



Alternative Investment Supplemental Disclosure

Wyoming State Treasurer's Office

Period Ended: September 30, 2021



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General Comments

- Through this reporting period, Wyoming State Treasurer's Office has committed a total of \$2,381,451,360 to 19 non-marketable alternative investments.
- The average age of active investments (based upon vintage year and weighted by commitment) was 7.08 years.
- A total of \$2,312,878,360 has been called or otherwise contributed to date.
- Distributions have totaled \$2,187,651,500 since plan inception.
- The residual estimated value of interests in these partnerships/investments is \$1,415,840,990.
- Since inception net performance for the investments are as follows:
 - Annualized since-inception estimated Internal Rate of Return (IRR) of 12.65%.
 - Were an investment into the benchmark index (S&P 500 Index (Cap Wtd)) ("Index IRR") made with the identical cash-flow pattern, the resulting return would be equal to 12.45% indicating roughly 19 basis points of annualized out-performance.
 - For every \$1 paid into the portfolio, \$1.56 has been returned as a distribution or is held in residual value (multiple on invested capital = 1.56x).

Hedge Funds - Opportunistic

- Hedge Funds - Opportunistic funds account for 18.90% of commitments, 19.46% of contributed funds, 25.28% of distributed funds, and 2.30% of reported residual value.
- Pooled portfolio since inception performance is as follows:
 - Annualized since-inception IRR of 7.71%
 - S&P 500 Index (Cap Wtd) IRR of 13.94%
 - A multiple on invested capital of 1.30x.

Private Equity - Buyout

- Private Equity - Buyout funds account for 19.95% of commitments, 6.73% of contributed funds, 0.00% of distributed funds, and 17.47% of reported residual value.
- Pooled portfolio since inception performance is as follows:
 - Annualized since-inception IRR of 44.47%
 - S&P 500 Index (Cap Wtd) IRR of 24.94%
 - A multiple on invested capital of 1.59x.

Private Equity - Growth Equity

- Private Equity - Growth Equity funds account for 2.10% of commitments, 1.08% of contributed funds, 0.00% of distributed funds, and 2.39% of reported residual value.
- Pooled portfolio since inception performance is as follows:
 - Annualized since-inception IRR - Not Material
 - S&P 500 Index (Cap Wtd) IRR - Not Material
 - A multiple on invested capital of 1.36x.

Private Equity - Multi-Stage

- Private Equity - Multi-Stage funds account for 27.63% of commitments, 42.68% of contributed funds, 53.59% of distributed funds, and 44.05% of reported residual value.
- Pooled portfolio since inception performance is as follows:
 - Annualized since-inception IRR of 14.63%
 - S&P 500 Index (Cap Wtd) IRR of 9.84%
 - A multiple on invested capital of 1.82x.

Private Equity - Venture

- Private Equity - Venture funds account for 0.42% of commitments, 0.43% of contributed funds, 0.77% of distributed funds, and 0.20% of reported residual value.
- Pooled portfolio since inception performance is as follows:
 - Annualized since-inception IRR of 9.58%
 - S&P 500 Index (Cap Wtd) IRR of 14.19%
 - A multiple on invested capital of 1.96x.

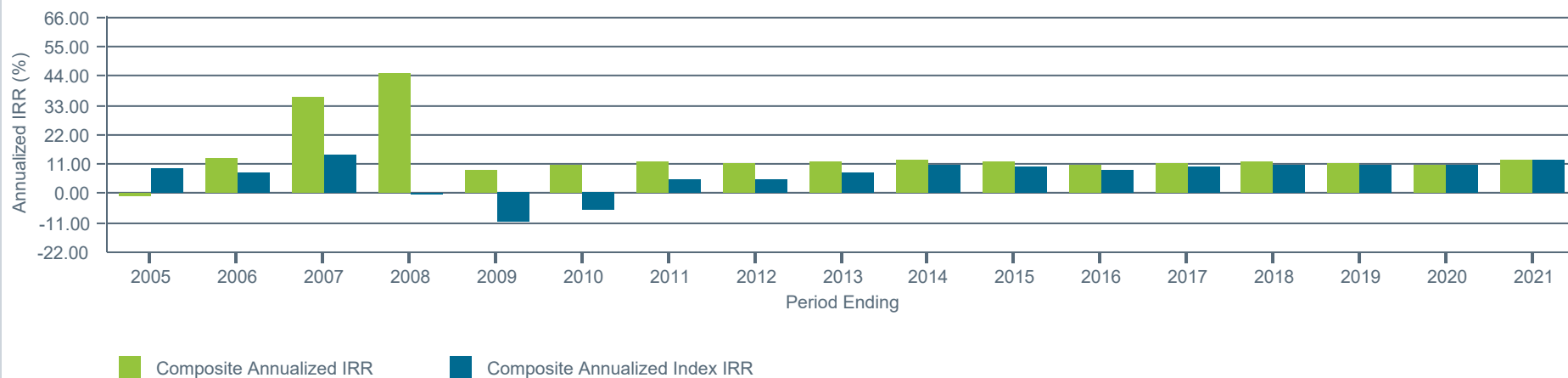
Real Estate - Opportunistic

- Real Estate - Opportunistic funds account for 6.30% of commitments, 8.57% of contributed funds, 6.82% of distributed funds, and 12.12% of reported residual value.
- Pooled portfolio since inception performance is as follows:
 - Annualized since-inception IRR of 14.52%
 - S&P 500 Index (Cap Wtd) IRR of 14.12%
 - A multiple on invested capital of 1.62x.

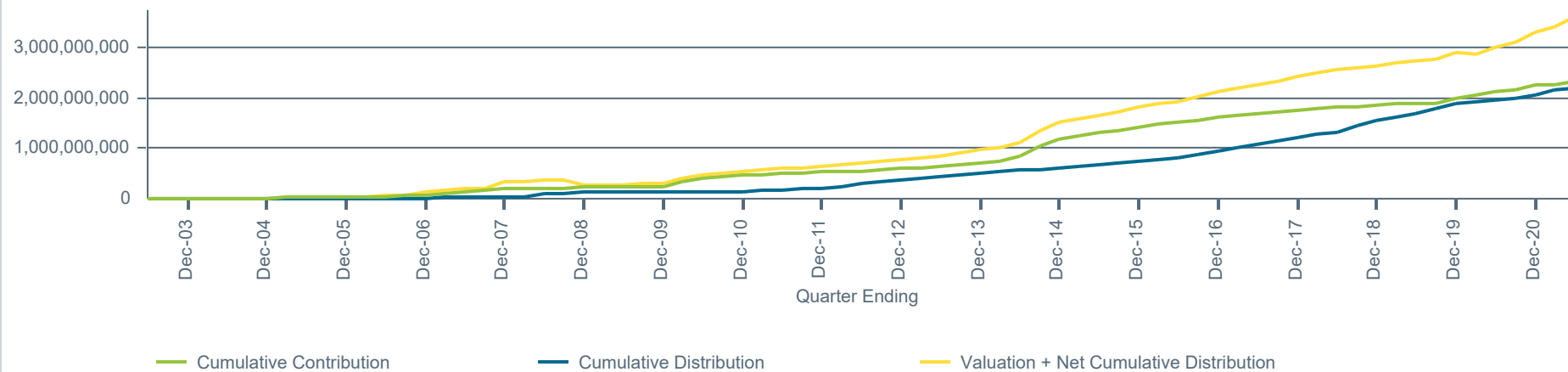
Real Estate - Value Added

- Real Estate - Value Added funds account for 24.71% of commitments, 21.06% of contributed funds, 13.55% of distributed funds, and 21.47% of reported residual value.
- Pooled portfolio since inception performance is as follows:
 - Annualized since-inception IRR of 7.32%
 - S&P 500 Index (Cap Wtd) IRR of 14.92%
 - A multiple on invested capital of 1.23x.

Since Inception Annualized Composite IRR



Since Inception Cash Flow (\$)



Index IRR represents the dollar-weighted returns calculated using the S&P 500 Index (Cap Wtd) assuming an index investment with the same cash flow timing. This report may contain valuations for investments that are preliminary estimates of valuation as of the date of reporting which reflect the estimated impact of subsequent net cash contributions/distributions. These figures may be used in calculations contained in this report. IRRs are shown only for investments with one year or more of cash flows and for which an accurate IRR could be calculated.

Alternative Investment Asset Class Composite Performance

Asset Class	Commitment (\$)	Paid In Capital (\$)	Distributions (\$)	Valuation (\$)	Asset Class IRR (%)	Index IRR (%)	Asset Class Multiple
Hedge Funds - Opportunistic	450,000,000	450,000,000	552,955,208	32,584,996	7.71	13.94	1.30
Private Equity - Buyout	475,000,000	155,600,924	0	247,393,306	44.47	24.94	1.59
Private Equity - Growth Equity	50,000,000	24,958,566	0	33,868,594	N/M	N/M	1.36
Private Equity - Multi-Stage	657,950,000	987,040,655	1,172,287,892	623,643,603	14.63	9.84	1.82
Private Equity - Venture	10,000,000	10,000,000	16,750,809	2,810,913	9.58	14.19	1.96
Real Estate - Opportunistic	150,000,000	198,121,223	149,296,449	171,559,302	14.52	14.12	1.62
Real Estate - Value Added	588,501,360	487,156,992	296,361,141	303,980,276	7.32	14.92	1.23
	2,381,451,360	2,312,878,360	2,187,651,500	1,415,840,990	12.65	12.45	1.56

Index IRR represents the dollar-weighted returns calculated using the S&P 500 Index (Cap Wtd) assuming an index investment with the same cash flow timing. IRRs are shown only for investments with one year or more of cash flows and for which an accurate IRR could be calculated. Applicable IRRs are marked with 'N/M' for not material. Asset Class IRR is the annualized since-inception net internal rate for the indicated fund or composite. This report may contain valuations for investments that are preliminary estimates of valuation as of the date of reporting which reflect the estimated impact of subsequent net cash contributions/distributions. These figures may be used in calculations contained in this report. Asset Class Multiple is the since inception sum of distributions and valuation divided by paid in capital.

Average Commitment-weighted Active Investment Age (in years): 7.08

Vintage Year	Commitment (\$)	Paid In Capital (\$)	Distributions (\$)	Valuation (\$)	Vintage Year IRR (%)	Index IRR (%)	Vintage Year Multiple	Cumulative Multiple
2003	257,950,000	620,650,387	903,006,652	192,546,114	13.96	7.72	1.77	1.77
2006	25,000,000	25,000,000	31,655,252	2,810,913	3.90	11.40	1.38	1.75
2007	10,000,000	9,647,233	14,158,891	0	8.58	10.78	1.47	1.75
2009	150,000,000	150,000,000	199,755,208	0	12.54	15.27	1.33	1.67
2010	102,225,000	87,930,692	136,432,558	8,548,011	10.07	14.82	1.65	1.67
2013	661,276,360	688,552,407	535,948,863	618,039,675	14.48	14.68	1.68	1.67
2014	300,000,000	300,000,000	353,200,000	32,584,996	5.77	12.80	1.29	1.61
2016	100,000,000	100,538,151	9,195,756	110,493,553	6.77	20.30	1.19	1.59
2019	275,000,000	155,600,924	0	245,306,321	43.55	24.94	1.58	1.59
2020	400,000,000	174,958,566	4,298,319	205,511,407	29.46	38.74	1.20	1.56
2021	100,000,000	0	0	0	N/M	N/M		1.56
TOTAL	2,381,451,360	2,312,878,360	2,187,651,500	1,415,840,990	12.65	12.45		1.56

Index IRR represents the dollar-weighted returns calculated using the S&P 500 Index (Cap Wtd) assuming an index investment with the same cash flow timing. IRRs are shown only for investments with one year or more of cash flows and for which an accurate IRR could be calculated. Applicable IRRs are marked with 'N/M' for not material. Vintage Year IRR is the annualized since-inception net internal rate for the indicated fund or composite. This report may contain valuations for investments that are preliminary estimates of valuation as of the date of reporting which reflect the estimated impact of subsequent net cash contributions/distributions. These figures may be used in calculations contained in this report. Vintage Year Multiple is the since inception sum of distributions and valuation divided by paid in capital. Cumulative Multiple is the since inception sum of distributions and valuation divided by paid in capital for all investments through the indicated vintage year.



Wyoming State Treasurer's Office
Alternative Investment Private Equity Fund Performance Listing

As of June 30, 2021

Fund Name	Vintage	Asset Class	Commitment	Paid In Capital	Distributions - Total	Distributions - Gain/Income	Distributions - ROC	Valuation	Fund IRR (%)	Quartile	Index IRR (%)	Fund Multiple
Access Venture Partners II, LP	2006	Private Equity - Venture	\$10,000,000	\$10,000,000	\$16,750,809	\$13,914,130	\$2,836,679	\$2,810,913	9.58	N/A	14.19	1.96
Cheyenne Capital Fund, LP	2003	Private Equity - Multi-Stage	\$257,950,000	\$620,650,387	\$903,006,652	\$21,197,546	\$881,809,106	\$192,546,114	13.96	N/A	7.72	1.77
Hamilton Lane Wyoming Nowood Fund, LP	2013	Private Equity - Multi-Stage	\$200,000,000	\$227,190,268	\$148,371,240	\$43,011,275	\$105,359,965	\$178,374,648	12.25	N/A	15.6	1.44
BlackRock Long Term Private Capital	2019	Private Equity - Buyout	\$275,000,000	\$155,600,924	\$0	\$0	\$0	\$245,306,321	43.55	N/A	24.94	1.58
Neuberger Berman Sauger Fund, LP	2013	Private Equity - Multi-Stage	\$200,000,000	\$139,200,000	\$120,910,000	\$40,726,861	\$80,183,139	\$252,722,841	20.00	N/A	14.33	2.68
GTCR Fund XIII, LP	2020	Private Equity - Buyout	\$100,000,000	\$0	\$0	\$0	\$0	\$2,086,985	N/M	N/A	N/M	0.00
Veritas Capital Vantage Fund, LP	2021	Private Equity - Buyout	\$40,000,000	\$0	\$0	\$0	\$0	\$0	N/M	N/A	N/M	0.00
Nautic Partners X	2021	Private Equity - Buyout	\$60,000,000	\$0	\$0	\$0	\$0	\$0	N/M	N/A	N/M	0.00
Valor Equity Partners V, LP	2020	Private Equity - Growth Equity	\$50,000,000	\$24,958,566	\$0	\$0	\$0	\$33,868,594	N/M	N/A	N/M	1.36
TOTAL			\$1,192,950,000	\$1,177,600,146	\$1,189,038,701	\$118,849,813	\$1,070,188,888	\$907,716,416	15.07		10.35	1.78

Index IRR represents the dollar-weighted returns calculated using the S&P 500 Index (Cap Wtd) assuming an index investment with the same cash flow timing. IRRs are shown only for investments with one year or more of cash flows and for which an accurate IRR could be calculated. Applicable IRRs are marked with 'N/M' for not material. Fund IRR is the annualized since-inception net internal rate for the indicated fund or composite. Fund Multiple is the since inception sum of distributions and valuation divided by paid in capital. Quartile data is based on information provided by Preqin.

Cheyenne Capital Fund valuations set forth herein could be materially different once underlying investments are realized. Market conditions at the time of exit could be substantially different than at the reporting period, resulting in valuations different than those represented above. Fund valuations shown above may differ from the traditional investment performance report due to the exclusion of assets held in cash. Non-recallable return of capital distributions are included in Distribution - Gain/Income as they do not reduce the remaining fund commitment. Paid In Capital is adjusted for closing true-ups and closing fee remittances.

Wyoming State Treasurer's Office
Alternative Investment Private Real Estate Fund Performance Listing

As of June 30, 2021

Fund Name	Vintage	Asset Class	Commitment	Paid In Capital	Distributions - Total	Distributions - Gain/Income	Distributions - ROC	Valuation	Fund IRR (%)	Quartile	Index IRR (%)	Fund Multiple
Cornerstone Core Mortgage Fund I	2010	Real Estate - Value Added	\$27,225,000	\$25,235,654	\$34,144,840	\$29,352,471	\$4,792,369	\$0	6.68	N/A	10.30	1.35
Heitman Value Partners II	2007	Real Estate - Value Added	\$10,000,000	\$9,647,233	\$14,158,891	\$6,364,503	\$7,794,388	\$0	8.58	N/A	6.14	1.47
M&G Real Estate Debt Fund III	2013	Real Estate - Value Added	\$111,276,360	\$124,040,916	\$117,371,174	\$27,027,447	\$90,343,727	\$15,382,884	2.50	N/A	6.82	1.07
Northwood Real Estate Partners (Series IV)	2013	Real Estate - Opportunistic	\$150,000,000	\$198,121,223	\$149,296,449	\$61,877,343	\$87,419,106	\$171,559,302	14.52	N/A	7.44	1.62
SC Core Fund	2016	Real Estate - Value Added	\$100,000,000	\$100,538,151	\$9,195,756	\$8,960,488	\$235,269	\$110,493,553	6.77	N/A	4.86	1.19
Realterm Logistics Income Fund	2020	Real Estate - Value Added	\$250,000,000	\$150,000,000	\$4,298,319	\$4,298,319	\$0	\$169,555,828	21.99	N/A	8.26	1.16
TA Realty VIII	2006	Real Estate - Value Added	\$15,000,000	\$15,000,000	\$14,904,443	\$1,450,837	\$13,453,606	\$0	-0.07	N/A	4.32	0.99
WestRiver RE Finance Fund	2010	Real Estate - Value Added	\$75,000,000	\$62,695,038	\$102,287,718	\$68,290,412	\$33,997,306	\$8,548,011	11.32	N/A	9.80	1.77
TOTAL			\$738,501,360	\$685,278,215	\$445,657,590	\$207,621,819	\$238,035,771	\$475,539,578	9.60		7.65	1.34

M&G commitment is converted using the noon New York City Federal exchange rate as of the report date. Index IRR represents the dollar-weighted returns calculated using the NCREIF ODCE Index assuming an index investment with the same cash flow timing. IRRs are shown only for investments with one year or more of cash flows and for which an accurate IRR could be calculated. Applicable IRRs are marked with 'N/M' for not material. Fund IRR is the annualized since-inception net internal rate for the indicated fund or composite. Fund Multiple is the since inception sum of distributions and valuation divided by paid in capital. Quartile data is based on information provided by Preqin.

Fund valuations shown above may differ from the traditional investment performance report due to the exclusion of assets held in cash. Non-recallable return of capital distributions are included in Distribution - Gain/Income as they do not reduce the remaining fund commitment. Paid In Capital is adjusted for closing true-ups and closing fee remittances.

Wyoming State Treasurer's Office
Alternative Investment Diversified Hedge Funds Fund Performance Listing

As of June 30, 2021

Fund Name	Vintage	Asset Class	Commitment	Paid In Capital	Distributions - Total	Distributions - Gain/Income	Distributions - ROC	Valuation	Fund IRR (%)	Quartile	Index IRR (%)	Fund Multiple
Grosvenor Silvery Lupine Fund, LLC	2014	Hedge Funds - Opportunistic	\$300,000,000	\$300,000,000	\$353,200,000	\$76,870,873	\$276,329,127	\$32,584,996	5.77	N/A	12.80	1.29
Grosvenor Global Recovery Fund, Ltd.	2009	Hedge Funds - Opportunistic	\$150,000,000	\$150,000,000	\$199,755,208	\$47,985,542	\$151,769,666	\$0	12.54	N/A	15.27	1.33
TOTAL			\$450,000,000	\$450,000,000	\$552,955,208	\$124,856,416	\$428,098,793	\$32,584,996	7.71		13.94	1.30

Index IRR represents the dollar-weighted returns calculated using the S&P 500 Index (Cap Wtd) assuming an index investment with the same cash flow timing. IRRs are shown only for investments with one year or more of cash flows and for which an accurate IRR could be calculated. Applicable IRRs are marked with 'N/M' for not material. Fund IRR is the annualized since-inception net internal rate for the indicated fund or composite. Fund Multiple is the since inception sum of distributions and valuation divided by paid in capital. Quartile data is based on information provided by Preqin.

Fund valuations shown above may differ from the traditional investment performance report due to the exclusion of assets held in cash. Valuation shown for Grosvenor Silvery Lupine Fund will differ from the traditional investment performance report, as the valuation reflected therein is not on a one-quarter lag due to the nature of this particular investment. Non-recallable return of capital distributions are included in Distribution - Gain/Income as they do not reduce the remaining fund commitment. Paid In Capital is adjusted for closing true-ups and closing fee remittances.

Wyoming State Treasurer's Office
Alternative Investment Private Equity Fund Performance Listing

As of September 30, 2021

Fund Name	Vintage	Asset Class	Commitment	As of 6/30/2021			Quarter To Date Ending 9/30/2021		
				Paid In Capital	Distributions - Total	Valuation	Paid In Capital	Distributions - Total	Valuation
Access Venture Partners II, LP	2006	Private Equity - Venture	\$10,000,000	\$10,000,000	\$16,750,809	\$2,810,913	\$0	\$253,504	\$2,557,409 *
Cheyenne Capital Fund, LP	2003	Private Equity - Multi-Stage	\$257,950,000	\$620,650,387	\$903,006,652	\$192,546,114	\$0	\$0	\$192,546,114 *
Hamilton Lane Wyoming Nowood Fund, LP	2013	Private Equity - Multi-Stage	\$200,000,000	\$227,190,268	\$148,371,240	\$178,374,648	\$2,219,643	\$19,690,738	\$163,857,644 *
BlackRock Long Term Private Capital	2019	Private Equity - Buyout	\$275,000,000	\$155,600,924	\$0	\$245,306,321	\$0	\$0	\$245,306,321 *
Neuberger Berman Sauger Fund, LP	2013	Private Equity - Multi-Stage	\$200,000,000	\$139,200,000	\$120,910,000	\$252,722,841	\$0	\$17,500,000	\$235,634,398 *
GTCR Fund XIII, LP	2020	Private Equity - Buyout	\$100,000,000	\$0	\$0	\$2,086,985	\$7,060,000	\$0	\$8,730,770 *
Veritas Capital Vantage Fund, LP	2021	Private Equity - Buyout	\$40,000,000	\$0	\$0	\$0	\$428,735	\$0	\$0 *
Nautic Partners X	2021	Private Equity - Buyout	\$60,000,000	\$0	\$0	\$0	\$0	\$0	\$0 *
Valor Equity Partners V, LP	2020	Private Equity - Growth Equity	\$50,000,000	\$24,958,566	\$0	\$33,868,594	\$7,644,387	\$0	\$41,233,179 *
TOTAL			\$1,192,950,000	\$1,177,600,146	\$1,189,038,701	\$907,716,416	\$17,352,765	\$37,444,242	\$889,865,835

Cheyenne Capital Fund valuations set forth herein could be materially different once underlying investments are realized. Market conditions at the time of exit could be substantially different than at the reporting period, resulting in valuations different than those represented above. Paid In Capital is adjusted for closing true-ups and closing fee remittances. Expense Contributions included in Paid In Capital and Income/Gain Distributions included in Distributions - Total are not reflected in preliminary valuations. All valuations shown include unrealized appreciation. Current quarter cash flows for Cheyenne Capital are unavailable.

Wyoming State Treasurer's Office
Alternative Investment Private Real Estate Fund Performance Listing

As of September 30, 2021

Fund Name	Vintage	Asset Class	Commitment	As of 6/30/2021			Quarter To Date Ending 9/30/2021		
				Paid In Capital	Distributions - Total	Valuation	Paid In Capital	Distributions - Total	Valuation
Cornerstone Core Mortgage Fund I	2010	Real Estate - Value Added	\$27,225,000	\$25,235,654	\$34,144,840	\$0	\$0	\$0	\$0
Heitman Value Partners II	2007	Real Estate - Value Added	\$10,000,000	\$9,647,233	\$14,158,891	\$0	\$0	\$0	\$0
M&G Real Estate Debt Fund III	2013	Real Estate - Value Added	\$111,276,360	\$124,040,916	\$117,371,174	\$15,382,884	\$0	\$1,275,561	\$14,725,707 *
Northwood Real Estate Partners (Series IV)	2013	Real Estate - Opportunistic	\$150,000,000	\$198,121,223	\$149,296,449	\$171,559,302	\$10,369,351	\$7,044,574	\$175,745,815 *
SC Core Fund	2016	Real Estate - Value Added	\$100,000,000	\$100,538,151	\$9,195,756	\$110,493,553	\$0	\$1,967,976	\$110,493,553 *
Realterm Logistics Income Fund	2020	Real Estate - Value Added	\$250,000,000	\$150,000,000	\$4,298,319	\$169,555,828	\$0	\$1,554,521	\$169,555,828 *
TA Realty VIII	2006	Real Estate - Value Added	\$15,000,000	\$15,000,000	\$14,904,443	\$0	\$0	\$0	\$0
WestRiver RE Finance Fund	2010	Real Estate - Value Added	\$75,000,000	\$62,695,038	\$102,287,718	\$8,548,011	\$0	\$0	\$8,548,011 *
TOTAL			\$738,501,360	\$685,278,215	\$445,657,590	\$475,539,578	\$10,369,351	\$11,842,632	\$479,068,915

M&G commitment is converted using the noon New York City Federal exchange rate on the date of the report, while M&G cash flows are converted on the date of the flow.

Paid In Capital is adjusted for closing true-ups and closing fee remittances. Expense Contributions included in Paid In Capital and Income/Gain Distributions included in Distributions - Total are not reflected in preliminary valuations. All valuations shown include unrealized appreciation.

Wyoming State Treasurer's Office
Alternative Investment Diversified Hedge Funds Fund Performance Listing

As of September 30, 2021

Fund Name	Vintage	Asset Class	Commitment	As of 6/30/2021			Quarter To Date Ending 9/30/2021		
				Paid In Capital	Distributions - Total	Valuation	Paid In Capital	Distributions - Total	Valuation
Grosvenor Silvery Lupine Fund, LLC	2014	Hedge Funds - Opportunistic	\$300,000,000	\$300,000,000	\$353,200,000	\$32,584,996	\$0	\$0	\$32,709,657 *
Grosvenor Global Recovery Fund, Ltd.	2009	Hedge Funds - Opportunistic	\$150,000,000	\$150,000,000	\$199,755,208	\$0	\$0	\$0	\$0
TOTAL			\$450,000,000	\$450,000,000	\$552,955,208	\$32,584,996	\$0	\$0	\$32,709,657

Paid In Capital is adjusted for closing true-ups and closing fee remittances. Expense Contributions included in Paid In Capital and Income/Gain Distributions included in Distributions - Total are not reflected in preliminary valuations. All valuations shown include unrealized appreciation.

PORTLAND

BOISE

CHICAGO

NEW YORK

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