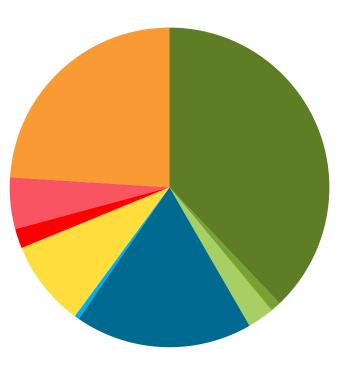
The JP Morgan Cash Custom Index is calculated monthly using beginning of the month investment weights applied to each corresponding primary benchmark return.

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.



July 31, 2024 : \$30,339,157,249

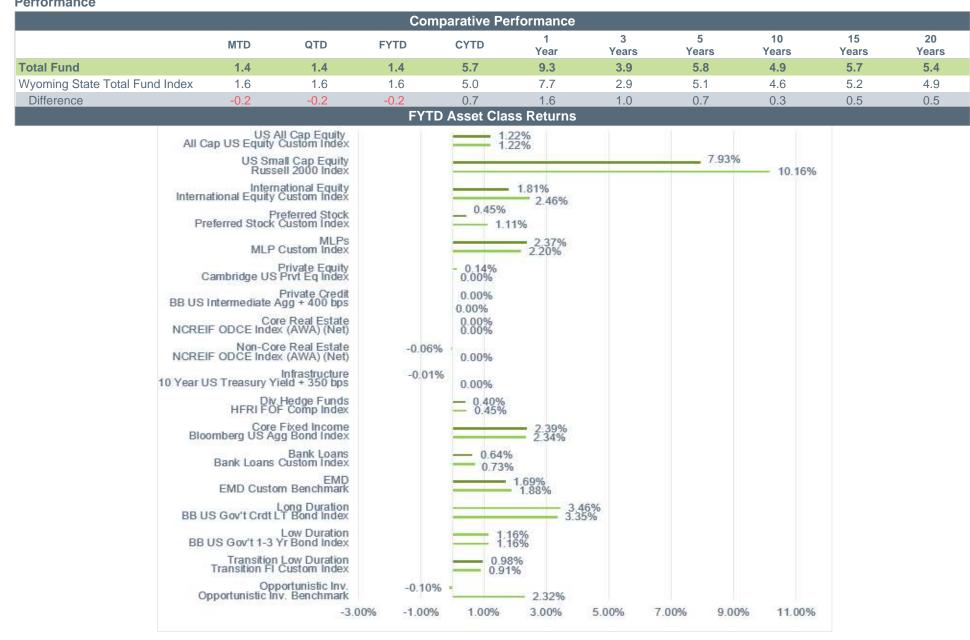


	Market Value (\$)	Allocation (%)
Permanent Mineral Trust	11,502,067,896	37.91
Permanent Land Fund	310,147,916	1.02
University Permanent Land Fund	33,535,210	0.11
Hathaway Scholarship	795,213,611	2.62
Common School PLF	5,442,085,667	17.94
Higher Education	146,803,756	0.48
Workers Compensation Fund	2,645,070,631	8.72
Pool A	603,722,183	1.99
LSRA	1,579,928,971	5.21
State Agency Pool	7,280,581,407	24.00

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

Wyoming State Treasurer's Office Total Fund Performance



Allocations shown 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. Fiscal year begins 7/1/2024.



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

Asset Allocatio	n & Performanc	е		As
	Allocation		Performance (%)	
	Market Value (\$)	%	FYTD	
Total Fund	30,339,157,248	100.00	1.41	Bessemer Venture Partners X
All Cap US Equity Composite	2,389,721,333	7.88	1.22	Banner Ridge Secondaries Fu
State Street All Cap	2,133,986,406	7.03	1.22	Arlington Capital Partners VI L
Internal Domestic Equity Quantamental	31,227	0.00	0.45	A&M Capital Partners III
Internal Domestic Equity Quantitative	95,165,818	0.31	1.32	Private Credit Composite
SPDR S&P 500 ETF Trust	160,537,882	0.53	1.21	BlackRock GCO Fund II LP
UW Portfolio Mgmt Program	2,257,206	0.01	0.80	Atalaya Asset Income Evergre
Small Cap US Equity Composite	575,065,060	1.90	7.93	AG Direct Lending Evergreen
√an Berkom	293,215,645	0.97	7.49	Ares Pathfinder Fund II
BlackRock Small Cap	469,476	0.00	9.07	KLCP Domestic III LP
Internal Small Cap Equity Quantamental	144,990,777	0.48	7.07	Strategic Value Capital Solution
nternal Small Cap Equity Quantitative	136,389,162	0.45	9.82	KKR US Direct Lending Everg
nt'l Equity Composite	3,643,376,784	12.01	1.81	Core Real Estate Composite
Northern Trust	1,768,183,494	5.83	2.56	Clarion Lion Properties LP
Arrowstreet	1,273,976,397	4.20	0.69	UBS Trumbull
Harding Loevner	389,697,566	1.28	1.99	Morgan Stanley Prime Proper
nternal International Equity ETF	57,876,366	0.19	2.55	Non-Core Real Estate Comp
nternal International Equity Quantatative	101,059,673	0.33	2.18	SC Core LP
nternal International Equity Quantamental	52,583,288	0.17	1.04	Realterm Logistics Income LP
Preferred Stock Composite	163	0.00	0.45	M&G Real Estate Debt III LP
Cohen & Steers Preferred Stock	163	0.00	0.45	Northwood Real Estate Partne
MLPs Composite	1,240,740,757	4.09	2.37	Hammes Partners IV LP
Harvest Fund Advisors	694,886,161	2.29	2.54	Infrastructure Composite
Harvest Fund Advisors Passive	545,854,596	1.80	2.16	Macquarie Infrastructure
Private Equity Composite	1,383,890,355	4.56	0.14	MGIF Co-Investment 3
Access Venture Partners II LP	236,773	0.00	N/A	Grosvenor Silvery Lupine Fun
Cheyenne Equity Capital LP	82,677,753	0.27	N/A	IFM Global Infrastructure
Hamilton Lane Wyoming Nowood LP	105,674,620	0.35	N/A	Diversified Hedge Funds Co
VB Sauger LP	118,485,452	0.39	N/A	PAAMCO - Jackalope Fund
BlackRock LTPC, L.P.	539,735,705	1.78	N/A	Grosvenor Diversified Hedge
/alor Equity Partners V LP	70,420,042	0.23	N/A	Internal Diversified Hedge Fu
GTCR Fund XIII	81,139,231	0.27	N/A	Core Fixed Income Compos
/eritas Capital Vantage Fund	22,401,803	0.07	N/A	Internal Intermediate Gov't Fix
/eritas Capital VIII LP	38,371,833	0.13	N/A	Payden & Rygel IGC
StepStone Fund V	45,252,317	0.15	N/A	JP Morgan MBS
Vautic Partners X LP	41,035,679	0.14	N/A	IShares Core US Agg Bond E
Dragoneer Opp Fund VI	16,905,878	0.06	N/A	PIMCO
Accel KKR Growth Capital Partners IV	12,097,483	0.04	N/A	SAP Treasury Composite
Morgan Stanley Ashbridge Secondaries II LP	68,922,695	0.23	N/A	Internal SAP Fixed Income Po
BVP Forge Institutional LP	34,680,890	0.11	N/A	

As of July 31, 2024

Asset Allocation	on & Performanc	e	
	Allocation		Performance (%
	Market Value (\$)	%	FYTD
Bessemer Venture Partners XII LP	3,084,292	0.01	N/A
Banner Ridge Secondaries Fund V	16,726,225	0.06	N/A
Arlington Capital Partners VI LP	58,682,750	0.19	N/A
A&M Capital Partners III	27,358,934	0.09	N/A
Private Credit Composite	489,065,026	1.61	0.00
BlackRock GCO Fund II LP	76,926,246	0.25	N/A
Atalaya Asset Income Evergreen LP	69,372,605	0.23	N/A
AG Direct Lending Evergreen LP	63,997,543	0.21	N/A
Ares Pathfinder Fund II	20,323,354	0.07	N/A
KLCP Domestic III LP	81,605,542	0.27	N/A
Strategic Value Capital Solutions Fund II	31,107,175	0.10	N/A
KKR US Direct Lending Evergreen Fund	145,732,560	0.48	N/A
Core Real Estate Composite	1,275,864,448	4.21	0.00
Clarion Lion Properties LP	683,276,580	2.25	0.00
UBS Trumbull	139,494,847	0.46	0.00
Morgan Stanley Prime Property LLC	453,093,022	1.49	0.00
Non-Core Real Estate Composite	595,292,272	1.96	-0.06
SC Core LP	95,393,923	0.31	N/A
Realterm Logistics Income LP	297,175,266	0.98	N/A
M&G Real Estate Debt III LP	1,589,789	0.01	N/A
Northwood Real Estate Partners IV LP	200,832,465	0.66	N/A
Hammes Partners IV LP	300,830	0.00	N/A
Infrastructure Composite	506,011,614	1.67	-0.01
Macquarie Infrastructure	222,501,238	0.73	0.00
MGIF Co-Investment 3	27,615,100	0.09	0.00
Grosvenor Silvery Lupine Fund Class E LLC	105,102,686	0.35	-0.98
IFM Global Infrastructure	150,792,590	0.50	0.65
Diversified Hedge Funds Composite	1,321,827,152	4.36	0.40
PAAMCO - Jackalope Fund	1,349	0.00	836.24
Grosvenor Diversified Hedge Funds	530,160,753	1.75	0.22
Internal Diversified Hedge Funds	791,665,049	2.61	0.53
Core Fixed Income Composite	3,763,935,533	12.41	2.39
Internal Intermediate Gov't Fixed Income	1,137,762,516	3.75	2.12
Payden & Rygel IGC	486,533,064	1.60	2.35
JP Morgan MBS	779,215,670	2.57	2.55
IShares Core US Agg Bond ETF	9,941	0.00	2.41
PIMCO	1,360,414,342	4.48	2.54
SAP Treasury Composite	4,815,709,726	15.87	0.93

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 06/30/2024. Investment manager fees are accounted for on a quarterly basis. Wyoming State Treasurer's Office fiscal year ends on June 30th. Fiscal year begins 7/1/2024.



Wyoming State Treasurer's Office

Asset Allocation, Performance & Schedule of Investable Assets

	Allocation		Performance (%
	Market Value (\$)	%	FYTD
Bank Loans Composite	685,197,742	2.26	0.64
Credit Suisse SMA	176,854,743	0.58	0.82
Octagon SMA	187,514,523	0.62	0.63
KKR	320,828,475	1.06	0.54
Emerging Market Debt Composite	102,572,720	0.34	1.81
Global Evolution	102,572,720	0.34	2.21
Global Evolution Hard	143,642,670	0.47	2.03
Goldman Sachs	205,965,050	0.68	1.37
Eaton Vance	274,703,354	0.91	1.11
Finisterre	259,337,796	0.85	1.99
Wellington	128,743,065	0.42	2.06
Long Duration Fixed Income Composite	778,548,086	2.57	3.46
Internal Long Duration Fixed Income	395,786,449	1.30	3.55
Metlife	382,761,637	1.26	3.37
Low Duration Fixed Income Composite	663,370,530	2.19	1.16
Low Duration Fixed Income	663,370,530	2.19	1.16
Grosvenor Silvery Lupine Fund	8,350,017	0.03	-0.02
Transition Low Duration Composite	1,564,017,206	5.16	0.98
PIMCO Transition Low Duration	1,564,017,206	5.16	0.98
Opportunistic Investments Composite	196,472,914	0.65	-0.10
Cash Equivalents	2,966,380,553	9.78	0.47
Public Purpose Investments	359,098,116	1.18	N/A

	Schedule of Investable Assets - Total Fund Composite Ex Public Purpose Investments								
Beginning MV (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending MV (\$)	Unit Value					
29,521,679,727	69,172,962	389,206,443	29,980,059,132	101.32					

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Wyoming State Treasurer's Office Permanent Funds

Performance

		Comparat	ive Perfori	mance						
	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years
Permanent Mineral Trust	1.4	1.4	1.4	7.3	11.1	5.5	8.1	6.4	7.2	6.4
PMTF - Total Fund Index	1.6	1.6	1.6	6.1	8.7	4.1	7.0	5.9	6.6	5.8
Difference	-0.2	-0.2	-0.2	1.2	2.4	1.4	1.1	0.5	0.6	0.6
70% MSCI ACW/30% B US Agg	1.8	1.8	1.8	9.6	13.4	3.3	7.9	6.8	7.8	6.9
Permanent Land Fund	1.4	1.4	1.4	7.4	11.4	6.0	8.4	6.5	7.2	N/A
PLF - Total Fund Index	1.6	1.6	1.6	6.1	8.7	4.1	7.0	5.9	6.5	N/A
Difference	-0.2	-0.2	-0.2	1.3	2.7	1.9	1.4	0.6	0.7	N/A
University PLF	1.3	1.3	1.3	6.9	10.4	5.7	8.1	6.6	7.2	N/A
University PLF - Total Fund Index	1.6	1.6	1.6	6.1	8.7	4.1	6.9	6.1	6.7	N/A
Difference	-0.3	-0.3	-0.3	0.8	1.7	1.6	1.2	0.5	0.5	N/A
Hathaway Scholarship	1.2	1.2	1.2	7.0	11.2	6.6	8.7	6.5	7.0	N/A
Hathaway - Total Fund Index	1.6	1.6	1.6	6.1	8.7	4.1	7.0	5.7	6.2	N/A
Difference	-0.4	-0.4	-0.4	0.9	2.5	2.5	1.7	0.8	0.8	N/A
Common School PLF	1.5	1.5	1.5	7.0	10.7	4.8	6.5	5.6	6.7	6.1
Common School - Total Fund Index	1.7	1.7	1.7	5.9	8.6	3.9	5.5	5.2	6.2	5.4
Difference	-0.2	-0.2	-0.2	1.1	2.1	0.9	1.0	0.4	0.5	0.7
Higher Education	1.5	1.5	1.5	6.9	10.5	4.9	6.3	5.3	6.2	N/A
Higher Education - Total Fund Index	1.7	1.7	1.7	5.9	8.6	3.9	5.5	5.0	5.7	N/A
Difference	-0.2	-0.2	-0.2	1.0	1.9	1.0	0.8	0.3	0.5	N/A
Workers Compensation Fund	2.1	2.1	2.1	3.3	6.9	-0.3	4.0	4.2	5.2	5.0
Workers Comp - Total Fund Index	2.3	2.3	2.3	2.9	6.1	-0.8	3.2	3.9	4.7	4.6
Difference	-0.2	-0.2	-0.2	0.4	0.8	0.5	0.8	0.3	0.5	0.4
Workers Compensation Long-Term Reserve	1.0	1.0	1.0	6.7	10.0	N/A	N/A	N/A	N/A	N/A
Workers Comp Reserve Assets Target Allocation Index	1.5	1.5	1.5	6.4	8.4	N/A	N/A	N/A	N/A	N/A
Difference	-0.5	-0.5	-0.5	0.3	1.6	N/A	N/A	N/A	N/A	N/A
Workers Compensation Liability Hedging Assets	3.0	3.0	3.0	0.7	4.4	N/A	N/A	N/A	N/A	N/A
Workers Comp Liability Hedging Assets Index	2.9	2.9	2.9	0.3	4.2	-5.1	-0.6	1.8	3.3	3.9
Difference	0.1	0.1	0.1	0.4	0.2	N/A	N/A	N/A	N/A	N/A

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Wyoming State Treasurer's Office Non-Permanent Funds Performance

		C	omparative	e Performar	nce					
	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years
LSRA Total Fund	1.6	1.6	1.6	5.1	8.8	2.4	3.8	N/A	N/A	N/A
LSRA - Total Fund Index	1.7	1.7	1.7	4.6	8.1	1.9	3.5	N/A	N/A	N/A
Difference	-0.1	-0.1	-0.1	0.5	0.7	0.5	0.3	N/A	N/A	N/A
LSRA Long Term Reserve	1.5	1.5	1.5	11.7	16.4	7.9	9.6	N/A	N/A	N/A
LSRA LT Reserve - Total Fund Index	2.0	2.0	2.0	10.8	15.1	7.1	9.3	N/A	N/A	N/A
Difference	-0.5	-0.5	-0.5	0.9	1.3	0.8	0.3	N/A	N/A	N/A
LSRA Int Term Reserve	2.4	2.4	2.4	2.3	5.9	-2.6	0.5	N/A	N/A	N/A
LSRA IT Reserve - Total Fund Index	2.3	2.3	2.3	1.6	5.1	-2.6	0.2	N/A	N/A	N/A
Difference	0.1	0.1	0.1	0.7	0.8	0.0	0.3	N/A	N/A	N/A
LSRA Short Term Reserve	1.2	1.2	1.2	2.4	5.6	1.3	N/A	N/A	N/A	N/A
LSRA ST Reserve - Total Fund Index	1.2	1.2	1.2	2.4	5.4	0.7	N/A	N/A	N/A	N/A
Difference	0.0	0.0	0.0	0.0	0.2	0.6	N/A	N/A	N/A	N/A
Pool A	1.8	1.8	1.8	6.1	9.6	3.2	5.2	4.0	4.4	4.6
Pool A - Total Fund Index	1.7	1.7	1.7	4.4	7.0	2.1	4.1	3.5	3.8	4.1
Difference	0.1	0.1	0.1	1.7	2.6	1.1	1.1	0.5	0.6	0.5
State Agency Pool	0.9	0.9	0.9	2.5	5.3	1.4	1.6	2.0	2.8	3.4
State Agency Pool - AA Index	1.0	1.0	1.0	2.5	5.4	1.4	1.6	2.0	2.6	3.2
Difference	-0.1	-0.1	-0.1	0.0	-0.1	0.0	0.0	0.0	0.2	0.2

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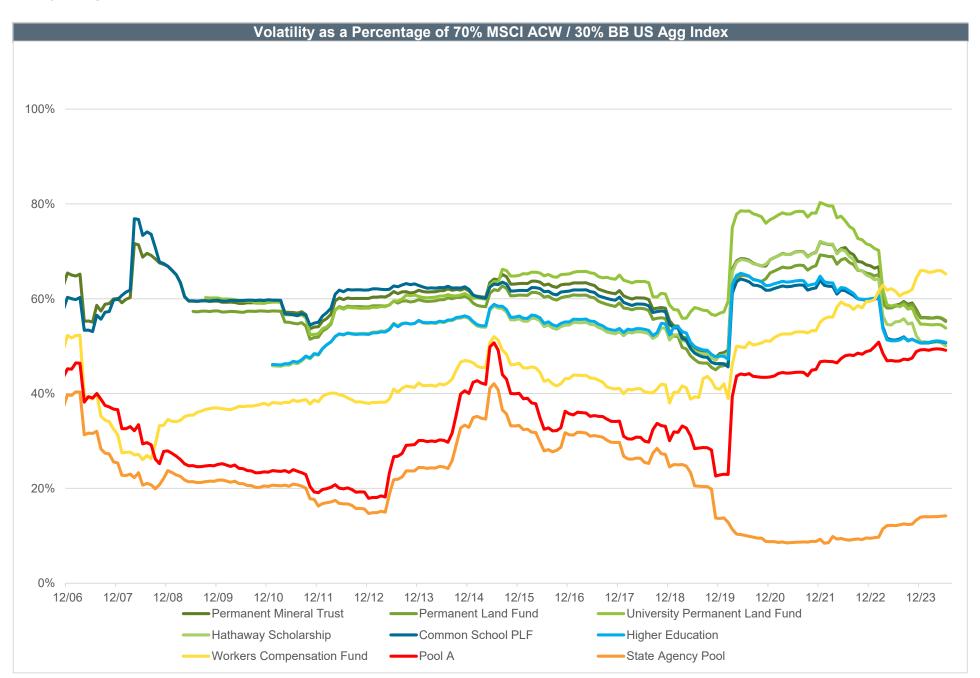


Wyoming State Treasurer's Office



Performance shown is net of fees and excludes Public Purpose Investments (PPIs) and operational cash. Calculation is based on monthly periodicity.





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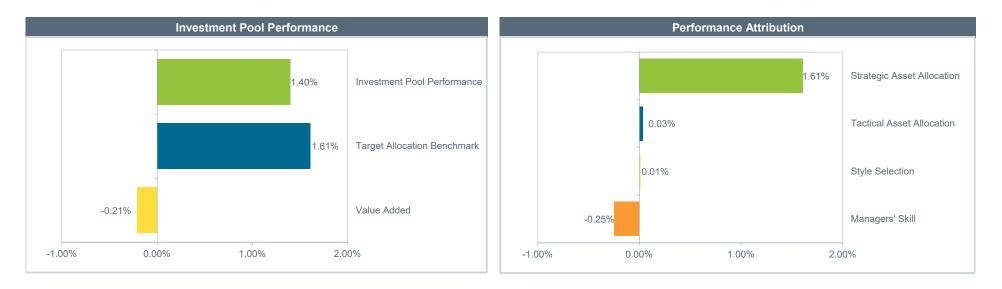
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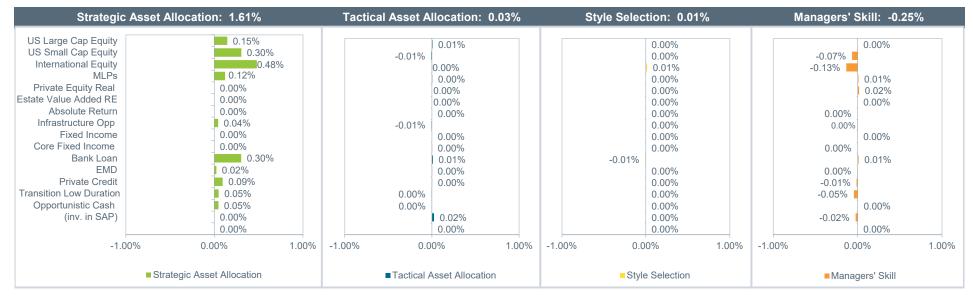


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Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Permanent Mineral Trust Fund vs. Target Allocation Index FYTD Ending July 31, 2024





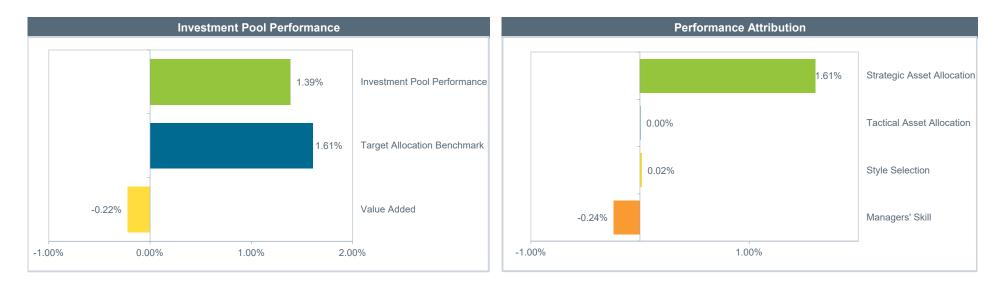
Attribution shown is calculated using the Investment Decision Process (IDP) method. Performance shown is net of fees. Calculation is based on monthly periodicity.

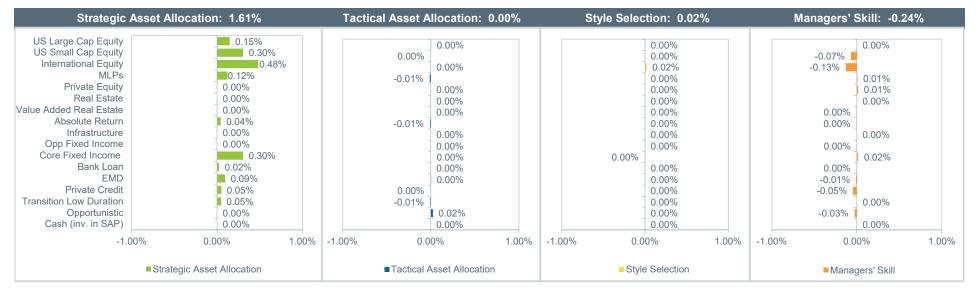
The benchmark utilized in this analysis is a passive target allocation index rather than an active actual allocation index.

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 7/1/2024.



Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Permanent Land Fund vs. Target Allocation Index FYTD Ending July 31, 2024





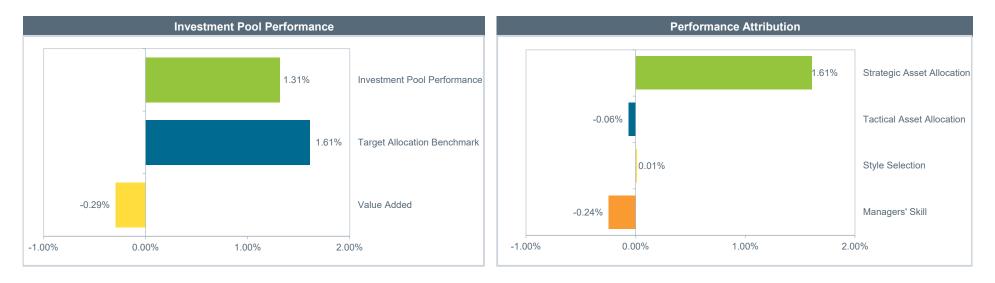
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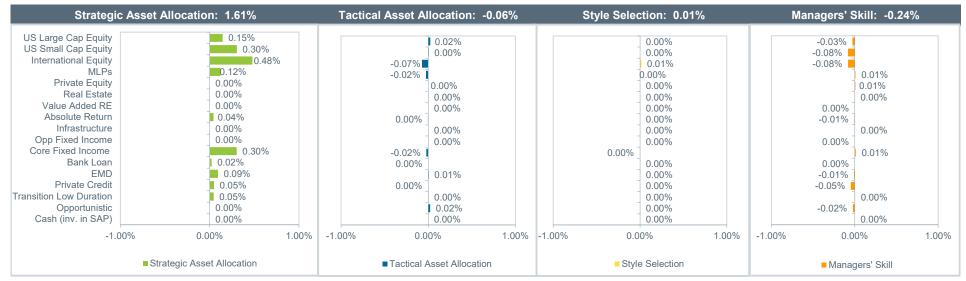
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Actual Allocation Index = Target Allocation Benchmark + Tactical Asset Allocation. The underlying parts may not exactly sum to the category totals due to rounding. FY begins 7/1/2024.



Wyoming State Treasurer's Office Pool Attribution - IDP Methodology University Permanent Land Fund vs. Target Allocation Index FYTD Ending July 31, 2024

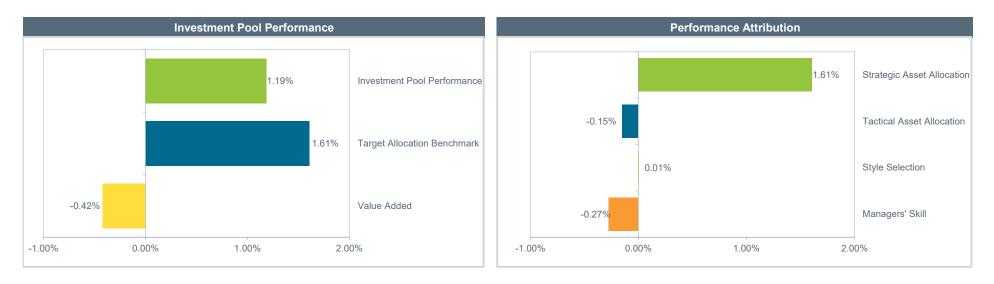


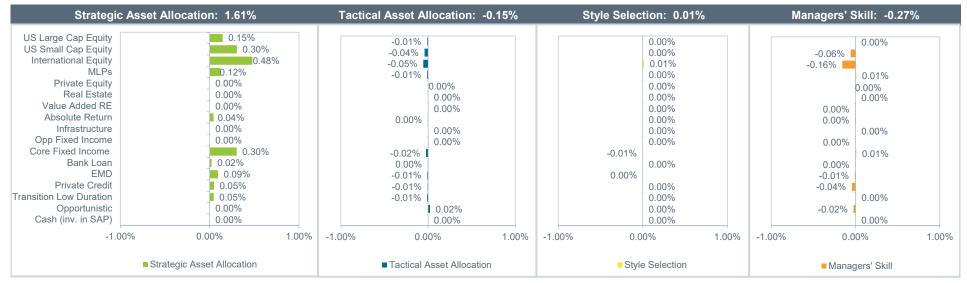


Attribution shown is calculated using the Investment Decision Process (IDP) method. Performance shown is net of fees. Calculation is based on monthly periodicity. The benchmark utilized in this analysis is a passive target allocation index rather than an active actual allocation index. Actual Allocation Index = Target Allocation Benchmark + Tactical Asset Allocation. The underlying parts may not exactly sum to the category totals due to rounding. FY begins 7/1/2024.



Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Hathaway Scholarship Endowment Fund vs. Target Allocation Index FYTD Ending July 31, 2024

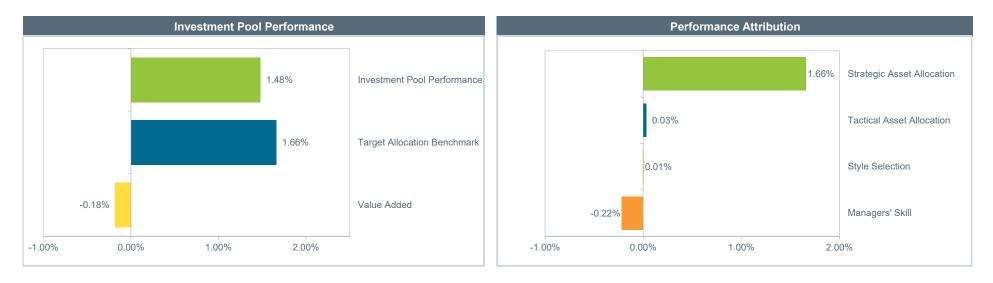


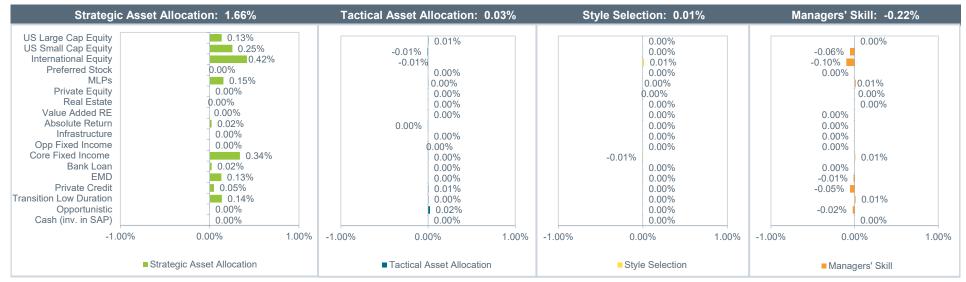


Attribution shown is calculated using the Investment Decision Process (IDP) method. Performance shown is net of fees. Calculation is based on monthly periodicity. The benchmark utilized in this analysis is a passive target allocation index rather than an active actual allocation index. Actual Allocation Index = Target Allocation Benchmark + Tactical Asset Allocation. The underlying parts may not exactly sum to the category totals due to rounding. FY begins 7/1/2024.



Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Common School Permanent Land Fund vs. Target Allocation Index FYTD Ending July 31, 2024

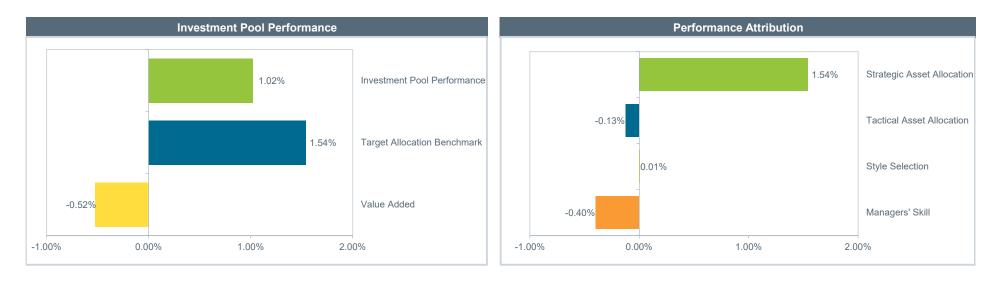


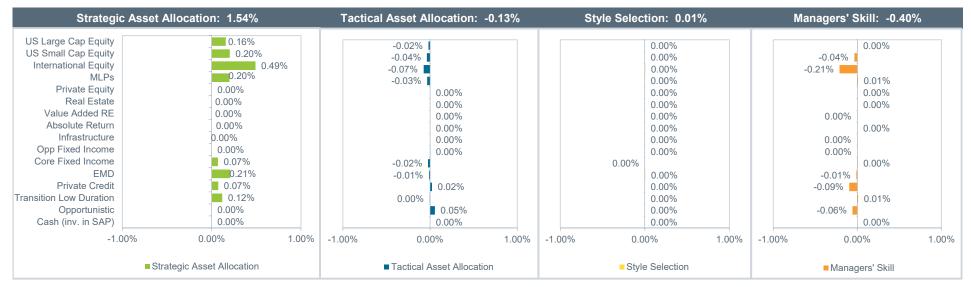


Attribution shown is calculated using the Investment Decision Process (IDP) method. Performance shown is net of fees. Calculation is based on monthly periodicity. The benchmark utilized in this analysis is a passive target allocation index rather than an active actual allocation index. Actual Allocation Index = Target Allocation Benchmark + Tactical Asset Allocation. The underlying parts may not exactly sum to the category totals due to rounding. FY begins 7/1/2024.



Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Workers' Compensation Long-Term Reserve Fund vs. Target Allocation Index FYTD Ending July 31, 2024

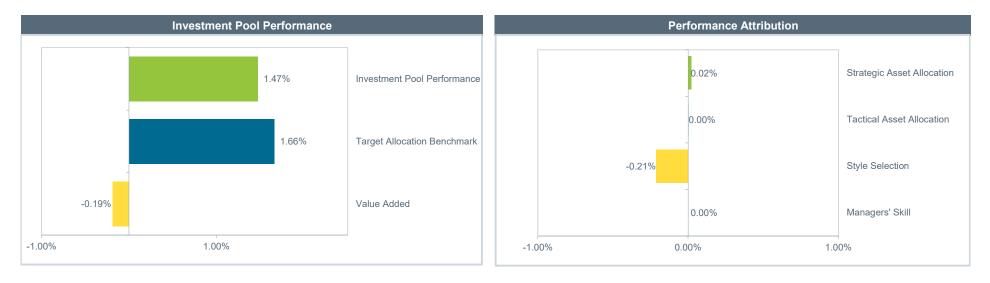




Attribution shown is calculated using the Investment Decision Process (IDP) method. Performance shown is net of fees. Calculation is based on monthly periodicity. The benchmark utilized in this analysis is a passive target allocation index rather than an active actual allocation index. Actual Allocation Index = Target Allocation Benchmark + Tactical Asset Allocation. The underlying parts may not exactly sum to the category totals due to rounding. FY begins 7/1/2024.



Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Higher Education Endowment Fund vs. Target Allocation Index FYTD Ending July 31, 2024

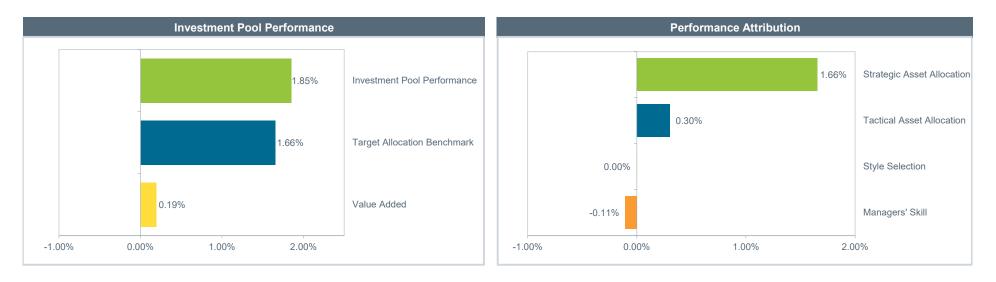


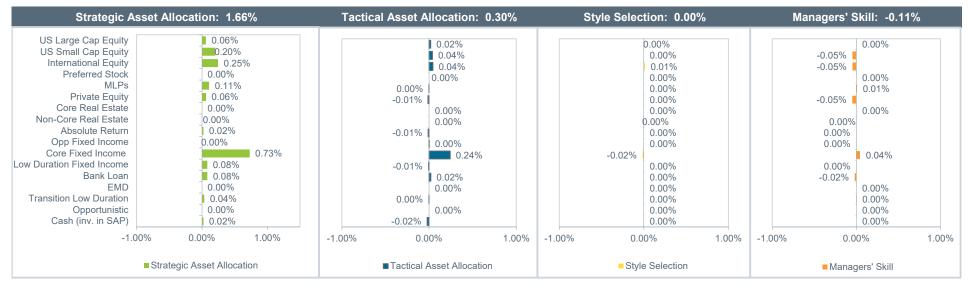
Strategic Asset	Allocation: 0.02%	Tactica	al Asset Allocation:	0.00%	St	yle Selection: -0.21	%	Mai	nagers' Skill: 0.00	%
US Large Cap Equity US Small Cap Equity International Equity Preferred Stock MLPs Private Equity Real Estate Value Added RE Absolute Return Infrastructure Opp Fixed Income Core Fixed Income Bank Loan EMD Private Credit Transition Low Duration Opportunistic Cash (inv. in SAP)	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%			0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%			0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	
-1.00%	0.00% 1.00%	-1.00%	0.00%	1.00%	-1.00%	0.00%	1.00%	-1.00%	0.00%	1.00%
■ St	rategic Asset Allocation	■ Tactical Asset Allocation			Style Selection			■ Managers' Skill		

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 7/1/2024.



Wyoming State Treasurer's Office Pool Attribution - IDP Methodology Pool A vs. Target Allocation Index FYTD Ending July 31, 2024

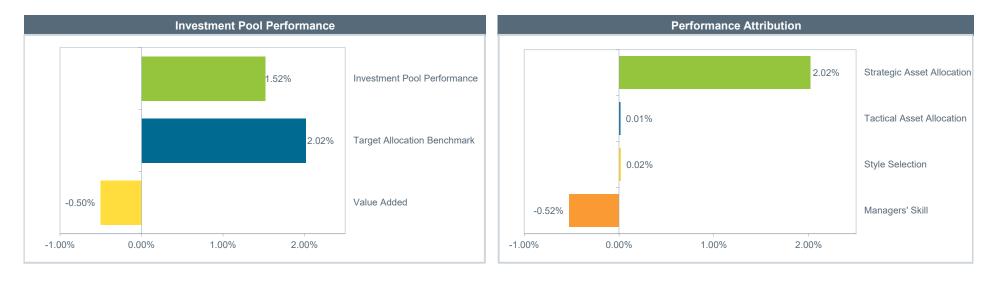


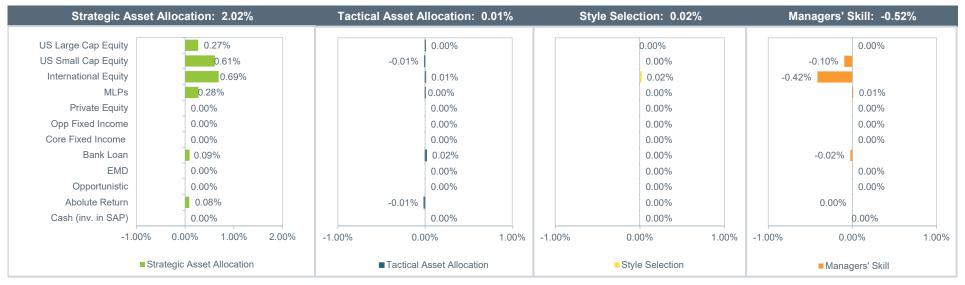


Attribution shown is calculated using the Investment Decision Process (IDP) method. Performance shown is net of fees. Calculation is based on monthly periodicity. The benchmark utilized in this analysis is a passive target allocation index rather than an active actual allocation index. Actual Allocation Index = Target Allocation Benchmark + Tactical Asset Allocation. The underlying parts may not exactly sum to the category totals due to rounding. FY begins 7/1/2024.



Wyoming State Treasurer's Office Pool Attribution - IDP Methodology LSRA LT Reserve vs. Target Allocation Index FYTD Ending July 31, 2024





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 7/1/2024.



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

			P	ermanent	Mineral T	rust Ex PPI				
	Allocation (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)	Broad US Equity –		0.1%		
Permanent Mineral Trust Ex. PPI	11,411,830	100.0	-	100.0	-	Small Cap US Equity – International Equity –		0.0%		
Broad US Equity	1,380,123	12.1	6.0	12.0	18.0	MLPs –	-0.7 %	%).0%		
Small Cap US Equity	341,829	3.0	1.5	3.0	4.5	Private Equity -		0.5%	, D	
International Equity	2,149,608	18.8	9.8	19.5	29.3	Core Real Estate –	-0.5		-	
MLPs	626,529	5.5	2.8	5.5	8.3	Non-Core Real Estate –	-2.4 %			
Private Equity	1,193,284	10.5	5.0	10.0	15.0	Infrastructure –		0.6%	6	
Core Real Estate	625,486	5.5	3.0	6.0	9.0	Diversified Hedge Funds -	-1.6 %			
Non-Core Real Estate	348,146	3.1	2.8	5.5	8.3	Core Fixed Income		0.1%		
Infrastructure	179,312	1.6	0.5	1.0	1.5	Bank Loans –	-0.7	1 %		
Diversified Hedge Funds	907,220	7.9	4.8	9.5	14.3	Opportunistic Fixed Income – EMD –	-0	0.0%		
Core Fixed Income	1,489,754	13.1	6.5	13.0	19.5	Transition Low Duration –	-0.5	1		
Bank Loans	326,035	2.9	1.5	3.0	4.5	Private Credit –	0.0	0.2%		
Opportunistic Fixed Income	2,671	0.0	0.0	0.0	5.0	Opportunistic Investments –			0%	
EMD	560,076	4.9	2.5	5.0	7.5	Cash (inv. in SAP) –			3.69	%
Transition Low Duration	518,545	4.5	2.5	5.0	7.5	-6.0 %	-3.0 %	0.0%	3.0%	6.0%
Private Credit	247,436	2.2	1.0	2.0	3.0	-0.0 %	-3.0 %	0.0%	3.0%	0.0%
Opportunistic Investments	108,667	1.0	0.0	0.0	5.0		Allocation Diffe	rences		
Cash (inv. in SAP)	407,109	3.6	0.0	0.0	5.0		, aloouton billo	1011000		

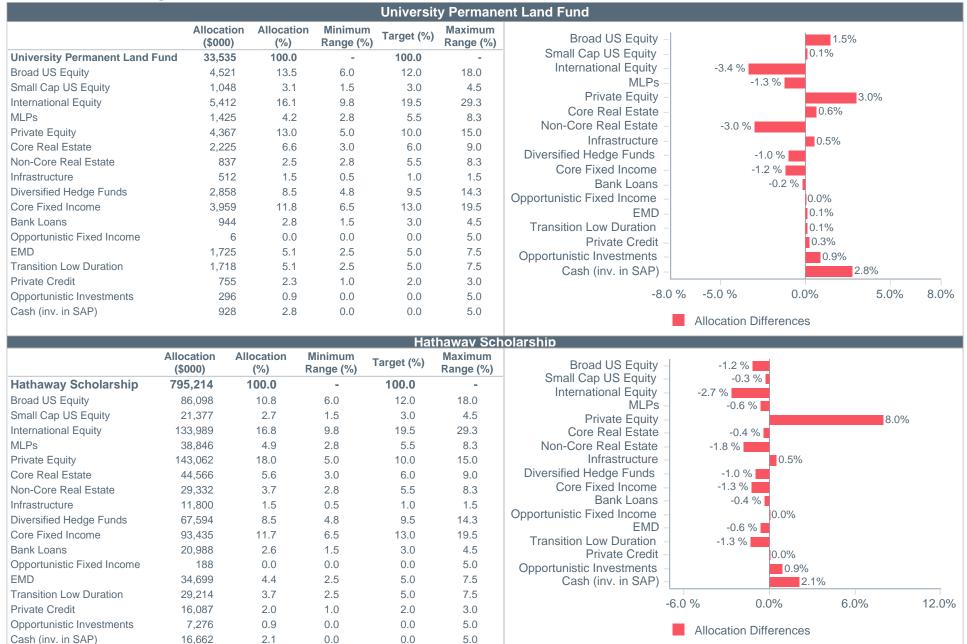
Permanent Land Fund

	Allocation (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)	Broad US Equity -	0.0%			
Permanent Land Fund	310,148	100.0	-	100.0	-	Small Cap US Equity –	0.4.0/	0.1%		
Broad US Equity	37,177	12.0	6.0	12.0	18.0	International Equity – MLPs –	-0.4 % -0.7 %			
Small Cap US Equity	9,580	3.1	1.5	3.0	4.5	Private Equity –	-0.7 %		3.9%	
International Equity	59,182	19.1	9.8	19.5	29.3	Core Real Estate –	-0.8 %		0.070	
MLPs	15,013	4.8	2.8	5.5	8.3	Non-Core Real Estate –	-2.8 %			
Private Equity	43,178	13.9	5.0	10.0	15.0	Infrastructure -		0.5%		
Core Real Estate	16,145	5.2	3.0	6.0	9.0	Diversified Hedge Funds –	-2.3 %			
Non-Core Real Estate	8,522	2.7	2.8	5.5	8.3	Core Fixed Income –	-0.1 %	•		
Infrastructure	4,701	1.5	0.5	1.0	1.5	Bank Loans –	-0.1 %	1		
Diversified Hedge Funds	22,484	7.2	4.8	9.5	14.3	Private Credit –		0.2%		
Core Fixed Income	39,981	12.9	6.5	13.0	19.5	Opportunistic Fixed Income – EMD –		0.0%		
Bank Loans	9,050	2.9	1.5	3.0	4.5	Transition Low Duration	-0.9 %	0.1%		
Private Credit	6,673	2.2	1.0	2.0	3.0	Opportunistic Investments –	-0.9 /0	1.0%		
Opportunistic Fixed Income	57	0.0	0.0	0.0	5.0	Cash (inv. in SAP) –			2%	
EMD	15,745	5.1	2.5	5.0	7.5				1	í –
Transition Low Duration	12,715	4.1	2.5	5.0	7.5	-6.0 %	-3.0 % 0.	0% 3	.0% 6.0)%
Opportunistic Investments	3,104	1.0	0.0	0.0	5.0	_	Allocation Differen			
Cash (inv. in SAP)	6,841	2.2	0.0	0.0	5.0	-	Allocation Difference	jes		

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 3/1/2024 interim targets. Pool allocations shown are based on 6/30/2024 allocations.



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



Allocations shown may not sum up to 100% exactly due to rounding. Asset class targets shown represent 3/1/2024 interim targets. Pool allocations shown are based on 6/30/2024 allocations.



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

				Comm	on School	PLF Ex. PPI				
	Allocation (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)	Broad US Equity -		0.2%)	
Common School PLF Ex. PP	I 5,423,726	100.0	-	100.0	-	Small Cap US Equity -		0.0%		
Broad US Equity	609,142	11.2	5.5	11.0	16.5	International Equity –	-0.8	5 %		
Small Cap US Equity	137,179	2.5	1.3	2.5	3.8	 Preferred Stock – MLPs – 		0.0%		
International Equity	897,304	16.5	8.5	17.0	22.5	Private Equity –		0.1%		
Preferred Stock	-	0.0	0.0	0.0	0.5	Core Real Estate –	-2.6 %	0.078		
MLPs	384,053	7.1	3.5	7.0	10.5	Non-Core Real Estate -	-1.2 %			
Private Equity	-	0.0	0.0	0.0	0.0	Infrastructure -			1.6%	
Core Real Estate	426,528	7.9	5.3	10.5	15.8	Diversified Hedge Funds -	-0.7	%		
Non-Core Real Estate	127,445	2.3	1.8	3.5	5.3	Core Fixed Income –		0.0%		
Infrastructure	196,557	3.6	1.0	2.0	3.0	Bank Loans –		-0.1 %		
Diversified Hedge Funds	232,306	4.3	2.5	5.0	7.5	Opportunistic Fixed Income -		0.0%		
Core Fixed Income	787,995	14.5	7.3	14.5	21.8	EMD -		-0.1 %		
Bank Loans	158,941	2.9	1.5	3.0	4.5	Transition Low Duration -		0.2%		
Opportunistic Fixed Income	1,169	0.0	0.0	0.0	5.0	 Private Credit – Opportunistic Investments –).8% 0.9%	
EMD	376,788	6.9	3.5	7.0	10.5	Cash (inv. in SAP) –			1.2%	
Transition Low Duration	822,676	15.2	7.5	15.0	22.5				1.2/0	1
Private Credit	150,232	2.8	1.0	2.0	3.0	-4.0	-2.0 %	0.0%	2.0%	4.0%
Opportunistic Investments	49,727	0.9	0.0	0.0	5.0		_			
Cash (inv. in SAP)	65,684	1.2	0.0	0.0	5.0		Allocation Diffe	erences		
					Hiaher Edu	cation				
A			Minimum .	Target (%)	Maximum	Broad US Equity -	I	-0.1 %		
	(\$000)	. ,	Range (%)		Range (%)	Small Cap US Equity –		0.0%		
Higher Education	146,804	100.0	-	100.0	-	International Equity –	-0	.3 %		
Broad US Equity	16,060	10.9	5.5	11.0	16.5	Preferred Stock -	-	0.0%		
Small Cap US Equity	3,743	2.5	1.3	2.5	3.8	MLPs -		0.1%		
International Equity Preferred Stock	24,450	16.7 0.0	8.5 0.0	17.0 0.0	25.5 0.5	Private Equity -		0.0%		
MLPs	- 10,479	7.1	3.5	7.0	10.5	Core Real Estate -	-1.6 %			
Private Equity	-	0.0	0.0	0.0	0.0	 Non-Core Real Estate – Infrastructure – 	-1.2 %		1.6%	
Core Real Estate	13,116	8.9	5.3	10.5	15.8	Diversified Hedge Funds –	-0.9 %		1.070	
Non-Core Real Estate	3,360	2.3	1.8	3.5	5.3	Core Fixed Income –		0.2%		
Infrastructure	5,255	3.6	1.0	2.0	3.0	Bank Loans -		0.0%		
Diversified Hedge Funds	5,996	4.1	2.5	5.0	7.5	Opportunistic Fixed Income -		0.0%		
Core Fixed Income	21,576	14.7	7.3	14.5	21.8	EMD -		0.0%		
Bank Loans	4,409	3.0	1.5	3.0	4.5	Transition Low Duration –		-0.1 %		
Opportunistic Fixed Income	39	0.0	0.0	0.0	5.0	 Private Credit – Opportunistic Investments – 	-	·0.1 %	1.0%	
EMD Transition Law Duration	10,314	7.0	3.5	7.0	10.5 22.5	Cash (inv. in SAP) –			1.3%	
Transition Low Duration Private Credit	21,938 2,780	14.9 1.9	7.5 1.0	15.0 2.0	3.0	, , , , , , , , , , , , , , , , , , , ,				
Opportunistic Investments	2,780	1.9	0.0	2.0	3.0 5.0	-4.0)% -2.0%	0.0%	2.0%	4.0%
	.,		0.0	0.0	0.0					
Cash (inv. in SAP)	1,844	1.3	0.0	0.0	5.0		Allocation Diffe	rences		

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 3/1/2024 interim targets. Pool allocations shown are based on 6/30/2024 allocations.



Wyoming State Treasurer's Office

Permanent Funds - Workers' Compensation Fund

Asset Allocation vs. Target

	Total Workers' Compensation	
	Asset Allocation (\$000)	Asset Allocation (%)
Workers Compensation Fund	2,645,071	100.00
Broad US Equity	127,277	4.81
Small Cap US Equity	19,407	0.73
International Equity	188,131	7.11
MLPs	82,936	3.14
Core Real Estate	137,222	5.19
Non-Core Real Estate	67,294	2.54
Infrastructure	107,873	4.08
Liability Driven Fixed Income	1,462,298	55.28
Opportunistic Fixed Income	8	0.00
EMD	115,619	4.37
Transition Low Duration	138,364	5.23
Private Credit	54,069	2.04
Opportunistic Investments	25,960	0.98
Cash (inv. in SAP)	87,399	3.30

Allocations shown may not sum up to 100% exactly due to rounding. Pool allocations shown are based on 6/30/2024 allocations.



Wyoming State Treasurer's Office

Permanent Funds - Workers' Compensation Fund Asset Allocation vs. Target

	Workers	Comp Long-Term R	eserve		
	Asset Allocation (\$000)	Asset Allocation (%)	Minimum Allocation (%)	Target Allocation (%)	Maximum Allocation (%)
Workers Comp Long-Term Reserve	1,132,583	100.00	-	100.00	-
Broad US Equity	127,277	11.24	6.50	13.00	19.50
Small Cap US Equity	19,407	1.71	1.00	2.00	3.00
International Equity	188,131	16.61	10.00	20.00	30.00
Private Equity	-	0.00	0.00	0.00	1.00
Private Credit	54,069	4.77	1.50	3.00	4.50
MLP	82,936	7.32	4.50	9.00	13.50
Opportunistic Investments	25,960	2.29	0.00	0.00	2.00
Infrastructure	107,873	9.52	1.50	3.00	4.50
Real Estate Core	137,222	12.12	5.50	11.00	16.50
Real Estate Value Added	67,294	5.94	4.50	9.00	13.50
Core Fixed Income	37,209	3.29	1.50	3.00	4.50
EMD	115,619	10.21	5.50	11.00	16.50
Opportunistic Fixed Income	8	0.00	0.00	0.00	1.00
Transition Low Duration Fixed Income	138,364	12.22	6.50	13.00	19.50
Bank Loans	31,213	2.76	1.50	3.00	4.50
Cash (inv. in SAP)	-	0.00	0.00	0.00	1.00

	Workers' Com	p Liability Hedging	Assets		
	Asset Allocation (\$000)	Asset Allocation (%)	Minimum Allocation (%)	Target Allocation (%)	Maximum Allocation (%)
Workers Comp Liability Hedging Assets	1,425,088	100.00	-	100.00	-
Liability Driven Fixed Income	1,425,088	100.00	0.00	100.00	100.00

Allocations shown may not sum up to 100% exactly due to rounding. Pool allocations shown are based on 6/30/2024 allocations.



		Total LSRA						
		Asset		Ass	et			
		Allocatio		Alloca				
		(\$000)		(%)				
LSRA		1,579,92		100.0				
Broad US Equity		99,54		6.3				
Small Cap US Equity		28,24		1."				
nternational Equity		125,75		7.9				
Core Fixed Income		432,81		27.3	39			
Bank Loans		64,92	27	4.11				
_ow Duration Fixed Income		630,94		39.9				
Private Equity			0.0					
MLPs		56,56	64	3.4				
Diversified Hedge Funds		70,82		4.4				
Opportunistic Investments			-	0.0				
Cash (inv. in SAP)		70,30)7		45			
		LSRA Long Term Res	serve					
	Asset	Asset	Minimum	Target	Maximum			
	Allocation		Allocation	Allocation	Allocation			
	(\$000)	(%)	(%)	(%)	(%)			
SRA Long Term Reserve	516,171	100.00	-	100.00	-			
Broad US Equity	99,545	19.29	17.00	22.00	27.00			
Small Cap US Equity	28,244	5.47	4.00	6.00	8.00			
nternational Equity	125,757	24.36	21.00	28.00	35.00			
Bank Loans	64,927	12.58	10.00	12.50	15.00			
Private Equity	-	0.00	0.00	0.00	0.00			
MLPs	56,564	10.96	10.00	12.50	15.00			
Diversified Hedge Funds	70,826	13.72	15.00	19.00	23.00			
Opportunistic Investments	-	0.00	0.00	0.00	0.00			
Cash (inv. in SAP)	70,307	13.62	0.00	0.00	0.00			
	L	SRA Intermediate Term	Reserve					
	Asset Allocation (\$000)	Asset Allocation (%)	Minimum Allocation (%)	Target Allocation (%)	Maximum Allocation (%)			
SRA Intermediate Term Reserve	432,818	100.00	(70)	100.00				
Core Fixed Income	432,818	100.00	100.00	100.00	100.00			
		LSRA Short Term Res						
	Asset	Asset	Minimum	Target	Maximum			
	Allocation (\$)	Allocation (%)	Allocation (%)	Allocation (%)	Allocation (%)			
LSRA Short Term Reserve	630,940,210	100.00	-	100.00	-			
Low Duration Fixed Income	630,940,210	100.00	100.00	100.00	100.00			

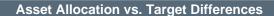
Allocations shown may not sum up to 100% exactly due to rounding. The Total LSRA pool has no target allocation. Pool allocations shown are based on 6/30/2024 allocations.

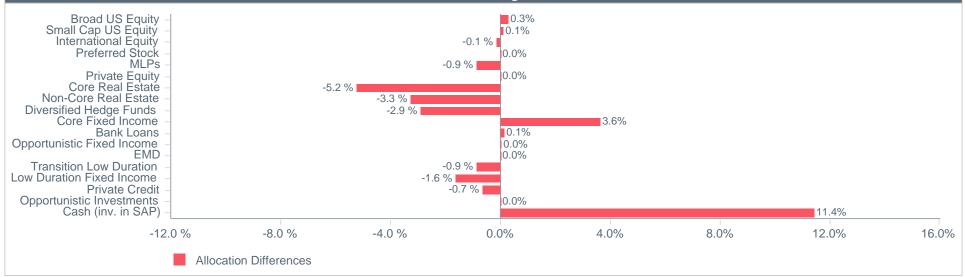


Wyoming State Treasurer's Office

Non-Permanent Funds - Pool A Investment Account Asset Allocation vs. Target

Asset Allocation vs. Target											
	Allocation (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)						
Pool A	603,722	100.00	-	100.00	-						
Broad US Equity	32,037	5.31	2.50	5.00	7.50						
Small Cap US Equity	12,657	2.10	1.00	2.00	3.00						
International Equity	59,543	9.86	5.00	10.00	15.00						
Preferred Stock	-	0.00	0.00	0.00	0.50						
MLPs	24,895	4.12	2.50	5.00	7.50						
Private Equity	-	0.00	0.00	0.00	0.00						
Core Real Estate	10,576	1.75	3.50	7.00	10.50						
Non-Core Real Estate	10,357	1.72	2.50	5.00	7.50						
Diversified Hedge Funds	12,544	2.08	2.50	5.00	7.50						
Core Fixed Income	210,669	34.90	15.63	31.25	46.88						
Bank Loans	68,690	11.38	5.63	11.25	16.88						
Opportunistic Fixed Income	176	0.03	0.00	0.00	5.00						
EMD	-	0.00	0.00	0.00	0.00						
Transition Low Duration	18,847	3.12	2.00	4.00	6.00						
Low Duration Fixed Income	32,430	5.37	3.50	7.00	10.50						
Private Credit	11,033	1.83	1.25	2.50	3.75						
Opportunistic Investments	-	0.00	0.00	0.00	5.00						





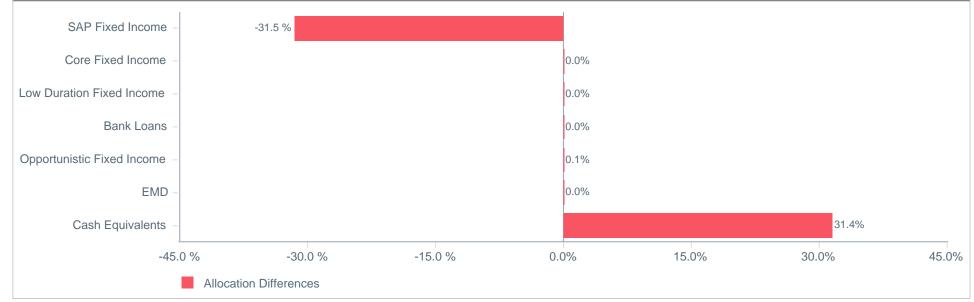
Allocations shown may not sum up to 100% exactly due to rounding. Asset class targets shown represent 3/1/2024 interim targets. Pool allocations shown are based on 6/30/2024 allocations.



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

	Asset Allocation vs. Target												
	Allocation (\$000)	Allocation (%)	Minimum Range (%)	Target (%)	Maximum Range (%)								
State Agency Pool Excluding PPI	7,030,081	100.00	-	100.00	-								
SAP Fixed Income	4,815,710	68.50	100.00	100.00	100.00								
Core Fixed Income	-	0.00	0.00	0.00	0.00								
Low Duration Fixed Income	-	0.00	0.00	0.00	0.00								
Bank Loans	-	0.00	0.00	0.00	0.00								
Opportunistic Fixed Income	4,035	0.06	0.00	0.00	0.00								
EMD	-	0.00	0.00	0.00	0.00								
Cash Equivalents	2,210,337	31.44	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 6/30/2024 allocations.



	Allocation	1		Performance (%)									
	Market Value (\$) (\$)	%	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
All Cap US Equity Composite	2,389,721,333	7.88	1.22	1.22	1.22	16.77	22.18	9.44	14.56	13.41	-	12.84	11/01/2014
All Cap US Equity Custom Index			1.22	1.22	1.22	16.70	22.15	9.60	14.86	13.93	12.89	12.70	
Difference			0.00	0.00	0.00	0.07	0.03	-0.16	-0.30	-0.52	-	0.14	
State Street All Cap	2,133,986,406	7.03	1.22	1.22	1.22	16.66	22.07	9.55	14.65	13.66	-	12.39	01/01/2015
State Street All Cap Custom Index			1.22	1.22	1.22	16.70	22.15	9.60	14.68	13.65	12.66	12.41	
Difference			0.00	0.00	0.00	-0.04	-0.08	-0.05	-0.03	0.01	-	-0.02	
Internal Domestic Equity Quantitative	95,165,818	0.31	1.32	1.32	1.32	19.66	25.53	10.53	-	-	-	11.08	06/01/2021
S&P 500 Index (Cap Wtd)			1.22	1.22	1.22	16.70	22.15	9.60	15.00	14.14	13.15	10.68	
Difference			0.10	0.10	0.10	2.96	3.38	0.93	-	-	-	0.40	
SPDR S&P 500 ETF Trust	160,537,882	0.53	1.21	1.21	1.21	16.66	22.23	-	-	-	-	21.47	12/01/2022
S&P 500 Index (Cap Wtd)			1.22	1.22	1.22	16.70	22.15	9.60	15.00	14.14	13.15	21.78	
Difference			-0.01	-0.01	-0.01	-0.04	0.08	-	-	-	-	-0.31	
UW Portfolio Mgmt Program	2,257,206	0.01	0.80	0.80	0.80	14.02	16.59	6.73	11.25	10.32	10.34	5.62	04/01/2006
S&P 500 Index (Cap Wtd)			1.22	1.22	1.22	16.70	22.15	9.60	15.00	14.14	13.15	10.39	
Difference			-0.42	-0.42	-0.42	-2.68	-5.56	-2.87	-3.75	-3.82	-2.81	-4.77	
Small Cap US Equity Composite	575,065,060	1.90	7.93	7.93	7.93	8.29	12.45	3.94	9.60	7.79		7.39	11/01/2014
Russell 2000 Index			10.16	10.16	10.16	12.07	14.25	1.85	8.91	8.22	8.72	8.40	
Difference			-2.23	-2.23	-2.23	-3.78	-1.80	2.09	0.69	-0.43	-	-1.01	
Van Berkom	293,215,645	0.97	7.49	7.49	7.49	5.09	10.10	4.70	-	-	-	11.30	03/01/2020
Russell 2000 Index			10.16	10.16	10.16	12.07	14.25	1.85	8.91	8.22	8.72	11.54	
Difference			-2.67	-2.67	-2.67	-6.98	-4.15	2.85	-	-	-	-0.24	
Internal Small Cap Equity Quantamental	144,990,777	0.48	7.07	7.07	7.07	13.78	18.47	4.75			-	5.03	06/01/2021
Russell 2000 Index			10.16	10.16	10.16	12.07	14.25	1.85	8.91	8.22	8.72	1.19	
Difference			-3.09	-3.09	-3.09	1.71	4.22	2.90	-	-	-	3.84	
Internal Small Cap Equity Quantitative	136,389,162	0.45	9.82	9.82	9.82	10.08	12.49	-	-	-	-	3.55	11/01/2021
Russell 2000 Index			10.16	10.16	10.16	12.07	14.25	1.85	8.91	8.22	8.72	0.78	
Difference			-0.34	-0.34	-0.34	-1.99	-1.76	-	-	-	-	2.77	



	Allocatio	n					F	Performa	ance (%)				
	Market Value (\$) (\$)	%	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Int'l Equity	3,643,376,784	12.01	1.81	1.81	1.81	9.17	12.18	3.54	9.08	6.95	5.69	6.33	01/01/2004
International Equity Custom Index			2.46	2.46	2.46	8.34	10.58	2.05	6.45	5.09	4.26	5.42	
Difference			-0.65	-0.65	-0.65	0.83	1.60	1.49	2.63	1.86	1.43	0.91	
Northern Trust	1,768,183,494	5.83	2.56	2.56	2.56	8.66	11.39	2.46	6.73	5.34	4.46	5.67	08/01/2010
MSCI All Country World Ex US Ex China Index			2.60	2.60	2.60	8.52	11.38	2.29	6.61	5.19	4.34	5.55	
Difference			-0.04	-0.04	-0.04	0.14	0.01	0.17	0.12	0.15	0.12	0.12	
Arrowstreet	1,273,976,397	4.20	0.69	0.69	0.69	12.71	17.79	7.34	13.59	-	-	9.34	03/01/2018
MSCI ACW Ex US IM Index (USD) (Net)			2.52	2.52	2.52	7.94	9.78	1.47	6.39	4.97	4.29	4.09	
Difference			-1.83	-1.83	-1.83	4.77	8.01	5.87	7.20	-	-	5.25	
Internal International Equity Quantitative	101,059,673	0.33	2.18	2.18	2.18	8.72	8.51	-	-	-	-	8.51	08/01/2023
MSCI ACW Ex US Index (USD) (Net)			2.32	2.32	2.32	8.14	9.75	1.79	6.29	4.97	4.18	9.75	
Difference			-0.14	-0.14	-0.14	0.58	-1.24	-	-	-	-	-1.24	
Internal International Equity Quantamental	52,583,288	0.17	1.04	1.04	1.04	-	-	-	-	-	-	4.49	03/01/2024
MSCI ACW Ex US Index (USD) (Net)			2.32	2.32	2.32	8.14	9.75	1.79	6.29	4.97	4.18	6.53	
Difference			-1.28	-1.28	-1.28	-	-	-	-	-	-	-2.04	
Harding Loevner	389,697,566	1.28	1.99	1.99	1.99	3.90	4.95	0.13	-	-	-	5.77	01/01/2020
MSCI ACW Ex US Index (USD) (Net)			2.32	2.32	2.32	8.14	9.75	1.79	6.29	4.97	4.18	5.04	
Difference			-0.33	-0.33	-0.33	-4.24	-4.80	-1.66	-	-	-	0.73	
Internal International Equity ETF Account	57,876,366	0.19	2.55	2.55	2.55	8.63	11.76	-	-	-	-	21.71	10/01/2022
MSCI ACWI Ex US Ex China Index			2.60	2.60	2.60	8.52	11.39	2.30	6.61	5.20	4.34	22.48	
Difference			-0.05	-0.05	-0.05	0.11	0.37	-	-	-	-	-0.77	
MLP	1,240,740,757	4.09	2.37	2.37	2.37	21.92	30.09	24.38	13.36			9.82	08/01/2018
MLP Custom Index			2.20	2.20	2.20	19.54	28.21	22.65	11.42	8.01	2.34	8.89	
Difference			0.17	0.17	0.17	2.38	1.88	1.73	1.94	-	-	0.93	
Harvest Fund Advisors	694,886,161	2.29	2.54	2.54	2.54	24.38	32.35	26.74	14.37	-	-	10.63	08/01/2018
MLP Custom Index			2.20	2.20	2.20	19.54	28.21	22.65	11.42	8.01	2.34	8.89	
Difference			0.34	0.34	0.34	4.84	4.14	4.09	2.95	-	-	1.74	
Harvest Fund Advisors Passive	545,854,596	1.80	2.16	2.16	2.16	19.26	27.75	22.53	-	-	-	16.27	02/01/2020
MLP Custom Index			2.20	2.20	2.20	19.54	28.21	22.65	11.42	8.01	2.34	16.21	
Difference			-0.04	-0.04	-0.04	-0.28	-0.46	-0.12	-	-	-	0.06	



	Allocation	ı					F	Performa	nce (%)				
	Market Value (\$) (\$)	%	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Private Equity Composite	1,383,890,355	4.56	0.14	0.14	0.14	3.42	10.04	12.13	-	-	-	11.72	07/01/2021
Cambridge US PE Legacy Index (Horizon) (Mthly)			0.00	0.00	0.00	1.87	5.57	7.02	14.64	14.67	13.25	6.82	
Difference			0.14	0.14	0.14	1.55	4.47	5.11	-	-	-	4.90	
Private Credit Composite	489,065,026	1.61	0.00	0.00	0.00	5.86	12.52	-	-	-	-	12.01	11/01/2022
BB US Intermediate Agg + 400 bps			0.00	0.00	0.00	0.56	5.65	1.32	3.84	4.75	5.24	7.53	
Difference			0.00	0.00	0.00	5.30	6.87	-	-	-	-	4.48	
Core Real Estate	1,275,864,448	4.21	0.00	0.00	0.00	-3.09	-7.67	1.15	2.58	3.48	5.53	4.79	01/01/2006
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	-3.22	-9.99	1.02	2.27	3.45	5.47	4.86	
Difference			0.00	0.00	0.00	0.13	2.32	0.13	0.31	0.03	0.06	-0.07	
Clarion Lion Properties LP	683,276,580	2.25	0.00	0.00	0.00	-4.61	-10.01	-0.12	2.42	3.99	6.28	4.65	01/01/2006
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	-3.22	-9.99	1.02	2.27	3.45	5.47	4.86	
Difference			0.00	0.00	0.00	-1.39	-0.02	-1.14	0.15	0.54	0.81	-0.21	
UBS Trumbull	139,494,847	0.46	0.00	0.00	0.00	-2.90	-8.37	-1.36	-0.93	0.19	2.63	3.37	07/01/2006
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	-3.22	-9.99	1.02	2.27	3.45	5.47	4.58	
Difference			0.00	0.00	0.00	0.32	1.62	-2.38	-3.20	-3.26	-2.84	-1.21	
MS Prime	453,093,022	1.49	0.00	0.00	0.00	-0.57	-2.97	4.87	-	-	-	5.45	10/01/2020
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	-3.22	-9.99	1.02	2.27	3.45	5.47	2.54	
Difference			0.00	0.00	0.00	2.65	7.02	3.85	-	-	-	2.91	
Non-Core Real Estate Composite	595,292,272	1.96	-0.06	-0.06	-0.06	-1.65	-6.13	3.39	-	-	-	3.35	07/01/2021
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	-3.22	-9.99	1.02	2.27	3.45	5.47	0.99	
Difference			-0.06	-0.06	-0.06	1.57	3.86	2.37	-	-	-	2.36	



	Allocation	ı					P	erforma	nce (%)				
	Market Value (\$) (\$)	%	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Infrastructure Composite	506,011,614	1.67	-0.01	-0.01	-0.01	3.70	24.94	-	-	-	-	11.16	04/01/2022
10 Year US Treasury Yield + 350 bps			0.00	0.00	0.00	3.80	7.14	-	-	-	-	6.99	
Difference			-0.01	-0.01	-0.01	-0.10	17.80	-	-	-	-	4.17	
Macquarie Infrastructure	222,501,238	0.73	0.00	0.00	0.00	2.18	11.39	-	-	-	-	6.27	04/01/2022
10 Year US Treasury Yield + 350 bps			0.00	0.00	0.00	3.80	7.14	-	-	-	-	6.99	
Difference			0.00	0.00	0.00	-1.62	4.25	-	-	-	-	-0.72	
MGIF Co-Investment 3	27,615,100	0.09	0.00	0.00	0.00	4.22	6.98	-	-	-	-	6.88	10/01/2022
10 Year US Treasury Yield + 350 bps			0.00	0.00	0.00	3.80	7.14	-	-	-	-	7.18	
Difference			0.00	0.00	0.00	0.42	-0.16	-	-	-	-	-0.30	
Grosvenor Silvery Lupine Fund Class E	105,102,686	0.35	-0.98	-0.98	-0.98	20.09	117.02	-	-	-	-	81.60	03/01/2023
10 Year US Treasury Yield + 350 bps			0.00	0.00	0.00	3.80	7.14	-	-	-	-	7.14	
Difference			-0.98	-0.98	-0.98	16.29	109.88	-	-	-	-	74.46	
IFM Global Infrastructure	150,792,590	0.50	0.65	0.65	0.65	-	-	-	-	-	-	1.57	02/01/2024
10 Year US Treasury Yield + 350 bps			0.00	0.00	0.00	3.80	7.14	-	-	-	-	3.19	
Difference			0.65	0.65	0.65	-	-	-	-	-	-	-1.62	
Diversified Hedge Funds Composite	1,321,827,152	4.36	0.40	0.40	0.40	7.96	11.78	3.16	4.31	3.53	2.73	2.88	12/01/2007
HFRI FOF Comp Index			0.45	0.45	0.45	5.28	7.99	2.49	4.86	4.26	3.58	2.25	
Difference			-0.05	-0.05	-0.05	2.68	3.79	0.67	-0.55	-0.73	-0.85	0.63	
Grosvenor Diversified Hedge Funds	530,160,753	1.75	0.22	0.22	0.22	7.94	11.63	3.93	5.39	-	-	4.39	07/01/2018
HFRI FOF Comp Index			0.45	0.45	0.45	5.28	7.99	2.49	4.86	4.26	3.58	4.22	
Difference			-0.23	-0.23	-0.23	2.66	3.64	1.44	0.53	-	-	0.17	
Internal Diversified Hedge Funds	791,665,049	2.61	0.53	0.53	0.53	7.98	11.88	2.64	3.73	-	-	3.92	07/01/2018
HFRI FOF Comp Index			0.45	0.45	0.45	5.28	7.99	2.49	4.86	4.26	3.58	4.22	
Difference			0.08	0.08	0.08	2.70	3.89	0.15	-1.13	-	-	-0.30	



	Allocatio	n					P	Performa	. ,				
	Market Value (\$) (\$)	%	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Core Fixed Income	3,763,935,533	12.41	2.39	2.39	2.39	2.20	5.78	-2.34	0.54	1.39	1.77	1.65	01/01/2013
Bloomberg US Agg Bond Index			2.34	2.34	2.34	1.61	5.10	-2.63	0.19	1.13	1.61	1.52	
Difference			0.05	0.05	0.05	0.59	0.68	0.29	0.35	0.26	0.16	0.13	
Internal Aggregate Core Fixed Income	2,403,521,191	7.92	2.31	2.31	2.31	2.09	5.64	-2.20	-	-	-	0.13	11/01/2019
Bloomberg US Agg Bond Index			2.34	2.34	2.34	1.61	5.10	-2.63	0.19	1.13	1.61	-0.29	
Difference			-0.03	-0.03	-0.03	0.48	0.54	0.43	-	-	-	0.42	
Internal Int Govt Fixed Income Portfolio	1,137,762,516	3.75	2.12	2.12	2.12	1.49	4.27	-2.54	-0.09	0.65	1.07	3.74	10/01/1996
Wyoming Internal Fixed Income Custom Index			2.19	2.19	2.19	1.31	4.14	-3.00	-0.36	0.42	0.79	3.69	
Difference			-0.07	-0.07	-0.07	0.18	0.13	0.46	0.27	0.23	0.28	0.05	
Payden & Rygel IGC	486,533,064	1.60	2.35	2.35	2.35	2.04	6.79	-2.80	-	-	-	0.34	11/01/2019
Payden & Rygel Custom Index			2.38	2.38	2.38	1.89	6.76	-2.71	0.81	1.90	2.49	0.21	
Difference			-0.03	-0.03	-0.03	0.15	0.03	-0.09	-	-	-	0.13	
JP Morgan MBS	779,215,670	2.57	2.55	2.55	2.55	3.02	6.89	-0.76	-	-	-	0.79	11/01/2019
Bloomberg US MBS Index (Unhgd)			2.64	2.64	2.64	1.63	4.89	-2.28	-0.32	0.65	1.21	-0.61	
Difference			-0.09	-0.09	-0.09	1.39	2.00	1.52	-	-	-	1.40	
IShares Core US Agg Bond ETF	9,941	0.00	2.41	2.41	2.41	1.69	5.07	-	-	-	-	2.39	09/01/2022
Bloomberg US Agg Bond Index			2.34	2.34	2.34	1.61	5.10	-2.63	0.19	1.13	1.61	2.33	
Difference			0.07	0.07	0.07	0.08	-0.03	-	-	-	-	0.06	
PIMCO	1,360,414,342	4.48	2.54	2.54	2.54	2.41	6.01	-2.51	0.51	1.35	1.79	1.62	01/01/2013
PIMCO Custom Index			2.34	2.34	2.34	1.61	5.10	-2.67	0.28	1.06	1.55	1.47	
Difference			0.20	0.20	0.20	0.80	0.91	0.16	0.23	0.29	0.24	0.15	
Bank Loans Composite	685,197,742	2.26	0.64	0.64	0.64	5.62	10.00	6.14	-	-		5.60	09/01/2019
Bank Loans Custom Index			0.73	0.73	0.73	5.21	10.05	6.16	5.32	5.00	4.58	5.47	
Difference			-0.09	-0.09	-0.09	0.41	-0.05	-0.02	-	-	-	0.13	
Credit Suisse SMA	176,854,743	0.58	0.82	0.82	0.82	4.95	9.97	-	-	-	-	10.96	04/01/2023
Bank Loans Custom Index			0.73	0.73	0.73	5.21	10.42	6.28	5.39	5.05	4.62	11.48	
Difference			0.09	0.09	0.09	-0.26	-0.45	-	-	-	-	-0.52	
Octagon SMA	187,514,523	0.62	0.63	0.63	0.63	6.32	10.17	-	-	-	-	10.32	12/01/2022
Bank Loans Custom Index			0.73	0.73	0.73	5.21	9.94	6.13	5.30	4.99	4.57	11.05	
Difference			-0.10	-0.10	-0.10	1.11	0.23	-	-	-	-	-0.73	



	Allocatio	n					P	Performa	. ,				
	Market Value (\$) (\$)	%	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
KKR	320,828,475	1.06	0.54	0.54	0.54	5.72	10.23	-	-	-	-	6.57	10/01/2021
Bank Loans Custom Index			0.73	0.73	0.73	5.21	9.95	6.13	5.30	4.99	4.57	6.04	
Difference			-0.19	-0.19	-0.19	0.51	0.28	-	-	-	-	0.53	
Emerging Market Debt Fixed Income	1,114,964,655	3.68	1.69	1.69	1.69	4.01	7.69	0.27	1.25	1.20	0.00	-0.55	04/01/2013
EMD Custom Benchmark			1.88	1.88	1.88	2.68	6.32	-1.44	-0.07	0.68	-0.06	-0.45	
Difference			-0.19	-0.19	-0.19	1.33	1.37	1.71	1.32	0.52	0.06	-0.10	
Global Evolution	102,572,720	0.34	2.21	2.21	2.21	-1.55	0.73	0.21	-	-	-	0.23	02/01/2020
JPM GBI-EM GbI Dvfd Index (USD) (TR) (Unhedged)			2.27	2.27	2.27	-1.52	0.08	-2.40	-1.02	0.00	-0.54	-1.59	
Difference			-0.06	-0.06	-0.06	-0.03	0.65	2.61	-	-	-	1.82	
Goldman Sachs	205,965,050	0.68	1.37	1.37	1.37	4.84	9.57	0.25	-	-	-	1.62	03/01/2020
Goldman Sachs Custom Index			1.50	1.50	1.50	5.41	9.87	0.10	2.38	3.11	3.70	1.67	
Difference			-0.13	-0.13	-0.13	-0.57	-0.30	0.15	-	-	-	-0.05	
Eaton Vance	274,703,354	0.91	1.11	1.11	1.11	8.88	12.44	3.39	-	-	-	3.47	01/01/2021
JP Morgan EMB (JEMB) Hard /Local 50/50			1.98	1.98	1.98	1.62	4.73	-1.67	0.14	1.22	1.39	-1.84	
Difference			-0.87	-0.87	-0.87	7.26	7.71	5.06	-	-	-	5.31	
Global Evolution Hard	143,642,670	0.47	2.03	2.03	2.03	3.69	8.88	-1.73	-	-	-	-1.22	12/01/2020
JP Morgan EMBIG Div Ex CCC (USD) (TR) Index			1.84	1.84	1.84	2.68	7.36	-2.94	-0.24	1.43	2.63	-2.10	
Difference			0.19	0.19	0.19	1.01	1.52	1.21	-	-	-	0.88	
Finisterre	259,337,796	0.85	1.99	1.99	1.99	2.28	5.18	0.38	-	-	-	0.27	03/01/2021
EMD Custom Benchmark (1/3 blend)			1.88	1.88	1.88	2.68	6.32	-1.44	0.52	1.61	2.01	-0.78	
Difference			0.11	0.11	0.11	-0.40	-1.14	1.82	-	-	-	1.05	
Wellington EMD	128,743,065	0.42	2.06	2.06	2.06	1.04	4.45	-	-	-	-	-2.11	09/01/2021
50% JPM GBI-EM Glb Div / 50% JPM EMBI Glb Div			2.07	2.07	2.07	1.34	4.55	-2.24	-0.43	0.83	1.15	-2.59	
Difference			-0.01	-0.01	-0.01	-0.30	-0.10	-	-	-	-	0.48	
SAP Treasury Composite	4,815,709,726	15.87	0.93	0.93	0.93	2.49	5.30	1.42				1.65	10/01/2019
75% BB Gov't 1-3 yr Bond Ix / 25% BB US Trsry 0-1 yr			0.99	0.99	0.99	2.54	5.40	-	-	-	-	-	
Difference			-0.06	-0.06	-0.06	-0.05	-0.10	-	-	-	-	-	
Internal SAP Fixed Income Portfolio	4,815,709,726	15.87	0.93	0.93	0.93	2.49	5.30	1.41	-	-	-	1.60	09/01/2019
75% BB Gov't 1-3 yr Bond Ix / 25% BB US Trsry 0-1 yr			0.99	0.99	0.99	2.54	5.40	-	-	-	-	-	
Difference			-0.06	-0.06	-0.06	-0.05	-0.10	-	-	-	-	-	



	Allocation	n	Performance (%)											
	Market Value (\$) (\$)	%	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
Long Duration Fixed Income Composite	778,548,086	2.57	3.46	3.46	3.46	-0.55	3.16	-8.38	-1.52	-	-	1.02	01/01/2019	
Bloomberg US Govt Crdt Lng Trm Bond Index			3.35	3.35	3.35	-0.88	2.83	-8.34	-1.72	0.57	1.95	0.84		
Difference			0.11	0.11	0.11	0.33	0.33	-0.04	0.20	-	-	0.18		
Internal Long Duration Fixed Income Portfolio	395,786,449	1.30	3.55	3.55	3.55	-1.63	-0.22	-10.39	-3.70	-	-	-1.47	01/01/2019	
Bloomberg US Govt Lng Trm Bond Index			3.57	3.57	3.57	-1.59	-0.02	-10.47	-3.60	-0.87	0.90	-1.39		
Difference			-0.02	-0.02	-0.02	-0.04	-0.20	0.08	-0.10	-	-	-0.08		
Metlife	382,761,637	1.26	3.37	3.37	3.37	0.53	6.21	-6.34	0.08	-	-	3.19	11/01/2018	
Bloomberg US Lng Crdt Index			3.15	3.15	3.15	-0.25	5.37	-6.47	-0.48	1.51	2.69	2.66		
Difference			0.22	0.22	0.22	0.78	0.84	0.13	0.56	-	-	0.53		
Low Duration Fixed Income	663,370,530	2.19	1.16	1.16	1.16	2.44	5.61	1.30	1.74	-	-	2.09	12/01/2018	
Low Duration Fixed Income Custom Index			1.16	1.16	1.16	2.37	5.37	0.67	1.29	1.50	1.37	1.73		
Difference			0.00	0.00	0.00	0.07	0.24	0.63	0.45	-	-	0.36		
Internal Low Duration Fixed Income Portfolio	663,370,530	2.19	1.16	1.16	1.16	2.44	5.61	1.30	1.74	-	-	2.01	03/01/2018	
Bloomberg US Govt 1-3 Yr Bond Index			1.16	1.16	1.16	2.37	5.37	0.67	1.29	1.44	1.25	1.67		
Difference			0.00	0.00	0.00	0.07	0.24	0.63	0.45	-	-	0.34		
Transition Low Duration Fixed Income Composite	1,564,017,206	5.16	0.98	0.98	0.98	4.28	7.78		-	-		3.85	11/01/2021	
Transition Fixed Income Custom Index			0.91	0.91	0.91	4.03	7.75	3.56	3.29	3.21	2.94	3.84		
Difference			0.07	0.07	0.07	0.25	0.03	-	-	-	-	0.01		
PIMCO Transition Low Duration	1,564,017,206	5.16	0.98	0.98	0.98	4.28	7.81	-	-	-	-	3.85	11/01/2021	
PIMCO Low Duration Custom Index			0.91	0.91	0.91	4.03	7.77	3.70	3.37	3.27	2.99	4.00		
Difference			0.07	0.07	0.07	0.25	0.04	-	-	-	-	-0.15		
Grosvenor Silvery Lupine Fund	8.350.017	0.03	-0.02	-0.02	-0.02	-1.51	-17.20	-6.90	-5.12	-2.00	0.44	0.43	07/01/2014	
Credit Suisse Western Euro Hi Yld Index	0,000,017	0.00	1.43	1.43	1.43	4.86	11.98	3.25	4.22	4.62	5.09	5.01	01/01/201-	
Difference			-1.45	-1.45	-1.45	-6.37	-29.18	-10.15	-9.34	-6.62	-4.65	-4.58		



	Allocation	Performance (%)											
	Market Value (\$) (\$)	%	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Opportunistic Investments Composite	196,472,914	0.65	-0.10	-0.10	-0.10	11.67	30.57	2.68	-	-	-	14.98	07/01/2020
Opportunistic Custom Benchmark			2.32	2.32	2.32	6.29	8.99	3.24	-	-	-	6.75	
Difference			-2.42	-2.42	-2.42	5.38	21.58	-0.56	-	-	-	8.23	
Grosvenor Opportunistic Class D	196,417,656	0.65	-0.10	-0.10	-0.10	11.67	30.57	2.68	-	-	-	14.98	07/01/2020
Opportunistic Custom Benchmark			2.32	2.32	2.32	6.29	8.99	3.24	-	-	-	6.75	
Difference			-2.42	-2.42	-2.42	5.38	21.58	-0.56	-	-	-	8.23	
Internal Opportunistic	55,257	0.00	1.21	1.21	1.21	16.58	21.96	-	-	-	-	20.74	09/01/2022
Opportunistic Custom Benchmark			2.32	2.32	2.32	6.29	8.99	3.24	-	-	-	8.12	
Difference			-1.11	-1.11	-1.11	10.29	12.97	-	-	-	-	12.62	



	Allocation		Performance (%)										
	Market Value (\$) (\$)	%	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
JP Morgan Cash Composite	2,966,380,553	9.78	0.47	0.47	0.47	3.17	5.52	3.30	2.24	2.13	1.60	1.73	01/01/2006
JP Morgan Cash Custom Index			0.45	0.45	0.45	3.09	5.45	3.18	2.21	2.14	1.60	1.73	
Difference			0.02	0.02	0.02	0.08	0.07	0.12	0.03	-0.01	0.00	0.00	
Wyo-Star Cash Composite	540,340,503	1.78	0.65	0.65	0.65	2.94	5.63	2.67	2.01	1.96	1.49	3.02	10/01/1996
Wyo-Star Cash Custom Index			0.65	0.65	0.65	2.59	5.18	2.39	1.89	1.91	1.46	2.52	
Difference			0.00	0.00	0.00	0.35	0.45	0.28	0.12	0.05	0.03	0.50	
WYO STAR II Total Fund	42,033,487	0.14	1.26	1.26	1.26	3.29	6.67	1.82	2.14			2.51	01/01/2019
Bloomberg US Corp 1-3 Yr Index			1.27	1.27	1.27	3.14	6.48	1.52	2.10	2.24	2.09	2.50	
Difference			-0.01	-0.01	-0.01	0.15	0.19	0.30	0.04	-	-	0.01	

• 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.

• Workers' Compensation Liability Hedging Assets Index is comprised of 50.4% Bloomberg US Government Credit Long Term Index and 49.6% Bloomberg US Aggregate Bond Index, updated annually per actuarial estimates.

- 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, the MSCI ACW Ex US Index (USD) (Net) through 08/18/2023, and 50% MSCI ACW Ex US Index (USD) (Net) 50% MSCI ACW Ex US Ex China (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, the BB US Agg Index through 11/29/21, account performance from 11/29/21 through 12/07/21, the Bloomberg US Agg Bond Index thereafter through 06/30/2022, account performance on 7/1/2022, 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, 50% JPM CLOIE IG Idx, 40% BB 1 3 Yr Crdt, and 10% ICE BofA 0-2 Yr Dur BB-B Index thereafter through 3/6/2022, account performance from 3/7/2022-3/18/2022, 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



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Index thereafter through 11/30/2020, and 1/3 JPM GBI-EM GbI Dvf'd Index, 1/3 JPM CEMBI Brd Dvf'd Index, and 1/3 JPM EMBI GbI Dvf'd Index thereafter.

- The JP Morgan EMB (JEMB) Hard Currency/Local Currency 50/50 consists of 50% JPM GBI-EM GbI Dvf'd Index, 25% JPM CEMBI Brd Dvf'd Index, and 25% JPM EMBI GbI Dvf'd Index.
- The Goldman Sachs Index consists of JPM CEMBI Brd Dvf'd Index through 11/22/2020, account performance from 11/23/2020 through 11/30/2020, and the JPM CEMBI Brd Dvf'd Index thereafter.
- The Bank Loans Custom Index consists of S&P LSTA Lvgd Loan Index through 06/30/2021, the S&P LSTA US Lvgd Loan 100 Index through 6/30/2023, and the Credit Suisse Leveraged Loan Index thereafter. A performance holiday is reflected in the Custom Bank Loan Index during November and December of 2023 for KKR and Octagon SMA to account for asset reallocation.
- 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.



	Allocatio	n	Performance (%)											
	Market Value (\$) (\$)	%	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date	
Internally Managed Funds	8,751,668,524	28.85	1.42	1.42	1.42	3.60	6.84	0.83	1.85	2.05	2.59	2.97	01/01/2006	
Internal Equity	748,634,193	2.47	4.03	4.03	4.03	12.81	16.08	5.09	N/A	N/A	N/A	7.50	04/01/2021	
Internal Equity Composite Actual Allocation Index			4.96	4.96	4.96	12.66	15.67	5.53	N/A	N/A	N/A	7.41		
Difference			-0.93	-0.93	-0.93	0.15	0.41	-0.44	N/A	N/A	N/A	0.09		
Internal Domestic Equity Quantitative	95,165,818	0.31	1.32	1.32	1.32	19.66	25.53	10.53	N/A	N/A	N/A	11.08	06/01/2021	
S&P 500 Index (Cap Wtd)			1.22	1.22	1.22	16.70	22.15	9.60	15.00	14.14	13.15	10.68		
Difference			0.10	0.10	0.10	2.96	3.38	0.93	N/A	N/A	N/A	0.40		
Internal Small Cap Equity Quantamental	144,990,777	0.48	7.07	7.07	7.07	13.78	18.47	4.75	N/A	N/A	N/A	5.03	06/01/202 ²	
Russell 2000 Index			10.16	10.16	10.16	12.07	14.25	1.85	8.91	8.22	8.72	1.19		
Difference			-3.09	-3.09	-3.09	1.71	4.22	2.90	N/A	N/A	N/A	3.84		
Internal Small Cap Equity Quantitative	136,389,162	0.45	9.82	9.82	9.82	10.08	12.49	N/A	N/A	N/A	N/A	3.55	11/01/202	
Russell 2000 Index			10.16	10.16	10.16	12.07	14.25	1.85	8.91	8.22	8.72	0.78		
Difference			-0.34	-0.34	-0.34	-1.99	-1.76	N/A	N/A	N/A	N/A	2.77		
SPDR S&P 500 ETF Trust	160,537,882	0.53	1.21	1.21	1.21	16.66	22.23	N/A	N/A	N/A	N/A	21.47	12/01/2022	
S&P 500 Index (Cap Wtd)			1.22	1.22	1.22	16.70	22.15	9.60	15.00	14.14	13.15	21.78		
Difference			-0.01	-0.01	-0.01	-0.04	0.08	N/A	N/A	N/A	N/A	-0.31		
Internal International Equity ETF Account	57,876,366	0.19	2.55	2.55	2.55	8.63	11.76	N/A	N/A	N/A	N/A	21.71	10/01/2022	
MSCI ACWI Ex US Ex China Index			2.60	2.60	2.60	8.52	11.39	2.30	6.61	5.20	4.34	22.48		
Difference			-0.05	-0.05	-0.05	0.11	0.37	N/A	N/A	N/A	N/A	-0.77		
Internal International Equity Quantitative	101,059,673	0.33	2.18	2.18	2.18	8.72	8.51	N/A	N/A	N/A	N/A	8.51	08/01/2023	
MSCI ACW Ex US Index (USD) (Net)			2.32	2.32	2.32	8.14	9.75	1.79	6.29	4.97	4.18	9.75		
Difference			-0.14	-0.14	-0.14	0.58	-1.24	N/A	N/A	N/A	N/A	-1.24		
Internal International Equity Quantamental	52,583,288	0.17	1.04	1.04	1.04	N/A	N/A	N/A	N/A	N/A	N/A	4.49	03/01/2024	
MSCI ACW Ex US Index (USD) (Net)			2.32	2.32	2.32	8.14	9.75	1.79	6.29	4.97	4.18	6.53		
Difference			-1.28	-1.28	-1.28	N/A	N/A	N/A	N/A	N/A	N/A	-2.04		
Internal Diversified Hedge Funds	791,665,049	2.61	0.53	0.53	0.53	7.98	11.88	2.64	3.73	N/A	N/A	3.92	07/01/201	
HFRI FOF Comp Index			0.45	0.45	0.45	5.28	7.99	2.49	4.86	4.26	3.58	4.22		
Difference			0.08	0.08	0.08	2.70	3.89	0.15	-1.13	N/A	N/A	-0.30		



	Allocatio	n	Performance (%)										
	Market Value (\$) (\$)	%	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Internal Fixed Income	7,012,639,162	23.11	1.29	1.29	1.29	2.09	4.93	0.12	1.42	1.76	1.85	4.03	10/01/1996
Internal Fixed Income Actual Allocation Index			1.30	1.30	1.30	2.06	4.89	0.01	1.32	1.67	1.67	4.02	
Difference			-0.01	-0.01	-0.01	0.03	0.04	0.11	0.10	0.09	0.18	0.01	
Internal Int Govt Fixed Income Portfolio	1,137,762,516	3.75	2.12	2.12	2.12	1.49	4.27	-2.54	-0.09	0.65	1.07	3.74	10/01/1996
Internal Int Govt Fixed Income Portfolio Index			2.19	2.19	2.19	1.31	4.14	-3.00	-0.36	0.42	0.79	3.69	
Difference			-0.07	-0.07	-0.07	0.18	0.13	0.46	0.27	0.23	0.28	0.05	
IShares Core US Agg Bond ETF	9,941	0.00	2.41	2.41	2.41	1.69	5.07	N/A	N/A	N/A	N/A	2.39	09/01/2022
Bloomberg US Agg Bond Index			2.34	2.34	2.34	1.61	5.10	-2.63	0.19	1.13	1.61	2.33	
Difference			0.07	0.07	0.07	0.08	-0.03	N/A	N/A	N/A	N/A	0.06	
Internal SAP Fixed Income Portfolio	4,815,709,726	15.87	0.93	0.93	0.93	2.49	5.30	1.41	N/A	N/A	N/A	1.60	09/01/2019
75% BB Gov't 1-3 yr Bond Ix / 25% BB US Trsry 0-1 yr			0.99	0.99	0.99	2.54	5.40	N/A	N/A	N/A	N/A	N/A	
Difference			-0.06	-0.06	-0.06	-0.05	-0.10	N/A	N/A	N/A	N/A	N/A	
Internal Long Duration Fixed Income Portfolio	395,786,449	1.30	3.55	3.55	3.55	-1.63	-0.22	-10.39	-3.70	N/A	N/A	-1.47	01/01/2019
Bloomberg US Govt Lng Trm Bond Index			3.57	3.57	3.57	-1.59	-0.02	-10.47	-3.60	-0.87	0.90	-1.39	
Difference			-0.02	-0.02	-0.02	-0.04	-0.20	0.08	-0.10	N/A	N/A	-0.08	
Internal Low Duration Fixed Income Portfolio	663,370,530	2.19	1.16	1.16	1.16	2.44	5.61	1.30	1.74	N/A	N/A	2.01	03/01/2018
Bloomberg US Govt 1-3 Yr Bond Index			1.16	1.16	1.16	2.37	5.37	0.67	1.29	1.44	1.25	1.67	
Difference			0.00	0.00	0.00	0.07	0.24	0.63	0.45	N/A	N/A	0.34	
Opportunistic Investments Composite	196,472,914	0.65	-0.10	-0.10	-0.10	11.67	30.57	2.68	N/A	N/A	N/A	14.98	07/01/2020
Opportunistic Custom Benchmark			2.32	2.32	2.32	6.29	8.99	3.24	N/A	N/A	N/A	6.75	
Difference			-2.42	-2.42	-2.42	5.38	21.58	-0.56	N/A	N/A	N/A	8.23	
Grosvenor Opportunistic Class D	196,417,656	0.65	-0.10	-0.10	-0.10	11.67	30.57	2.68	N/A	N/A	N/A	14.98	07/01/2020
Opportunistic Custom Benchmark			2.32	2.32	2.32	6.29	8.99	3.24	N/A	N/A	N/A	6.75	
Difference			-2.42	-2.42	-2.42	5.38	21.58	-0.56	N/A	N/A	N/A	8.23	
Internal Opportunistic	55,257	0.00	1.21	1.21	1.21	16.58	21.96	N/A	N/A	N/A	N/A	20.74	09/01/2022
Opportunistic Custom Benchmark			2.32	2.32	2.32	6.29	8.99	3.24	N/A	N/A	N/A	8.12	
Difference			-1.11	-1.11	-1.11	10.29	12.97	N/A	N/A	N/A	N/A	12.62	



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