



# Monthly Investment Performance Analysis

City of Jacksonville Employees' Retirement System

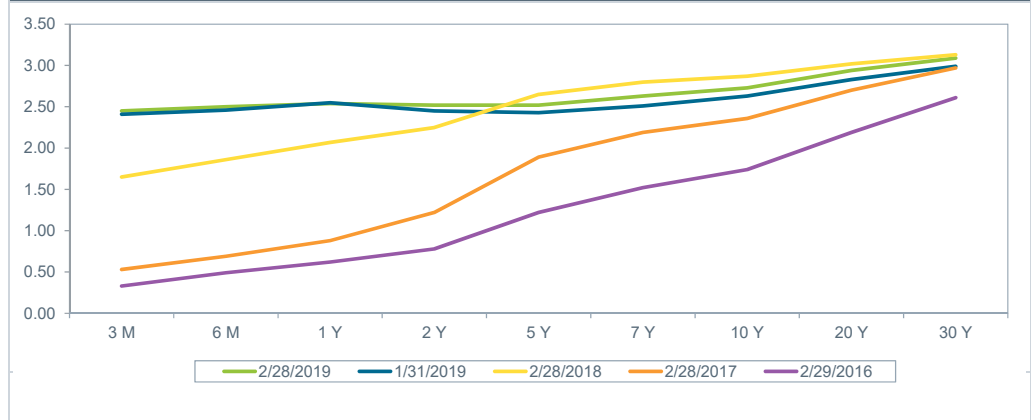
Period Ended: February 28, 2019



**General Market Commentary**

- After rallying in January, global equities continued to run in February, with the MSCI ACW Index up 2.7%. Renewed optimism of the US and China reaching a trade agreement pushed stocks higher.
- US fourth quarter annualized GDP growth came in at 2.6% beating the estimated 2.2% figure and bringing 2018 GDP growth to 2.9%.
- US Treasury yields rose modestly across the curve, as investors' risk appetite increased with strong equity performance in February, and commentary from the Federal Open Market Committee that suggested a more accommodative stance on monetary policy over the near-term.
- The Bloomberg US Aggregate Bond Index returned -0.06% in February, outperforming the -0.08% return by the Bloomberg US Treasury Intermediate Term Index. International fixed income markets returned -1.31%, 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 0.73% in February and 8.53% over the trailing five-year period.
- The Cambridge US Private Equity Index returned 18.01% for the trailing one-year period and 13.40% for the trailing five-year period ending September 2018.
- Absolute return strategies, as measured by the HFRI FOF Comp Index, returned 1.12% for the month and -1.23% over the trailing one-year period.
- Crude oil's price increased by 6.38% during the month, but has decreased by 7.17% YoY.

**Treasury Yield Curve (%)**



Economic Indicators	Feb-19	Jan-19	Feb-18	10 Yr	20 Yr
Federal Funds Rate (%)	2.40	—	2.40	1.35	0.45
Breakeven Inflation - 1 Year (%)	2.91 ▲	-0.86	2.39	0.88	1.05
Breakeven Inflation - 5 Year (%)	1.86 ▲	1.73	2.09	1.72	1.86
Breakeven Inflation - 10 Year (%)	1.94 ▲	1.86	2.12	2.00	2.03
Breakeven Inflation - 30 Year (%)	1.98 ▲	1.94	2.14	2.16	2.26
Bloomberg US Agg Bond Index - Yield (%)	3.21 ▲	3.15	3.15	2.63	3.96
Bloomberg US Agg Bond Index - OAS (%)	0.45 ▼	0.47	0.37	0.57	0.64
Bloomberg US Agg Credit Index - OAS (%)	1.14 ▼	1.21	0.91	1.46	1.47
Bloomberg US Corp: HY Index - OAS (%)	3.79 ▼	4.23	3.36	5.31	5.54
Capacity Utilization (%)	78.23 ▼	78.26	77.21	75.96	77.27
Unemployment Rate (%)	3.8 ▼	4.0	4.1	6.7	5.9
PMI - Manufacturing (%)	54.2 ▼	56.6	60.7	54.0	52.8
Baltic Dry Index - Shipping	658 ▼	668	1,192	1,396	2,312
Consumer Conf (Conf Board)	131.40 ▲	121.70	130.00	84.43	92.84
CPI YoY (Headline) (%)	1.5 ▼	1.6	2.2	1.6	2.2
CPI YoY (Core) (%)	2.1 ▼	2.2	1.8	1.8	2.0
PPI YoY (%)	0.5 ▲	0.3	2.7	1.5	2.3
M2 YoY (%)	4.2 ▼	4.3	4.1	6.1	6.2
US Dollar Total Weighted Index	91.16 ▲	90.53	86.49	81.55	86.29
WTI Crude Oil per Barrel (\$)	57 ▲	54	62	73	60
Gold Spot per Oz (\$)	1,313 ▼	1,321	1,318	1,312	888

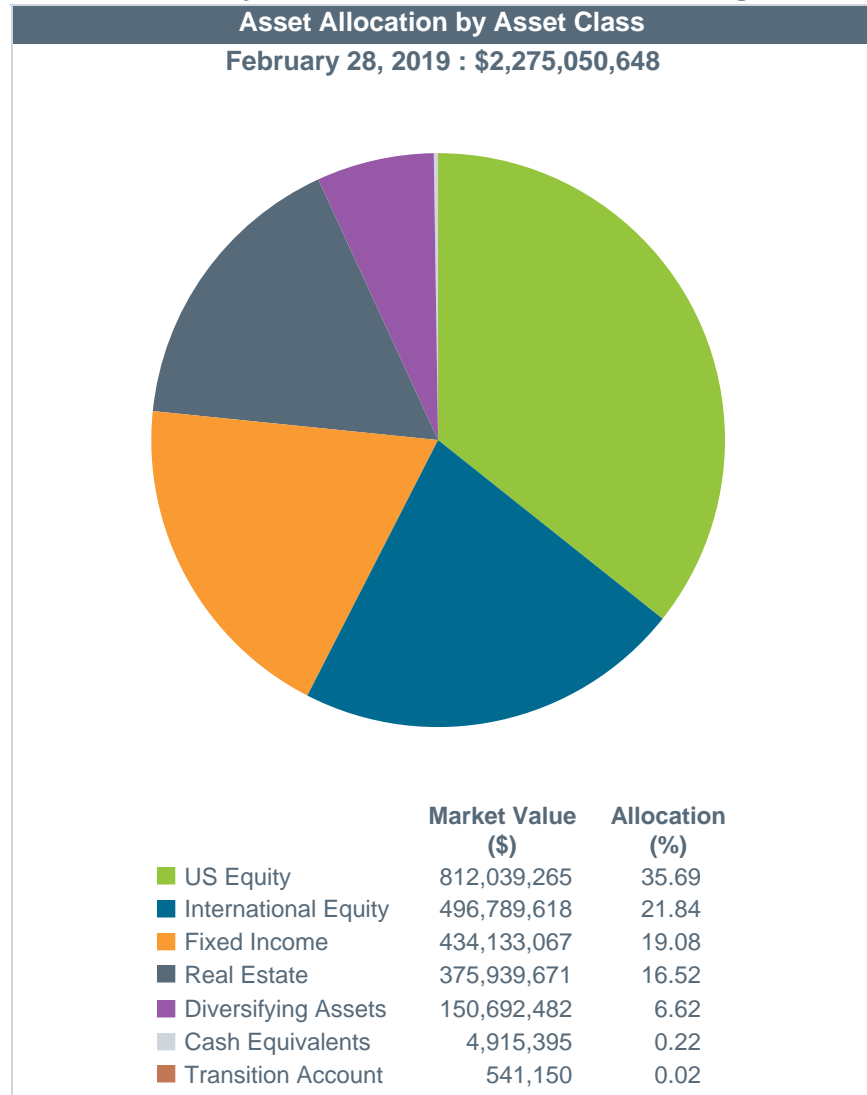
Treasury Yield Curve (%)	Feb-19	Jan-19	Feb-18	Feb-17	Feb-16
3 Month	2.45	2.41	1.65	0.53	0.33
6 Month	2.50	2.46	1.86	0.69	0.49
1 Year	2.54	2.55	2.07	0.88	0.62
2 Year	2.52	2.45	2.25	1.22	0.78
5 Year	2.52	2.43	2.65	1.89	1.22
7 Year	2.63	2.51	2.80	2.19	1.52
10 Year	2.73	2.63	2.87	2.36	1.74
20 Year	2.94	2.83	3.02	2.70	2.19
30 Year	3.09	2.99	3.13	2.97	2.61

Market Performance (%)	MTD	QTD	CYTD	1 Yr	3 Yr	5 Yr	7 Yr	10 Yr
S&P 500 (Cap Wtd)	3.21	11.48	11.48	4.68	15.28	10.67	13.06	16.67
Russell 2000	5.20	17.03	17.03	5.58	16.67	7.36	11.48	16.60
MSCI EAFE (Net)	2.55	9.29	9.29	-6.04	9.32	2.07	5.47	9.56
MSCI EAFE SC (Net)	2.24	10.48	10.48	-10.53	10.24	4.33	8.20	13.45
MSCI EM (Net)	0.22	9.01	9.01	-9.89	15.04	4.13	2.07	10.33
Bloomberg US Agg Bond	-0.06	1.00	1.00	3.17	1.69	2.32	2.12	3.71
ICE BofAML 3 Mo US T-Bill	0.18	0.38	0.38	2.04	1.13	0.70	0.53	0.41
NCREIF ODCE (Gross)	N/A	N/A	N/A	8.35	8.24	10.41	10.99	7.00
FTSE NAREIT Eq REITs Index (TR)	0.73	12.56	12.56	21.40	8.40	8.53	9.52	18.36
HFRI FOF Comp Index	1.12	3.70	3.70	-1.23	3.88	1.89	2.98	3.46
Bloomberg Cmtty Index (TR)	1.01	6.51	6.51	-5.67	3.57	-8.81	-7.68	-2.19

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.

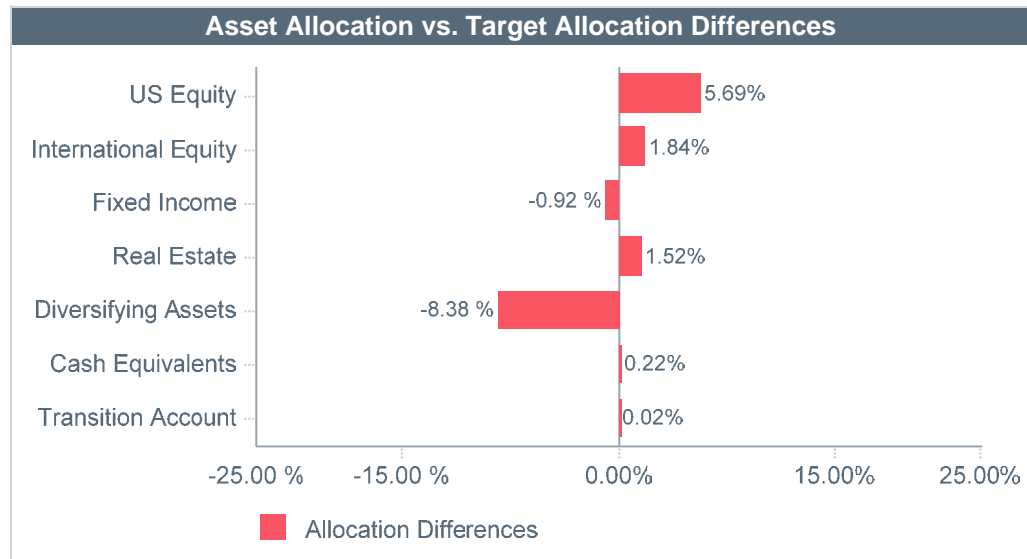


Asset Allocation by Asset Class, Asset Allocation vs. Target, and Schedule of Investable Assets



**Asset Allocation vs. Target Allocation**

	Market Value (\$)	Allocation (%)	Min (%)	Target (%)	Max (%)
Total Fund	2,275,050,648	100.00	-	100.00	-
US Equity	812,039,265	35.69	20.00	30.00	40.00
International Equity	496,789,618	21.84	10.00	20.00	25.00
Fixed Income	434,133,067	19.08	10.00	20.00	30.00
Real Estate	375,939,671	16.52	0.00	15.00	20.00
Diversifying Assets	150,692,482	6.62	0.00	15.00	20.00
Cash Equivalents	4,915,395	0.22	0.00	0.00	10.00
Transition Account	541,150	0.02	0.00	0.00	0.00



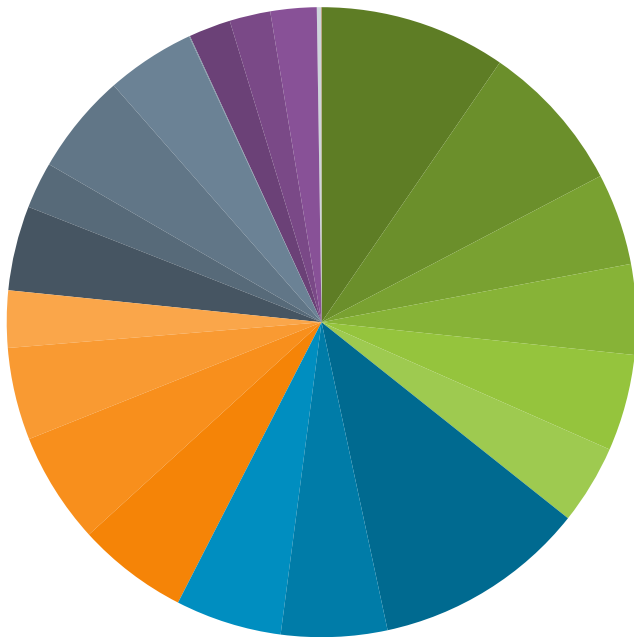
**Schedule of Investable Assets**

Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return	Unit Value
CYTD	2,107,578,103	284,920	167,187,626	2,275,050,648	7.93	107.93

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.



February 28, 2019 : \$2,275,050,648



	Market Value (\$)	Allocation (%)
Eagle Capital Large Cap Value (SA)	217,999,965	9.58
INTECH Enhanced (SA)	176,128,159	7.74
Mellon Large Cap Growth Index (CF)	107,277,197	4.72
Loomis Sayles Large Cap Growth (CF)	105,206,410	4.62
William Blair Small Cap Value (SA)	112,805,888	4.96
Pinnacle Associates US SMID Cap Growth (SA)	92,621,646	4.07
Silchester International Value (CF)	248,846,022	10.94
Bail Giff EAFE;4 (BGEFX)	123,767,966	5.44
Acadian Emerging Markets II (CF)	124,175,630	5.46
Richmond Capital Core (SA)	129,644,030	5.70
Taplin Canida & Habacht Intermediate Duration (SA)	130,157,015	5.72
Franklin Templeton Global Multisector Plus (CF)	107,850,137	4.74
Loomis Sayles Multisector Full Discretion (CF)	66,481,884	2.92
Harrison Street Core Property, LP	98,983,364	4.35
PGIM Real Estate PRISA II (CF)	54,343,540	2.39
Principal US Property (CF)	117,793,534	5.18
UBS Trumbull Property (CF)	103,814,057	4.56
Vanguard RE Idx;ETF (VNQ)	1,005,176	0.04
Harvest Fund Advisors MLP (SA)	48,981,267	2.15
Tortoise Capital Advisors MLP (SA)	47,951,308	2.11
Hancock Timberland (SA)	53,759,907	2.36
Dreyfus Gvt Csh Mgt;Inst (DGCXX)	4,915,395	0.22
Transition Account	541,150	0.02

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

As of February 28, 2019

	Allocation		Performance (%)										
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
<b>Total Fund</b>	<b>2,275,050,648</b>	<b>100.00</b>	<b>1.76</b>	<b>7.93</b>	<b>7.93</b>	<b>-1.68</b>	<b>0.90</b>	<b>10.51</b>	<b>6.20</b>	<b>8.38</b>	<b>11.21</b>	<b>6.19</b>	<b>07/01/1999</b>
Current Total Fund Policy Index			1.53	7.31	7.31	-1.28	3.01	9.73	6.10	7.78	10.70	5.70	
Difference			0.23	0.62	0.62	-0.40	-2.11	0.78	0.10	0.60	0.51	0.49	
Legacy Total Fund Policy Index			1.69	7.45	7.45	-1.28	2.98	9.83	6.16	7.82	10.73	5.71	
Difference			0.07	0.48	0.48	-0.40	-2.08	0.68	0.04	0.56	0.48	0.48	
<b>Total Equity</b>	<b>1,308,828,883</b>	<b>57.53</b>	<b>2.84</b>	<b>12.39</b>	<b>12.39</b>	<b>-3.79</b>	<b>-2.03</b>	<b>14.05</b>	<b>7.40</b>	<b>10.29</b>	<b>14.42</b>	<b>5.91</b>	<b>07/01/1999</b>
<b>US Equity</b>	<b>812,039,265</b>	<b>35.69</b>	<b>3.51</b>	<b>13.75</b>	<b>13.75</b>	<b>-3.84</b>	<b>3.55</b>	<b>14.66</b>	<b>9.03</b>	<b>12.10</b>	<b>16.21</b>	<b>6.28</b>	<b>07/01/1999</b>
US Equity Index			3.52	12.40	12.40	-3.67	5.05	15.53	10.15	12.88	16.80	6.19	
Difference			-0.01	1.35	1.35	-0.17	-1.50	-0.87	-1.12	-0.78	-0.59	0.09	
<b>International Equity</b>	<b>496,789,618</b>	<b>21.84</b>	<b>1.78</b>	<b>10.24</b>	<b>10.24</b>	<b>-3.69</b>	<b>-10.17</b>	<b>13.12</b>	<b>4.49</b>	<b>6.90</b>	<b>10.65</b>	<b>5.77</b>	<b>07/01/1999</b>
International Equity Index			1.95	9.66	9.66	-2.91	-6.46	10.72	2.50	4.43	8.99	3.76	
Difference			-0.17	0.58	0.58	-0.78	-3.71	2.40	1.99	2.47	1.66	2.01	
<b>Fixed Income</b>	<b>434,133,067</b>	<b>19.08</b>	<b>0.46</b>	<b>2.12</b>	<b>2.12</b>	<b>3.20</b>	<b>2.97</b>	<b>3.99</b>	<b>2.41</b>	<b>2.88</b>	<b>5.86</b>	<b>5.30</b>	<b>07/01/1999</b>
Fixed Income Index			0.11	1.49	1.49	2.67	3.19	1.75	2.35	2.14	3.73	4.76	
Difference			0.35	0.63	0.63	0.53	-0.22	2.24	0.06	0.74	2.13	0.54	
<b>Real Estate</b>	<b>375,939,671</b>	<b>16.52</b>	<b>0.28</b>	<b>0.40</b>	<b>0.40</b>	<b>1.85</b>	<b>7.33</b>	<b>7.64</b>	<b>9.32</b>	<b>9.35</b>	<b>6.91</b>	<b>5.85</b>	<b>12/01/2005</b>
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	1.52	7.36	7.27	9.41	9.96	6.01	6.20	
Difference			0.28	0.40	0.40	0.33	-0.03	0.37	-0.09	-0.61	0.90	-0.35	
<b>Diversifying Assets</b>	<b>150,692,482</b>	<b>6.62</b>	<b>0.05</b>	<b>8.88</b>	<b>8.88</b>	<b>-4.74</b>	<b>7.02</b>	<b>8.25</b>	<b>1.03</b>	<b>5.27</b>	<b>N/A</b>	<b>6.91</b>	<b>03/01/2011</b>
Diversifying Assets Index			0.45	9.30	9.30	-3.72	5.36	7.03	0.77	3.73	7.61	4.21	
Difference			-0.40	-0.42	-0.42	-1.02	1.66	1.22	0.26	1.54	N/A	2.70	

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

As of February 28, 2019

	Allocation		Performance (%)										
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
<b>US Equity</b>													
<b>Eagle Capital Large Cap Value (SA)</b>	217,999,965	9.58	1.61	11.83	11.83	-3.49	2.28	16.60	10.52	13.73	17.97	9.99	02/01/2007
Russell 1000 Val Index			3.20	11.23	11.23	-1.81	3.16	12.80	8.09	11.50	15.39	5.89	
Difference			-1.59	0.60	0.60	-1.68	-0.88	3.80	2.43	2.23	2.58	4.10	
<b>INTECH Enhanced (SA)</b>	176,128,159	7.74	3.97	12.85	12.85	-4.42	1.94	13.41	10.00	12.74	16.38	8.86	02/01/2008
INTECH Enhanced Index			3.21	11.48	11.48	-3.59	4.68	15.28	10.67	13.06	16.77	8.92	
Difference			0.76	1.37	1.37	-0.83	-2.74	-1.87	-0.67	-0.32	-0.39	-0.06	
<b>Mellon Large Cap Growth Index (CF)</b>	107,277,197	4.72	3.57	12.88	12.88	-5.07	6.50	N/A	N/A	N/A	N/A	14.28	08/01/2017
Russell 1000 Grth Index			3.58	12.89	12.89	-5.05	6.62	17.99	12.63	14.41	18.19	14.38	
Difference			-0.01	-0.01	-0.01	-0.02	-0.12	N/A	N/A	N/A	N/A	-0.10	
<b>Loomis Sayles Large Cap Growth (CF)</b>	105,206,410	4.62	3.94	12.88	12.88	-0.29	5.91	N/A	N/A	N/A	N/A	13.60	08/01/2017
Russell 1000 Grth Index			3.58	12.89	12.89	-5.05	6.62	17.99	12.63	14.41	18.19	14.38	
Difference			0.36	-0.01	-0.01	4.76	-0.71	N/A	N/A	N/A	N/A	-0.78	
<b>William Blair Small Cap Value (SA)</b>	112,805,888	4.96	4.96	16.84	16.84	-5.70	4.17	12.63	N/A	N/A	N/A	6.43	11/01/2014
Russell 2000 Val Index			3.89	15.25	15.25	-6.27	4.42	14.95	6.48	10.56	15.43	7.17	
Difference			1.07	1.59	1.59	0.57	-0.25	-2.32	N/A	N/A	N/A	-0.74	
<b>Pinnacle Associates US SMID Cap Growth (SA)</b>	92,621,646	4.07	4.90	18.62	18.62	-3.73	3.61	16.34	7.59	11.84	N/A	13.45	03/01/2010
Russell 2500 Grth Index			6.59	19.28	19.28	-4.67	8.69	18.59	9.30	12.88	18.60	14.23	
Difference			-1.70	-0.66	-0.66	0.94	-5.08	-2.25	-1.71	-1.04	N/A	-0.78	
<b>International Equity</b>													
<b>Silchester International Value (CF)</b>	248,846,022	10.94	0.95	7.67	7.67	-4.11	-8.38	10.42	4.46	8.62	N/A	9.88	06/01/2009
MSCI EAFE Val Index (USD) (Net)			1.66	8.47	8.47	-4.22	-7.92	9.38	0.65	4.63	8.92	5.42	
Difference			-0.71	-0.80	-0.80	0.11	-0.46	1.04	3.81	3.99	N/A	4.46	
<b>Bail Giff EAFE;4 (BGEFX)</b>	123,767,966	5.44	5.53	16.73	16.73	-5.64	-9.33	17.05	5.32	8.32	N/A	10.21	06/01/2009
Baillie Gifford Index			2.70	10.51	10.51	-2.97	-5.90	8.83	3.21	6.07	10.03	7.51	
Difference			2.83	6.22	6.22	-2.67	-3.43	8.22	2.11	2.25	N/A	2.70	
<b>Acadian Emerging Markets II (CF)</b>	124,175,630	5.46	-0.13	9.43	9.43	-0.82	-14.80	14.09	3.63	2.32	N/A	2.23	02/01/2011
MSCI Emg Mkts Index (USD) (Net)			0.22	9.01	9.01	0.86	-9.89	15.04	4.13	2.07	10.33	1.66	
Difference			-0.35	0.42	0.42	-1.68	-4.91	-0.95	-0.50	0.25	N/A	0.57	

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As of February 28, 2019

	Allocation		Performance (%)										
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
<b>Fixed Income</b>													
<b>Richmond Capital Core (SA)</b>	<b>129,644,030</b>	<b>5.70</b>	<b>0.06</b>	<b>1.09</b>	<b>1.09</b>	<b>2.72</b>	<b>3.29</b>	<b>1.97</b>	<b>2.56</b>	<b>2.49</b>	<b>4.41</b>	<b>5.08</b>	<b>06/01/1999</b>
Richmond Capital Index			-0.06	1.00	1.00	2.66	3.17	1.69	2.32	2.12	3.63	4.75	
Difference			0.12	0.09	0.09	0.06	0.12	0.28	0.24	0.37	0.78	0.33	
<b>Taplin Canada &amp; Habacht Intermediate Duration (SA)</b>	<b>130,157,015</b>	<b>5.72</b>	<b>0.48</b>	<b>2.03</b>	<b>2.03</b>	<b>2.21</b>	<b>3.12</b>	<b>2.89</b>	<b>2.11</b>	<b>2.47</b>	<b>4.42</b>	<b>4.86</b>	<b>06/01/1999</b>
ICE BofAML US Corp & Gov't 1-10 Yr Index			0.14	0.98	0.98	2.61	3.21	1.49	1.85	1.83	3.23	4.30	
Difference			0.34	1.05	1.05	-0.40	-0.09	1.40	0.26	0.64	1.19	0.56	
<b>Franklin Templeton Global Multisector Plus (CF)</b>	<b>107,850,137</b>	<b>4.74</b>	<b>0.92</b>	<b>3.47</b>	<b>3.47</b>	<b>5.78</b>	<b>2.58</b>	<b>6.31</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>6.31</b>	<b>03/01/2016</b>
Frank. Temp. Global Multisector Index			-0.49	1.18	1.18	2.22	-0.47	2.41	0.95	1.13	7.01	2.41	
Difference			1.41	2.29	2.29	3.56	3.05	3.90	N/A	N/A	N/A	3.90	
<b>Loomis Sayles Multisector Full Discretion (CF)</b>	<b>66,481,884</b>	<b>2.92</b>	<b>0.45</b>	<b>2.13</b>	<b>2.13</b>	<b>1.99</b>	<b>2.69</b>	<b>7.28</b>	<b>3.81</b>	<b>5.35</b>	<b>10.24</b>	<b>6.44</b>	<b>10/01/2007</b>
Bloomberg Gbl Agg Bond Index			-0.58	0.94	0.94	2.15	-0.56	1.97	0.78	0.91	3.16	2.97	
Difference			1.03	1.19	1.19	-0.16	3.25	5.31	3.03	4.44	7.08	3.47	
<b>Real Estate</b>													
<b>Harrison Street Core Property, LP</b>	<b>98,983,364</b>	<b>4.35</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.81</b>	<b>7.06</b>	<b>8.60</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>8.12</b>	<b>11/01/2015</b>
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	1.52	7.36	7.27	9.41	9.96	6.01	7.50	
Difference			0.00	0.00	0.00	0.29	-0.30	1.33	N/A	N/A	N/A	0.62	
<b>PGIM Real Estate PRISA II (CF)</b>	<b>54,343,540</b>	<b>2.39</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.16</b>	<b>8.19</b>	<b>8.00</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>9.47</b>	<b>01/01/2015</b>
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	1.52	7.36	7.27	9.41	9.96	6.01	8.53	
Difference			0.00	0.00	0.00	-0.36	0.83	0.73	N/A	N/A	N/A	0.94	
<b>Principal US Property (CF)</b>	<b>117,793,534</b>	<b>5.18</b>	<b>0.89</b>	<b>1.18</b>	<b>1.18</b>	<b>2.48</b>	<b>8.00</b>	<b>8.51</b>	<b>10.49</b>	<b>N/A</b>	<b>N/A</b>	<b>10.34</b>	<b>01/01/2014</b>
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	1.52	7.36	7.27	9.41	9.96	6.01	9.09	
Difference			0.89	1.18	1.18	0.96	0.64	1.24	1.08	N/A	N/A	1.25	
<b>UBS Trumbull Property (CF)</b>	<b>103,814,057</b>	<b>4.56</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.52</b>	<b>6.09</b>	<b>5.78</b>	<b>7.91</b>	<b>8.26</b>	<b>5.72</b>	<b>5.73</b>	<b>12/01/2005</b>
NCREIF ODCE Index (AWA) (Net)			0.00	0.00	0.00	1.52	7.36	7.27	9.41	9.96	6.01	6.20	
Difference			0.00	0.00	0.00	0.00	-1.27	-1.49	-1.50	-1.70	-0.29	-0.47	
<b>Vanguard RE Idx;ETF (VNQ)</b>	<b>1,005,176</b>	<b>0.04</b>	<b>0.69</b>	<b>12.62</b>	<b>12.62</b>	<b>5.37</b>	<b>19.73</b>	<b>7.62</b>	<b>7.84</b>	<b>8.85</b>	<b>17.34</b>	<b>13.99</b>	<b>12/01/2008</b>
Custom REITs Index			0.72	12.59	12.59	5.03	21.45	8.39	8.42	9.42	18.53	14.96	
Difference			-0.03	0.03	0.03	0.34	-1.72	-0.77	-0.58	-0.57	-1.19	-0.97	

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 (CF) and UBS Trumbull Property (CF) is available quarterly; interim months assume a 0.00% return.



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

As of February 28, 2019

	Allocation		Performance (%)										
	Market Value (\$)	%	MTD	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
<b>Diversifying Assets</b>													
<b>Harvest Fund Advisors MLP (SA)</b>	<b>48,981,267</b>	<b>2.15</b>	<b>0.59</b>	<b>15.83</b>	<b>15.83</b>	<b>-8.07</b>	<b>5.04</b>	<b>9.31</b>	<b>-2.45</b>	<b>3.59</b>	<b>N/A</b>	<b>6.29</b>	<b>03/01/2011</b>
S&P MLP Index (TR)			0.67	13.91	13.91	-6.37	5.49	10.24	-4.28	0.58	10.58	2.11	
Difference			-0.08	1.92	1.92	-1.70	-0.45	-0.93	1.83	3.01	N/A	4.18	
<b>Tortoise Capital Advisors MLP (SA)</b>	<b>47,951,308</b>	<b>2.11</b>	<b>-0.47</b>	<b>13.16</b>	<b>13.16</b>	<b>-5.43</b>	<b>3.25</b>	<b>7.16</b>	<b>-2.86</b>	<b>3.31</b>	<b>N/A</b>	<b>5.07</b>	<b>03/01/2011</b>
S&P MLP Index (TR)			0.67	13.91	13.91	-6.37	5.49	10.24	-4.28	0.58	10.58	2.11	
Difference			-1.14	-0.75	-0.75	0.94	-2.24	-3.08	1.42	2.73	N/A	2.96	
<b>Hancock Timberland (SA)</b>	<b>53,759,907</b>	<b>2.36</b>	<b>0.02</b>	<b>0.03</b>	<b>0.03</b>	<b>-0.81</b>	<b>12.50</b>	<b>9.62</b>	<b>7.64</b>	<b>7.85</b>	<b>4.36</b>	<b>3.84</b>	<b>10/01/2006</b>
NCREIF Timberland Index			0.00	0.00	0.00	0.75	3.21	3.14	4.94	6.00	3.81	5.77	
Difference			0.02	0.03	0.03	-1.56	9.29	6.48	2.70	1.85	0.55	-1.93	
<b>Dreyfus Gvt Csh Mgt;Inst (DGCXX)</b>	<b>4,915,395</b>	<b>0.22</b>	<b>0.18</b>	<b>0.37</b>	<b>0.37</b>	<b>0.87</b>	<b>2.17</b>	<b>1.18</b>	<b>0.76</b>	<b>0.57</b>	<b>0.44</b>	<b>1.40</b>	<b>04/01/2001</b>
FTSE 3 Mo T-Bill Index			0.19	0.39	0.39	0.96	2.04	1.11	0.68	0.51	0.38	1.38	
Difference			-0.01	-0.02	-0.02	-0.09	0.13	0.07	0.08	0.06	0.06	0.02	

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 (CF) and UBS Trumbull Property (CF) 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.

**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. The Current Total Fund Policy Index is representative of the target asset allocation approved 10/26/2017. Prior to 11/1/2017, 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:**

- **INTECH Enhanced Index:** The passive INTECH Enhanced Index consists of 100% Russell 1000 Index through 09/2009 and 100% S&P 500 Index (Cap Wtd) thereafter.
- **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.
- **Richmond Capital Index:** The passive Richmond Capital Index consists of 100% ICE BofAML US Domestic Master through 06/2011 and 100% Bbrg Barc US Aggregate 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 01/31/2019 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.

PORTLAND

CHICAGO

NEW YORK

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