



Monthly Risk-Return Report

As of August 31, 2020

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Based on actual BNY Mellon data through July 2020 and preliminary data for August 2020.
Private asset valuations and returns are presented with a quarterly lag per industry standard.



Asset Allocation and Policy Guidelines

As of August 31, 2020

Asset Class	Assets and Allocation		Policy Target	Minimum Target	Maximum Target	Difference	
	\$ (MM)	%				From Policy Target	Within Target?
Public Markets Equity	7,304	51.0%	50.0%	45.0%	55.0%	1.0%	Yes
Global Equity	696	4.9%	8.0%	0.0%	15.0%	-3.1%	Yes
US Equity	3,493	24.4%	22.0%	17.0%	27.0%	2.4%	Yes
Non-US Equity Developed	2,230	15.6%	15.0%	11.0%	19.0%	0.6%	Yes
Non-US Equity Emerging	885	6.2%	5.0%	0.0%	10.0%	1.2%	Yes
Fixed Income and Cash	3,753	26.2%					
Risk-Reducing Fixed Income	2,833	19.8%	19.0%	13.0%	25.0%	0.8%	Yes
Return-Seeking Fixed Income	920	6.4%	6.0%	0.0%	12.0%	0.4%	Yes
Opportunistic	914	6.4%	6.0%	0.0%	15.0%	0.4%	Yes
Private Assets	2,357	16.5%	19.0%	8.0%	25.0%	-2.5%	Yes
Real Estate	1,119	7.8%	10.0%	5.0%	15.0%	-2.2%	Yes
Private Equity	672	4.7%	6.0%	0.0%	12.0%	-1.3%	Yes
Private Real Assets	566	4.0%	3.0%	0.0%	9.0%	1.0%	Yes
Total Invested	14,328	100.0%					



Portfolio and Benchmark Returns

As of August 31, 2020

	MTD	QTD	FYTD	CYTD	1 Year	3 Years	5 Years
SDCERA Total Trust Fund	3.3%	6.6%	6.6%	2.1%	8.0%	6.1%	7.2%
SDCERA Policy Benchmark	3.9%	7.7%	7.7%	3.6%	11.7%	7.1%	8.1%
Balanced Benchmark	4.2%	8.2%	8.2%	4.7%	13.0%	7.4%	8.2%

SDCERA Public Markets	3.7%	7.6%	7.6%	2.6%	9.7%	5.8%	7.3%
Balanced Benchmark	4.2%	8.2%	8.2%	4.7%	13.0%	7.4%	8.2%
Total Public Markets Equity	5.8%	10.9%	10.9%	2.7%	14.7%	7.6%	9.6%
MSCI ACWI IMI	6.1%	11.6%	11.6%	3.7%	15.4%	8.4%	9.9%
Total Fixed Income and Cash	0.1%	1.7%	1.7%	4.3%	4.8%	3.9%	4.0%
Bloomberg Barclays US Intermediate Aggregate	-0.1%	0.5%	0.5%	5.2%	5.5%	4.1%	3.4%

Opportunistic							
Opportunistic	3.1%	7.2%	7.2%	-8.0%	-5.8%	-0.5%	1.9%
Balanced Benchmark	4.2%	8.2%	8.2%	4.7%	13.0%	7.4%	8.2%

Private Assets							
<i>The industry standard is to present private asset returns with a quarterly lag</i>							
Real Estate	-0.8%	-0.4%	-0.4%	3.7%	6.6%	9.6%	9.9%
NCREIF ODCE	-0.6%	-1.2%	-1.2%	-2.2%	-0.6%	3.9%	5.6%
Private Equity	3.5%	6.8%	6.8%	-2.7%	-1.2%	7.7%	9.2%
MSCI ACWI IMI	6.1%	11.6%	11.6%	3.7%	15.4%	8.4%	9.9%
Private Real Assets	1.9%	1.9%	1.9%	-6.2%	-7.3%	1.0%	2.4%
MSCI ACWI IMI	6.1%	11.6%	11.6%	3.7%	15.4%	8.4%	9.9%

Equities by Sub-Asset Class							
Global Equity	5.7%	10.8%	10.8%	1.1%	13.0%	6.8%	9.1%
MSCI ACWI IMI	6.1%	11.6%	11.6%	3.7%	15.4%	8.4%	9.9%
US Equity	7.1%	13.1%	13.1%	8.8%	20.9%	13.6%	13.3%
MSCI USA IMI	7.2%	13.3%	13.3%	9.2%	21.0%	13.4%	13.3%
Non-US Equity Developed	5.2%	7.9%	7.9%	-3.4%	7.8%	2.9%	5.5%
MSCI EAFE IMI	5.5%	8.1%	8.1%	-4.5%	6.8%	2.4%	5.0%
Non-US Emerging	2.1%	10.6%	10.6%	-2.2%	11.2%	1.6%	7.9%
MSCI Emerging Markets	2.2%	11.3%	11.3%	0.5%	14.5%	2.8%	8.7%

Fixed Income by Sub-Asset Class							
Risk-Reducing Fixed Income	-0.3%	0.3%	0.3%	4.5%	4.3%	3.8%	
Bloomberg Barclays US Intermediate Aggregate	-0.1%	0.5%	0.5%	5.2%	5.5%	4.1%	
Return-Seeking Fixed Income	1.4%	5.7%	5.7%	0.5%	3.4%	3.3%	
ICE BofA U.S. High Yield Constrained	1.0%	5.8%	5.8%	0.7%	3.6%	4.5%	

Please note: The Risk-Reducing Fixed Income, Return-Seeking Fixed Income and ICE BofA U.S. High Yield Constrained 5 yr returns are blank because the current composite returns calculated by BNY Mellon do not cover these time periods. SDCERA Benchmark returns are before fees.



Portfolio Risk and Tracking Error

As of August 31, 2020	6/30/20 Trailing three years	7/31/20 Trailing three years	8/31/20 Trailing three years
Total Trust Fund	Volatility Tracking Error	Volatility Tracking Error	Volatility Tracking Error
SDCERA Total Trust Fund Assets	9.0% N/A	9.1% N/A	9.3% N/A
SDCERA Policy Benchmark	11.4% 2.7%	11.6% 2.7%	11.7% 2.7%
Forecasted			
Total Trust Fund	Volatility Tracking Error	Volatility Tracking Error	Volatility Tracking Error
SDCERA Total Trust Fund Assets	8.8% N/A	8.6% N/A	8.6% N/A
SDCERA Policy Benchmark	9.9% 1.3%	9.8% 1.3%	9.6% 1.1%
Balanced Benchmark	10.3% 1.7%	10.4% 2.0%	10.3% 1.8%
SDCERA Public-Only Assets	10.4% N/A	10.3% N/A	10.2% N/A
SDCERA Public Benchmark	10.2% 0.6%	10.4% 0.5%	10.3% 0.4%
Equities			
Global Equity	14.6% N/A	14.7% N/A	14.6% N/A
MSCI ACWI IMI	14.8% 1.6%	15.0% 1.3%	14.8% 1.3%
US Equity	15.7% N/A	15.8% N/A	15.6% N/A
MSCI USA IMI	15.4% 0.5%	15.5% 0.5%	15.4% 0.5%
Non-US Equity Developed	14.7% N/A	14.7% N/A	14.4% N/A
MSCI EAFE IMI	14.6% 0.7%	14.6% 0.7%	14.4% 0.7%
Non-US Emerging	18.3% N/A	18.3% N/A	17.8% N/A
MSCI Emerging Markets	17.9% 1.1%	17.9% 1.1%	17.4% 1.1%
Fixed Income			
Risk-Reducing Fixed Income	2.0% N/A	1.9% N/A	1.9% N/A
Bloomberg Barclays US Intermediate Aggregate	2.2% 0.5%	2.2% 0.5%	2.2% 0.5%
Return-Seeking Fixed Income	8.0% N/A	8.3% N/A	8.3% N/A
ICE BofA U.S. High Yield Constrained	8.0% 1.1%	8.2% 1.2%	8.1% 1.3%
Opportunistic			
Opportunistic	8.8% N/A	9.1% N/A	8.9% N/A
Balanced Benchmark	10.3% 2.7%	10.4% 2.6%	10.3% 2.6%
Private Assets			
Real Estate	1.3% N/A	1.4% N/A	1.4% N/A
NCREIF ODCE	0.3% 1.4%	0.9% 1.1%	0.9% 1.1%
Private Equity	2.6% N/A	3.2% N/A	3.2% N/A
MSCI ACWI IMI	14.8% 12.4%	15.0% 14.1%	14.8% 13.9%
Private Real Assets	11.2% N/A	12.1% N/A	12.1% N/A
MSCI ACWI IMI	14.8% 16.4%	15.0% 18.0%	14.8% 17.8%



Allocation Changes (millions)

Increase: Hoisington U.S. Treasury portfolio \$20
 Increase: PIMCO Short-Term Fixed \$28
 Decrease: Oaktree High Yield \$65
 Decrease: PIMCO Opportunistic Fund III \$8

Public Markets Portfolio Changes in August 2020

Portfolio %		Portfolio \$ millions		Summary Comments
Begin	End	Begin	End	
3.8%	3.8%	\$533	\$545	Earn incremental yield within Risk-Reducing Fixed Income; Liquidity management Reverse capital call; Earn incremental yield within Risk-Reducing Fixed Income Reverse capital call Reverse capital call
3.8%	3.9%	\$523	\$552	
4.1%	3.6%	\$572	\$513	
0.4%	0.3%	\$54	\$48	

Private Markets Portfolio Changes in August 2020

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

Benchmarks

- The SDCERA Policy benchmark is composed as follows: 50% MSCI ACWI Investable Market Index (IMI), 19% Bloomberg Barclays US Intermediate Aggregate Index, 6% ICE BofA U. S. High Yield Constrained Index, 6% Balanced Benchmark, 19% SDCERA Private Asset Benchmark.
- The SDCERA Balanced Benchmark is composed of 70% MSCI ACWI IMI and 30% Bloomberg Barclays U.S. Intermediate 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 Index.
- The Risk-Reducing Fixed Income Benchmark is the Bloomberg Barclays U.S. Intermediate Aggregate Index.
- The Return-Seeking Fixed Income Benchmark is the ICE BofA U.S. High Yield Constrained Index.
- The Opportunistic Benchmark is 70% MSCI ACWI IMI and 30% Bloomberg Barclays U.S. Intermediate Aggregate Index.
- The Total Private Assets Benchmark is composed of 1/2 NCREIF and 1/2 MSCI ACWI IMI.
- The Real Estate Benchmark is the NCREIF ODCE Index.
- The Private Equity Benchmark is the MSCI ACWI IMI.
- The Private Real Assets Benchmark is the MSCI ACWI IMI.
- The MSCI ACWI IMI captures large, mid and small cap representation across 23 Developed Markets (DM) and 26 Emerging Markets (EM) countries.
- The SDCERA Public Markets Risk Benchmark is an aggregate of 9.9% MSCI ACWI IMI, 27.2% MSCI USA IMI, 18.5% MSCI EAFE IMI, 6.2% MSCI Emerging Markets Index, 23.4% Bloomberg Barclays U.S. Intermediate Aggregate Index, 7.4% ICE BofA US High Yield Constrained Index, and 7.4% Balanced Benchmark.

Glossary

MSCI ACWI IMI: Morgan Stanley Capital International All Country World - Investable Market Index. A capitalization-weighted stock index that captures large, mid and small cap representation across 23 Developed Markets (DM) and 26 Emerging Markets (EM) countries. The index is comprised of 8,786 equity securities that cover approximately 99% of the global equity investment opportunity set as of June 30, 2020.

Bloomberg Barclays U.S. Intermediate Aggregate: A market value-weighted index consisting of U.S. Treasury securities, corporate bonds and mortgage-related and asset-backed securities with one to ten years to maturity and an outstanding par value of \$250 million or greater.

NCREIF ODCE: National Council of Real Estate Investment Fiduciaries – Open End Diversified Core Equity Index. A capitalization weighted index comprised of open-end, Core funds investing in commercial real estate properties. The funds that constitute the index are subject to certain geographic and property type diversification requirements as well as leverage restrictions. The index returns reflect the property-level leverage contained within each underlying fund. The returns shown in this report are net of management fees of the respective funds included in the index.

MSCI USA IMI: Morgan Stanley Capital International USA - Investable Market Index. A capitalization-weighted stock index designed to measure the performance of the large, mid and small cap segments of the U.S. market. The index is comprised of 2,344 equity securities that cover approximately 99% of the free float-adjusted market capitalization in the U.S. as of June 30, 2020.

MSCI EAFE IMI: Morgan Stanley Capital International Europe Australasia and Far East - Investable Market Index. A capitalization-weighted index of stocks that captures large, mid and small cap representation across Developed Markets countries around the world, excluding the U.S. and Canada. The index is comprised of 3,225 equity securities that cover approximately 99% of the free float-adjusted market capitalization in each country as of June 30, 2020.

MSCI Emerging Markets Index: A capitalization-weighted index of stocks that captures large and mid-cap representation across 26 Emerging Markets (EM) countries. The Index is comprised of 1,385 equity securities that cover approximately 85% of the free float-adjusted market capitalization in each country as of June 30, 2020.

ICE BofA U.S. High Yield Constrained Index: Intercontinental Exchange Bank of America. A market capitalization-weighted index that tracks the performance of U.S. dollar-denominated below investment grade corporate debt publicly issued in the U.S. domestic market. Issuers are constrained to no more than 2% of the index.