

California State University Foundation

Portfolio Review - September 30, 2024
Delivered On - November 12, 2024



Graystone Consulting - Santa Rosa, California

Todd Au, CIMA®
Senior Vice President
Institutional Consultant

Tony Parmisano, CFA®
Senior Vice President
Institutional Consultant
Portfolio Manager

Matthew Veal, CFP®
Senior Vice President
Financial Advisor
Senior Investment Management Consultant

Address:

3562 Round Barn Circle, 1st Floor
Santa Rosa, CA 95403

Phones:

Main Line 707-571-5755
Toll-Free 888-267-5868
Fax 707-595-9098

E-Mail:

todd.au@msgraystone.com
anthony.l.parmisano@msgraystone.com
matthew.veal@msgraystone.com

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Capital Markets Overview

Capital Market Benchmarks
Current Quarter, Y-T-D, Trailing 1,3,5 & 10 Year periods

As of September 30, 2024

	Quarter To Date	YTD	Trailing 12 Months	Trailing 3 Years	Trailing 5 Years	Trailing 10 Years
Public Equity						
Global Equities						
MSCI All Country World Index	6.61	18.66	31.76	8.09	12.19	9.39
Domestic Equities						
Russell 3000 Index	6.23	20.63	35.20	10.29	15.26	12.83
S&P 500 Index	5.89	22.08	36.35	11.91	15.98	13.38
Russell 2000 Index	9.27	11.17	26.76	1.84	9.39	8.78
International Equities						
MSCI ACWI ex-US Index	8.06	14.21	25.35	4.14	7.59	5.22
MSCI EAFE Index	7.26	12.99	24.77	5.48	8.20	5.71
MSCI Emerging Markets Index	8.88	17.24	26.54	0.82	6.15	4.41
Fixed Income						
BC Long Treasury Index	7.82	2.42	15.43	-8.36	-4.28	1.09
BC US Aggregate Bond Index	5.20	4.45	11.57	-1.39	0.33	1.84
BC Corporate High Yield Index	5.28	8.00	15.73	3.09	4.70	5.04
Citi World Government Bond Index	6.95	2.72	11.02	-4.41	-2.05	-0.15
Hedge Funds						
HFRI FOF Composite	1.97	6.92	10.28	2.55	5.44	3.67
HFRI Equity Hedge	3.95	10.38	17.44	3.60	8.98	6.15
HFRI Event Driven	4.58	7.55	13.43	4.53	7.38	5.14
HFRI Relative Value	2.56	6.65	9.40	4.31	5.12	4.19
HFRI Macro	-0.60	4.79	3.93	4.29	5.22	3.25
Real Assets/Real Return						
FTSE NAREIT All Equity REITS	16.79	14.23	34.77	3.51	5.09	8.04
Bloomberg Commodity Index TR	0.68	5.86	0.96	3.66	7.79	0.03
MSCI ACWI Commodity Producers	0.63	4.82	4.79	6.49	6.55	2.03
S&P Global Infrastructure Hedged	11.65	18.64	29.25	11.73	7.76	8.01
BB US Tres Infl PN TIPS	4.12	4.85	9.79	-0.57	2.62	2.54

Returns for periods greater than one year are annualized.
Returns are expressed as percentages.

Portfolio Review

CSU Foundation IPS and Allocation Compliance

Type of Fund:	Endowment
Time Horizon:	Perpetuity
Investment Horizon:	10 Years
Real Return Target:	CPI + 4%, net of all fund expenses
Time Horizon Return:	To achieve a rate of return above inflation of 4%, net of all investment management costs
Spending Policy:	4% of 3-year moving average of market valuations
Risk Benchmark:	70% MSCI All Country World Index, 30% Barclays Aggregate Bond Index

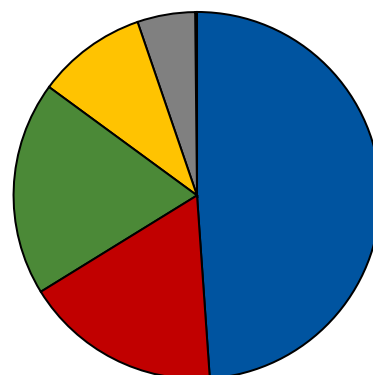
Asset Allocation Summary:

	Current Allocation (%)	Long-term Target (%)	Differences (%)	Minimum Allocation (%)	Maximum Allocation (%)
CSU Foundation Total Fund	100.00	100.00	0.00	-	-
Public Equities	48.89	55.00	-6.11	40.00	70.00
Private Equity	17.31	10.00	7.31	0.00	20.00
Fixed Income	18.86	20.00	-1.14	10.00	30.00
Hedge Funds	9.67	10.00	-0.33	0.00	20.00
Real Assets	5.09	5.00	0.09	0.00	10.00

CSU Foundation Balances and Asset Allocation September 30, 2024

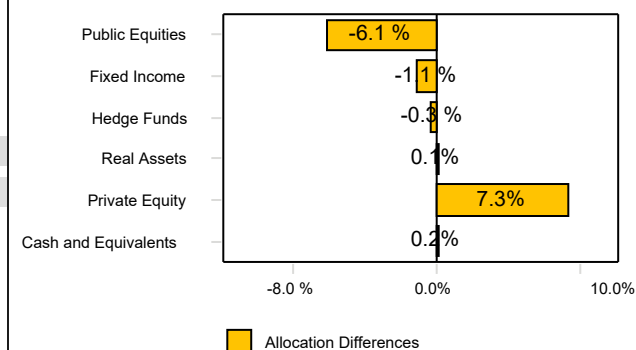
	Total Fund	
	(\$)	%
Domestic Equities	14,645,506	32.80
Brown Advisory LC Sustain Grth	2,170,555	4.86
JP Morgan Large Cap Growth	2,167,818	4.86
Aperio Custom ESG	6,235,580	13.97
Aristotle Large Cap Value	1,794,575	4.02
Earnest Partners Small/Mid Core	472,233	1.06
ClearBridge Large Value ESG	1,804,746	4.04
International and EM Equities	7,182,322	16.09
iShares MSCI EAFE Optimized	2,384,115	5.34
T. Rowe Price Intl Eqty ADR	2,431,766	5.45
GQG Partners Emerging Mkts Fd	513,748	1.15
iShares MSCI EM Optimized	1,261,934	2.83
Martin Currie Emerging Markets	590,758	1.32
Private Equity	7,730,214	17.31
Private Advisors Small Company Buyout VI*	622,934	1.40
KKR Americas Fund XII	1,309,486	2.93
Hamilton Lane Private Markets Opp Fund*	642,104	1.44
CPG Vintage Access Fund, LLC*	687,255	1.54
CPG Vintage Access Fund II, LLC*	793,149	1.78
TrueBridge Select Fund I (Cayman), L.P.*	503,625	1.13
Private Advisors Small Company PE IX, LP*	750,207	1.68
HarbourVest Partners Co-Investment Fund VI LP*	943,552	2.11
Northern Trust Private Equity*	6,598	0.01
TPG Rise Fund III*	488,053	1.09
HarbourVest Access-Dover Street XI*	241,883	0.54
KKR Global Impact Fund II	265,651	0.60
Vistria Fund V*	332,048	0.74
Coller International*	143,669	0.32
Total Equity	29,558,041	66.21
Fixed Income	8,420,483	18.86
BlackRock Fundamental Core Taxable	3,294,150	7.38
JP Morgan Mort Backed Sec Fd	585,443	1.31
Nuveen Core Impact Bond Fund	2,707,637	6.06
CCM Community Impact Bond Fund	1,407,030	3.15
Vanguard Short Term Corp Bond	426,223	0.95
Hedge Funds	4,318,968	9.67
Private Advisors Hedged Equity	730	0.00
Millennium International Ltd	1,130,606	2.53
Sculptor Overseas Fund II Ltd	920,201	2.06
Blackstone Alt MultiStrat Fd	1,203,535	2.70
Verition Fund	1,063,897	2.38
Real Assets	2,273,519	5.09
Blackstone Real Estate Income Trust	1,454,936	3.26
Bridge Workforce & Affordable Housing Fund II LP*	384,670	0.86
Ares Climate Infrastructure Partners LP*	433,912	0.97
Cash and Equivalents	74,195	0.17
Cash Holding Account	74,195	0.17
CSU Foundation Total Fund	44,645,206	100.00

September 30, 2024 : \$44,645,205.7



	Market Value (\$)	Allocation (%)
Public Equities	21,827,827	48.89
Private Equity	7,730,214	17.31
Fixed Income	8,420,483	18.86
Hedge Funds	4,318,968	9.67
Real Assets	2,273,519	5.09
Cash and Equivalents	74,195	0.17

September 30, 2024



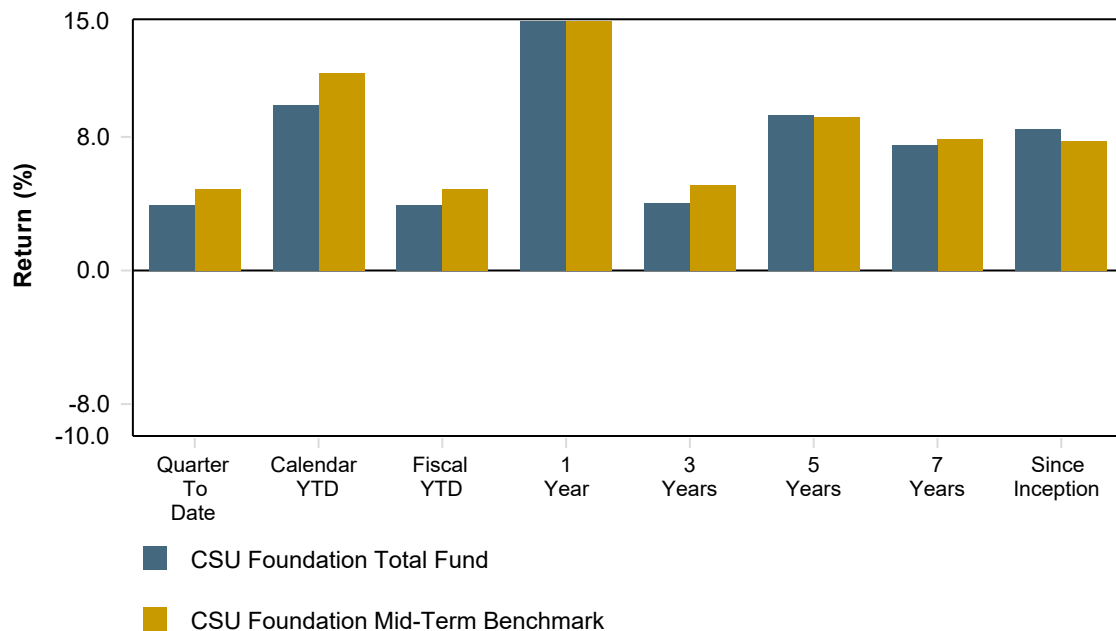
September 30, 2024

	Market Value (\$)	Allocation (%)	Mid-Term Target (%)
Public Equities	21,827,827	48.89	55.00
Fixed Income	8,420,483	18.86	20.00
Hedge Funds	4,318,968	9.67	10.00
Real Assets	2,273,519	5.09	5.00
Private Equity	7,730,214	17.31	10.00
Cash and Equivalents	74,195	0.17	0.00
Total Fund	44,645,206	100.00	100.00

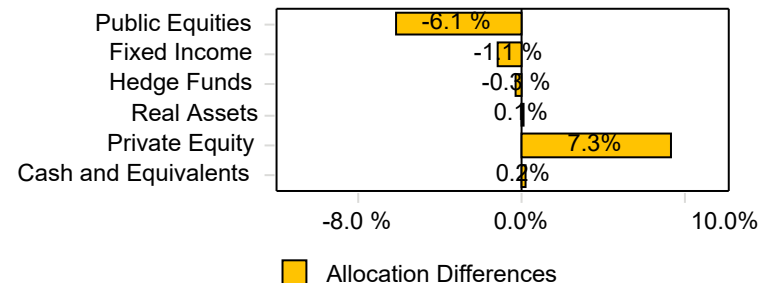
*Value as of 06/30/2024, adjusted for capital calls & distributions through 09/30/2024

**CSU Foundation
Executive Summary
As of September 30, 2024**

Total Fund Performance vs. Benchmark



Asset Allocation vs. Target



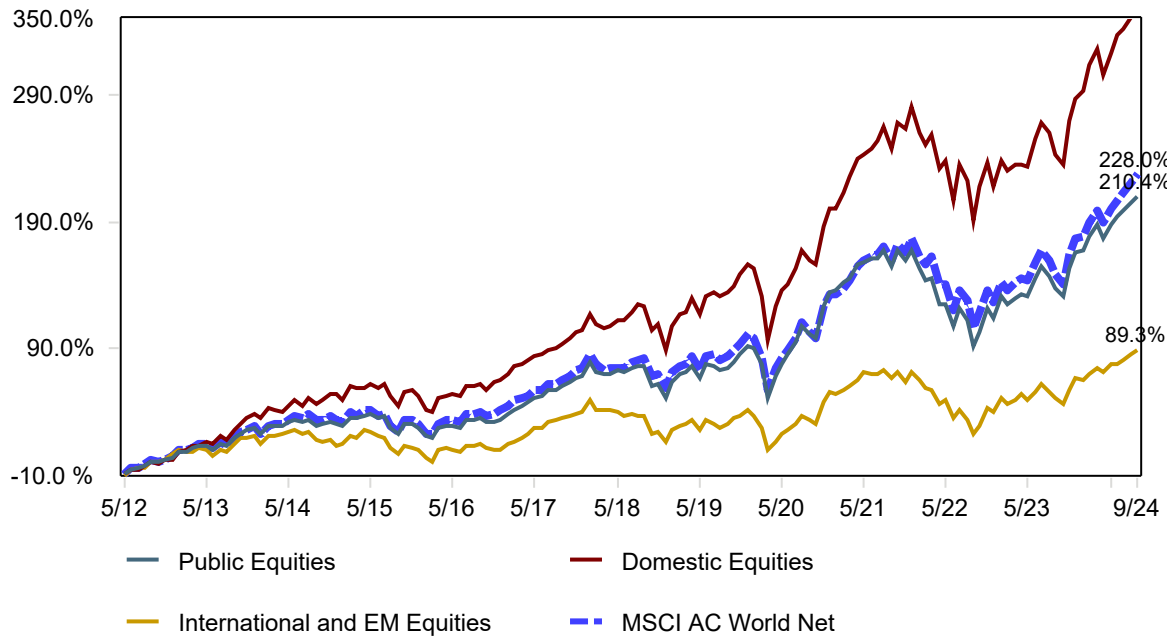
	Market Value (\$)	Allocation (%)	Target (%)
Public Equities	21,827,827	48.89	55.00
Fixed Income	8,420,483	18.86	20.00
Hedge Funds	4,318,968	9.67	10.00
Real Assets	2,273,519	5.09	5.00
Private Equity	7,730,214	17.31	10.00
Cash and Equivalents	74,195	0.17	0.00
Total Fund	44,645,206	100.00	100.00

	Allocation		Performance(%)									
	Market Value (\$)	%	Quarter To Date	YTD	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	Inception Date
CSU Foundation Total Fund	44,645,206	100.00	3.96	10.00	3.96	18.08	4.11	9.42	7.59	6.98	8.57	12/01/2008
CSU Foundation Mid-Term Benchmark			4.87	11.92	4.87	20.62	5.18	9.31	7.99	6.78	7.81	
CPI (w/est) + 4%			1.31	5.11	1.31	6.80	8.97	8.32	7.69	6.94	6.55	
Public Equities	21,827,827	48.89	5.50	16.38	5.50	30.34	6.72	12.12	9.81	9.09	11.72	02/01/2009
MSCI AC World Net			6.61	18.66	6.61	31.76	8.09	12.19	10.23	9.39	11.58	
Fixed Income	8,420,483	18.86	4.99	5.13	4.99	11.67	-0.47	0.92	1.26	1.56	3.70	02/01/2009
Bloomberg US Aggregate			5.20	4.45	5.20	11.57	-1.39	0.33	1.47	1.84	2.91	
Hedge Funds	4,318,968	9.67	1.75	6.84	1.75	9.41	2.74	5.99	5.72	5.84	5.94	07/01/2010
HFRI Fund of Funds Comp			1.97	6.92	1.97	10.28	2.55	5.44	4.30	3.67	3.76	
Real Assets	2,273,519	5.09	0.03	3.56	0.03	0.65	6.52	8.78	3.54	2.24	2.85	07/01/2010
Real Assets Benchmark			0.25	-2.57	0.25	-7.27	-0.19	3.17	3.09	2.47	N/A	

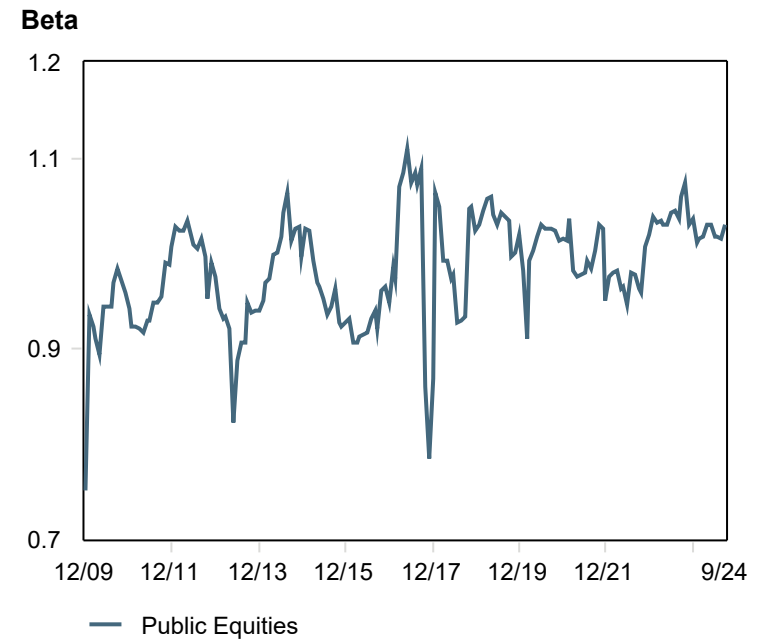
CSU Foundation Executive Summary - Public Equities As of September 30, 2024

	Allocation		Performance(%)									
	Market Value (\$)	%	Quarter To Date	YTD	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	Inception Date
Public Equities	21,827,827	100.00	5.50	16.38	5.50	30.34	6.72	12.12	9.81	9.09	11.72	02/01/2009
MSCI AC World Net			6.61	18.66	6.61	31.76	8.09	12.19	10.23	9.39	11.58	
Domestic Equities	14,645,506	67.10	5.07	18.39	5.07	33.75	9.62	14.30	13.12	12.10	14.59	02/01/2009
Russell 3000			6.23	20.63	6.23	35.20	10.29	15.26	13.74	12.83	15.21	
International and EM Equities	7,182,322	32.90	6.43	13.70	6.43	25.64	4.48	7.78	5.01	4.92	8.76	02/01/2009
MSCI ACWI Ex USA NR USD			8.06	14.21	8.06	25.35	4.14	7.59	5.44	5.22	7.98	

Total Fund Performance vs. Benchmark



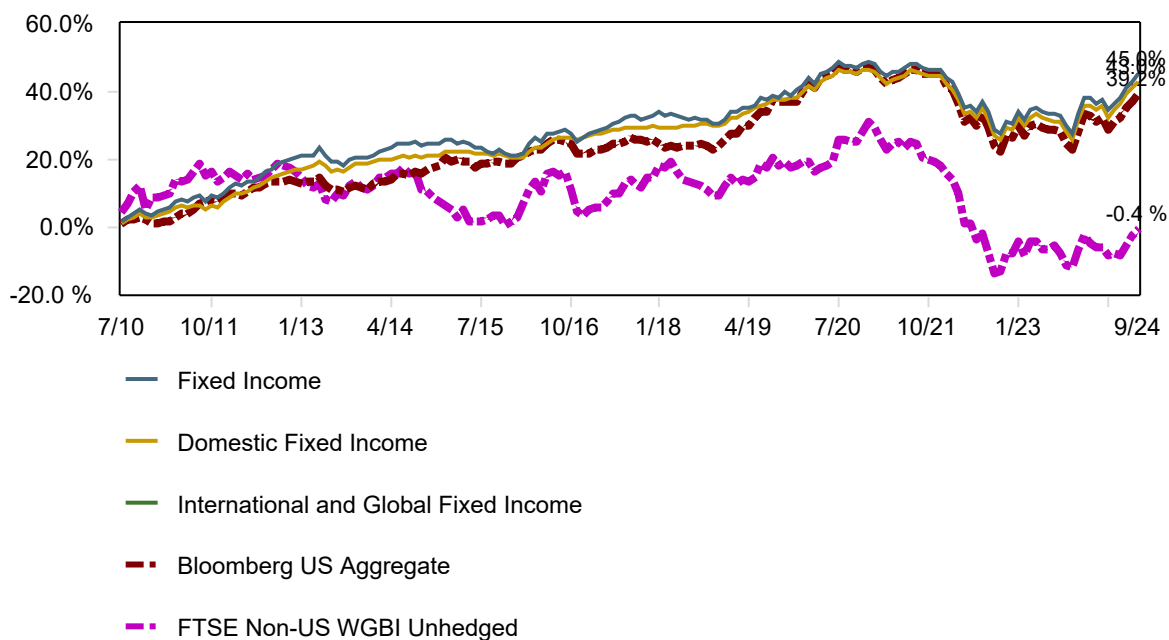
Rolling 12 Month Beta vs. ACWI



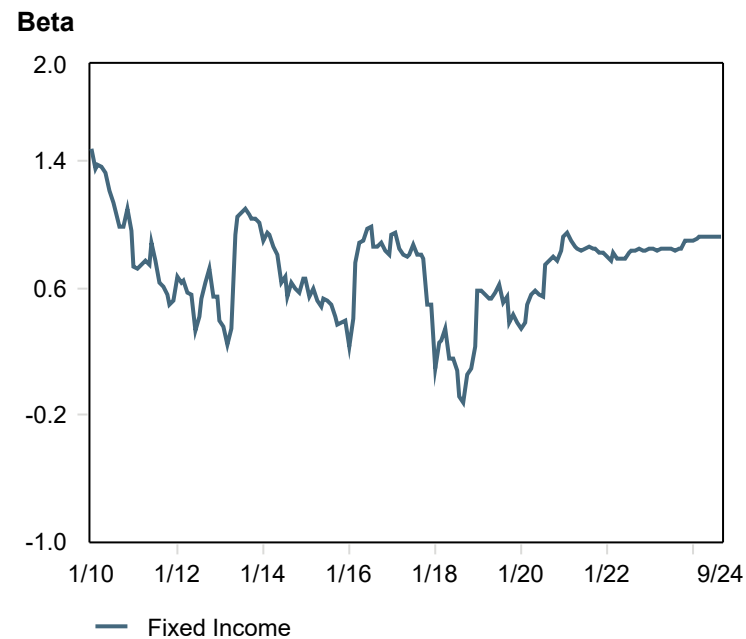
CSU Foundation Executive Summary - Fixed Income As of September 30, 2024

	Allocation		Performance(%)									
	Market Value (\$)	%	Quarter To Date	YTD	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	Inception Date
Fixed Income	8,420,483	100.00	4.99	5.13	4.99	11.67	-0.47	0.92	1.26	1.56	3.70	02/01/2009
Bloomberg US Aggregate			5.20	4.45	5.20	11.57	-1.39	0.33	1.47	1.84	2.91	
Domestic Fixed Income	8,420,483	100.00	4.99	5.13	4.99	11.67	-0.47	0.78	1.42	1.71	3.63	02/01/2009
Bloomberg US Aggregate			5.20	4.45	5.20	11.57	-1.39	0.33	1.47	1.84	2.91	

Total Fund Performance vs. Benchmark



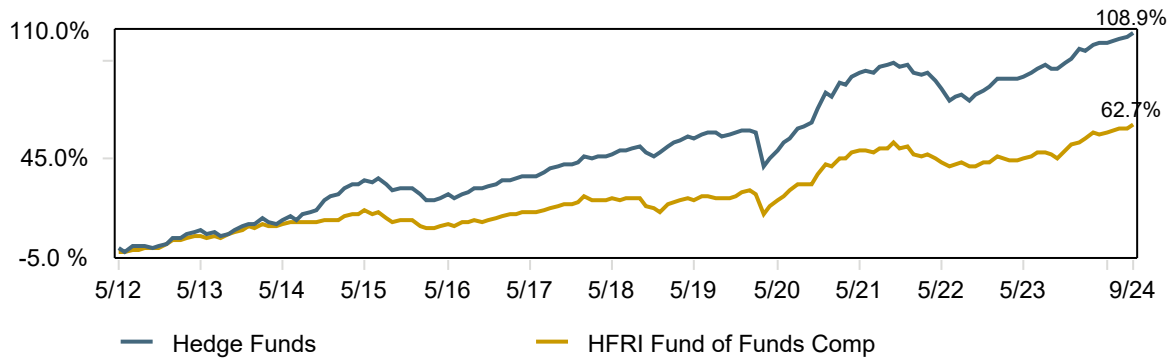
Rolling 12 Month Beta vs. Citi WGBI



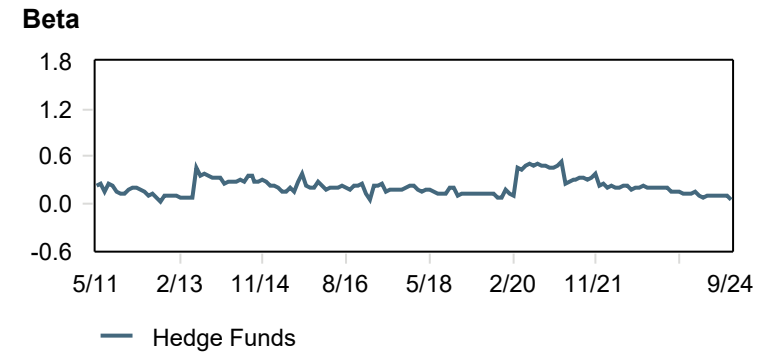
**CSU Foundation
Executive Summary - Alternatives
As of September 30, 2024**

	Allocation		Performance(%)									
	Market Value (\$)	%	Quarter To Date	YTD	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	Inception Date
Hedge Funds	4,318,968		1.75	6.84	1.75	9.41	2.74	5.99	5.72	5.84	5.94	07/01/2010
HFRI Fund of Funds Comp			1.97	6.92	1.97	10.28	2.55	5.44	4.30	3.67	3.76	
Real Assets	2,273,519		0.03	3.56	0.03	0.65	6.52	8.78	3.54	2.24	2.85	07/01/2010
Real Assets Benchmark			0.25	-2.57	0.25	-7.27	-0.19	3.17	3.09	2.47	N/A	

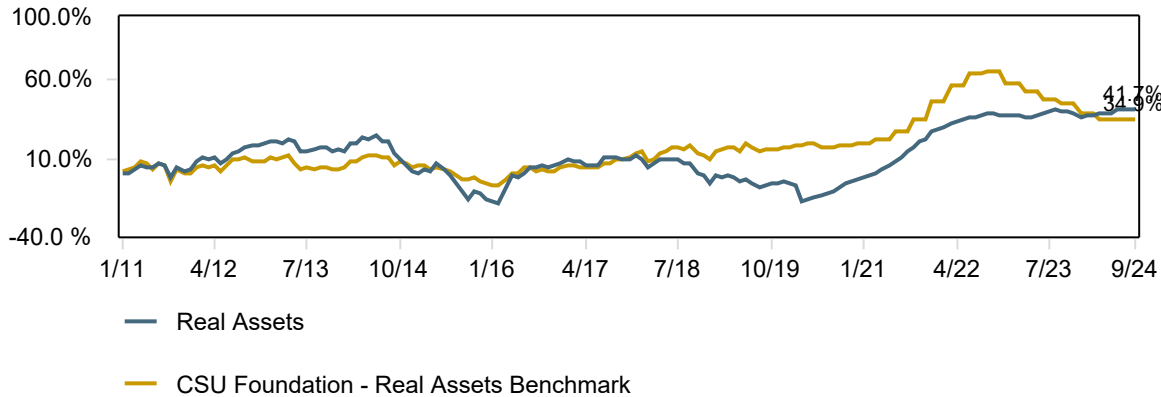
Hedge Funds vs. HFRI Fund of Funds



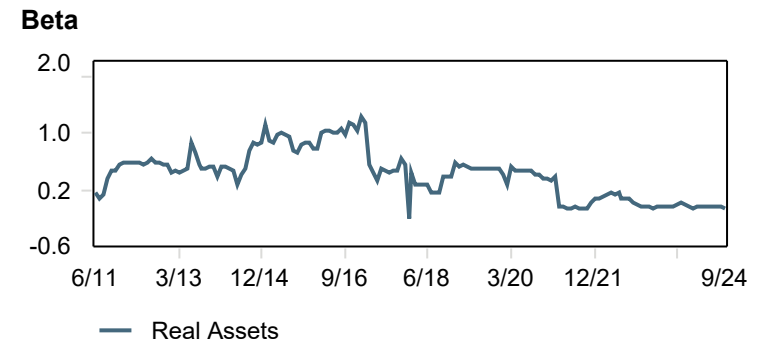
**Hedge Fund
Rolling 12 Month Beta vs. MSCI AC World Net**



Real Assets vs. Real Assets Blend



**Real Assets
Rolling 12 Month Beta vs. MSCI AC World Net**



CSU Foundation
Asset Allocation & Performance
As of September 30, 2024

	Allocation		Performance(%)									
	Market Value (\$)	%	Quarter To Date	YTD	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	Inception Date
CSU Foundation Total Fund	44,645,206	100.00	3.96	10.00	3.96	18.08	4.11	9.42	7.59	6.98	8.57	12/01/2008
CSU Foundation Mid-Term Benchmark			4.87	11.92	4.87	20.62	5.18	9.31	7.99	6.78	7.81	
Difference			-0.91	-1.92	-0.91	-2.54	-1.07	0.11	-0.40	0.20	0.76	
CPI (w/est) + 4%			1.31	5.11	1.31	6.80	8.97	8.32	7.69	6.94	6.55	12/01/2008
Public Equities	21,827,827	48.89	5.50	16.38	5.50	30.34	6.72	12.12	9.81	9.09	11.72	02/01/2009
MSCI AC World Net			6.61	18.66	6.61	31.76	8.09	12.19	10.23	9.39	11.58	
Difference			-1.11	-2.28	-1.11	-1.42	-1.37	-0.07	-0.42	-0.30	0.14	
Domestic Equities	14,645,506	32.80	5.07	18.39	5.07	33.75	9.62	14.30	13.12	12.10	14.59	02/01/2009
Russell 3000			6.23	20.63	6.23	35.20	10.29	15.26	13.74	12.83	15.21	
Difference			-1.16	-2.24	-1.16	-1.45	-0.67	-0.96	-0.62	-0.73	-0.62	
Brown Advisory LC Sustain Grth	2,170,555	4.86	2.56	17.16	2.56	34.40	N/A	N/A	N/A	N/A	24.26	07/01/2023
Russell 1000 Gr			3.19	24.55	3.19	42.19	N/A	N/A	N/A	N/A	29.07	
Difference			-0.63	-7.39	-0.63	-7.79	N/A	N/A	N/A	N/A	-4.81	
JP Morgan Large Cap Growth	2,167,818	4.86	2.57	27.66	2.57	45.21	N/A	N/A	N/A	N/A	30.98	07/01/2023
Russell 1000 Gr			3.19	24.55	3.19	42.19	N/A	N/A	N/A	N/A	29.07	
Difference			-0.62	3.11	-0.62	3.02	N/A	N/A	N/A	N/A	1.91	
Aperio Custom ESG	6,235,580	13.97	5.70	21.16	5.70	35.67	11.36	15.30	N/A	N/A	14.78	08/01/2019
S&P 500 Total Return			5.89	22.08	5.89	36.35	11.91	15.98	N/A	N/A	15.46	
Difference			-0.19	-0.92	-0.19	-0.68	-0.55	-0.68	N/A	N/A	-0.68	
Aristotle Large Cap Value	1,794,575	4.02	6.55	12.17	6.55	28.33	7.10	12.62	11.33	11.71	12.62	07/01/2013
Russell 1000 Value			9.43	16.68	9.43	27.76	9.03	10.69	9.53	9.23	10.21	
Difference			-2.88	-4.51	-2.88	0.57	-1.93	1.93	1.80	2.48	2.41	
ClearBridge Large Value ESG	1,804,746	4.04	6.59	12.11	6.59	26.09	N/A	N/A	N/A	N/A	18.00	07/01/2023
Russell 1000 Value			9.43	16.68	9.43	27.76	N/A	N/A	N/A	N/A	18.48	
Difference			-2.84	-4.57	-2.84	-1.67	N/A	N/A	N/A	N/A	-0.48	
Earnest Partners Small/Mid Core	472,233	1.06	10.08	9.17	10.08	22.83	5.69	N/A	N/A	N/A	5.50	08/01/2021
Russell Midcap			9.21	14.63	9.21	29.33	5.75	N/A	N/A	N/A	4.87	
Difference			0.87	-5.46	0.87	-6.50	-0.06	N/A	N/A	N/A	0.63	

See Disclosures for Benchmark Descriptions

CSU Foundation
Asset Allocation & Performance
As of September 30, 2024

	Allocation		Performance(%)									
	Market Value (\$)	%	Quarter To Date	YTD	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	Inception Date
International and EM Equities	7,182,322	16.09	6.43	13.70	6.43	25.64	4.48	7.78	5.01	4.92	8.76	02/01/2009
MSCI ACWI Ex USA NR USD			8.06	14.21	8.06	25.35	4.14	7.59	5.44	5.22	7.98	
Difference			-1.63	-0.51	-1.63	0.29	0.34	0.19	-0.43	-0.30	0.78	
iShares MSCI EAFE Optimized	2,384,115	5.34	6.88	13.47	6.88	25.34	5.41	8.50	N/A	N/A	8.54	08/01/2019
MSCI EAFE ESG Focus NR USD			7.14	13.30	7.14	24.79	5.34	8.45	N/A	N/A	8.32	
Difference			-0.26	0.17	-0.26	0.55	0.07	0.05	N/A	N/A	0.22	
T. Rowe Price Intl Eqty ADR	2,431,766	5.45	6.60	12.66	6.60	23.99	N/A	N/A	N/A	N/A	14.64	07/01/2023
MSCI EAFE Net			7.26	12.99	7.26	24.77	N/A	N/A	N/A	N/A	15.36	
Difference			-0.66	-0.33	-0.66	-0.78	N/A	N/A	N/A	N/A	-0.72	
GQG Partners Emerging Mkts Fd	513,748	1.15	-1.47	14.32	-1.47	27.28	5.37	N/A	N/A	N/A	4.36	04/01/2021
MSCI EM Net			8.72	16.86	8.72	26.05	0.40	N/A	N/A	N/A	-0.66	
Difference			-10.19	-2.54	-10.19	1.23	4.97	N/A	N/A	N/A	5.02	
iShares MSCI EM Optimized	1,261,934	2.83	8.59	14.38	8.59	23.45	N/A	N/A	N/A	N/A	16.64	06/01/2023
MSCI EM ESG Focus NR USD			9.96	15.79	9.96	25.01	N/A	N/A	N/A	N/A	18.68	
Difference			-1.37	-1.41	-1.37	-1.56	N/A	N/A	N/A	N/A	-2.04	
Martin Currie Emerging Markets	590,758	1.32	6.58	11.18	6.58	N/A	N/A	N/A	N/A	N/A	15.94	12/01/2023
MSCI EM Net			8.72	16.86	8.72	N/A	N/A	N/A	N/A	N/A	21.43	
Difference			-2.14	-5.68	-2.14	N/A	N/A	N/A	N/A	N/A	-5.49	

See Disclosures for Benchmark Descriptions

CSU Foundation
Asset Allocation & Performance
As of September 30, 2024

	Allocation		Performance(%)									
	Market Value (\$)	%	Quarter To Date	YTD	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	Inception Date
Domestic Fixed Income	8,420,483	18.86	4.99	5.13	4.99	11.67	-0.47	0.78	1.42	1.71	3.63	02/01/2009
Bloomberg US Aggregate			5.20	4.45	5.20	11.57	-1.39	0.33	1.47	1.84	2.91	
Difference			-0.21	0.68	-0.21	0.10	0.92	0.45	-0.05	-0.13	0.72	
BlackRock Fundamental Core Taxable	3,294,150	7.38	5.14	4.71	5.14	11.84	-0.23	N/A	N/A	N/A	0.73	02/01/2020
Bloomberg US Aggregate			5.20	4.45	5.20	11.57	-1.39	N/A	N/A	N/A	-0.09	
Difference			-0.06	0.26	-0.06	0.27	1.16	N/A	N/A	N/A	0.82	
JP Morgan Mort Backed Sec Fd	585,443	1.31	5.29	5.67	5.29	12.37	N/A	N/A	N/A	N/A	6.37	01/01/2023
BB US Agg Securitized - MBS			5.53	4.50	5.53	12.32	N/A	N/A	N/A	N/A	5.46	
Difference			-0.24	1.17	-0.24	0.05	N/A	N/A	N/A	N/A	0.91	
TIAA-CREF Core Impact Bond Fund	2,707,637	6.06	5.15	5.47	5.15	12.44	-1.20	N/A	N/A	N/A	0.09	02/01/2020
Bloomberg US Aggregate			5.20	4.45	5.20	11.57	-1.39	N/A	N/A	N/A	-0.09	
Difference			-0.05	1.02	-0.05	0.87	0.19	N/A	N/A	N/A	0.18	
CCM Community Impact Bond Fund	1,407,030	3.15	4.51	4.81	4.51	10.41	-0.61	N/A	N/A	N/A	0.17	02/01/2020
Bloomberg US Aggregate			5.20	4.45	5.20	11.57	-1.39	N/A	N/A	N/A	-0.09	
Difference			-0.69	0.36	-0.69	-1.16	0.78	N/A	N/A	N/A	0.26	
Vanguard Short Term Corp Bond	426,223	0.95	3.80	5.29	3.80	N/A	N/A	N/A	N/A	N/A	6.90	12/01/2023
Bloomberg US Corporate 1-5 Y			3.75	5.37	3.75	N/A	N/A	N/A	N/A	N/A	7.34	
Difference			0.05	-0.08	0.05	N/A	N/A	N/A	N/A	N/A	-0.44	

See Disclosures for Benchmark Descriptions

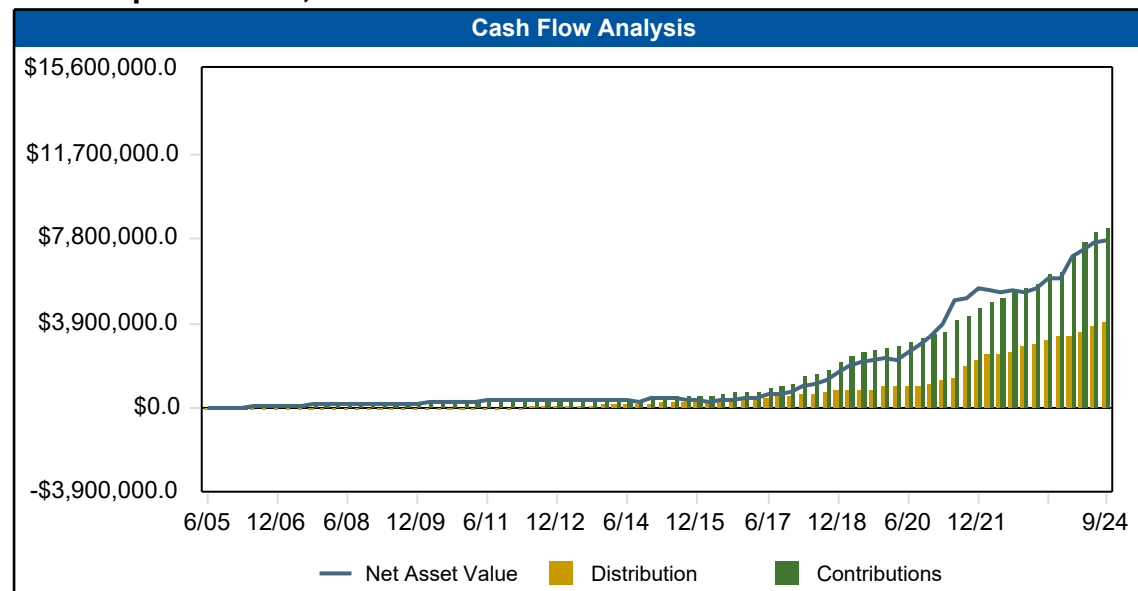
CSU Foundation
Asset Allocation & Performance
As of September 30, 2024

	Allocation		Performance(%)									
	Market Value (\$)	%	Quarter To Date	YTD	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	Inception Date
Hedge Funds	4,318,968	9.67	1.75	6.84	1.75	9.41	2.74	5.99	5.72	5.84	5.94	07/01/2010
HFRI Fund of Funds Comp			1.97	6.92	1.97	10.28	2.55	5.44	4.30	3.67	3.76	
Difference			-0.22	-0.08	-0.22	-0.87	0.19	0.55	1.42	2.17	2.18	
Millennium Intl Ltd	1,130,606	2.53	2.32	9.44	2.32	11.75	11.03	14.61	12.23	N/A	10.89	02/01/2015
HFRI Fund of Funds Comp			1.97	6.92	1.97	10.28	2.55	5.44	4.30	N/A	3.69	
Difference			0.35	2.52	0.35	1.47	8.48	9.17	7.93	N/A	7.20	
Sculptor Overseas Fund II Ltd	920,201	2.06	2.66	9.25	2.66	10.47	N/A	N/A	N/A	N/A	3.42	04/01/2022
HFRI Event Driven Total			4.58	7.55	4.58	13.43	N/A	N/A	N/A	N/A	5.59	
Difference			-1.92	1.70	-1.92	-2.96	N/A	N/A	N/A	N/A	-2.17	
Blackstone Alt MultiStrat Fd	1,203,535	2.70	0.57	5.23	0.57	N/A	N/A	N/A	N/A	N/A	5.23	01/01/2024
HFRX Global Hedge Fund			2.12	5.08	2.12	N/A	N/A	N/A	N/A	N/A	5.08	
Difference			-1.55	0.15	-1.55	N/A	N/A	N/A	N/A	N/A	0.15	
Verition Fund	1,063,897	2.38	1.72	6.39	1.72	N/A	N/A	N/A	N/A	N/A	6.39	01/01/2024
HFRI RV Total			2.56	6.65	2.56	N/A	N/A	N/A	N/A	N/A	6.65	
Difference			-0.84	-0.26	-0.84	N/A	N/A	N/A	N/A	N/A	-0.26	
Real Assets	2,273,519	5.09	0.03	3.56	0.03	0.65	6.52	8.78	3.54	2.24	2.85	07/01/2010
Real Assets Benchmark			0.25	-2.57	0.25	-7.27	-0.19	3.17	3.09	2.47	N/A	
Difference			-0.22	6.13	-0.22	7.92	6.71	5.61	0.45	-0.23	N/A	
Blackstone Real Estate Income Trust	1,454,936	3.26	0.04	2.41	0.04	-1.40	5.83	9.26	N/A	N/A	9.59	08/01/2018
NCREIF NFI ODCE Value Weighted			0.25	-2.57	0.25	-7.27	-0.19	2.94	N/A	N/A	3.63	
Difference			-0.21	4.98	-0.21	5.87	6.02	6.32	N/A	N/A	5.96	

See Disclosures for Benchmark Descriptions

**California State University System
Private Equity
As of September 30, 2024**

Cash Flow Summary	
Capital Committed:	\$11,369,000
Capital Invested:	\$8,024,079
Total Contributions:	\$8,313,133
Remaining Capital Commitment:	\$3,684,660
Total Distributions:	\$3,993,302
Market Value:	\$7,730,214
Inception Date:	06/01/2005
Inception IRR:	11.28
TVPI:	1.41



Private Equity Portfolio						
Partnerships	Capital Committed (\$)	Total Contribution (\$)	Total Distribution (\$)	Market Value (\$)	IRR (%)	TVPI Multiple
Northern Trust Private Equity	419,000	406,053	531,489	6,598	4.50	1.33
Private Advisors Small Company Buyout VI	1,000,000	1,144,108	1,532,495	622,934	17.99	1.88
KKR Americas Fund XII	1,000,000	1,015,646	740,495	1,309,486	19.49	2.02
Hamilton Lane Private Markets Opp Fund	750,000	858,235	531,200	642,104	9.93	1.37
CPG Vintage Access Fund, LLC	750,000	595,361	180,504	687,255	8.12	1.46
CPG Vintage Access Fund II, LLC	750,000	663,288	155,910	793,149	11.16	1.43
TrueBridge Select Fund I (Cayman), L.P.	700,000	567,000	-	503,625	-4.88	0.89
Private Advisors Small Company PE IX, LP	700,000	710,846	267,685	750,207	21.66	1.43
HarbourVest Partners Co-Investment Fund VI LP	1,000,000	854,336	5,673	943,552	8.05	1.11
TPG Rise Fund III	1,000,000	470,601	-	488,053	5.32	1.04
HarbourVest Access-Dover Street XI	1,000,000	190,108	15,361	241,883	38.81	1.35
KKR Global Impact Fund II	850,000	321,410	-	265,651	-18.23	0.83
PARIS Vistria Fund V	850,000	411,056	32,491	332,048	-13.69	0.89
Coller International	600,000	105,084	-	143,669	36.72	1.37
Private Equity	11,369,000	8,313,133	3,993,302	7,730,214	11.28	1.41

CSU Foundation
Private Equity and Private Real Asset Performance Summary
As of September 30, 2024

Partnerships	Capital Commitment (\$)	Drawn Down (\$)	Market Value (\$)	Distributed (\$)	IRR (%)	TVPI Multiple	Commitment Date	% Funded	Remaining Commitment (\$)
Northern Trust Private Equity*	419,000	406,053	6,598	531,489	4.50	1.33	06/01/2005	96.91	12,947
Private Advisors Small Company Buyout VI*	1,000,000	1,144,108	622,934	1,532,495	17.99	1.88	12/01/2014	87.95	120,513
KKR Americas Fund XII	1,000,000	1,015,646	1,309,486	740,495	19.49	2.02	12/01/2015	93.70	63,025
Hamilton Lane Private Markets Opp Fund*	750,000	858,235	642,104	531,200	9.93	1.37	12/01/2016	85.79	106,576
CPG Vintage Access Fund, LLC*	750,000	595,361	687,255	180,504	8.12	1.46	01/01/2018	79.00	157,500
CPG Vintage Access Fund II, LLC*	750,000	663,288	793,149	155,910	11.16	1.43	01/01/2019	88.00	90,000
TrueBridge Select Fund I (Cayman), L.P.*	700,000	567,000	503,625	-	-4.88	0.89	01/01/2021	81.00	133,000
Private Advisors Small Company PE IX, LP*	700,000	710,846	750,207	267,685	21.66	1.43	01/01/2021	92.95	49,358
Bridge Workforce & Affordable Housing Fund II LP*	500,000	437,827	384,670	30,426	-2.53	0.94	08/01/2021	88.41	57,967
Ares Climate Infrastructure Partners LP*	500,000	458,679	433,912	116,485	10.63	1.20	07/01/2021	91.74	41,321
HarbourVest Partners Co-Investment Fund VI LP*	1,000,000	854,336	943,552	5,673	8.05	1.11	09/01/2021	85.00	150,000
TPG Rise Fund III*	1,000,000	470,601	488,053	-	5.32	1.04	05/01/2023	47.06	529,399
HarbourVest Access-Dover Street XI*	1,000,000	190,108	241,883	15,361	38.81	1.35	06/01/2023	19.01	809,892
KKR Global Impact Fund II	850,000	321,410	265,651	-	-18.23	0.83	12/01/2023	37.81	528,590
Vistria Fund V*	850,000	411,056	332,048	32,491	-13.69	0.89	03/01/2024	48.36	438,944
Coller International*	600,000	105,084	143,669	-	36.72	1.37	06/01/2024	17.51	494,916

	Quarter To Date	YTD	1 Year	3 Years	5 Years	7 Years	Since Inception	Inception Date
Northern Trust Private Equity*	0.00	-24.83	-31.82	-30.86	-14.38	-9.22	4.50	06/01/2005
Private Advisors Small Company Buyout VI*	-0.20	6.10	11.12	8.10	24.96	22.00	17.99	12/31/2014
KKR Americas Fund XII	9.78	17.25	21.40	4.17	22.16	19.87	19.49	06/30/2017
Hamilton Lane Private Markets Opp Fund*	-0.23	1.35	1.43	1.02	10.04	9.81	9.93	04/07/2017
CPG Vintage Access Fund, LLC*	0.00	-9.73	-10.53	-2.34	9.09	N/A	8.12	03/08/2018
CPG Vintage Access Fund II, LLC*	0.00	0.54	0.48	5.28	12.15	N/A	11.16	03/06/2019
TrueBridge Select Fund I (Cayman), L.P.*	0.00	0.03	-1.21	-5.79	N/A	N/A	-4.88	04/02/2021
Private Advisors Small Company PE IX, LP*	-0.21	3.90	5.92	14.38	N/A	N/A	21.66	05/28/2021
HarbourVest Partners Co-Investment Fund VI LP*	0.00	3.49	9.11	N/A	N/A	N/A	8.05	04/25/2022
TPG Rise Fund III*	-5.44	5.67	11.61	N/A	N/A	N/A	5.32	05/26/2023
HarbourVest Access-Dover Street XI*	0.00	4.02	8.09	N/A	N/A	N/A	38.81	06/22/2023
KKR Global Impact Fund II	-2.50	-5.77	N/A	N/A	N/A	N/A	-18.23	12/22/2023
Vistria Fund V*	-1.20	N/A	N/A	N/A	N/A	N/A	-13.69	03/28/2024
Coller International*	0.00	N/A	N/A	N/A	N/A	N/A	36.72	06/25/2024
CSUF Private Equity	0.98	3.38	4.92	3.80	14.77	13.92	11.28	06/01/2005
Bridge Workforce & Affordable Housing Fund II LP*	-0.57	3.33	-2.93	N/A	N/A	N/A	-2.53	11/17/2021
Ares Climate Infrastructure Partners LP*	0.00	5.98	8.38	N/A	N/A	N/A	10.63	11/15/2021

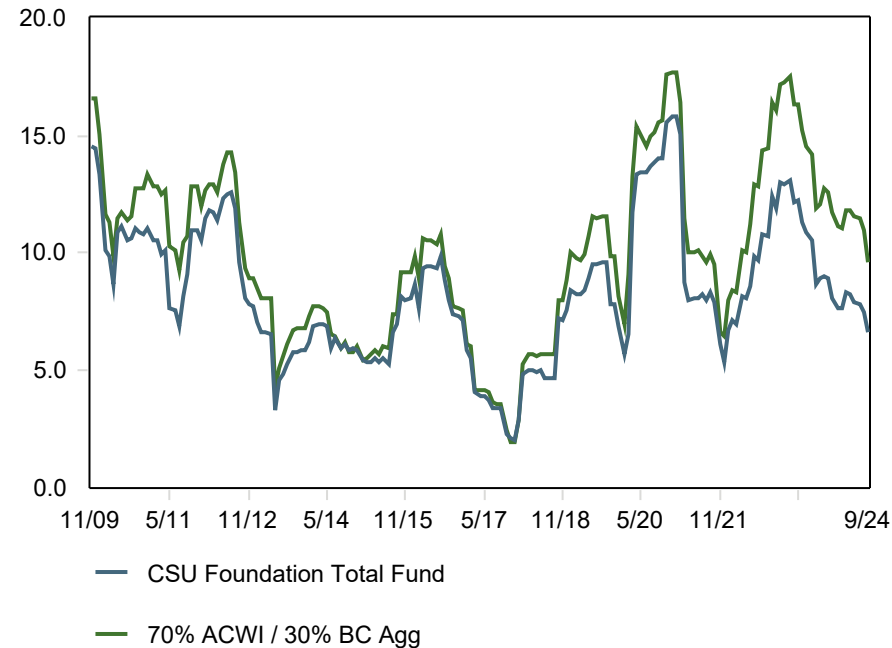
Returns are Dollar Weighted

*Value as of 06/30/2024, adjusted for capital calls & distributions through 09/30/2024

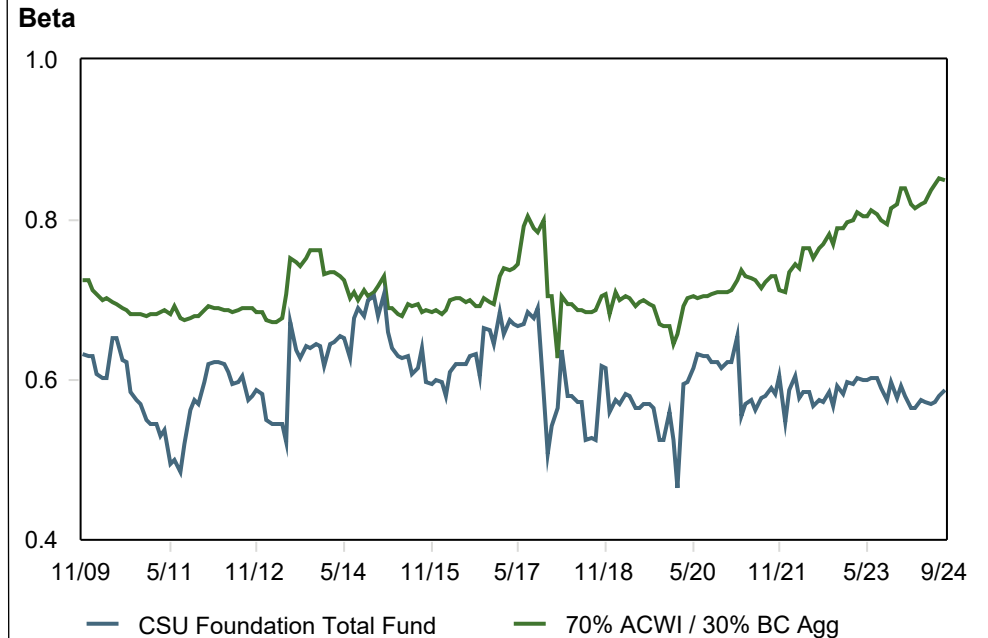
CSU Foundation Risk Analytics As of September 30, 2024

	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	Inception Date
Return	18.08	4.11	9.42	7.59	6.98	8.57	12/01/2008
Standard Deviation	6.67	9.84	10.73	9.97	9.12	9.56	
vs. 70% S&P 500 / 30% BC Aggregate							
Alpha	-0.67	-1.48	0.84	-0.39	-0.59	-0.59	
Beta	0.68	0.70	0.75	0.75	0.76	0.82	
R-Squared	0.97	0.95	0.90	0.90	0.88	0.88	
vs. 70% ACWI / 30% BC Agg							
Alpha	0.82	0.04	2.28	1.26	0.99	1.10	
Beta	0.69	0.74	0.79	0.80	0.81	0.83	
R-Squared	0.99	0.99	0.95	0.95	0.95	0.96	
vs. Mid-Term Benchmark							
Alpha	0.73	-0.26	1.41	0.71	0.94	-	
Beta	0.90	0.95	1.00	0.99	0.99	-	
R-Squared	0.98	0.98	0.97	0.96	0.96	-	

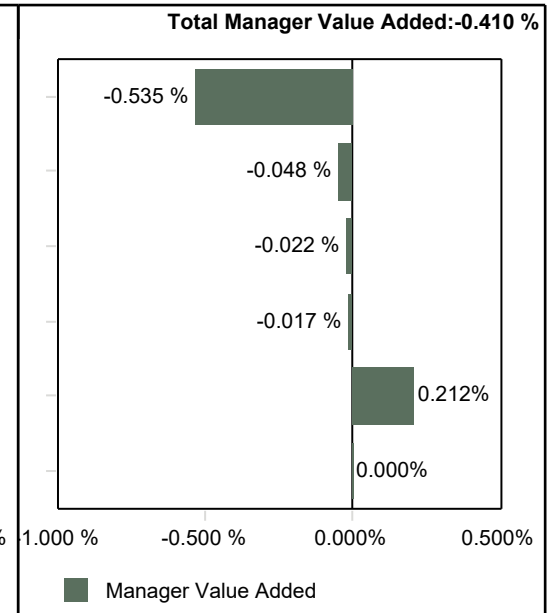
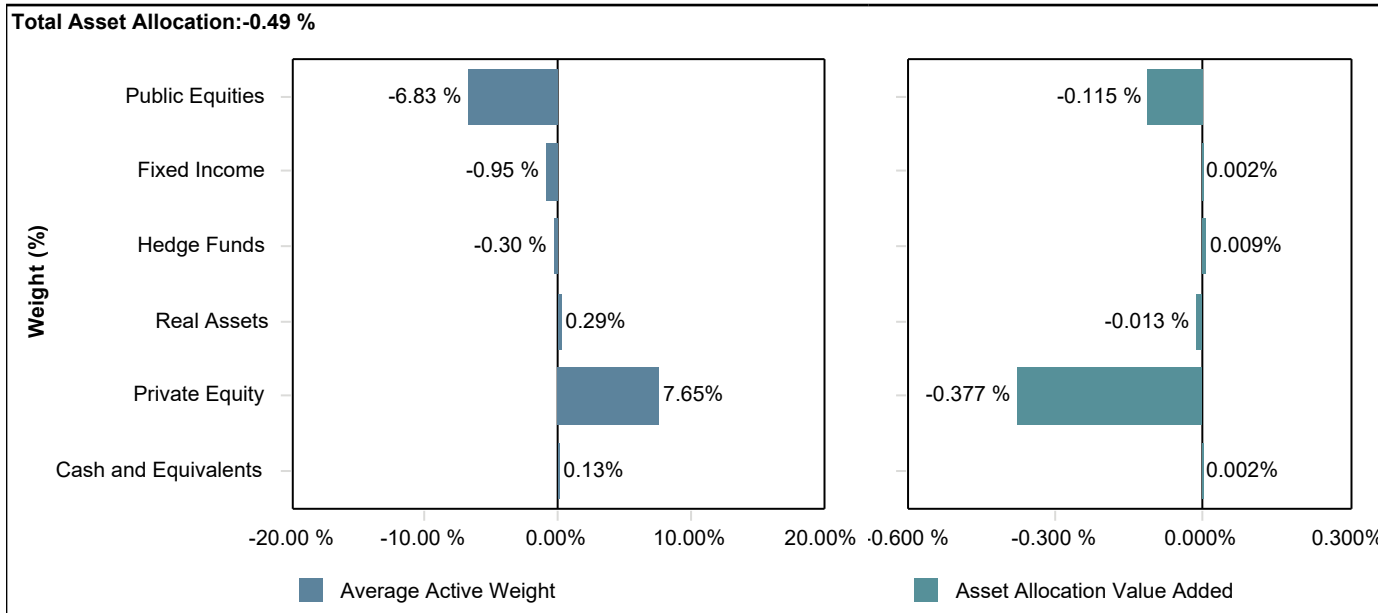
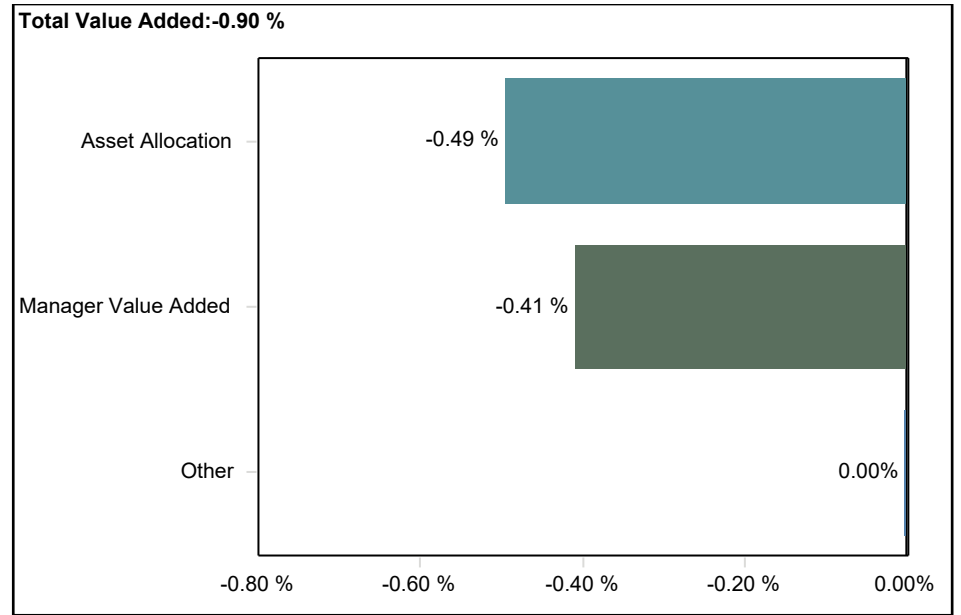
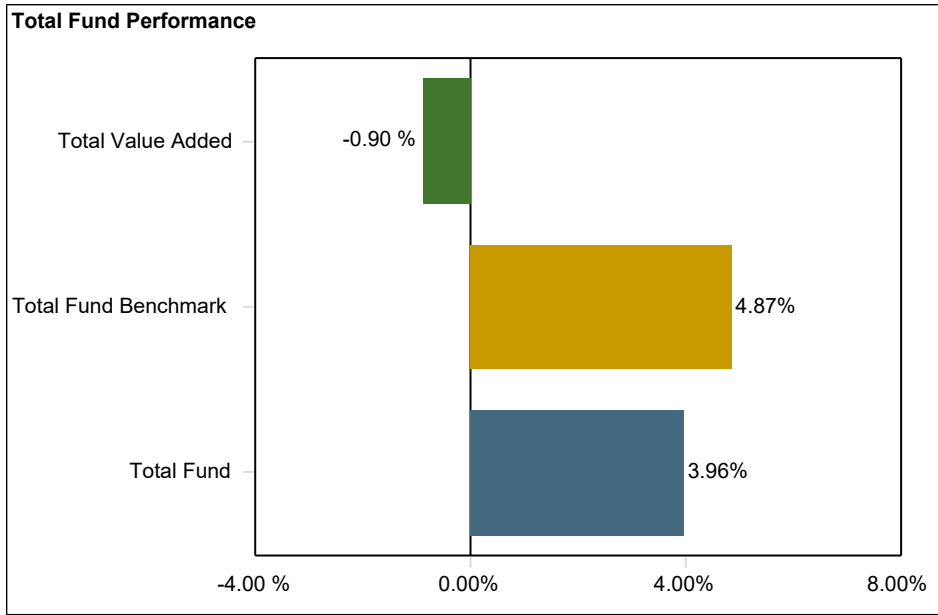
Rolling 12 Month Standard Deviation



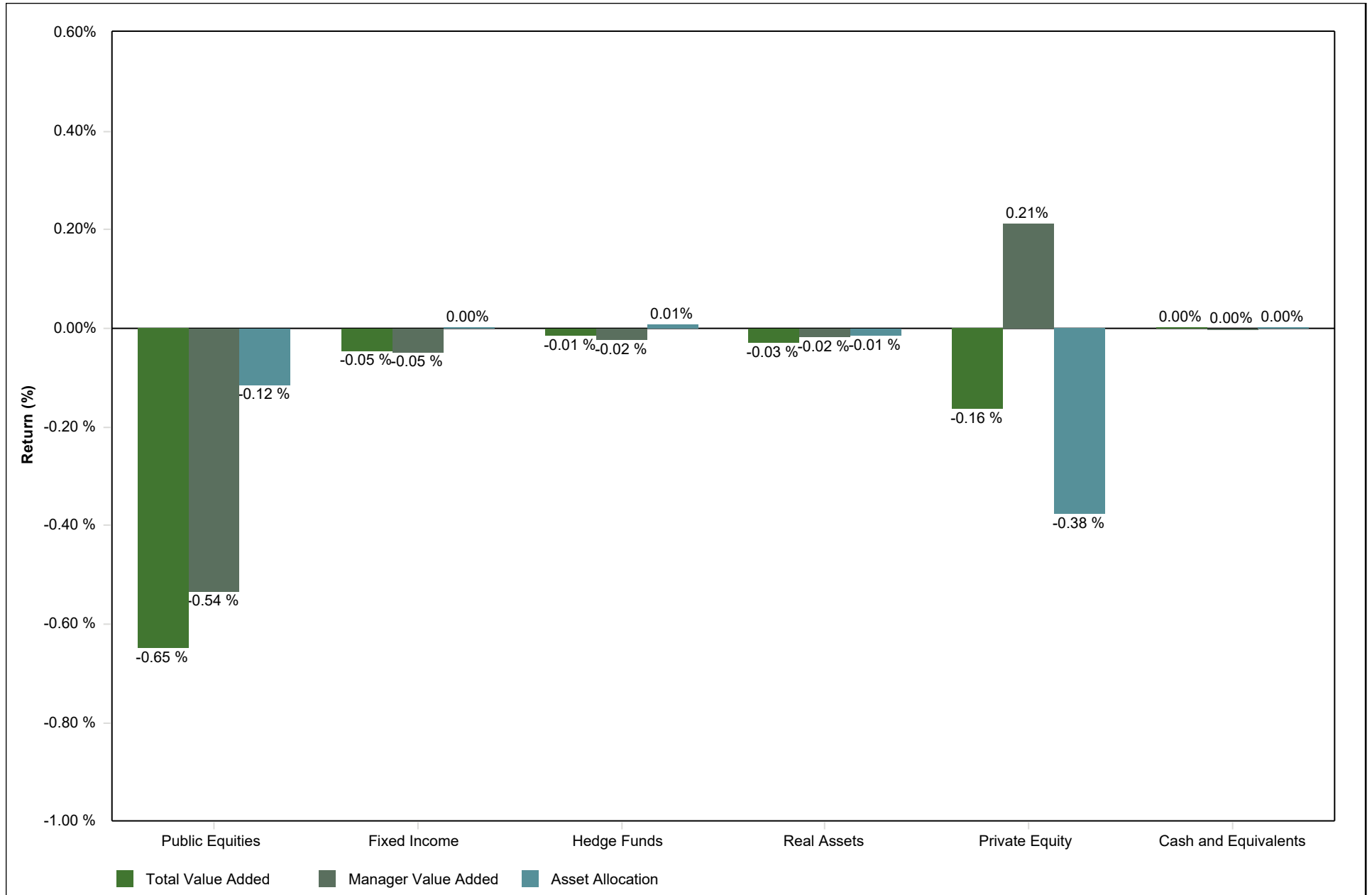
Rolling 12 Month Beta vs. Global Equities



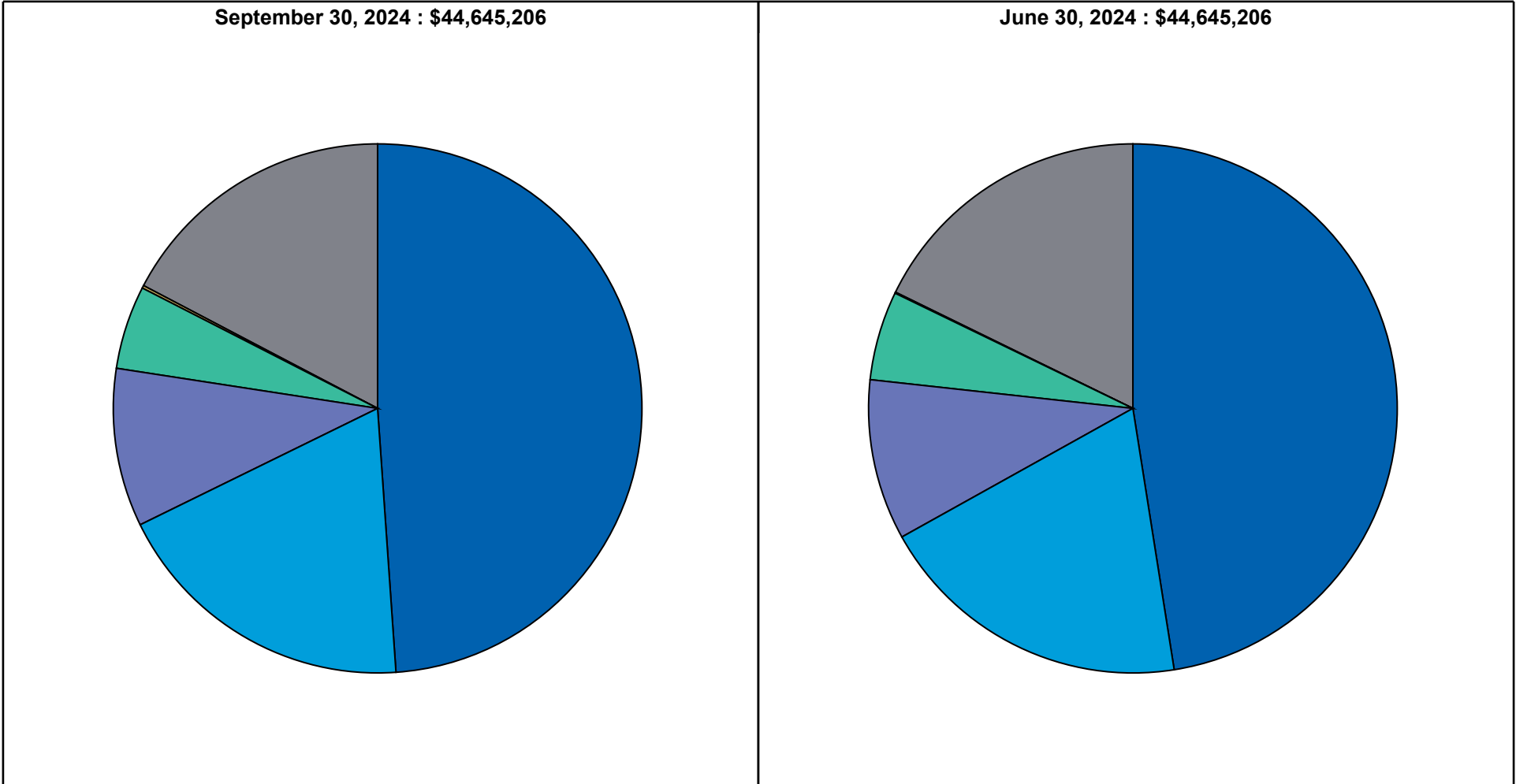
CSU Foundation Attribution Report 1 Quarter Ending September 30, 2024



CSU Foundation Attribution Report 1 Quarter Ending September 30, 2024



**California State University System
Asset Allocation by Segment
As of September 30, 2024**



	Market Value (\$)	Allocation (%)
■ Equity	21,827,827	48.89
■ Fixed Income	8,420,483	18.86
■ Hedge Fund	4,318,968	9.67
■ Real Return	2,273,519	5.09
■ Cash	74,195	0.17
■ Global Private Equity	7,730,214	17.31

	Market Value (\$)	Allocation (%)
■ Equity	20,343,190	47.51
■ Fixed Income	8,313,959	19.42
■ Hedge Fund	4,201,872	9.81
■ Real Return	2,330,869	5.44
■ Cash	28,254	0.07
■ Global Private Equity	7,604,173	17.76

**California State University System
Asset Allocation by Manager
As of September 30, 2024**

September 30, 2024 : \$44,645,206			June 30, 2024 : \$44,645,206		
	Market Value (\$)	Allocation (%)		Market Value (\$)	Allocation (%)
■ Brown Advisory LC Sustain Grth	2,170,555	4.86	■ Brown Advisory LC Sustain Grth	1,760,952	4.11
■ JP Morgan Large Cap Growth	2,167,818	4.86	■ JP Morgan Large Cap Growth	1,789,290	4.18
■ Aristotle Value Equity	1,794,575	4.02	■ Aristotle Value Equity	1,745,331	4.08
■ Aperio Custom ESG	6,235,580	13.97	■ Aperio Custom ESG	5,899,117	13.78
■ ClearBridge Large Value ESG	1,804,746	4.04	■ ClearBridge Large Value ESG	1,745,580	4.08
■ Earnest Prnts Small/Mid Core	472,233	1.06	■ Earnest Prnts Small/Mid Core	408,385	0.95
■ iShares MSCI EAFE Optimized	2,384,115	5.34	■ iShares MSCI EAFE Optimized	2,272,743	5.31
■ T. Rowe Price Intl Eqty ADR	2,431,766	5.45	■ T. Rowe Price Intl Eqty ADR	2,286,755	5.34
■ iShares MSCI EM Optimized	1,261,934	2.83	■ iShares MSCI EM Optimized	1,162,116	2.71
■ GQG Partners Emerging Mkts Fd	513,748	1.15	■ GQG Partners Emerging Mkts Fd	649,131	1.52
■ Martin Currie Emerging Markets	590,758	1.32	■ Martin Currie Emerging Markets	623,788	1.46
■ Northern Trust Private Equity	6,598	0.01	■ Northern Trust Private Equity	6,598	0.02
■ Private Advisors Small Company Buyout VI	622,934	1.40	■ Private Advisors Small Company Buyout VI	709,772	1.66
■ KKR Americas Fund XII	1,309,486	2.93	■ KKR Americas Fund XII	1,189,118	2.78
■ Hamilton Lane Private Markets Opp Fund	642,104	1.44	■ Hamilton Lane Private Markets Opp Fund	649,805	1.52
■ CPG Vintage Access Fund, LLC	687,255	1.54	■ CPG Vintage Access Fund, LLC	687,255	1.60
■ CPG Vintage Access Fund II, LLC	793,149	1.78	■ CPG Vintage Access Fund II, LLC	793,149	1.85
■ Private Advisors Small Company PE IX, LP	750,207	1.68	■ Private Advisors Small Company PE IX, LP	763,614	1.78
■ HarbourVest Partners Co-Investment Fund VI LP	943,552	2.11	■ HarbourVest Partners Co-Investment Fund VI LP	946,198	2.21
■ PARIS Vistria Fund V (CSUF)	332,048	0.74	■ PARIS Vistria Fund V (CSUF)	364,539	0.85
■ TrueBridge Select Fund I (Cayman), L.P.	503,625	1.13	■ TrueBridge Select Fund I (Cayman), L.P.	482,625	1.13
■ TPG Rise Fund III	488,053	1.09	■ TPG Rise Fund III	351,569	0.82
■ KKR Global Impact Fund II	265,651	0.60	■ KKR Global Impact Fund II	259,018	0.60
■ HarbourVest Access-Dover Street XI	241,883	0.54	■ HarbourVest Access-Dover Street XI	257,244	0.60
■ Collier International	143,669	0.32	■ Collier International	143,669	0.34
■ BlackRock Fundamental Core Taxable	3,294,150	7.38	■ BlackRock Fundamental Core Taxable	3,134,968	7.32
■ CCM Community Impact Bond Fund	1,407,030	3.15	■ CCM Community Impact Bond Fund	1,361,525	3.18
■ Nuveen Core Impact Bond Fund	2,707,637	6.06	■ Nuveen Core Impact Bond Fund	2,627,035	6.13
■ JP Morgan Mort Backed Sec Fd	585,443	1.31	■ JP Morgan Mort Backed Sec Fd	775,339	1.81
■ Vanguard Short Term Corp Bond	426,223	0.95	■ Vanguard Short Term Corp Bond	415,092	0.97
■ Millennium Intl Ltd	1,130,606	2.53	■ Millennium Intl Ltd	1,104,975	2.58
■ Private Advisors Hedged Equity	730	0.00	■ Private Advisors Hedged Equity	727	0.00
■ Sculptor Overseas Fund II Ltd	920,201	2.06	■ Sculptor Overseas Fund II Ltd	896,324	2.09
■ Blackstone Alt MultiStrat Fd	1,203,535	2.70	■ Blackstone Alt MultiStrat Fd	1,153,956	2.69
■ Verition Fund	1,063,897	2.38	■ Verition Fund	1,045,890	2.44
■ Blackstone Real Estate Income Trust	1,454,936	3.26	■ Blackstone Real Estate Income Trust	1,454,286	3.40
■ Bridge Workforce & Affordable Housing Fund II LP	384,670	0.86	■ Bridge Workforce & Affordable Housing Fund II LP	388,432	0.91
■ Ares Climate Infrastructure Partners LP	433,912	0.97	■ Ares Climate Infrastructure Partners LP	488,151	1.14
■ Cash Holding Account	74,195	0.17	■ Cash Holding Account	28,254	0.07

Disclosures

CSU Foundation Benchmark Descriptions

Mid-Term Benchmark

*12/2008 - 05/2010: 70% S&P 500 Total Return, 30% Barclays Aggregate

*06/2010 - 11/2013: 52% MSCI AC World Net, 23% BC Aggregate, 15% HFRI Fund of Funds Composite, 10% Bloomberg Commodity

*12/2013 - 09/2016: 52% MSCI AC World Net, 20% BC Aggregate, 18% HFRI Fund of Funds Composite, 10% Bloomberg Commodity

*10/2016 - 05/2018: 50% MSCI AC World Net, 20% BC Aggregate, 18% HFRI Fund of Funds Composite, 10% Real Assets Benchmark, 2% Cambridge Private Equity

*06/2018 - 11/2018: 48% MSCI AC World Net, 20% BC Aggregate, 18% HFRI Fund of Funds Composite, 10% Real Assets Benchmark, 4% Cambridge Private Equity

*12/2018 - 04/2020: 46% MSCI AC World Net, 20% BC Aggregate, 18% HFRI Fund of Funds Composite, 10% Real Assets Benchmark, 6% Cambridge Private Equity

*05/2020 - 07/2020: 53% MSCI AC World Net, 20% BC Aggregate, 14% HFRI Fund of Funds Composite, 8% Cambridge Private Equity, 5% Real Assets Benchmark

*08/2020 - 05/2021: 56.5% MSCI AC World Net, 20% BC Aggregate, 10% HFRI Fund of Funds Composite, 8.5% Cambridge Private Equity, 5% Real Assets Benchmark

*06/2021 - Present: 55% MSCI AC World Net, 20% BC Aggregate, 10% HFRI Fund of Funds Composite, 10% Cambridge Private Equity, 5% Real Assets Benchmark

Real Assets Benchmark

*01/2011 - 09/2016: 40% Bloomberg Commodity, 30% BC TIPS, 30% FTSE NAREIT US REITS

*10/2016 - 07/2018: 40% MSCI ACWI Commodity Producers, 30% BC TIPS, 30% FTSE NAREIT US REITS

*08/2018 - 08/2019: 40% MSCI ACWI Commodity Producers, 30% BC TIPS, 30% NCREIF NFI ODCE

*09/2019 - 04/2020: 60% NCREIF NFI ODCE, 40% BC TIPS

*05/2020 - Present: 100% NCREIF NFI ODCE

Performance Appendix

Performance Data below is net of fees. Please see the Morgan Stanley Smith Barney LLC Form ADV Part 2 Brochure for advisory accounts and/or any applicable brokerage account trade confirmation statements for a full disclosure of the applicable charges, fees and expenses. Your Financial Advisor will provide those documents to you upon request.

Account Name	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Aperio Custom ESG	5.70	21.16	35.67	11.36	15.30	--	14.78	08/01/2019
BlackRock Fundamental Core Taxable	5.08	4.52	11.57	-0.47	--	--	0.48	02/01/2020
Blackstone Alt MultiStrat Fd	0.54	5.15	--	--	--	--	5.15	01/01/2024
Brown Advisory LC Sustain Grth	2.46	16.83	33.90	--	--	--	23.79	07/01/2023
CCM Community Impact Bond Fund	4.49	4.72	10.27	--	--	--	7.18	07/01/2023
Cash Holding Account	7.55	161.57	204.34	114.45	99.24	196.96	--	11/01/2008
ClearBridge Large Value ESG	6.49	11.79	25.61	--	--	--	17.55	07/01/2023
Earnest Prnts Small/Mid Core	9.97	8.84	22.31	5.25	--	--	5.08	08/01/2021
GQG Partners Emerging Mkts Fd	-1.50	14.24	27.15	5.27	--	--	4.26	04/01/2021
JP Morgan Large Cap Growth	2.47	27.30	44.67	--	--	--	30.49	07/01/2023
JP Morgan Mort Backed Sec Fd	5.27	5.59	12.26	--	--	--	6.28	01/01/2023
Martin Currie Emerging Markets	6.42	10.68	--	--	--	--	15.42	12/01/2023
Millennium Intl Ltd	2.32	9.44	11.75	11.03	14.61	--	10.89	02/01/2015
Nuveen Core Impact Bond Fund	5.14	5.48	12.04	--	--	--	7.63	07/01/2023
Private Advisors Hedged Equity	0.30	-34.50	-36.29	-16.65	-5.97	-0.38	1.35	07/01/2011
Sculptor Overseas Fund II Ltd	2.66	9.25	10.47	--	--	--	3.42	04/01/2022
T. Rowe Price Intl Eqty ADR	6.49	12.32	23.50	--	--	--	14.18	07/01/2023
Vanguard Short Term Corp Bond	3.78	5.21	--	--	--	--	6.82	12/01/2023
Verition Fund	1.72	6.39	--	--	--	--	6.39	01/01/2024
iShares MSCI EAFE Optimized	6.86	13.39	25.21	5.30	8.39	--	8.43	08/01/2019
iShares MSCI EM Optimized	8.56	14.29	23.33	--	--	--	16.53	06/01/2023

All performance above are Time Weighted(TWR) performance

IRR Appendix

Account Name	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Ares Climate Infrastructure Partners LP	0.00	5.98	8.38	--	--	--	10.63	11/15/2021
Blackstone Real Estate Income Trust	0.04	2.41	-1.39	7.84	10.70	--	10.76	07/25/2018
Bridge Workforce & Affordable Housing Fund II LP	-0.57	3.33	-2.93	--	--	--	-2.53	11/17/2021
CPG Vintage Access Fund II, LLC	0.00	0.54	0.48	5.28	12.15	--	11.16	03/06/2019

IRR Appendix

Account Name	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
CPG Vintage Access Fund, LLC	0.00	-9.73	-10.53	-2.34	9.09	--	8.12	03/06/2018
Coller International	0.00	--	--	--	--	--	36.72	06/01/2024
Hamilton Lane Private Markets Opp Fund	-0.23	1.35	1.43	1.02	10.04	--	9.93	04/03/2017
HarbourVest Access-Dover Street XI	0.00	4.02	8.09	--	--	--	38.81	06/22/2023
HarbourVest Partners Co-Investment Fund VI LP	0.00	3.49	9.11	--	--	--	8.05	04/25/2022
KKR Americas Fund XII	9.78	17.25	21.40	4.17	22.16	--	19.49	12/15/2015
KKR Global Impact Fund II	-2.50	-5.77	--	--	--	--	-18.23	12/19/2023
Northern Trust Private Equity	0.00	-24.83	-31.82	-30.86	-14.38	1.47	4.50	06/01/2005
PARIS Vistria Fund V (CSUF)	-1.20	--	--	--	--	--	-13.69	03/01/2024
Private Advisors Small Company Buyout VI	-0.20	6.10	11.12	8.10	24.96	--	17.99	12/30/2014
Private Advisors Small Company PE IX, LP	-0.21	3.90	5.92	14.38	--	--	21.66	05/28/2021
TPG Rise Fund III	-5.44	5.67	11.61	--	--	--	5.32	05/26/2023
TrueBridge Select Fund I (Cayman), L.P.	0.00	0.03	-1.21	-5.79	--	--	-4.88	04/02/2021

All performance above are Dollar Weighted(IRR) performance

Information Disclosures

Performance results are annualized for time periods greater than one year and include all cash and cash equivalents, realized and unrealized capital gains and losses, and dividends, interest and income. The investment results depicted herein represent historical performance. As a result of recent market activity, current performance may vary from the figures shown. Past performance is not a guarantee of future results.

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The performance data shown reflects past performance, which does not guarantee future results. Investment return and principal will fluctuate so that an investor's shares when redeemed may be worth more or less than original cost. Please note, current performance may be higher or lower than the performance data shown. For up to date month-end performance information, please contact your Financial Advisor or visit the funds' company website.

Investors should carefully consider the fund's investment objectives, risks, charges and expenses before investing. The prospectus and, if available the summary prospectus, contains this and other information that should be read carefully before investing. Investors should review the information in the prospectus carefully. To obtain a prospectus, please contact your Financial Advisor or visit the funds' company website.

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Composites are the aggregate of multiple portfolios within an asset pool.

Investing involves market risk, including possible loss of principal. **Growth investing** does not guarantee a profit or eliminate risk. The stocks of these companies can have relatively high valuations. Because of these high valuations, an investment in a growth stock can be more risky than an investment in a company with more modest growth expectations. **Value investing** involves the risk that the market may not recognize that securities are undervalued, and they may not appreciate as anticipated. **Small and mid-capitalization companies** may lack the financial resources, product diversification and competitive strengths of larger companies. The securities of small capitalization companies may not trade as readily as, and be subject to higher volatility than those of larger, more established companies. **Bond funds** and bond holdings have the same interest rate, inflation and credit risks that are associated with the underlying bonds owned by the funds. The return of principal in bond funds, and in funds with significant bond holdings, is not guaranteed. **International securities'** prices may carry additional risks, including foreign economic, political, monetary and/or legal factors, changing currency exchange rates, foreign taxes and differences in financial and accounting standards. International investing may not be for everyone. These risks may be magnified in emerging markets. **Alternative investments**, including private equity funds, real estate funds, hedge funds, managed futures funds, and funds of hedge funds, private equity, and managed futures funds, are speculative and entail significant risks that can include losses due to leveraging or other speculative investment practices, lack of liquidity, volatility of returns, restrictions on transferring interests in a fund, potential lack of diversification, absence and/or delay of information regarding valuations and pricing, complex tax structures and delays in tax reporting, less regulation and higher fees than mutual funds and risks associated with the operations, personnel and processes of the advisor. **Master Limited Partnerships (MLPs)** are limited partnerships or limited liability companies that are taxed as partnerships and whose interests (limited partnership units or limited liability company units) are traded on securities exchanges like shares of common stock. Currently, most MLPs operate in the energy, natural resources or real estate sectors. Investments in MLP interests are subject to the risks generally applicable to companies in the energy and natural resources sectors, including commodity pricing risk, supply and demand risk, depletion risk and exploration risk; and MLP interests in the real estate sector are subject to special risks, including interest rate and property value fluctuations, as well as risks related to general and economic conditions. Because of their narrow focus, MLPs maintain exposure to price volatility of commodities and/or underlying assets and tend to be more volatile than investments that diversify across many sectors and companies. MLPs are also subject to additional risks including investors having limited control and rights to vote on matters affecting the MLP, limited access to capital, cash flow risk, lack of liquidity, dilution risk, conflict of interests, and limited call rights related to acquisitions.

Mortgage backed securities also involve prepayment risk, in that faster or slower prepayments than expected on underlying mortgage loans can dramatically alter the yield-to-maturity of a mortgage-backed security and prepayment risk includes the possibility that a fund may invest the proceeds at generally lower interest rates.

Tax managed funds may not meet their objective of being tax-efficient.

Real estate investments are subject to special risks, including interest rate and property value fluctuations, as well as risks related to general and economic conditions.

High yield fixed income securities, also known as "junk bonds", are considered speculative, involve greater risk of default and tend to be more volatile than investment grade fixed income securities.

Credit quality is a measure of a bond issuer's creditworthiness, or ability to repay interest and principal to bondholders in a timely manner. The credit ratings shown are based on security rating as provided by Standard & Poor's, Moody's and/or Fitch, as applicable. Credit ratings are issued by the rating agencies for the underlying securities in the fund and not the fund itself, and the credit quality of the securities in the fund does not represent the stability or safety of the fund. Credit ratings shown range from AAA, being the

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Money Market Funds

You could lose money in Money Market Funds. Although MMFs classified as government funds (i.e., MMFs that invest 99.5% of total assets in cash and/or securities backed by the U.S government) and retail funds (i.e., MMFs open to natural person investors only) seek to preserve value at \$1.00 per share, they cannot guarantee they will do so. The price of other MMFs will fluctuate and when you sell shares they may be worth more or less than originally paid. MMFs may impose a fee upon sale or temporarily suspend sales if liquidity falls below required minimums. During suspensions, shares would not be available for purchases, withdrawals, check writing or ATM debits. A MMF investment is not insured or guaranteed by the Federal Deposit Insurance Corporation or other government agency.

"Alpha tilt strategies comprise a core holding of stocks that mimic a benchmark type index such as the S&P 500 to which additional securities are added to help tilt the fund toward potentially outperforming the market in an effort to enhance overall investment returns. Tilt strategies are subject to significant timing risk and could potentially expose investors to extended periods of underperformance."

Custom Account Index: The Custom Account Index is an investment benchmark based on your historical target allocations and/or manager selection that you may use to evaluate the performance of your account. The Custom Account index does take into consideration certain changes that may have occurred in your portfolio since the inception of your account, i.e., asset class and/or manager changes. However, in some circumstances, it may not be an appropriate benchmark for use with your specific account composition. For detailed report of the historical composition of this blend please contact your Financial Advisor.

Peer Groups

Peer Groups are a collection of similar investment strategies that essentially group investment products that share the same investment approach. Peer Groups are used for comparison purposes to compare and illustrate a client's investment portfolio versus its peer across various quantitative metrics like performance and risk. Peer Group comparison is conceptually another form of benchmark comparison whereby the actual investment can be ranked versus its peer across various quantitative metrics.

All Peer Group data are provided by Investment Metrics, LLC.

The URL below provides all the definitions and methodology about the various Peer Groups
<https://www.invmetrics.com/style-peer-groups>

Peer Group Ranking Methodology

A percentile rank denotes the value of a product in which a certain percent of observations fall within a peer group. The range of percentile rankings is between 1 and 100, where 1 represents a high statistical value and 100 represents a low statistical value.

The 30th percentile, for example, is the value in which 30% of the highest observations may be found, the 65th percentile is the value in which 65% of the highest observations may be found, and so on.

Percentile rankings are calculated based on a normalized distribution ranging from 1 to 100 for all products in each peer group, where a ranking of 1 denotes a high statistical value and a ranking of 100 denotes a low statistical value. It is important to note that the same ranking methodology applies to all statistics, implying

that a ranking of 1 will always mean highest value across all statistics.

For example, consider a risk/return assessment using standard deviation as a measure of risk. A percentile ranking equal to 1 for return denotes highest return, whereas a percentile ranking of 1 for standard deviation denotes highest risk among peers.

In addition, values may be used to demonstrate quartile rankings. For example, the third quartile is also known as the 75th percentile, and the median is the 50th percentile.

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As fees are deducted quarterly, the compounding effect will be to increase the impact of the fees by an amount directly related to the gross account performance. For example, for an account with an initial value of \$100,000 and a 2.5% annual fee, if the gross performance is 5% per year over a three year period, the compounding effect of the fees will result in a net annual compound rate of return of approximately 2.40% per year over a three year period, and the total value of the client's portfolio at the end of the three year period would be approximately \$115,762.50 without the fees and \$107,372.63 with the fees. Please see the applicable Morgan Stanley Smith Barney LLC Form ADV Part 2A for more information including a description of the fee schedule. It is available at www.morganstanley.com/ADV or from your Financial Advisor/Private Wealth Advisor.

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