

# TABLE OF CONTENTS

	Page
Executive Summary	3
Composite Performance & Cash Flow Summary	6
Asset Composite Report	7
Vintage Year Composite Report	8
Fund Performance Report	9
Reconciliation with Traditional Report	12



#### **General Comments**

- Through this reporting period, Wyoming State Treasurer's Office has committed a total of \$1,600,212,920 to 13 non-marketable alternative investments.
- The average age of active investments (based upon vintage year and weighted by commitment) was 7.77 years.
- A total of \$1,875,185,619 has been called or otherwise contributed to date.
- Distributions have totaled \$1,601,667,589 since plan inception.
- The residual estimated value of interests in these partnerships/investments is \$1,079,180,609.
- Since inception net performance for the investments are as follows:
  - O Annualized since-inception estimated Internal Rate of Return (IRR) of 11.39%.
  - O 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 10.46% indicating roughly 92 basis points of annualized out-performance.
  - O For every \$1 paid into the portfolio, \$1.43 has been returned as a distribution or is held in residual value (multiple on invested capital = 1.43x).



Wyoming State Treasurer's Office
As of March 31, 2019

### **Executive Summary**

#### **Hedge Funds - Opportunistic**

- Hedge Funds Opportunistic funds account for 28.12% of commitments, 24.00% of contributed funds, 24.47% of distributed funds, and 17.98% of reported residual value.
- Pooled portfolio since inception performance is as follows:
  - Annualized since-inception IRR of 8.46%
  - S&P 500 Index (Cap Wtd) IRR of 12.38%
  - O A multiple on invested capital of 1.30x.

#### **Private Equity - Multi-Stage**

- Private Equity Multi-Stage funds account for 41.12% of commitments, 50.47% of contributed funds, 56.79% of distributed funds, and 51.61% of reported residual value.
- Pooled portfolio since inception performance is as follows:
  - Annualized since-inception IRR of 13.45%
  - S&P 500 Index (Cap Wtd) IRR of 8.58%
  - O A multiple on invested capital of 1.55x.

#### **Private Equity - Venture**

- Private Equity Venture funds account for 0.62% of commitments, 0.53% of contributed funds, 0.92% of distributed funds, and 0.34% of reported residual value.
- Pooled portfolio since inception performance is as follows:
  - Annualized since-inception IRR of 9.18%
  - S&P 500 Index (Cap Wtd) IRR of 13.41%
  - A multiple on invested capital of 1.84x.

### Real Estate - Opportunistic

- Real Estate Opportunistic funds account for 9.37% of commitments, 8.74% of contributed funds, 5.05% of distributed funds, and 14.20% of reported residual value.
- Pooled portfolio since inception performance is as follows:
  - Annualized since-inception IRR of 13.71%
  - S&P 500 Index (Cap Wtd) IRR of 10.80%
  - A multiple on invested capital of 1.43x.



Wyoming State Treasurer's Office

As of March 31, 2019

Executive Summary

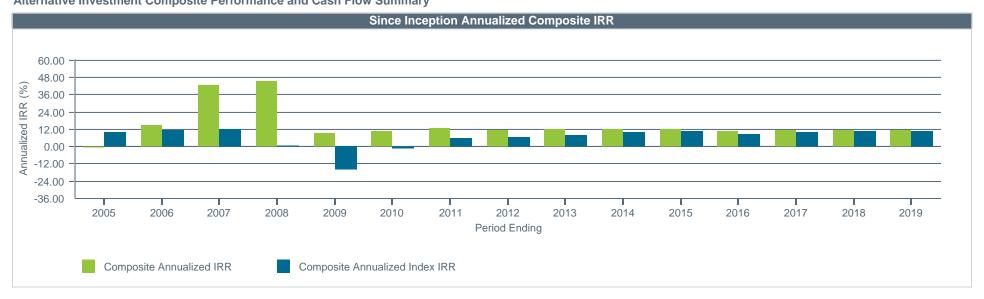
### **Real Estate - Value Added**

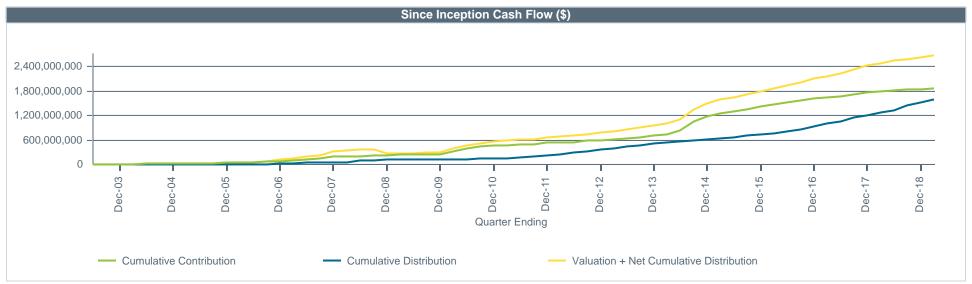
• Real Estate - Value Added funds account for 20.76% of commitments, 16.25% of contributed funds, 12.78% of distributed funds, and 15.87% of reported residual value.

- Pooled portfolio since inception performance is as follows:
  - O Annualized since-inception IRR of 6.71%
  - S&P 500 Index (Cap Wtd) IRR of 12.20%
  - O A multiple on invested capital of 1.23x.



As of March 31, 2019





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 As of March 31, 2019

### **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	391,848,121	193,989,491	8.46	12.38	1.30
Private Equity - Multi-Stage	657,950,000	946,472,812	909,579,024	556,962,630	13.45	8.58	1.55
Private Equity - Venture	10,000,000	10,000,000	14,739,281	3,708,843	9.18	13.41	1.84
Real Estate - Opportunistic	150,000,000	163,944,118	80,826,213	153,283,039	13.71	10.80	1.43
Real Estate - Value Added	332,262,920	304,768,689	204,674,950	171,236,607	6.71	12.20	1.23
	1,600,212,920	1,875,185,619	1,601,667,589	1,079,180,609	11.39	10.46	1.43

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.



## Wyoming State Treasurer's Office Alternative Investment Vintage Year Composite

Average Commitment-weighted Active Investment Age (in years): 7.77

Vintage Year	Commitment (\$)	Paid In Capital (\$)	Distributions (\$)	Valuation (\$)	Vintage Year IRR (%)	Index IRR (%)	Vintage Year Multiple	Cumulative Multiple
2003	257,950,000	602,329,338	781,201,279	213,293,569	13.63	7.72	1.65	1.65
2006	25,000,000	25,000,000	29,611,932	3,748,196	3.60	10.16	1.33	1.64
2007	10,000,000	9,647,233	14,137,084	19,909	8.58	11.50	1.47	1.64
2009	150,000,000	150,000,000	199,748,121	0	12.54	14.24	1.33	1.58
2010	102,225,000	87,930,692	92,499,970	49,178,941	10.14	13.67	1.61	1.58
2013	655,037,920	632,296,770	289,845,097	546,013,530	11.32	11.35	1.32	1.47
2014	300,000,000	300,000,000	192,100,000	193,989,491	6.58	10.74	1.29	1.44
2016	100,000,000	67,981,586	2,524,107	72,936,974	9.71	11.86	1.11	1.43
TOTAL	1,600,212,920	1,875,185,619	1,601,667,589	1,079,180,609	11.39	10.46		1.43

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 for all investments through the indicated vintage year.



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

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	\$14,739,281	\$13,275,738	\$1,463,543	\$3,708,843	9.18	2nd	13.41	1.84
Cheyenne Capital Fund, LP	2003	Private Equity - Multi-Stage	\$257,950,000	\$602,329,338	\$781,201,279	\$21,219,215	\$759,982,064	\$213,293,569	13.63	2nd	7.72	1.65
Hamilton Lane Wyoming Nowood Fund, LP		Private Equity - Multi-Stage	\$200,000,000	\$204,943,474	\$101,277,745	\$23,469,350	\$77,808,395	\$149,762,496	10.58	3rd	11.72	1.22
Neuberger Berman Sauger Fund, LP		Private Equity - Multi-Stage	\$200,000,000	\$139,200,000	\$27,100,000	\$0	\$27,100,000	\$193,906,565	14.08	3rd	11.17	1.59
TOTAL			\$667,950,000	\$956,472,812	\$924,318,305	\$57,964,304	\$866,354,001	\$560,671,473	13.35		8.73	1.55

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. 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

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	\$32,255,385	\$27,463,016	\$4,792,369	\$1,829,442	6.69	N/A	10.94	1.35
Heitman Value Partners II	2007	Real Estate - Value Added	\$10,000,000	\$9,647,233	\$14,137,084	\$6,342,696	\$7,794,388	\$19,909	8.58	N/A	7.59	1.47
M&G Real Estate Debt Fund III	2013	Real Estate - Value Added	\$105,037,920	\$124,209,178	\$80,641,139	\$8,392,224	\$72,248,915	\$49,061,430	2.05	N/A	8.19	1.04
Northwood Real Estate Partners (Series IV)	2013	Real Estate - Opportunistic	\$150,000,000	\$163,944,118	\$80,826,213	\$35,591,919	\$45,234,294	\$153,283,039	13.71	N/A	8.82	1.43
SC Core Fund	2016	Real Estate - Value Added	\$100,000,000	\$67,981,586	\$2,524,107	\$2,288,838	\$235,269	\$72,936,974	9.71	N/A	6.90	1.11
TA Realty VIII	2006	Real Estate - Value Added	\$15,000,000	\$15,000,000	\$14,872,651	\$1,450,837	\$13,421,814	\$39,353	-0.07	N/A	6.34	0.99
WestRiver RE Finance Fund	2010	Real Estate - Value Added	\$75,000,000	\$62,695,038	\$60,244,585	\$26,247,279	\$33,997,306	\$47,349,499	11.47	N/A	10.33	1.72
TOTAL			\$482,262,920	\$468,712,807	\$285,501,163	\$107,776,809	\$177,724,355	\$324,519,646	8.74		8.95	1.30

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 Property 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 Thomson Reuters.

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

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	\$192,100,000	\$37,981,251	\$154,118,749	\$193,989,491	6.58	N/A	10.74	1.29
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	14.24	1.33
TOTAL			\$450,000,000	\$450,000,000	\$391,848,121	\$85,966,793	\$305,881,328	\$193,989,491	8.46		12.38	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 Thomson Retuters.

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.



				1	As of 03/31/2019		Quarter To Date Ending 06/30/2019			
Fund Name	Vintage	Asset Class	Commitment	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	\$14,739,281	\$3,708,843	\$0	\$1,802,043	\$1,865,656	
Cheyenne Capital Fund, LP	2003	Private Equity - Multi-Stage	\$257,950,000	\$602,329,338	\$781,201,279	\$213,293,569	\$2,316,514	\$10,640,277	\$211,623,592	
Hamilton Lane Wyoming Nowood Fund, LP	2013	Private Equity - Multi-Stage	\$200,000,000	\$204,943,474	\$101,277,745	\$149,762,496	\$4,080,239	\$4,222,283	\$151,720,725	
Neuberger Berman Sauger Fund, LP	2013	Private Equity - Multi-Stage	\$200,000,000	\$139,200,000	\$27,100,000	\$193,906,565	\$0	\$4,000,000	\$198,426,794	
TOTAL		· ·	\$667,950,000	\$956,472,812	\$924,318,305	\$560,671,473	\$6,396,753	\$20,664,603	\$563,636,766	

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 for fiscal year-end are finalized and include unrealized appreciation.



					As of 03/31/2019		Quarter To Date Ending 06/30/2019			
Fund Name	Vintage	Asset Class	Commitment	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	\$32,255,385	\$1,829,442	\$0	\$33,016	\$1,821,910	
Heitman Value Partners II	2007	Real Estate - Value Added	\$10,000,000	\$9,647,233	\$14,137,084	\$19,909	\$0	\$0	\$19,469	
M&G Real Estate Debt Fund III	2013	Real Estate - Value Added	\$105,037,920	\$124,209,178	\$80,641,139	\$49,061,430	-\$23,123	\$798,487	\$47,744,275	
Northwood Real Estate Partners (Series IV)	2013	Real Estate - Opportunistic	\$150,000,000	\$163,944,118	\$80,826,213	\$153,283,039	\$1,865,505	\$18,159,493	\$146,601,385	
SC Core Fund	2016	Real Estate - Value Added	\$100,000,000	\$67,981,586	\$2,524,107	\$72,936,974	\$4,352,824	\$205,994	\$78,983,905	
TA Realty VIII	2006	Real Estate - Value Added	\$15,000,000	\$15,000,000	\$14,872,651	\$39,353	\$0	\$0	\$35,742	
WestRiver RE Finance Fund	2010	Real Estate - Value Added	\$75,000,000	\$62,695,038	\$60,244,585	\$47,349,499	\$0	\$0	\$53,211,171	
TOTAL			\$482,262,920	\$468,712,807	\$285,501,163	\$324,519,646	\$6,195,206	\$19,196,990	\$328,417,856	

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. Valuation shown for Northwood as of the current quarter-end include a distribution payable in the month following quarter-end.

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



				As of 03/31/2019			Quarter '	06/30/2019	
Fund Name	Vintage	Asset Class	Commitment	Paid In Capital	Distributions - Total	Valuation	Paid In Capital	Distributions - Total	Valuation
Grosvenor Silvery Lupine Fund, LLC		Hedge Funds - Opportunistic	\$300,000,000	\$300,000,000	\$192,100,000	\$193,989,491	\$0	\$30,100,000	\$166,179,246
Grosvenor Global Recovery Fund, Ltd.	2009	Hedge Funds - Opportunistic	\$150,000,000	\$150,000,000	\$199,748,121	\$0	\$0	\$0	\$0
TOTAL			\$450,000,000	\$450,000,000	\$391,848,121	\$193,989,491	\$0	\$30,100,000	\$166,179,246

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.



