

Investment Performance Review
Period Ending January 31, 2021

Employees' Retirement System of the City of Norfolk





Market Overview (Domestic Equity vs. Domestic Fixed)

- For the month, large cap domestic equities underperformed domestic fixed income with the Russell 1000 Index returning -0.82% versus -0.72% for the Bloomberg Barclays Aggregate Index.
- For the year, the Russell 1000 Index is trailing the Bloomberg Barclays Aggregate Index with a return of -0.82% vs. -0.72%, respectively.

Broad Equity Market Overview

- Small cap domestic equities were the best equity performers for the month with the Russell 2000 Index returning 5.03%.
- International equities underperformed small cap domestic equities for the month (by -4.81%) with the ACWI ex-US Index returning 0.22%.
- For the month, large cap domestic equities underperformed both small cap domestic equities (by -5.85%) and international equities (by -1.04%) with the Russell 1000 Index returning -0.82%.
- On a year-to-date basis, small cap domestic equities are the best performing equity asset class with the Russell 2000 returning 5.03%.
- International equities are trailing small cap domestic equities for the year (by -4.81%) with the ACWI ex-US Index returning 0.22%.
- For the year, large cap domestic equities are trailing both small cap domestic equities (by -5.85%) and international equities (by -1.04%) with the Russell 1000 Index returning -0.82%.

Broad Fixed Market Overview

- For the month, domestic fixed securities outperformed global fixed ex-US securities, with the Bloomberg Barclays Aggregate returning -0.72%.
- Global fixed ex-US trailed domestic fixed (by -0.31%) for the month with the Bloomberg Barclays Global Aggregate ex-US returning -1.03%.
- For the year, domestic fixed securities are outperforming global fixed ex-US securities with the Bloomberg Barclays Aggregate returning -0.72%.
- Year-to-date, global fixed ex-US securities are trailing domestic fixed securities (by -0.31%) with the Bloomberg Barclays Global Aggregate ex-US returning -1.03%.

Equity Sector Performance For The Month

- The top three performing sectors for large cap domestic equities were:
Energy (return 3.96%), Health Care (return 1.95%) and Consumer Discretionary (return 0.53%)
- The bottom three performing sectors for large cap domestic equities were:
Consumer Staples (return -4.83%), Industrials (return -3.84%) and Materials (return -2.39%)
- The top three performing sectors for small cap domestic equities were:
Consumer Discretionary (return 14.64%), Energy (return 13.58%) and Communication Services (return 6.94%)
- The bottom three performing sectors for small cap domestic equities were:
Materials (return -2.72%), Utilities (return -1.07%) and Financials (return -0.62%)
- The top three performing sectors for international equities were:
Communication Services (return 5.88%), Information Technology (return 3.41%) and Consumer Discretionary (return 1.39%)
- The bottom three performing sectors for international equities were:
Consumer Staples (return -2.76%), Real Estate (return -2.04%) and Financials (return -1.68%)

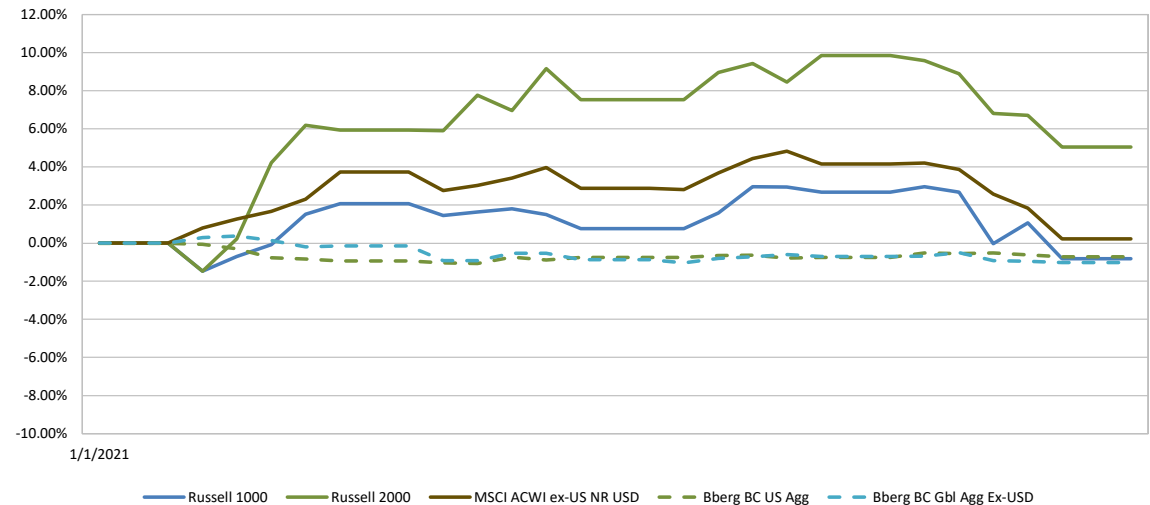
Fixed Income Sector Performance For The Month

- The sector performance for domestic fixed income in order of best performing to worst was:
MBS (return 0.08%), Treasury (return -0.96%) and Corporate (return -1.28%)

Fixed Income Quality Performance For The Month

- The quality performance for domestic fixed income in order of best performing to worst was:
Aaa (return -0.50%), Aa (return -1.03%), Baa (return -1.15%) and A (return -1.34%)

2021 Market Daily Index Total Return Performance



2021 Market Monthly Index Total Return Performance

	1/31/21	2/28/21	3/31/21	4/30/21	5/31/21	6/30/21	7/31/21	8/31/21	9/30/21	10/31/21	11/30/21	12/31/21	YTD
Russell 1000	-0.82%												-0.82%
Russell 2000	5.03%												5.03%
MSCI ACWI ex-US	0.22%												0.22%
Bloomberg BC Aggregate	-0.72%												-0.72%
Bberg BC Global Agg ex-US	-1.03%												-1.03%

Equity Sector Performance

	Month-To-Date			Year-To-Date		
	Russell 1000	Russell 2000	ACWI ex-US	Russell 1000	Russell 2000	ACWI ex-US
Energy	3.96%	13.58%	0.70%	3.96%	13.58%	0.70%
Materials	-2.39%	-2.72%	-0.62%	-2.39%	-2.72%	-0.62%
Industrials	-3.84%	4.59%	-0.86%	-3.84%	4.59%	-0.86%
Consumer Discretionary	0.53%	14.64%	1.39%	0.53%	14.64%	1.39%
Consumer Staples	-4.83%	6.55%	-2.76%	-4.83%	6.55%	-2.76%
Health Care	1.95%	6.16%	-0.45%	1.95%	6.16%	-0.45%
Real Estate	-0.07%	0.52%	-2.04%	-0.07%	0.52%	-2.04%
Financials	-1.50%	-0.62%	-1.68%	-1.50%	-0.62%	-1.68%
Information Technology	-0.84%	4.98%	3.41%	-0.84%	4.98%	3.41%
Communication Services	-1.14%	6.94%	5.88%	-1.14%	6.94%	5.88%
Utilities	-1.06%	-1.07%	-1.42%	-1.06%	-1.07%	-1.42%

Fixed Sector & Quality Performance

	Month-To-Date		Year-To-Date	
	BC Agg.		BC Agg.	
Treasury	-0.96%		-0.96%	
MBS	0.08%		0.08%	
Corporate	-1.28%		-1.28%	
Aaa	-0.50%		-0.50%	
Aa	-1.03%		-1.03%	
A	-1.34%		-1.34%	
Baa	-1.15%		-1.15%	



<u>Equities</u>	<u>Index Returns (%)</u>					
	<u>Month</u>	<u>3 M</u>	<u>YTD</u>	<u>1 Year</u>	<u>3 Yr Ann</u>	<u>5 Yr Ann</u>
S&P 500 Total Return	(1.01)	14.05	(1.01)	17.25	11.70	16.16
Russell Midcap Index	(0.26)	18.84	(0.26)	17.73	10.14	14.88
Russell 2000 Index	5.03	35.15	5.03	30.17	11.11	16.50
Russell 1000 Growth Index	(0.74)	14.46	(0.74)	34.46	19.92	22.22
Russell 1000 Value Index	(0.92)	16.72	(0.92)	4.09	4.41	10.71
Russell 3000 Index	(0.44)	16.69	(0.44)	20.48	12.38	16.68
MSCI EAFE NR	(1.07)	19.58	(1.07)	8.94	2.23	8.84
MSCI EM NR	3.07	20.88	3.07	27.89	4.42	15.03

<u>Fixed Income</u>	<u>Index Returns (%)</u>					
	<u>Month</u>	<u>3 M</u>	<u>YTD</u>	<u>1 Year</u>	<u>Mod. Adj. Duration</u>	<u>Yield to Worst</u>
U.S. Aggregate	(0.72)	0.39	(0.72)	4.72	6.09	1.17
U.S. Corporate Investment Grade	(1.28)	1.91	(1.28)	5.99	8.70	1.86
U.S. Corporate High Yield	0.33	6.26	0.33	7.44	3.68	4.31
Global Aggregate	(0.88)	2.28	(0.88)	6.87	7.36	0.88

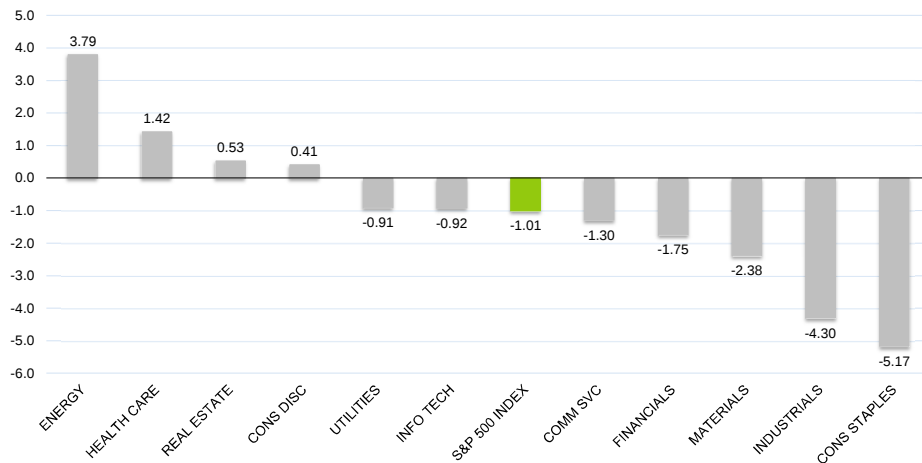
<u>Key Rates</u>	<u>Levels (%)</u>				
	<u>01/31/21</u>	<u>12/31/20</u>	<u>12/31/19</u>	<u>12/31/18</u>	<u>12/31/17</u>
US Generic Govt 3 Mth	0.05	0.06	1.54	2.35	1.38
US Generic Govt 2 Yr	0.11	0.12	1.57	2.49	1.88
US Generic Govt 10 Yr	1.07	0.91	1.92	2.68	2.41
US Generic Govt 30 Yr	1.83	1.64	2.39	3.01	2.74
ICE LIBOR USD 3M	0.20	0.24	1.91	2.81	1.69
Euribor 3 Month ACT/360	(0.55)	(0.55)	(0.38)	(0.31)	(0.33)
Bankrate 30Y Mortgage Rates Na	2.88	2.87	3.86	4.51	3.85
Prime	3.25	3.25	4.75	5.50	4.50

Russell Indices Style Returns *								
V			B			G		
-0.9	-0.8	-0.7	L	2.8	20.9	38.4		
-0.2	-0.3	-0.3		M	4.9	17.0	35.5	
5.3	5.0	4.8		S	4.6	19.9	34.5	
YTD				2020				

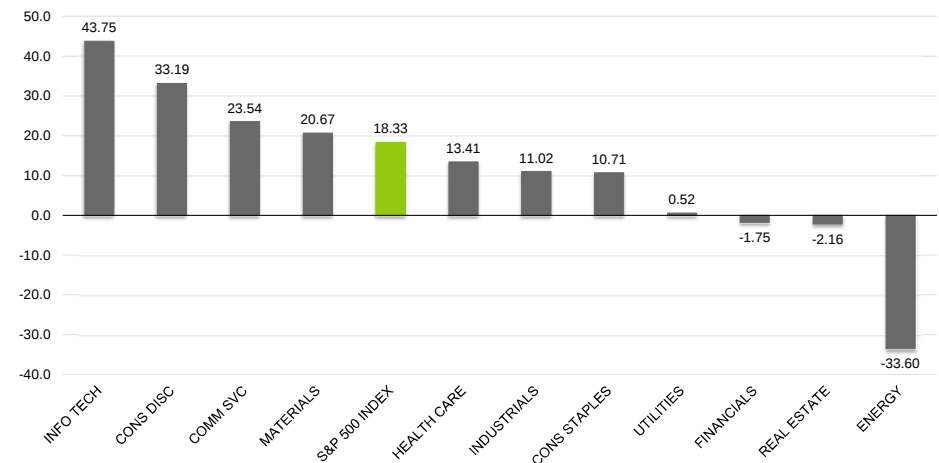
<u>Currencies</u>	<u>Levels</u>		
	<u>01/31/21</u>	<u>12/31/20</u>	<u>12/31/19</u>
Euro Spot	1.21	1.22	1.12
British Pound Spot	1.37	1.37	1.33
Japanese Yen Spot	104.68	103.25	108.61
Swiss Franc Spot	0.89	0.89	0.97

<u>Commodities</u>	<u>Levels</u>		
	<u>01/31/21</u>	<u>12/31/20</u>	<u>12/31/19</u>
Oil	52.20	48.63	55.32
Gasoline	2.42	2.25	2.59
Natural Gas	2.56	2.53	2.55
Gold	1,850.30	1,899.60	1,187.30
Silver	26.91	26.41	16.50
Copper	355.60	351.90	283.05
Corn	547.00	484.00	411.25
BBG Commodity TR Idx	171.01	166.63	172.00

YTD Sector Returns



2020 Sector Returns



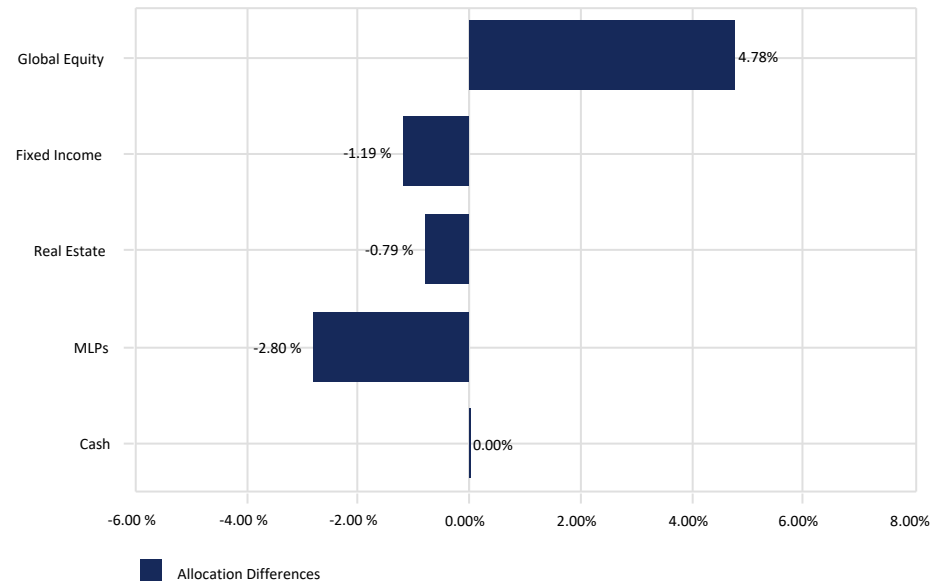
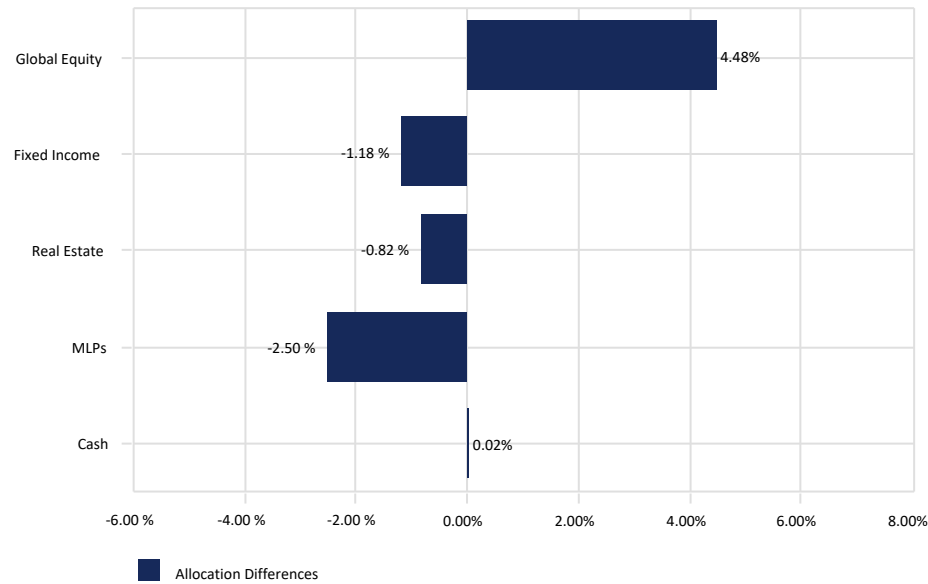
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*Heat maps are displayed utilizing a 9-color scale, with green as the highest return for the time period noted and red as the lowest return for the time period noted. Color scales within each time period are mutually exclusive.

Employees' Retirement System of the City of Norfolk

Asset Allocation vs. Target Allocation

January 31, 2021



January 31, 2021

	Market Value (\$)	Allocation (%)	Target (%)
Global Equity	710,080,111	59.48	55.00
Fixed Income	344,074,580	28.82	30.00
Real Estate	79,705,212	6.68	7.50
MLPs	59,634,797	5.00	7.50
Cash	269,593	0.02	0.00
Total Fund	1,193,764,292	100.00	100.00

December 31, 2020

	Market Value (\$)	Allocation (%)	Target (%)
Global Equity	717,455,887	59.78	55.00
Fixed Income	345,734,922	28.81	30.00
Real Estate	80,520,227	6.71	7.50
MLPs	56,427,489	4.70	7.50
Cash	10,685	0.00	0.00
Total Fund	1,200,149,210	100.00	100.00

Employees' Retirement System of the City of Norfolk

Asset Allocation & Performance - (net of fees)

January 31, 2021

	Asset \$	Asset %	1 Month	3 Month	CYTD	FYTD	1 Year	3 Year	5 Year	Since Inception	Inception Date
Total Fund Composite	1,193,764,292	100.00	0.06	11.68	0.06	14.89	10.38	5.69	9.44	8.13	Oct -1990
Total Fund Policy (62.5% ACWI/37.5% Agg)			-0.38	11.28	-0.38	15.41	13.44	7.33	10.13	8.35	
Excess Return			0.44	0.40	0.44	-0.52	-3.06	-1.64	-0.69	-0.22	
Total Fund Strategy Index			0.13	12.50	0.13	15.13	11.58	6.15	9.41	8.23	
Excess Return			-0.07	-0.82	-0.07	-0.24	-1.20	-0.46	0.03	-0.10	
Composite Returns											
Global Equity	710,080,111	59.48	-0.13	18.21	-0.13	25.19	18.25	8.21	14.03	9.37	Oct -1990
Global Equity Policy			-0.18	18.05	-0.18	24.86	17.60	7.75	13.53	9.61	
Excess Return			0.05	0.16	0.05	0.33	0.65	0.46	0.50	-0.24	
Fixed Income	344,074,580	28.82	-0.48	0.77	-0.48	1.25	5.57	5.64	4.35	6.02	Oct -1990
Blmbg. Barc. U.S. Aggregate			-0.72	0.39	-0.72	0.56	4.72	5.49	4.00	5.94	
Excess Return			0.24	0.38	0.24	0.69	0.85	0.15	0.35	0.08	
Real Estate	79,705,212	6.68	0.14	-0.15	0.14	-0.16	-1.90	1.56	3.43	7.48	Apr -2011
NCREIF Fund Index-ODCE (VW) (Net)			0.00	1.10	0.00	1.37	0.34	3.99	5.27	8.62	
Excess Return			0.14	-1.25	0.14	-1.53	-2.24	-2.43	-1.84	-1.14	
MLPs	59,634,797	5.00	5.68	28.30	5.68	15.21	-19.06	-11.21	-1.39	-2.71	Mar -2013
Alerian MLP Index			5.84	34.31	5.84	17.40	-20.04	-12.67	-2.61	-5.90	
Excess Return			-0.16	-6.01	-0.16	-2.19	0.98	1.46	1.22	3.19	
Cash	269,593	0.02									



Employees' Retirement System of the City of Norfolk

Asset Allocation & Performance - (net of fees)

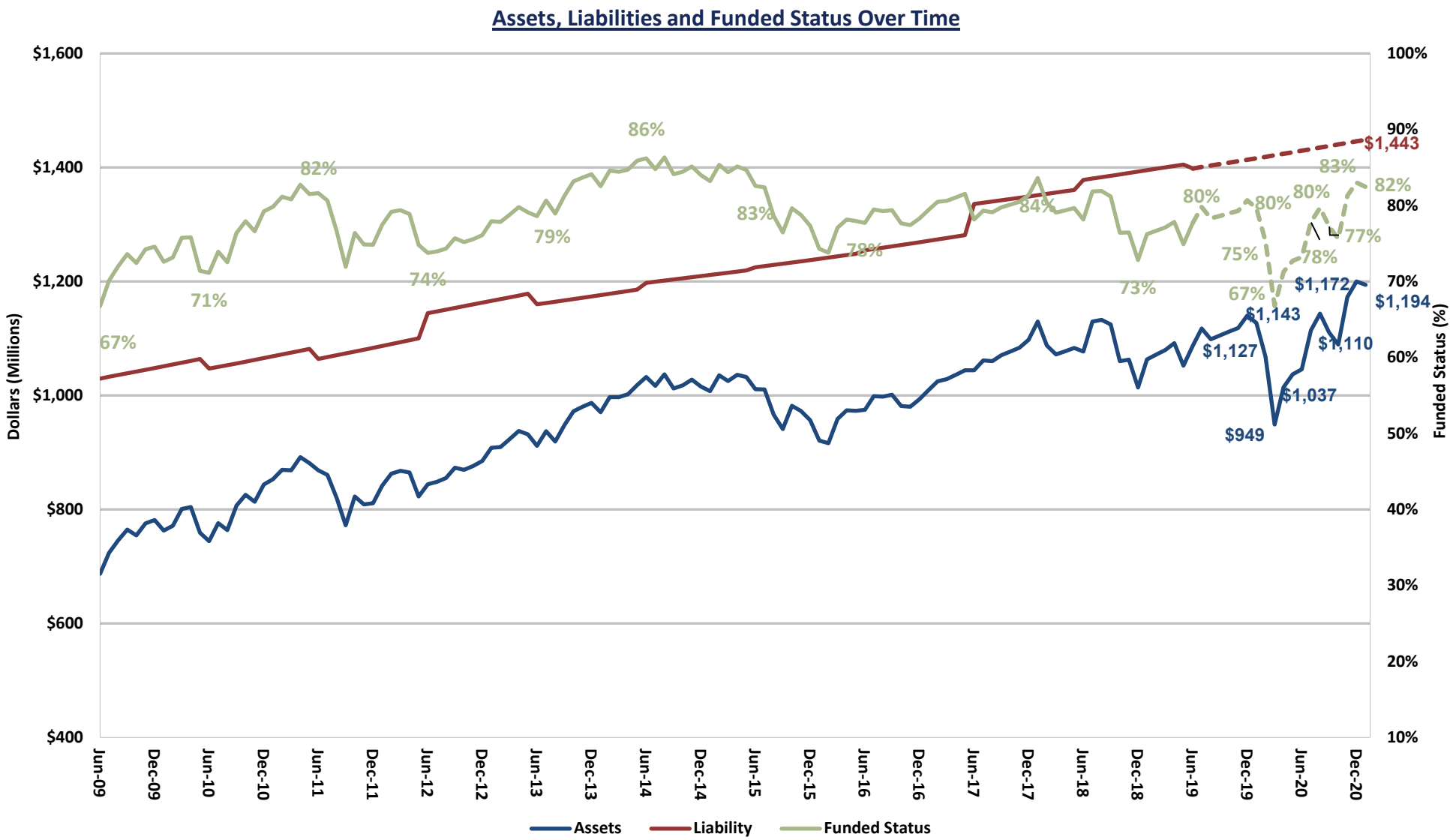
January 31, 2021

	Asset \$	Asset %	1 Month	3 Month	CYTD	FYTD	1 Year	3 Year	5 Year	Since Inception	Inception Date
Global Equity											
SSgA MSCI ACWI IMI Index Fund	710,080,111	59.48	-0.13	18.21	-0.13	25.19	18.25	8.21	-	12.81	May -2016
MSCI AC World IMI (Net)			-0.18	18.05	-0.18	24.86	17.60	7.75	-	12.34	
Excess Return			0.05	0.16	0.05	0.33	0.65	0.46	-	0.47	
Fixed Income											
PIMCO Total Return	184,367,406	15.44	-0.28	1.08	-0.28	1.79	6.26	5.77	4.67	6.36	Jan -1991
Blmbg. Barc. U.S. Aggregate			-0.72	0.39	-0.72	0.56	4.72	5.49	4.00	5.82	
Excess Return			0.44	0.69	0.44	1.23	1.54	0.28	0.67	0.54	
SSgA Bond Market Index	159,707,174	13.38	-0.71	0.42	-0.71	0.61	4.76	5.52	4.01	4.15	Jan -2009
Blmbg. Barc. U.S. Aggregate			-0.72	0.39	-0.72	0.56	4.72	5.49	4.00	4.14	
Excess Return			0.01	0.03	0.01	0.05	0.04	0.03	0.01	0.01	
Real Estate											
JP Morgan Asset Mgmt Strategic Property Fund	43,592,123	3.65	0.26	1.58	0.26	1.93	0.78	3.65	4.87	8.74	Apr -2011
NCREIF Fund Index-ODCE (VW) (Net)			0.00	1.10	0.00	1.37	0.34	3.99	5.27	8.62	
Excess Return			0.26	0.48	0.26	0.56	0.44	-0.34	-0.40	0.12	
UBS Trumbull Property Fund	36,113,089	3.03	0.00	-2.11	0.00	-2.50	-4.85	-0.68	1.82	5.32	Jan -2012
NCREIF Fund Index-ODCE (VW) (Net)			0.00	1.10	0.00	1.37	0.34	3.99	5.27	8.14	
Excess Return			0.00	-3.21	0.00	-3.87	-5.19	-4.67	-3.45	-2.82	
MLPs											
Harvest MLP	31,092,880	2.60	5.77	26.57	5.77	17.22	-16.84	-9.93	-0.45	-2.31	Mar -2013
Alerian MLP Index			5.84	34.31	5.84	17.40	-20.04	-12.67	-2.61	-5.90	
Excess Return			-0.07	-7.74	-0.07	-0.18	3.20	2.74	2.16	3.59	
Tortoise Capital Advisors	28,541,917	2.39	5.59	30.24	5.59	13.08	-21.34	-12.51	-2.37	-3.79	Apr -2013
Alerian MLP Index			5.84	34.31	5.84	17.40	-20.04	-12.67	-2.61	-6.59	
Excess Return			-0.25	-4.07	-0.25	-4.32	-1.30	0.16	0.24	2.80	



Employees' Retirement System for the City of Norfolk

Asset Liability Scorecard Net of Fees*



*The dashed liability line and dashed funded status line are not actuarial calculations and are for projections purposes only.

As of July 1, 2019, Total Plan Actuarial Liability (AL) is \$1.398 billion and the Actuarial Value of assets (AVA) is \$1.097 billion for an Actuarial funded ratio (AVA/AL) of 79%. Using the Market Value of Assets (MVA), the Market Funded Ratio (MVA/AL) was approximately 83% in December 2020 and 83% in January 2021.



Employees' Retirement System of the City of Norfolk

Historical Hybrid Composition

January 31, 2021

	<u>(%)</u>		<u>(%)</u>
Total Fund Policy : May-2016		Total Fund Strategy Index : Jul-2016	
MSCI AC World IMI (Net)	62.50	MSCI AC World IMI (Net)	55.00
Blmbg. Barc. U.S. Aggregate	37.50	Blmbg. Barc. U.S. Aggregate	30.00
		NCREIF Fund Index-ODCE (VW) (Net)	7.50
		Alerian MLP Index	7.50

Strategy Index is comprised of the returns of the various broad market benchmarks assigned to each manager and weighted to reflect the System's target asset allocation.



Employees' Retirement System of the City of Norfolk

Historical Hybrid Composition

January 31, 2021

Global Equity Policy

(%)

May-2016

MSCI AC World IMI (Net)	100.00
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Sep-2009

Russell 3000 Index	60.00
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MSCI AC World ex USA (Net)	40.00
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Jun-2009

Russell 3000 Index	70.00
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MSCI AC World ex USA (Net)	30.00
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Jun-2006

Russell 3000 Index	70.00
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MSCI EAFE Index	30.00
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Oct-1990

S&P 500	100.00
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Active Return	- Arithmetic difference between the manager's performance and the designated benchmark return over a specified time period.
Alpha	- A measure of the difference between a portfolio's actual performance and its expected return based on its level of risk as determined by beta. It determines the portfolio's non-systemic return, or its historical performance not explained by movements of the market.
Beta	- A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of the portfolio's systematic risk.
Consistency	- The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. Higher consistency indicates the manager has contributed more to the product's performance.
Distributed to Paid In (DPI)	- The ratio of money distributed to Limited Partners by the fund, relative to contributions. It is calculated by dividing cumulative distributions by paid in capital. This multiple shows the investor how much money they got back. It is a good measure for evaluating a fund later in its life because there are more distributions to measure against.
Down Market Capture	- The ratio of average portfolio performance over the designated benchmark during periods of negative returns. A lower value indicates better product performance
Downside Risk	- A measure similar to standard deviation that utilizes only the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. A higher factor is indicative of a riskier product.
Excess Return	- Arithmetic difference between the manager's performance and the risk-free return over a specified time period.
Excess Risk	- A measure of the standard deviation of a portfolio's performance relative to the risk free return.
Information Ratio	- This calculates the value-added contribution of the manager and is derived by dividing the active rate of return of the portfolio by the tracking error. The higher the Information Ratio, the more the manager has added value to the portfolio.
Public Market Equivalent (PME)	- Designs a set of analyses used in the Private Equity Industry to evaluate the performance of a Private Equity Fund against a public benchmark or index.
R-Squared	- The percentage of a portfolio's performance that can be explained by the behavior of the appropriate benchmark. A high R-Squared means the portfolio's performance has historically moved in the same direction as the appropriate benchmark.
Return	- Compounded rate of return for the period.
Sharpe Ratio	- Represents the excess rate of return over the risk free return divided by the standard deviation of the excess return. The result is an absolute rate of return per unit of risk. A higher value demonstrates better historical risk-adjusted performance.
Standard Deviation	- A statistical measure of the range of a portfolio's performance. It represents the variability of returns around the average return over a specified time period.
Total Value to Paid In (TVPI)	- The ratio of the current value of remaining investments within a fund, plus the total value of all distributions to date, relative to the total amount of capital paid into the fund to date. It is a good measure of performance before the end of a fund's life
Tracking Error	- This is a measure of the standard deviation of a portfolio's returns in relation to the performance of its designated market benchmark.
Treynor Ratio	- Similar to Sharpe ratio but utilizes beta rather than excess risk as determined by standard deviation. It is calculated by taking the excess rate of return above the risk free rate divided by beta to derive the absolute rate of return per unit of risk. A higher value indicates a product has achieved better historical risk-adjusted performance.
Up Market Capture	- The ratio of average portfolio performance over the designated benchmark during periods of positive returns. A higher value indicates better product performance.

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