



Monthly Investment Performance Analysis

City of Jacksonville Employees' Retirement System

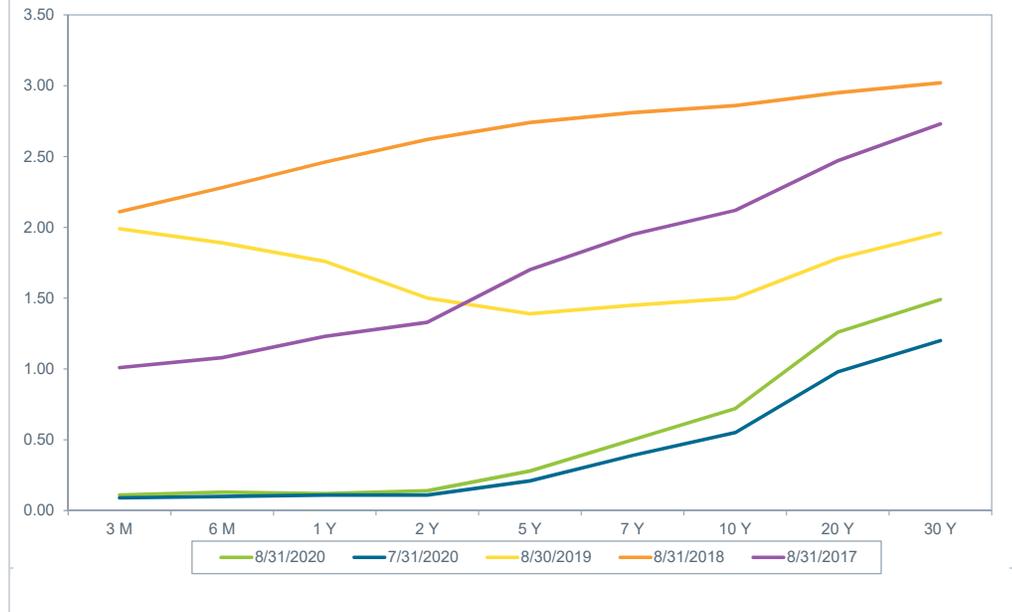
Period Ended: August 31, 2020



General Market Commentary

- The Federal Open Market Committee (FOMC) announced a new framework surrounding monetary policy. Chairwoman Powell stated that the Fed would tolerate inflation “moderately” above its 2% target after periods in which inflation had run below the 2% target, a strategy known as Flexible Average Inflation Targeting. Chairman Powell described the change in policy as a reflection of the FOMC’s opinion that a strong job market can be maintained without fears of large spikes in inflation. Many investors viewed this announcement as a positive development as it assured investors that the Fed would keep interest rates low for the foreseeable future.
- August was a very strong month for US equity markets, with all major indices finishing in positive territory. The S&P 500 Index reached its all-time high in August, driven by continued expectations of low interest rates coupled with strong corporate earnings. Better-than-expected economic data, declining COVID-19 cases, and optimism of a vaccine also spurred investor confidence.
- Developed international markets and emerging markets also experienced a positive month, with most major indices finishing with low to mid-single digit returns, largely driven by accommodative fiscal and monetary policy in multiple countries.
- Equity markets posted positive returns in August as the S&P 500 (Cap Wtd) Index returned 7.19% and the MSCI EAFE (Net) Index returned 5.14%. Emerging markets returned 2.21% as measured by the MSCI EM (Net) Index.
- The Bloomberg US Aggregate Bond Index returned -0.81% in August, underperforming the -0.20% return by the Bloomberg US Treasury Intermediate Term Index. International fixed income markets returned -0.09%, as measured by the FTSE Non-US World Gov’t Bond Index.
- Public real estate, as measured by the FTSE NAREIT Eq REITs Index (TR), returned 0.78% in August and 5.25% over the trailing five-year period.
- The Cambridge US Private Equity Index returned -2.32% for the trailing one-year period and 9.20% for the trailing five-year period ending March 2020.
- Absolute return strategies, as measured by the HFRI FOF Comp Index, returned 2.08% for the month and 5.50% over the trailing one-year period.
- Crude oil’s price increased by 5.81% during the month, but has decreased by 22.67% YoY.

Treasury Yield Curve (%)



Economic Indicators	Aug-20	Jul-20	Aug-19	10 Yr	20 Yr
Federal Funds Rate (%)	0.09 ▼	0.10	2.13	0.64	1.60
Breakeven Inflation - 5 Year (%)	1.70 ▲	1.43	1.36	1.72	1.82
Breakeven Inflation - 10 Year (%)	1.80 ▲	1.55	1.54	1.95	2.01
Breakeven Inflation - 30 Year (%)	1.84 ▲	1.64	1.60	2.07	2.24
Bloomberg US Agg Bond Index - Yield (%)	1.15 ▲	1.05	2.13	2.40	3.60
Bloomberg US Agg Bond Index - OAS (%)	0.57 ▼	0.60	0.48	0.53	0.63
Bloomberg US Agg Credit Index - OAS (%)	1.22 ▼	1.26	1.14	1.32	1.46
Bloomberg US Corp: HY Index - OAS (%)	4.77 ▼	4.88	3.93	4.78	5.47
Capacity Utilization (%)	71.42 ▲	71.14	77.84	76.59	76.74
Unemployment Rate (%)	8.4 ▼	10.2	3.7	6.2	6.0
PMI - Manufacturing (%)	56.0 ▲	54.2	48.8	53.8	52.5
Baltic Dry Index - Shipping	1,488 ▼	1,350	2,378	1,145	2,304
Consumer Conf (Conf Board)	84.80 ▲	91.70	134.20	94.59	91.31
CPI YoY (Headline) (%)	1.3 ▲	1.0	1.7	1.7	2.1
CPI YoY (Core) (%)	1.7 ▲	1.6	2.4	1.9	2.0
PPI YoY (%)	-1.5 ▲	-1.8	0.3	1.4	2.1
M2 YoY (%)	23.3 —	23.3	5.2	6.8	6.5
US Dollar Total Weighted Index	117.05 ▼	117.60	118.22	104.08	103.21
WTI Crude Oil per Barrel (\$)	43 ▲	40	55	70	62
Gold Spot per Oz (\$)	1,968 ▼	1,976	1,520	1,384	982

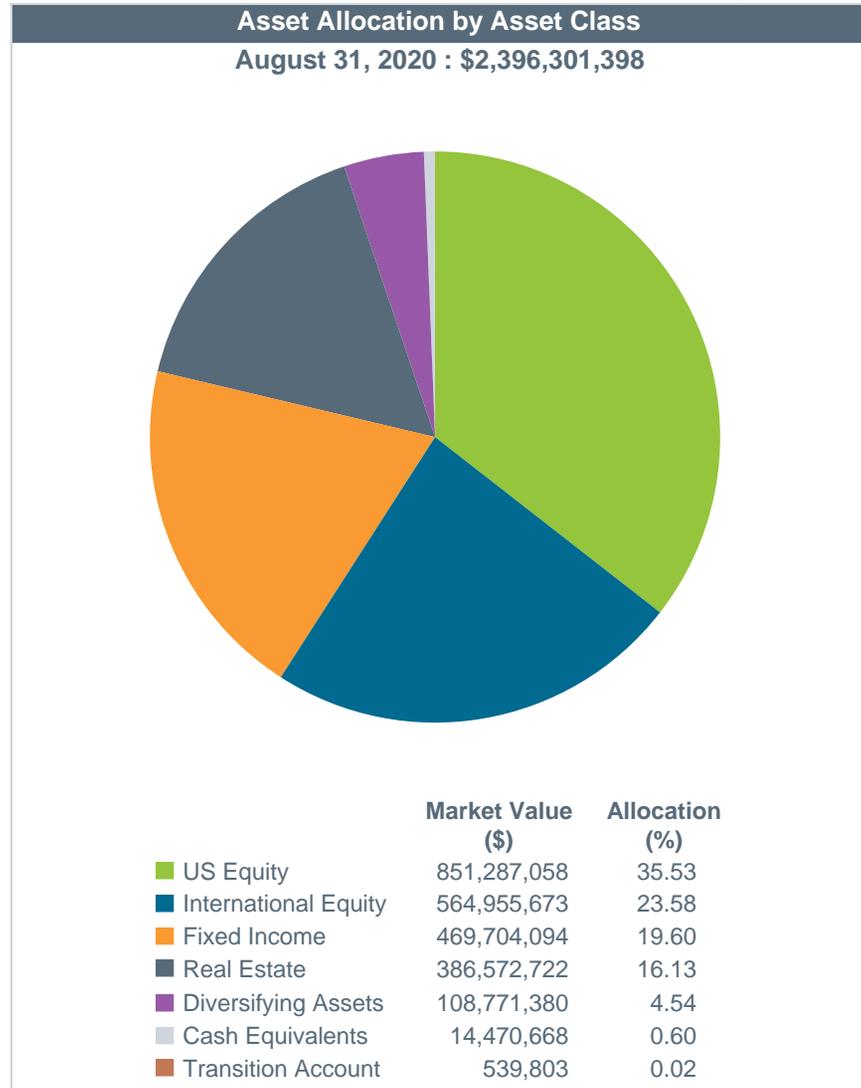
Treasury Yield Curve (%)	Aug-20	Jul-20	Aug-19	Aug-18	Aug-17
3 Month	0.11	0.09	1.99	2.11	1.01
6 Month	0.13	0.10	1.89	2.28	1.08
1 Year	0.12	0.11	1.76	2.46	1.23
2 Year	0.14	0.11	1.50	2.62	1.33
5 Year	0.28	0.21	1.39	2.74	1.70
7 Year	0.50	0.39	1.45	2.81	1.95
10 Year	0.72	0.55	1.50	2.86	2.12
20 Year	1.26	0.98	1.78	2.95	2.47
30 Year	1.49	1.20	1.96	3.02	2.73

Market Performance (%)	MTD	QTD	CYTD	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr
S&P 500 (Cap Wtd)	7.19	13.23	9.74	21.94	14.52	14.46	13.80	15.16
Russell 2000	5.63	8.56	-5.53	6.02	5.03	7.65	7.89	11.53
MSCI EAFE (Net)	5.14	7.59	-4.61	6.13	2.34	4.72	4.46	5.88
MSCI EAFE SC (Net)	7.46	11.07	-3.49	10.66	2.61	6.79	7.12	8.58
MSCI EM (Net)	2.21	11.34	0.45	14.49	2.83	8.66	4.92	3.76
Bloomberg US Agg Bond	-0.81	0.67	6.85	6.47	5.09	4.33	4.12	3.65
ICE BofAML 3 Mo US T-Bill	0.01	0.03	0.63	1.27	1.72	1.20	0.86	0.64
NCREIF ODCE (Gross)	N/A	N/A	-0.60	2.22	5.66	7.31	9.07	10.80
FTSE NAREIT Eq REITs Index (TR)	0.78	4.86	-14.76	-12.92	1.30	5.25	7.03	8.73
HFRI FOF Comp Index	2.08	4.43	2.81	5.50	3.12	2.76	3.30	3.15
Bloomberg Cmtdy Index (TR)	6.76	12.86	-9.04	-3.90	-3.13	-3.10	-7.13	-5.05

NCREIF performance is reported quarterly; MTD and QTD returns are shown as "N/A" on interim-quarter months and until available. Data shown is as of most recent quarter-end. Treasury data courtesy of the US Department of the Treasury. Economic data courtesy of Bloomberg Professional Service.

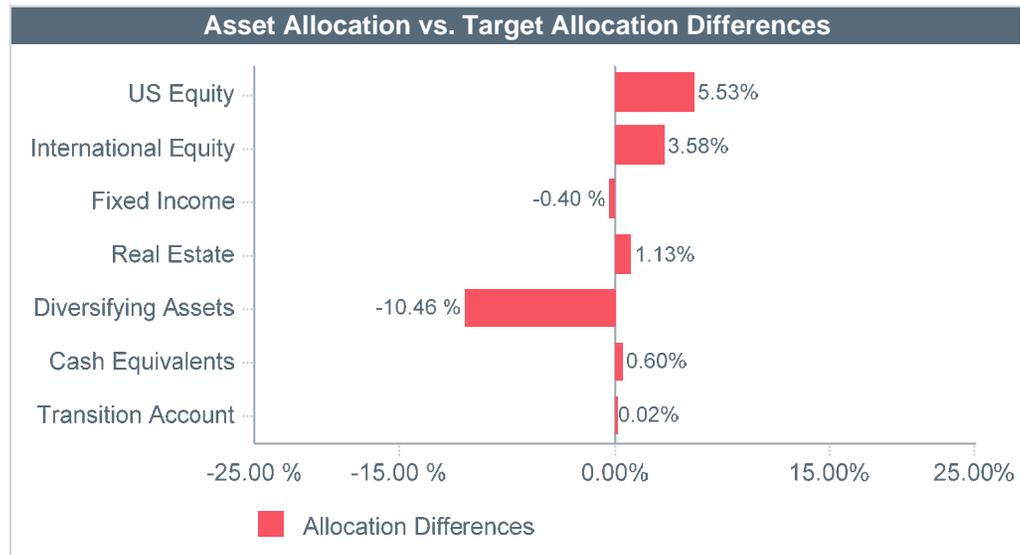


Asset Allocation by Asset Class, Asset Allocation vs. Target, and Schedule of Investable Assets



Asset Allocation vs. Target Allocation

	Market Value (\$)	Allocation (%)	Min (%)	Target (%)	Max (%)
Total Fund	2,396,301,398	100.00	-	100.00	-
US Equity	851,287,058	35.53	20.00	30.00	40.00
International Equity	564,955,673	23.58	10.00	20.00	25.00
Fixed Income	469,704,094	19.60	10.00	20.00	30.00
Real Estate	386,572,722	16.13	0.00	15.00	20.00
Diversifying Assets	108,771,380	4.54	0.00	15.00	20.00
Cash Equivalents	14,470,668	0.60	0.00	0.00	10.00
Transition Account	539,803	0.02	0.00	0.00	0.00



Schedule of Investable Assets

Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return	Unit Value
CYTD	2,342,377,799	2,028,892	51,894,707	2,396,301,398	2.21	102.21

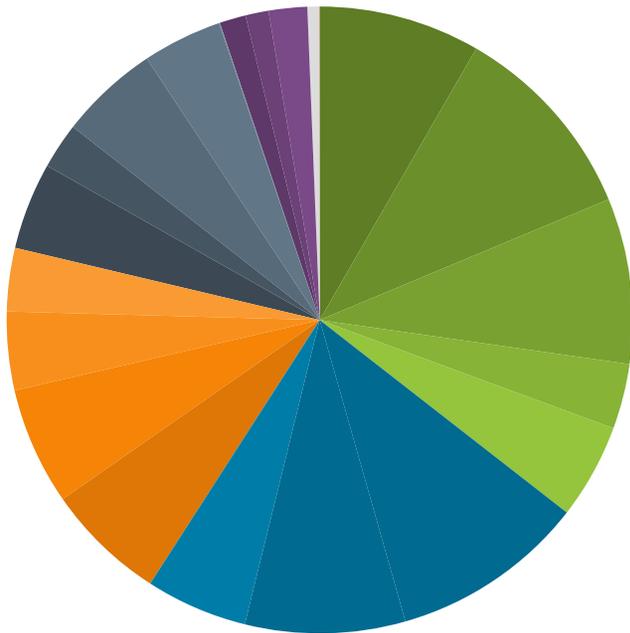
Market values and performance shown are preliminary and subject to change. Performance shown is net of fees. Allocations shown may not sum up to 100% exactly due to rounding.



City of Jacksonville Employees' Retirement System
 Asset Allocation By Manager

As of August 31, 2020

August 31, 2020 : \$2,396,301,398



	Market Value (\$)	Allocation (%)
Eagle Capital Large Cap Value (SA)	199,784,862	8.34
Mellon Large Cap Core Index (CF)	248,606,206	10.37
Loomis Sayles Large Cap Growth (CF)	204,623,548	8.54
William Blair Small Cap Value (SA)	80,706,473	3.37
Pinnacle Associates US SMID Cap Growth (SA)	117,565,968	4.91
Silchester International Value (CF)	241,063,465	10.06
Baillie Gifford International Growth (BGEFX)	197,954,236	8.26
Acadian Emerging Markets (CF)	125,937,972	5.26
Richmond Capital Core (SA)	149,056,523	6.22
BMO Intermediate Fixed Income (SA)	145,332,975	6.06
Franklin Templeton Global Multisector Plus (CF)	96,998,303	4.05
Loomis Sayles Multisector Full Discretion (CF)	78,316,293	3.27
Harrison Street Core Property, LP	107,491,025	4.49
PGIM Real Estate PRISA II LP (CF)	56,780,769	2.37
Principal US Property (CF)	122,884,034	5.13
UBS Trumbull Property (CF)	98,385,594	4.11
Vanguard RE Idx;ETF (VNQ)	1,031,300	0.04
Harvest Fund Advisors MLP (SA)	32,393,660	1.35
Tortoise Capital Advisors MLP (SA)	28,844,294	1.20
Hancock Timberland (SA)	47,533,426	1.98
Dreyfus Gvt Csh Mgt;Inst (DGCXX)	14,470,668	0.60
Transition Account	539,803	0.02

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City of Jacksonville Employees' Retirement System
 Asset Allocation & Performance (Net of Fees)

As of August 31, 2020

	Allocation		Performance (%)										
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Total Fund	2,396,301,398	100.00	3.67	6.54	2.21	8.47	10.09	6.09	7.59	7.70	9.11	6.28	07/01/1999
Current Total Fund Policy Index			2.97	5.72	0.80	5.31	6.52	5.90	7.10	7.24	8.60	5.76	
Difference			0.70	0.82	1.41	3.16	3.57	0.19	0.49	0.46	0.51	0.52	
Legacy Total Fund Policy Index			3.32	6.45	2.22	7.35	8.68	6.77	7.63	7.62	8.87	5.88	
Difference			0.35	0.09	-0.01	1.12	1.41	-0.68	-0.04	0.08	0.24	0.40	
Total Equity	1,416,242,730	59.10	6.37	11.10	4.78	15.67	18.24	8.91	10.73	10.16	11.90	6.38	07/01/1999
US Equity	851,287,058	35.53	7.20	12.18	6.20	16.76	18.84	12.17	12.05	12.04	13.94	6.87	07/01/1999
US Equity Index			7.24	13.33	9.39	19.35	21.44	13.95	13.86	13.29	14.94	6.96	
Difference			-0.04	-1.15	-3.19	-2.59	-2.60	-1.78	-1.81	-1.25	-1.00	-0.09	
International Equity	564,955,673	23.58	5.14	9.51	2.72	14.06	17.45	3.99	8.56	6.89	8.06	5.99	07/01/1999
International Equity Index			4.28	8.93	-3.05	5.60	8.31	2.63	5.75	4.55	5.33	3.84	
Difference			0.86	0.58	5.77	8.46	9.14	1.36	2.81	2.34	2.73	2.15	
Fixed Income	469,704,094	19.60	-0.58	0.84	4.17	5.05	5.07	3.47	3.75	3.46	3.86	5.30	07/01/1999
Fixed Income Index			-0.58	1.17	6.40	6.88	6.41	5.02	4.29	4.09	3.63	5.09	
Difference			0.00	-0.33	-2.23	-1.83	-1.34	-1.55	-0.54	-0.63	0.23	0.21	
Real Estate	386,572,722	16.13	0.08	0.15	-0.64	0.60	1.61	4.70	6.36	7.81	8.54	5.44	12/01/2005
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	-1.01	0.25	1.33	4.72	6.35	8.09	9.78	5.79	
Difference			0.08	0.15	0.37	0.35	0.28	-0.02	0.01	-0.28	-1.24	-0.35	
Diversifying Assets	108,771,380	4.54	2.34	1.07	-19.81	-20.12	-19.43	-6.95	-4.27	-1.27	N/A	3.02	03/01/2011
Diversifying Assets Index			0.35	-1.47	-21.81	-23.35	-23.18	-7.27	-4.59	-2.10	1.66	0.69	
Difference			1.99	2.54	2.00	3.23	3.75	0.32	0.32	0.83	N/A	2.33	

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City of Jacksonville Employees' Retirement System
Asset Allocation & Performance (Net of Fees)

As of August 31, 2020

	Allocation		Performance (%)										
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
US Equity													
Eagle Capital Large Cap Value (SA)	199,784,862	8.34	7.61	11.94	0.41	10.79	12.30	10.94	11.91	12.22	14.44	10.14	02/01/2007
Russell 1000 Val Index			4.14	8.25	-9.35	-2.63	0.84	4.50	7.53	8.12	11.05	5.47	
Difference			3.48	3.69	9.76	13.42	11.46	6.44	4.38	4.10	3.39	4.67	
Mellon Large Cap Core Index (CF)	248,606,206	10.37	7.33	13.61	10.38	20.35	22.44	N/A	N/A	N/A	N/A	16.29	05/01/2019
Russell 1000 Index			7.34	13.63	10.43	20.41	22.50	14.58	14.31	13.70	15.19	16.35	
Difference			-0.01	-0.02	-0.05	-0.06	-0.06	N/A	N/A	N/A	N/A	-0.06	
Loomis Sayles Large Cap Growth (CF)	204,623,548	8.54	10.08	15.72	27.28	39.81	38.96	22.13	N/A	N/A	N/A	21.45	08/01/2017
Russell 1000 Grth Index			10.32	18.81	30.47	44.32	44.34	24.18	20.66	18.94	19.02	24.18	
Difference			-0.24	-3.09	-3.19	-4.51	-5.38	-2.05	N/A	N/A	N/A	-2.73	
William Blair Small Cap Value (SA)	80,706,473	3.37	3.55	5.94	-21.66	-17.77	-14.91	-4.24	1.80	N/A	N/A	1.07	11/01/2014
Russell 2000 Val Index			5.39	7.56	-17.71	-10.73	-6.14	-1.39	4.37	4.82	8.71	2.87	
Difference			-1.84	-1.62	-3.95	-7.04	-8.77	-2.85	-2.57	N/A	N/A	-1.80	
Pinnacle Associates US SMID Cap Growth (SA)	117,565,968	4.91	4.02	8.30	3.48	20.31	23.39	10.25	12.04	11.57	14.59	13.62	03/01/2010
Russell 2500 Grth Index			4.50	10.22	12.45	24.33	21.99	15.21	13.09	12.81	15.58	14.49	
Difference			-0.48	-1.92	-8.97	-4.02	1.40	-4.96	-1.05	-1.24	-0.99	-0.87	
International Equity													
Silchester International Value (CF)	241,063,465	10.06	6.14	6.09	-11.14	-3.05	1.24	-1.17	3.89	4.66	7.32	8.20	06/01/2009
MSCI EAFE Val Index (USD) (Net)			5.85	6.06	-14.38	-7.69	-3.24	-3.40	0.79	1.43	3.46	3.87	
Difference			0.29	0.03	3.24	4.64	4.48	2.23	3.10	3.23	3.86	4.33	
Baillie Gifford International Growth (BGEFX)	197,954,236	8.26	7.54	15.48	35.81	54.93	54.89	17.92	18.44	13.58	13.08	13.43	06/01/2009
Baillie Gifford Index			4.08	11.13	8.22	18.59	20.00	8.27	8.66	7.46	8.25	8.58	
Difference			3.46	4.35	27.59	36.34	34.89	9.65	9.78	6.12	4.83	4.85	
Baillie Gifford Spliced Index			4.28	8.93	-3.05	5.96	9.00	3.25	5.28	4.85	6.16	6.50	
Difference			3.26	6.55	38.86	48.97	45.89	14.67	13.16	8.73	6.92	6.93	
Acadian Emerging Markets (CF)	125,937,972	5.26	-0.15	7.42	-5.28	5.93	9.42	-1.86	6.26	3.30	N/A	2.03	02/01/2011
MSCI Emg Mkts Index (USD) (Net)			2.21	11.34	0.45	12.34	14.49	2.83	8.66	4.92	3.76	2.33	
Difference			-2.36	-3.92	-5.73	-6.41	-5.07	-4.69	-2.40	-1.62	N/A	-0.30	

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City of Jacksonville Employees' Retirement System
Asset Allocation & Performance (Net of Fees)

As of August 31, 2020

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Fixed Income													
Richmond Capital Core (SA)	149,056,523	6.22	-0.95	0.75	6.99	7.40	7.03	5.17	4.46	4.30	3.95	5.40	06/01/1999
Richmond Capital Index			-0.81	0.67	6.85	7.04	6.47	5.09	4.33	4.12	3.64	5.10	
Difference			-0.14	0.08	0.14	0.36	0.56	0.08	0.13	0.18	0.31	0.30	
BMO Intermediate Fixed Income (SA)	145,332,975	6.06	-0.08	1.05	5.64	6.49	6.09	4.38	3.91	3.65	3.69	5.05	06/01/1999
ICE BofAML US Corp & Gov't 1-10 Yr Index			-0.08	0.67	5.77	6.22	5.84	4.28	3.55	3.30	3.02	4.55	
Difference			0.00	0.38	-0.13	0.27	0.25	0.10	0.36	0.35	0.67	0.50	
Franklin Templeton Global Multisector Plus (CF)	96,998,303	4.05	-0.80	-0.87	-5.86	-4.35	-3.12	-2.21	0.56	0.53	2.61	5.30	09/01/2007
Frank. Temp. Global Multisector Index			-0.09	3.16	5.77	6.45	5.44	3.87	4.24	2.93	2.79	3.89	
Difference			-0.71	-4.03	-11.63	-10.80	-8.56	-6.08	-3.68	-2.40	-0.18	1.41	
Loomis Sayles Multisector Full Discretion (CF)	78,316,293	3.27	-0.50	2.83	10.33	11.19	10.86	6.78	6.71	6.36	6.95	7.02	10/01/2007
Bloomberg Gbl Agg Bond Index			-0.15	3.03	6.11	6.62	5.54	3.91	4.11	2.83	2.63	3.54	
Difference			-0.35	-0.20	4.22	4.57	5.32	2.87	2.60	3.53	4.32	3.48	
Real Estate													
Harrison Street Core Property, LP	107,491,025	4.49	0.00	0.00	1.65	3.89	5.85	6.93	N/A	N/A	N/A	7.35	11/01/2015
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	-1.01	0.25	1.33	4.72	6.35	8.09	9.78	5.83	
Difference			0.00	0.00	2.66	3.64	4.52	2.21	N/A	N/A	N/A	1.52	
PGIM Real Estate PRISA II LP (CF)	56,780,769	2.37	0.00	0.00	-1.70	0.13	1.55	5.45	7.38	N/A	N/A	7.71	01/01/2015
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	-1.01	0.25	1.33	4.72	6.35	8.09	9.78	6.82	
Difference			0.00	0.00	-0.69	-0.12	0.22	0.73	1.03	N/A	N/A	0.89	
Principal US Property (CF)	122,884,034	5.13	0.24	0.46	-0.57	0.74	1.07	5.34	7.09	N/A	N/A	8.61	01/01/2014
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	-1.01	0.25	1.33	4.72	6.35	8.09	9.78	7.50	
Difference			0.24	0.46	0.44	0.49	-0.26	0.62	0.74	N/A	N/A	1.11	
UBS Trumbull Property (CF)	98,385,594	4.11	0.00	0.00	-2.40	-2.55	-1.87	1.31	3.53	5.45	7.24	4.75	12/01/2005
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	-1.01	0.25	1.33	4.72	6.35	8.09	9.78	5.79	
Difference			0.00	0.00	-1.39	-2.80	-3.20	-3.41	-2.82	-2.64	-2.54	-1.04	
Vanguard RE Idx;ETF (VNQ)	1,031,300	0.04	0.44	4.10	-10.29	-9.80	-8.07	3.05	6.31	7.60	8.83	12.35	12/01/2008
Custom REITs Index			0.48	4.08	-10.30	-9.72	-8.01	3.82	6.82	8.13	9.50	13.20	
Difference			-0.04	0.02	0.01	-0.08	-0.06	-0.77	-0.51	-0.53	-0.67	-0.85	

Market values and performance shown are preliminary and subject to change. Performance shown is net of fees and is annualized for periods greater than one year. Allocations may not sum up to 100% due to the exclusion of managers in liquidation. Please see the addendum for custom benchmark definitions. Fiscal year for the COJ ends 09/30. Performance for Harrison Street Core Property, LP, PGIM Real Estate PRISA II LP (CF), UBS Trumbull Property (CF), NCREIF ODCE Index (AWA) (Net) and NCREIF Timberland Index is available quarterly; interim months assume a 0.00% return.



City of Jacksonville Employees' Retirement System
 Asset Allocation & Performance (Net of Fees)

As of August 31, 2020

	Allocation		Performance (%)										
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Diversifying Assets													
Harvest Fund Advisors MLP (SA)	32,393,660	1.35	1.57	1.09	-31.68	-32.45	-31.75	-12.72	-9.64	-5.60	N/A	0.79	03/01/2011
S&P MLP Index (TR)			0.53	-2.21	-37.08	-39.03	-38.88	-15.07	-11.32	-8.64	-1.27	-3.44	
Difference			1.04	3.30	5.40	6.58	7.13	2.35	1.68	3.04	N/A	4.23	
Tortoise Capital Advisors MLP (SA)	28,844,294	1.20	0.11	-4.16	-37.07	-38.05	-37.04	-16.05	-11.23	-6.82	N/A	-1.18	03/01/2011
Tortoise Spliced Index			2.32	-0.46	-35.96	-37.94	-37.79	-14.57	-11.00	-8.41	-1.10	-3.27	
Difference			-2.21	-3.70	-1.11	-0.11	0.75	-1.48	-0.23	1.59	N/A	2.09	
Hancock Timberland (SA)	47,533,426	1.98	4.29	4.29	6.11	7.56	7.58	5.26	6.03	6.43	6.45	3.73	10/01/2006
NCREIF Timberland Index			0.00	0.00	0.19	0.15	0.34	2.28	2.71	4.74	4.39	5.24	
Difference			4.29	4.29	5.92	7.41	7.24	2.98	3.32	1.69	2.06	-1.51	
Dreyfus Gvt Csh Mgt;Inst (DGCXX)	14,470,668	0.60	0.00	0.01	0.36	0.77	0.94	1.62	1.15	0.85	0.61	1.40	04/01/2001
FTSE 3 Mo T-Bill Index			0.01	0.02	0.55	1.01	1.18	1.68	1.15	0.83	0.60	1.39	
Difference			-0.01	-0.01	-0.19	-0.24	-0.24	-0.06	0.00	0.02	0.01	0.01	

Market values and performance shown are preliminary and subject to change. Performance shown is net of fees and is annualized for periods greater than one year. Allocations may not sum up to 100% due to the exclusion of managers in liquidation. Please see the addendum for custom benchmark definitions. Fiscal year for the COJ ends 09/30. Performance for Harrison Street Core Property, LP, PGIM Real Estate PRISA II LP (CF), UBS Trumbull Property (CF), NCREIF ODCE Index (AWA) (Net) and NCREIF Timberland Index is available quarterly; interim months assume a 0.00% return.



Performance Related Comments:

- Performance is annualized for periods greater than one year.
- Performance and market values shown are preliminary and subject to change.
- The inception date shown indicates the first full month of performance following initial funding.
- The market value shown for the Transition Account includes residual assets from terminated managers.
- RVK began monitoring the assets of the City of Jacksonville Retirement System on 01/01/2019. Prior historical data was provided by the custodian and previous consultant.
- Franklin Templeton Global Multisector Plus (CF) performance prior to 03/2016 is represented by Templeton Global Total Return (SICAV).
- In January 2018, Taplin Canida & Habacht Intermediate Duration (SA) was renamed to BMO Intermediate Fixed Income (SA) as part of a rebranding initiative.

Custom Composite Benchmark Comments:

- **Current Total Fund Policy Index:** The passive Current Total Fund Policy Index is calculated monthly and currently consists of 30% Russell 3000 Index, 20% MSCI ACW Ex US Index (USD) (Net), 20% Fixed Income Index, 15% NCREIF ODCE Index (AWA) (Net), and 15% Diversifying Assets Index. Prior to 11/01/2017, the Current Total Fund Policy Index consists of the Legacy Total Fund Policy Index.
- **Legacy Total Fund Policy Index:** The passive Legacy Total Fund Policy Index is calculated monthly and currently consists of 35% Russell 3000 Index, 20% MSCI ACW Ex US Index (USD) (Net), 19% Fixed Income Index, 15% NCREIF ODCE Index (AWA) (Net), 10% Diversifying Assets Index, and 1% FTSE 3 Mo US T-Bill Index.
- **US Equity Index:** The passive US Equity Index consists of 100% DJ US TSM Index through 06/2009 and 100% Russell 3000 Index thereafter.
- **International Equity Index:** The passive International Equity Index consists of 100% MSCI EAFE Index (USD) (Gross) through 01/2011 and 100% MSCI ACW Ex US Index (USD) (Net) thereafter.
- **Fixed Income Index:** The passive Fixed Income Index consists of 100% Bloomberg US Agg Bond Index through 10/2017 and 100% Bloomberg US Universal Bond Index thereafter.
- **Diversifying Assets Index:** The passive Diversifying Assets Index is calculated monthly and consists of 50% S&P MLP Index (TR)/50% NCREIF Timberland Index through 10/2017 and 67% S&P MLP Index (TR)/33% NCREIF Timberland Index thereafter.

Custom Manager Benchmark Comments:

- **Baillie Gifford Index:** The passive Baillie Gifford Index consists of 100% MSCI EAFE Grth Index (USD) (Net) through 10/2017 and 100% MSCI ACW Ex US Grth Index (USD) (Net) thereafter.
- **Baillie Gifford Spliced Index:** The passive Baillie Gifford Spliced Index consists of 100% MSCI EAFE Index (USD) (Net) through 11/2019 and 100% MSCI ACW Ex US Index (USD) (Net) thereafter.
- **Richmond Capital Index:** The passive Richmond Capital Index consists of 100% ICE BofAML US Domestic Master Index through 06/2011 and 100% Bloomberg US Agg Bond Index thereafter.
- **Frank. Temp. Global Multisector Index:** The passive Frank. Temp. Global Multisector Index consists of 100% ICE BofAML Gbl Hi Yld Index through 12/2009 and 100% Bloomberg Multiverse Index thereafter.
- **Custom REITs Index:** The passive Custom REITs Index consists of 100% MSCI US REIT Index (USD) (Gross) through 01/2019 and 100% Vanguard Spl Real Estate Index thereafter.
- **Vanguard Spliced Real Estate Index:** The Vanguard Spl Real Estate Index consists of MSCI US REIT Index (USD) (Gross) adjusted to include a 2% cash position (Lipper Money Market Average) through 04/30/2009, MSCI US REIT Index (USD) (Gross) through 01/31/2018, MSCI US IM Real Estate 25/50 Transition Index through 07/24/2018, and MSCI US IM Real Estate 25/50 Index (Gross) thereafter.
- **Tortoise Spliced Index:** The passive Tortoise Spliced Index consists of 100% S&P MLP Index (TR) through 07/2020 and 100% Alerian Midstream Energy Index thereafter.

PORTLAND

BOISE

CHICAGO

NEW YORK

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