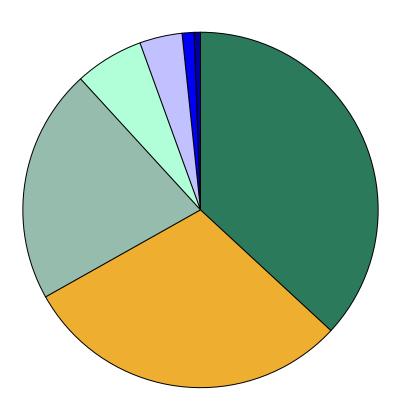
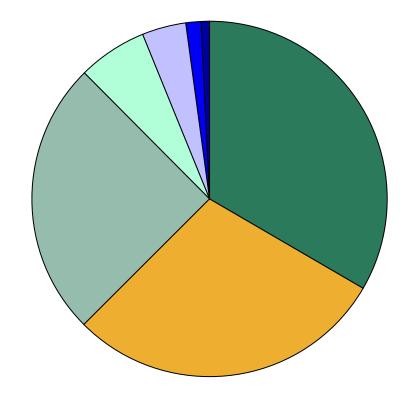
September 30, 2016 : \$2,156,012,991



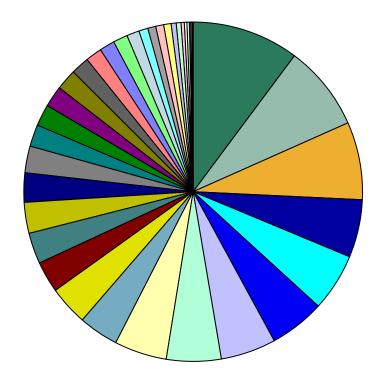




	Market Value	Allocation			
	(\$)	(%)			
■ Fixed Income Composite	795,198,988	36.88			
■ Domestic Equity Composite	646,246,503	29.97			
■ International Equity Composite	460,114,407	21.34			
□ Real Estate Composite	135,034,987	6.26			
■ Hedge Fund Composite	83,495,247	3.87			
Private Equity Composite	23,357,424	1.08			
■ In House Cash	12,565,435	0.58			

	Market Value	Allocation		
	(\$)	(%)		
■ Fixed Income Composite	707,637,059	33.39		
■ Domestic Equity Composite	617,345,164	29.13		
■ International Equity Composite	530,717,346	25.04		
□ Real Estate Composite	133,453,937	6.30		
■ Hedge Fund Composite	84,753,107	4.00		
Private Equity Composite	29,307,424	1.38		
■ In House Cash	16,282,947	0.77		

December 31, 2016 : \$2,119,496,984



	Market Value (\$)	Allocation (%)
■ Brandywine	216,213,090	10.20
☐ Rhumbline S&P 500	172,614,994	8.14
■ Mackay Shields	156,951,408	7.41
■ 1607 Capital Partners	116,907,433	5.52
■ Marathon Asset Mgmt	116,596,216	5.50
■ PIMCO	112,177,616	5.29
☐ Smith Graham	111,762,855	5.27
□ Prudential Core Conserv Bond	110,532,090	5.22
Acadian EM Equity II	106,082,947	5.01
J.P. Morgan Global Emerging Markets Discovery Fund	80,692,741	3.81
□ Principal Global Investors	79,666,440	3.76
■ Barrow, Hanley	63,236,430	2.98
■ Winslow Capital Management	62,515,263	2.95
Herndon Capital Management	62,409,399	2.94
■ NTGI S&P 400	59,170,369	2.79
■ Navellier and Associates Inc.	53,903,597	2.54
■ Capital Prospects LLC	44,329,543	2.09
■ BlackRock Granite Property Fund	43,532,488	2.05
■ Grosvenor Institutional Partners, L.P.	42,831,378	2.02
Aetos	41,921,729	1.98
■ Nicholas Investment Partners	36,934,967	1.74
■ Paradigm Small Cap	33,022,451	1.56
Strategic Global Advisors	30,771,570	1.45
■ SouthernSun	29,208,150	1.38
□ Vanguard REIT Index Inv	25,450,197	1.20
Long Wharf Real Estate Partners IV, L.P.	18,301,579	0.86
■ In House Cash	16,282,947	0.77
■ Pantheon Global Secondary Fund V	16,212,444	0.76
RREEF REIT II	14,894,305	0.70
■ NB Crossroads Fund XXI	10,235,720	0.48
☐ Gerding Edlen Green Cities III, L.P.	9,730,707	0.46
☐ Cornerstone (Barings) Real Estate Advisers Fund X	6,632,008	0.31
Long Wharf RE Partners V, L.P.	5,202,086	0.25
☐ TA Realty Fund XI	4,886,325	0.23
SSM Partners Fund V	2,859,260	0.13
☐ Long Wharf Real Estate Partners	2,799,012	0.13
☐ Cornerstone (Barings) Real Estate Advisers VIII	2,025,231	0.10

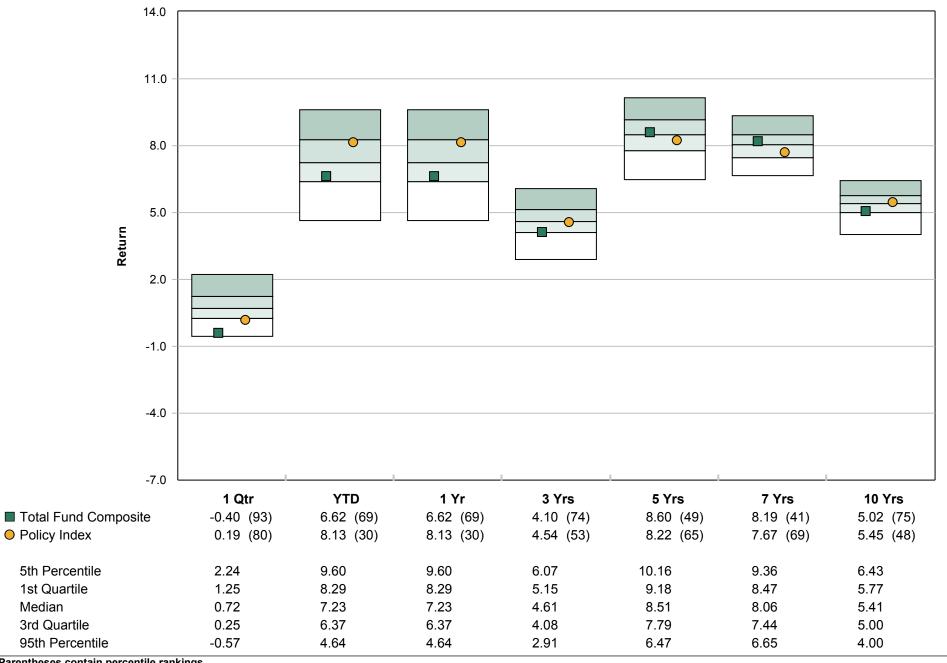
## City of Memphis Asset Allocation Comparison

				T			
Portfolio Value 12/31/16							
\$2,119,496,984							
<b>Target Allocations</b>			<b>Current Managers &amp; Allocations</b>			<b>Difference</b>	Range
Equity	4= 0004	(000)		• • • • • • • • • • • • • • • • • • • •	(000)		100/ 010/
Large Cap Equity	17.00%	\$360,314	Barrow, Hanley (large cap value) Herndon Capital (large cap value)	2.98% 2.94%	\$63,236 \$62,409	2.57%	13%-21%
			Navellier and Assocaites (large cap growth)	2.54%	\$53,904		
			Winslow (large cap growth)	2.95%	\$62,515		
			Rhumbline S&P 500 (large cap core)	8.14%	\$172,615		
Mid/SMID Cap Equity	5.00%	\$105,975	Northern Trust (mid cap core)	2.79%	\$59,170	-0.12%	0%-7%
1 1 2		,	Capital Prospects SMID Cap*	2.09%	\$44,330		
	<b>7</b> 000	4107.077		4.000	4.0.00	0.000	00/ 20/
Small Cap Equity	5.00%	\$105,975	SouthernSun (small cap value) Paradigm (small cap growth)	1.38% 1.56%	\$29,208 \$33,022	-0.32%	0%-7%
			Nicholas (small cap growth)	1.74%	\$36,935		
					_		
<b>Domestic Equity</b>	27.00%	\$572,264	Domestic Equity	29.13%	\$617,345	2.13%	17%37%
Developed International	18.50%	\$392,107	1607 Capital Partners	5.52%	\$116,907	-2.27%	14%-23%
Developed International	10.5070	ψ3,2,107	Principal Global Investors	3.76%	\$79,666	-2.27 /0	14/0-25/0
			Marathon Asset Mgmt	5.50%	\$116,596		
			Strategic Global Advisors	1.45%	\$30,772		
Emerging Markets	8.50%	\$180,157	Acadian	5.01%	\$106,083	-3.49%	5%-12%
			JPMorgan	3.81%	\$80,693		
International	27.00%	\$572,264	International	25.04%	\$530,717	-1.96%	17%-37%
Equity Total	54.00%	\$1,144,528	Equity Total	54.17%	\$1,148,063	0.17%	
TI 17							
<u>Fixed Income</u> Core Fixed Income	12.00%	\$254,340	PIMCO	5.29%	\$112,178	3.78%	7%-17%
Core Pixed Income	12.0070	\$234,340	Prudential Core Conserv Bond	5.22%	\$110,532	3.76 /0	7 /0-17 /0
			Smith Graham	5.27%	\$111,763		
Global Fixed Income	10.00%	\$211,950	Brandywine	10.20%	\$216,213	0.20%	3%-13%
Global Fixed income	10.00%	\$211,930	Brandywnie	10.2070	\$210,213	0.20 /0	3 /0-13 /0
Global High Yield	6.00%	\$127,170	Mackay Shields	7.41%	\$156,951	1.41%	3%-13%
Fixed Income Total	28.00%	\$593,459	Fixed Income Total	33.39%	\$707,637	5.39%	20%-36%
Twee Income Total	20.00 / 0	ψ5,55,45,7	I we income I out	33.3770	Ψ101,031	3.39 /0	20 / 0 - 20 / 0
Real Estate Core/Value Add/REITs	10.00%	\$211.050	Pleal Paul Cuanita Promortu Fund	2.05%	\$43,532		
Cole/ value Add/REITS	10.00%	\$211,950	BlackRock Granite Property Fund RREEF REIT II	0.70%	\$14,894		
			Vanguard REIT Index	1.20%	\$25,450		
			Long Wheef Pool Estate Portners	0.13%	\$2.700 (T	Section of the sectio	621 0M T-4-1 Di-4-il-4-1 620 1M)
			Long Wharf Real Estate Partners  Long Wharf Real Estate Partners IV	0.15%			rawn \$31.9M, Total Distributed \$39.1M) rawn \$20.0M, Total Distributed \$7.9M)
			Long Wharf Real Estate Partners Fund V	0.25%			rawn \$5.5M, Total Distributed \$0.2M)
			Cornerstone (Barings) Real Estate Fund VIII <sup>1</sup>	0.10%	\$2,025 (T	otal Commitment \$10M, Total D	rawn \$11.0M, Total Distributed \$13.0M)
			Cornerstone (Barings) Real Estate Fund X <sup>1</sup>	0.31%			rawn \$6.4M, Total Distributed \$0.5M)
			Gerding Edlen Green Cities III	0.46%			rawn \$13.7M, Total Distributed \$4.1M)
			TA Realty Fund XI	0.23%	\$4,886 (T	otal Commitment \$20M, Total D	rawn \$5.0M, Total Distributed \$0.0M)
Real Estate Total	10.00%	\$211,950	Real Estate Total	6.30%	\$133,454	-3.70%	5%-10%
Private Equity							
Secondary	2.00%		Pantheon Global Secondary Fund V	0.76%			rawn \$13.5M, Total Distributed \$0.0M)
Diversified FoF	2.00%		SSM Partners V* Neuberger Berman Crossroads XXI	0.13% 0.48%			rawn \$2.8, Total Distributed \$0.0M) rawn \$10.5M, Total Distributed \$0.0M)
Diversified For	2.0070		Neuberger Bernian Crossioaus AAI	0.4070	\$10,230 (1)	otai Commitment \$30w, Totai D	tawii \$10.5ivi, 10tai Distributed \$0.0ivi)
Private Equity Total	4.00%	\$84,780		1.38%	\$29,307	-2.62%	2%-6%
Hedge Fund of Funds							
reage rand or rands	4.00%		Aetos	1.98%	\$41,922		
			Grovesnor	2.02%	\$42,831		
Hedge Fund of Funds Total	4.00%	\$84,780		4.00%	\$84,753	0.00%	2%-6%
Internal Account	0.00%	\$0	Internal Account	0.77%	\$16,283		
~ .							
Cash	0.00%	\$0	Cash	0.77%	\$16,283	0.77%	0%-5%
Total	100%	\$2,119,497	Total	100%	\$2,119,497		
		. , . , . ,	*Emerging Managers	<del>-</del>	. , , , ,		

<sup>&</sup>lt;sup>1</sup> Cornerstone Real Estate Advisers now operates under the investment adviser name "Barings Real Estate Advisers," however; all predecessor funds retain the name Cornerstone. All new products open to new investors will operate under the name "Barings Real Estate Advisers" moving forward.

	Performance (%)								
	1 Quarter	Year To Date	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	Inception Date
<b>Total Fund Composite</b>	-0.40	6.62	6.62	4.10	8.60	8.19	5.02	9.48	10/01/1982
Policy Index	0.19	8.13	8.13	4.54	8.22	7.67	5.45	9.97	
In House Cash	0.06	0.35	0.35	0.21	0.19	0.26	1.02	4.34	10/01/1982
90 Day U.S. Treasury Bill	0.07	0.25	0.25	0.11	0.09	0.10	0.77	4.05	
<b>Domestic Equity Composite</b>	3.51	10.04	10.04	5.74	13.26	12.05	6.58	11.75	10/01/1982
Russell 3000 Index	4.21	12.74	12.74	8.43	14.67	12.92	7.07	11.56	
<b>Fixed Income Composite</b>	-2.82	5.14	5.14	3.17	3.53	4.72	4.31	7.68	10/01/1982
Blmbg. Barc. U.S. Aggregate	-2.98	2.65	2.65	3.03	2.23	3.63	4.34	7.54	
<b>International Equity Composite</b>	-2.12	3.30	3.30	0.56	8.12	5.64	2.32	4.76	01/01/1990
MSCI EAFE (Net)	-0.71	1.00	1.00	-1.60	6.53	3.81	0.75	3.99	
Hedge Fund Composite	1.51	N/A	N/A	N/A	N/A	N/A	N/A	6.32	04/01/2016
90-Day T-Bill+ 5%	1.29	5.27	5.27	5.11	5.09	5.10	5.81	3.93	
Real Estate Composite	0.85	7.79	7.79	14.98	13.86	15.23	5.33	10.46	07/01/1996
NCREIF Property Index	1.73	7.97	7.97	11.02	10.92	11.70	6.93	9.82	

	Performance (%)									
	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006
<b>Total Fund Composite</b>	0.25	5.55	17.71	13.75	0.72	14.05	22.23	-28.95	8.34	13.62
Policy Index	-0.19	5.86	15.19	12.79	0.77	12.11	19.76	-22.15	8.69	12.80
In House Cash	0.18	0.11	0.11	0.20	0.54	0.36	0.34	2.85	5.26	4.90
90 Day U.S. Treasury Bill	0.03	0.04	0.05	0.08	0.08	0.13	0.17	2.10	4.91	4.76
<b>Domestic Equity Composite</b>	-1.26	8.80	35.55	16.30	0.65	18.23	28.67	-38.44	7.64	16.84
Russell 3000 Index	0.48	12.56	33.55	16.42	1.03	16.93	28.34	-37.31	5.14	15.72
Fixed Income Composite	-0.23	4.70	0.13	8.15	6.69	8.81	18.96	-12.34	5.92	5.55
Blmbg. Barc. U.S. Aggregate	0.55	5.97	-2.02	4.21	7.84	6.54	5.93	5.24	6.97	4.34
International Equity Composite	-0.50	-1.08	20.79	20.28	-12.77	13.91	36.19	-44.94	14.29	22.04
MSCI EAFE (Net)	-0.81	-4.90	22.78	17.32	-12.14	7.75	31.78	-43.38	11.17	26.34
Hedge Fund Composite	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
90-Day T-Bill+ 5%	5.03	5.04	5.05	5.08	5.09	5.14	5.17	7.20	10.16	10.00
Real Estate Composite	15.74	21.84	10.64	13.79	13.89	23.78	-24.17	-18.10	0.29	27.85
NCREIF Property Index	13.33	11.82	10.98	10.54	14.26	13.11	-16.85	-6.46	15.85	16.60



Parentheses contain percentile rankings.
Calculation based on quarterly periodicity.