



Alternative Investment Supplemental Disclosure

Wyoming State Treasurer's Office

Period Ended: March 31, 2017



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General Comments

- Through this reporting period, Wyoming State Treasurer's Office has committed a total of \$1,544,611,220 to 13 non-marketable alternative investments.
- The average age of active investments (based upon vintage year and weighted by commitment) was 5.73 years.
- A total of \$1,610,060,893 has been called or otherwise contributed to date.
- Distributions have totaled \$933,286,096 since plan inception.
- The residual estimated value of interests in these partnerships/investments is \$1,176,277,462.
- Since inception net performance for the investments are as follows:
 - Annualized since-inception estimated Internal Rate of Return (IRR) of 11.08%.
 - 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 9.37% indicating roughly 170 basis points of annualized out-performance.
 - For every \$1 paid into the portfolio, \$1.31 has been returned as a distribution or is held in residual value (multiple on invested capital = 1.31x).

Hedge Funds - Opportunistic

- Hedge Funds - Opportunistic funds account for 29.13% of commitments, 27.95% of contributed funds, 21.40% of distributed funds, and 28.84% of reported residual value.
- Pooled portfolio since inception performance is as follows:
 - Annualized since-inception IRR of 8.90%
 - S&P 500 Index (Cap Wtd) IRR of 11.70%
 - A multiple on invested capital of 1.20x.

Private Equity - Multi-Stage

- Private Equity - Multi-Stage funds account for 42.60% of commitments, 49.71% of contributed funds, 62.12% of distributed funds, and 47.42% of reported residual value.
- Pooled portfolio since inception performance is as follows:
 - Annualized since-inception IRR of 13.11%
 - S&P 500 Index (Cap Wtd) IRR of 7.38%
 - A multiple on invested capital of 1.42x.

Private Equity - Venture

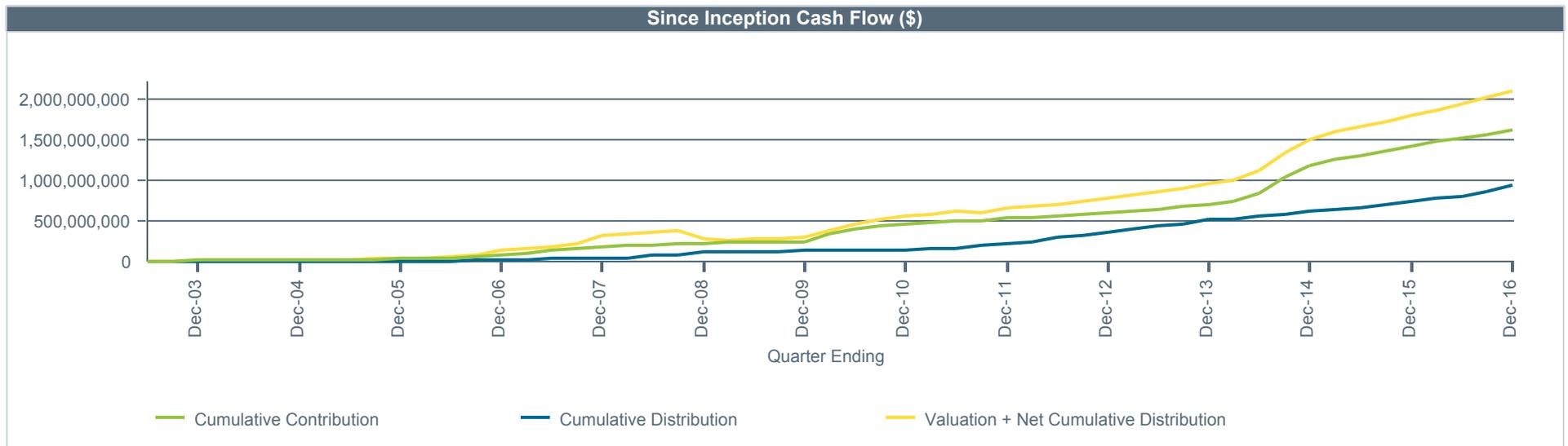
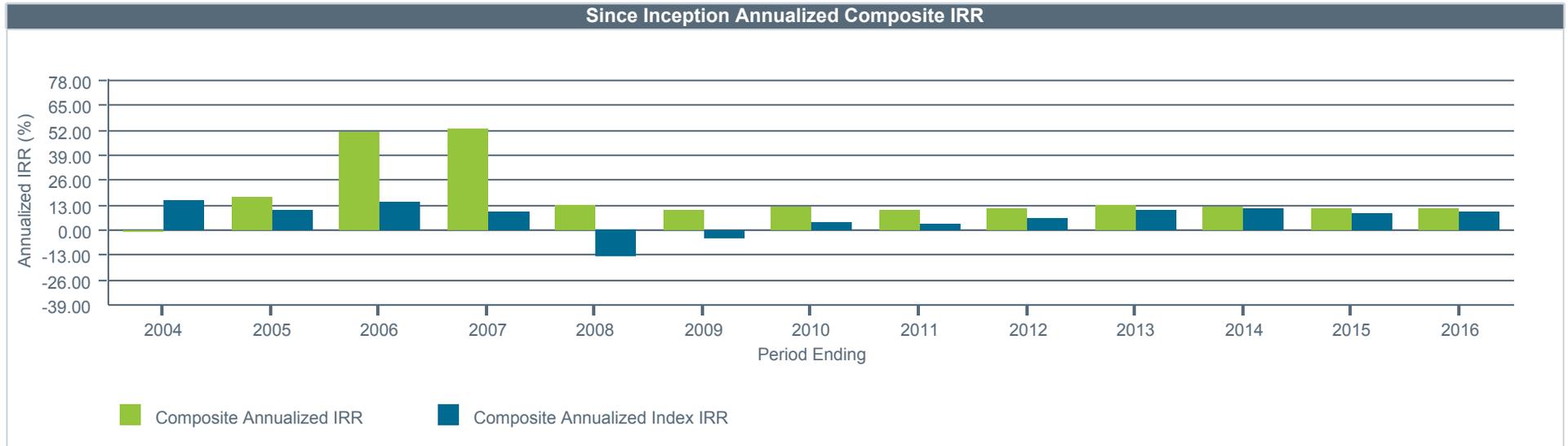
- Private Equity - Venture funds account for 0.65% of commitments, 0.62% of contributed funds, 0.29% of distributed funds, and 1.27% of reported residual value.
- Pooled portfolio since inception performance is as follows:
 - Annualized since-inception IRR of 10.46%
 - S&P 500 Index (Cap Wtd) IRR of 12.95%
 - A multiple on invested capital of 1.76x.

Real Estate - Opportunistic

- Real Estate - Opportunistic funds account for 9.71% of commitments, 6.91% of contributed funds, 5.01% of distributed funds, and 7.95% of reported residual value.
- Pooled portfolio since inception performance is as follows:
 - Annualized since-inception IRR of 13.08%
 - S&P 500 Index (Cap Wtd) IRR of 8.80%
 - A multiple on invested capital of 1.26x.

Real Estate - Value Added

- Real Estate - Value Added funds account for 17.91% of commitments, 14.82% of contributed funds, 11.17% of distributed funds, and 14.52% of reported residual value.
- Pooled portfolio since inception performance is as follows:
 - Annualized since-inception IRR of 5.23%
 - S&P 500 Index (Cap Wtd) IRR of 11.71%
 - A multiple on invested capital of 1.15x.



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.



Wyoming State Treasurer's Office
Alternative Investment Asset Class Composite Performance

As of December 31, 2016

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	199,748,121	339,262,610	8.90	11.70	1.20
Private Equity - Multi-Stage	657,950,000	800,290,930	579,774,017	557,841,599	13.11	7.38	1.42
Private Equity - Venture	10,000,000	10,000,000	2,736,080	14,885,921	10.46	12.95	1.76
Real Estate - Opportunistic	150,000,000	111,195,838	46,778,993	93,534,051	13.08	8.80	1.26
Real Estate - Value Added	276,661,220	238,574,125	104,248,885	170,753,281	5.23	11.71	1.15
	1,544,611,220	1,610,060,893	933,286,096	1,176,277,462	11.08	9.37	1.31

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): 5.73

Vintage Year	Commitment (\$)	Paid In Capital (\$)	Distributions (\$)	Valuation (\$)	Vintage Year IRR (%)	Index IRR (%)	Vintage Year Multiple	Cumulative Multiple
2003	257,950,000	554,982,421	532,582,850	316,599,211	13.25	7.09	1.53	1.53
2006	25,000,000	25,000,000	9,421,375	22,505,652	3.49	9.28	1.28	1.52
2007	10,000,000	9,647,233	13,780,834	332,704	8.55	11.33	1.46	1.52
2009	150,000,000	150,000,000	199,748,121	0	12.54	14.40	1.33	1.48
2010	102,225,000	87,930,692	69,409,828	59,533,845	9.98	13.70	1.47	1.48
2013	649,436,220	457,140,414	108,343,088	412,177,325	8.92	9.32	1.14	1.36
2014	300,000,000	300,000,000	0	339,262,610	5.84	7.99	1.13	1.31
2016	50,000,000	25,360,133	0	25,866,115	N/M	N/M	1.02	1.31
TOTAL	1,544,611,220	1,610,060,893	933,286,096	1,176,277,462	11.08	9.37		1.31

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 Fund Performance Listing

As of December 31, 2016

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	\$2,736,080	\$2,736,080	\$0	\$14,885,921	10.46	2nd	12.95	1.76
Cheyenne Capital Fund, LP	2003	Private Equity - Multi-Stage	\$257,950,000	\$554,982,421	\$532,582,850	\$21,299,277	\$511,283,573	\$316,599,211	13.25	2nd	7.09	1.53
Hamilton Lane Wyoming Nowood Fund, LP	2013	Private Equity - Multi-Stage	\$200,000,000	\$129,108,509	\$40,191,167	\$5,852,925	\$34,338,242	\$99,480,628	7.06	3rd	9.94	1.08
Neuberger Berman Sauger Fund, LP	2013	Private Equity - Multi-Stage	\$200,000,000	\$116,200,000	\$7,000,000	\$0	\$7,000,000	\$141,761,760	14.91	2nd	8.99	1.28
Cornerstone Core Mortgage Fund I	2010	Real Estate - Value Added	\$27,225,000	\$25,235,654	\$23,254,882	\$18,462,513	\$4,792,369	\$10,217,067	6.94	N/A	14.02	1.33
Heitman Value Partners II	2007	Real Estate - Value Added	\$10,000,000	\$9,647,233	\$13,780,834	\$6,241,534	\$7,539,300	\$332,704	8.55	N/A	11.33	1.46
M&G Real Estate Debt Fund III	2013	Real Estate - Value Added	\$99,436,220	\$100,636,067	\$14,372,928	\$8,077,425	\$6,295,503	\$77,400,886	-7.08	N/A	9.98	0.91
Northwood Real Estate Partners (Series IV)	2013	Real Estate - Opportunistic	\$150,000,000	\$111,195,838	\$46,778,993	\$23,271,875	\$23,507,118	\$93,534,051	13.08	N/A	8.8	1.26
SC Core Fund	2016	Real Estate - Value Added	\$50,000,000	\$25,360,133	\$0	\$0	\$0	\$25,866,115	N/M	N/A	N/M	1.02
TA Realty VIII	2006	Real Estate - Value Added	\$15,000,000	\$15,000,000	\$6,685,295	\$1,422,877	\$5,262,418	\$7,619,731	-0.59	N/A	7.81	0.95
WestRiver RE Finance Fund	2010	Real Estate - Value Added	\$75,000,000	\$62,695,038	\$46,154,946	\$20,945,947	\$25,208,999	\$49,316,778	11.34	N/A	13.52	1.52
Grosvenor Silvery Lupine Fund, LLC	2014	Hedge Funds - Opportunistic	\$300,000,000	\$300,000,000	\$0	\$0	\$0	\$339,262,610	5.84	N/A	7.99	1.13
Grosvenor Global Recovery Fund, Ltd.	2009	Hedge Funds - Opportunistic	\$150,000,000	\$150,000,000	\$199,748,121	\$47,985,542	\$151,762,578	\$0	12.54	N/A	14.4	1.33
TOTAL			\$1,544,611,220	\$1,610,060,893	\$933,286,096	\$156,295,996	\$776,990,100	\$1,176,277,462	11.08		9.37	1.31

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 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 Thomson Reuters.

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. 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. Grosvenor Global Recovery Fund paid its final distribution in June 2015.



Wyoming State Treasurer's Office
Alternative Investment Fund Performance Listing

As of March 31, 2017

Fund Name	Vintage	Asset Class	Commitment	As of 12/31/2016			Quarter To Date Ending 3/31/2017		
				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	\$2,736,080	\$14,885,921	\$0	\$0	\$14,734,664
Cheyenne Capital Fund, LP	2003	Private Equity - Multi-Stage	\$257,950,000	\$554,982,421	\$532,582,850	\$316,599,211	\$0	\$0	\$316,599,211 *
Hamilton Lane Wyoming Nowood Fund, LP	2013	Private Equity - Multi-Stage	\$200,000,000	\$129,108,509	\$40,191,167	\$99,480,628	\$2,524,500	\$6,803,817	\$95,809,371 *
Neuberger Berman Sauger Fund, LP	2013	Private Equity - Multi-Stage	\$200,000,000	\$116,200,000	\$7,000,000	\$141,761,760	\$6,000,000	\$0	\$147,761,760 *
Cornerstone Core Mortgage Fund I	2010	Real Estate - Value Added	\$27,225,000	\$25,235,654	\$23,254,882	\$10,217,067	\$0	\$183,895	\$10,165,690
Heitman Value Partners II	2007	Real Estate - Value Added	\$10,000,000	\$9,647,233	\$13,780,834	\$332,704	\$0	\$0	\$357,677
M&G Real Estate Debt Fund III	2013	Real Estate - Value Added	\$99,436,220	\$100,636,067	\$14,372,928	\$77,400,886	\$1,244,399	\$6,919,029	\$74,367,747
Northwood Real Estate Partners (Series IV)	2013	Real Estate - Opportunistic	\$150,000,000	\$111,195,838	\$46,778,993	\$93,534,051	\$23,049,702	\$59,465	\$117,735,541
SC Core Fund	2016	Real Estate - Value Added	\$50,000,000	\$25,360,133	\$0	\$25,866,115	\$2,835,753	\$13,603,086	\$15,085,385
TA Realty VIII	2006	Real Estate - Value Added	\$15,000,000	\$15,000,000	\$6,685,295	\$7,619,731	\$0	\$258,286	\$7,420,648
WestRiver RE Finance Fund	2010	Real Estate - Value Added	\$75,000,000	\$62,695,038	\$46,154,946	\$49,316,778	\$0	\$3,715,257	\$46,996,606
Grosvenor Silvery Lupine Fund, LLC	2014	Hedge Funds - Opportunistic	\$300,000,000	\$300,000,000	\$0	\$339,262,610	\$0	\$20,300,000	\$328,374,955
Grosvenor Global Recovery Fund, Ltd.	2009	Hedge Funds - Opportunistic	\$150,000,000	\$150,000,000	\$199,748,121	\$0	\$0	\$0	\$0
TOTAL			\$1,544,611,220	\$1,610,060,893	\$933,286,096	\$1,176,277,462	\$35,654,354	\$51,842,834	\$1,175,409,254

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. Valuations shown for Hamilton Lane & Heitman as of the current quarter-end include a distribution payable in the month following quarter-end.

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 as of June 30, 2016 shown above may differ from the traditional investment performance report due to the exclusion of assets held in cash. 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 for fiscal year-end are finalized and include unrealized appreciation. Grosvenor Global Recovery Fund paid its final distribution in June 2015.



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