

Monthly Risk-Return Report

As of December 31, 2016

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Based on actual BNY Mellon data through November 2016 and preliminary data for December 2016.



As of December 31, 2016

Asset Allocation and Policy Guidelines

	Assets and Allocation		Policy	Minimum	Maximum	Difference	
Asset Class	\$ (MM)	%	Target	Target	Target	From Policy Target	Within Target?
Total Public Markets Equity	4,885	45.0%	45.0%	42.0%	48.0%	0.0%	Yes
Global Equity	432	4.0%	3.0%	0.0%	6.0%	1.0%	Yes
US Equity	1,898	17.5%	18.0%	13.0%	23.0%	-0.5%	Yes
Non-US Equity Developed	1,540	14.2%	15.0%	12.0%	18.0%	-0.8%	Yes
Non-US Equity Emerging	1,014	9.4%	9.0%	6.0%	11.0%	0.4%	Yes
Fixed Income	2,739	25.3%	24.0%	21.0%	27.0%	1.3%	Yes
Alternative Beta/Opportunistic/Other	733	6.8%	8.0%	0.0%	9.0%	-1.2%	Yes
Total Private Assets	2,490	23.0%	23.0%	10.0%		0.0%	Yes
Real Estate	936	8.6%	9.0%	5.0%	12.0%	-0.4%	Yes
Private Equity	843	7.8%	8.0%	3.0%	10.0%	-0.2%	Yes
Private Real Assets	712	6.6%	6.0%	3.0%	8.0%	0.6%	Yes
Total Invested	10,848	100.0%					

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Portfolio and Benchmark Returns

As of December 31, 2016							
	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years
SDCERA Total Trust Fund	1.7%	0.2%	4.0%	6.8%	6.8%	4.8%	6.8%
SDCERA Policy Benchmark	1.4%	0.6%	4.4%	7.0%	7.0%	4.5%	6.6%
Balanced Benchmark	1.6%	0.0%	4.0%	6.8%	6.8%	3.3%	7.5%
Actuarial Rate of Return	0.6%	1.8%	3.6%	7.4%	7.4%	7.6%	7.7%
SDCERA Public Markets	1.6%	-0.5%	4.1%	7.4%	7.4%	2.8%	7.9%
Balanced Benchmark	1.6%	0.0%	4.0%	6.8%	6.8%	3.3%	7.5%
Total Public Markets Equity	2.1%	0.5%	6.7%	8.1%	8.1%	1.3%	11.8%
MSCI ACWI IMI	2.2%	1.3%	6.9%	8.4%	8.4%	3.3%	9.6%
Fixed Income	0.4%	-2.3%	-0.9%	5.3%	5.3%	1.7%	2.3%
Bloomberg Barclays US Intermediate Aggregate	0.0%	-2.1%	-1.7%	2.0%	2.0%	2.4%	2.0%
Alternative Beta/Opportunistic/Other/HF							
Hedge Funds and Relative Value	0.4%	1.5%	3.2%	-1.5%	-1.5%	3.7%	4.1%
Managed Futures	1.1%	-2.0%	-2.3%	1.8%	1.8%	8.0%	5.6%
US T-Bills Plus 500 basis points	0.4%	1.3%	2.6%	5.3%	5.3%	5.1%	5.1%
Private Assets		The industry sto	ındard is to pre	sent private ass	et returns with	a quarterly lag	
Real Estate	2.3%	0.6%	5.5%	11.9%	11.9%	13.2%	11.1%
NCREIF ODCE Plus 50 basis Points	0.7%	2.0%	4.0%	8.3%	8.3%	11.6%	11.7%
Private Equity	1.5%	1.9%	5.0%	9.8%	9.8%	9.3%	12.7%
MSCI ACWI IMI Plus 200 Basis Points	2.3%	1.8%	8.0%	10.5%	10.5%	5.3%	11.8%
Private Real Assets	4.9%	4.8%	7.1%	4.1%	4.1%	4.7%	5.4%
MSCI ACWI IMI Plus 200 Basis Points	2.3%	1.8%	8.0%	10.5%	10.5%	5.3%	11.8%
Equities by Sub-Asset Class							
Global Equity	2.2%	1.3%	6.8%	8.4%	8.4%	3.9%	10.2%
MSCI ACWI IMI	2.2%	1.3%	6.9%	8.4%	8.4%	3.3%	9.6%
US Equity	1.9%	3.7%	8.6%	12.2%	12.2%	7.2%	11.7%
MSCI USA IMI	1.9%	3.8%	8.3%	12.0%	12.0%	7.8%	14.0%
Non-US Equity Developed	3.5%	-0.5%	6.1%	1.6%	1.6%		
MSCI EAFE IMI	3.3%	-1.0%	5.7%	1.2%	1.2%		
Non-US Emerging	0.2%	-3.5%	4.6%	12.8%	12.8%	-2.2%	2.1%
MSCI Emerging Markets IMI	0.2%	-4.5%	4.0%	9.9%	9.9%	-2.4%	1.5%
Total Public Markets Equity	2.1%	0.5%	6.7%	8.1%	8.1%	1.3%	11.8%
MSCI ACWI IMI	2.2%	1.3%	6.9%	8.4%	8.4%	3.3%	9.6%

Please note: The Non-US Equity Developed and MSCI EAFE IMI (3 yr & 5 yr) returns are blank because the current composite returns calculated by BNY Mellon do not cover these time periods. The SDCERA Benchmark is before fees and cannot be indexed because Global Stocks + 2% for the private market assets subcomponent and NCREIF ODCE plus 50 basis points for Real Estate subcomponent cannot be indexed.

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Portfolio Risk and Tracking Error

SECERA

SLOERA	1	0/31/16	11/3	0/16	12/31/16		
As of December 31, 2016	Trailin	g three years	Trailing tl	ree years	Trailing three years		
Total Trust Fund	Volatility	Tracking Error	Volatility	Tracking Error	Volatility	Tracking Error	
SDCERA Total Trust Fund Assets	5.2%	N/A	5.2%	N/A	5.3%	N/A	
SDCERA Policy Benchmark	6.2%	1.8%	6.1%	1.9%	6.2%	1.9%	
	Fore	casted	Forec		Forecasted		
Total Trust Fund	Volatility	Tracking Error	Volatility	Tracking Error	Volatility	Tracking Error	
SDCERA Total Trust Fund Assets	6.4%	N/A	6.3%	N/A	6.4%	N/A	
SDCERA Policy Benchmark	7.6%	1.7%	7.5%	1.6%	7.5%	1.6%	
Balanced Benchmark	8.1%	2.2%	8.0%	2.1%	8.0%	2.1%	
SDCERA Public-Only Assets	7.1%	N/A	7.1%	N/A	7.2%	N/A	
SDCERA Public Benchmark	7.0%	0.8%	6.9%	0.7%	6.9%	0.7%	
Equities							
Global Equity	11.5%		11.4%		11.4%		
MSCI ACWI IMI	11.5%	0.6%	11.4%	0.6%	11.4%	0.6%	
US Equity	9.4%	0.070	9.5%	0.070	9.5%	0.070	
MSCI USA IMI	10.6%	1.0%	10.7%	0.9%	10.7%	0.9%	
Non-US Equity Developed	13.7%	1.070	13.6%	0.570	13.6%	0.570	
MSCI EAFE IMI	13.6%	0.9%	13.4%	0.9%	13.4%	0.9%	
Non-US Emerging	16.6%	0.570	16.5%	0.570	16.5%	0.570	
MSCI Emerging Markets IMI	16.1%	1.1%	15.9%	1.0%	15.9%	1.0%	
Most Emerging Maneto Mil	10.170	11170	10.570	11070	15.15 / 6	11070	
Fixed Income							
Fixed Income	3.9%		4.0%		3.9%		
Bloomberg Barclays US Intermediate Aggregate	1.9%	1.5%	2.1%	1.4%	2.1%	1.4%	
Alternative Beta/Opportunistic/HF							
Alternative Beta/Opportunistic/HF Alternative Beta/Opportunistic/Other/HF	3.7%		3.7%		3.7%		
50% BarclayHedge CTA, 50% HFRI Macro	4.1%	3.6%	4.1%	3.6%	4.1%	3.6%	
30% Barchayricage C174, 30% III KI Macro	4.170	3.070	4.170	3.070	4.170	3.070	
Private Assets							
Real Estate	8.4%		8.5%		7.9%		
NCREIF ODCE + 50 bps	9.0%	10.2%	9.0%	10.3%	9.0%	9.8%	
Private Equity	7.6%		7.7%		7.7%		
MSCI ACWI IMI + 200 bps	11.5%	5.7%	11.4%	5.6%	11.4%	5.6%	
Private Real Assets	10.5%		10.9%		10.3%		
MSCI ACWI IMI + 200 bps	11.5%	11.5%	11.4%	11.8%	11.4%	12.1%	

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Allocation Changes (millions)

Public Markets Portfolio Changes in December 2016

Portfolio %	Portfolio \$ millions	Summary Comments
Begin End	Begin End	

Private Market Portfolio Changes in December 2016

Portfolio % Begin End	Portfolio \$ millions Begin End	Summary Comments

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Benchmarks

- The actuarial rate of return represents the long-term return assumption adopted by the Board of Retirement based on the analysis provided by SDCERA's actuary. SDCERA's actuarial rate of return is 7.25 percent.
- The SDCERA Policy benchmark is composed as follows: 45% MSCI ACWI Investable Market Index (IMI), 24% Bloomberg Barclays US Intermediate Aggregate Index, 8% US T-Bills + 500 bps, 23% SDCERA Private Asset Benchmark.
- The SDCERA Balanced benchmark is composed of 70% MSCI ACWI IMI and 30% Bloomberg Barclays U.S. Aggregate Index.
- The Total Public Markets Equity Benchmark is the MSCI ACWI IMI.
- The Global Equity Benchmark is the MSCI ACWI IMI.
- The US Equity Benchmark is the MSCI USA IMI.
- The Non-US Equity (Developed) Benchmark is the MSCI EAFE IMI.
- The Non-US Equity Emerging Markets Benchmark is the MSCI Emerging Markets IMI.
- The Total Fixed Income Benchmark is the Bloomberg Barclays U.S. Intermediate Aggregate Index and is a broad based benchmark that measures the investment grade, U.S. fixed-rate, and taxable bond market.
- The Alternative Beta/ Opportunistic/Other Benchmark is T-Bills plus 500 basis points.
- The Total Private Assets Benchmark is composed of 1/3 NCREIF and 2/3 MSCI ACWI IMI plus 200 basis points.
- The Real Estate Benchmark is the NCREIF ODCE Index plus 50 basis points.
- The Private Equity Benchmark is the MSCI ACWI IMI plus 200 basis points.
- The Private Real Assets Benchmark is the MSCI ACWI IMI plus 200 basis points.
- The MSCI ACWI IMI captures large, mid and small cap representation across 23 Developed Markets (DM) and 23 Emerging Markets (EM) countries.



- The SDCERA Public Markets Risk Benchmark is an aggregate of 58.4% MSCI ACWI IMI, 31.2% Bloomberg Barclays U.S. Intermediate Aggregate, 5.2% BarclayHedge CTA, and 5.2% HFRI Macro.
- The BarclayHedge CTA Index is comprised of 535 representative commodity-trading advisors.
- The HFRI Macro Index is based on investment managers which trade a broad range of strategies predicated on movements in underlying economic variables.

Note: The MSCI and T-Bills benchmarks plus a basis point spread (500, 50, and 200) are not investable indexes. The purpose of having a higher-than-market index benchmark, such as MSCI ACWI plus 200 basis points, is to set the expectation for that asset class. For example, the illiquid nature and lower transparency of Private Equity is matched by an expectation of higher returns than can be realized in public markets.