

ND PUBLIC EMPLOYEES RETIREMENT SYSTEM
INVESTMENT PERFORMANCE REPORT AS OF MAY 31, 2015

	May-15					April-15					March-15					December-14					September-14					Current Fiscal YTD		Prior Year FY14		3 Years Ended 6/30/2014		5 Years Ended 6/30/2014			
	Allocation		Month			Allocation		Month			Allocation			Quarter			Allocation		Quarter			Allocation		Quarter		Gross (7)	Net	Gross (7)	Net	Gross	Net ROR	Gross	Net ROR		
	Market Value	Actual	Policy	Gross (5)	Net	Market Value	Actual	Policy	Gross (5)	Net	Market Value	Actual	Policy	Gross (5)	Net	Market Value	Actual	Policy	Gross (5)	Net	Market Value	Actual	Policy	Gross (5)	Net									Gross (7)	Net
TOTAL FUND	2,433,149,892	100.0%	100.0%	0.30%	0.29%	2,426,858,029	100.0%	100.0%	1.05%	1.02%	2,401,309,136	100.0%	100.0%	2.38%	2.31%	2,345,979,927	100.0%	100.0%	1.64%	1.57%	2,308,416,720	100.0%	100.0%	-0.98%	-1.11%	4.43%	4.11%	16.75%	16.38%	10.10%	9.74%	13.15%	12.78%		
POLICY TARGET BENCHMARK				0.25%	0.25%				1.26%	1.26%				1.91%	1.91%				1.30%	1.30%				-1.30%	-1.30%	3.43%	3.43%	15.67%	15.67%	9.39%	9.39%	12.35%	12.35%		
ATtribution ANALYSIS																																			
Asset Allocation				-0.03%	-0.03%				-0.01%	-0.01%				-0.08%	-0.08%				-0.06%	-0.06%				-0.09%	-0.09%	-0.28%	-0.28%	0.15%	0.15%	-0.10%	-0.10%				
Manager Selection				0.08%	0.06%				-0.20%	-0.22%				0.58%	0.49%				0.40%	0.33%				0.41%	0.28%	1.28%	0.93%	0.93%	0.58%	0.81%	0.45%				
TOTAL RELATIVE RETURN				0.05%	0.03%				-0.21%	-0.23%				0.48%	0.41%				0.34%	0.27%				0.32%	0.19%	1.00%	0.68%	1.08%	0.71%	0.71%	0.36%				
GLOBAL EQUITIES	1,414,740,469	58.1%	57.0%	0.80%	0.79%	1,396,635,204	57.5%	57.0%	1.51%	1.49%	1,375,790,749	57.3%	57.0%	2.90%	2.84%	1,353,025,545	57.7%	57.0%	1.81%	1.76%	1,323,913,853	57.4%	57.0%	-1.91%	-2.10%	5.15%	4.80%	22.29%	21.86%						
Benchmark				0.42%	0.42%				1.67%	1.67%				52.0%	52.0%				1.37%	1.37%				52.0%	-2.26%	3.49%	3.49%	21.92%	21.92%						
Epoch (1)	168,497,660	6.9%	7.0%	0.52%	0.52%	161,407,822	6.7%	7.0%	1.25%	1.09%	159,542,179	6.6%	7.0%	4.05%	3.88%	153,511,982	6.5%	7.0%	3.72%	3.56%	148,227,869	6.4%	7.0%	0.39%	0.21%	10.27%	9.54%	18.24%	17.41%	12.13%	11.28%	14.50%	13.52%		
LSV	221,047,686	9.1%	9.0%	0.26%	0.26%	219,483,415	9.0%	9.0%	2.91%	2.89%	213,151,148	8.9%	9.0%	2.60%	2.57%	207,717,991	8.9%	9.0%	0.67%	0.85%	205,958,409	8.9%	9.0%	-2.75%	-3.55%	3.85%	3.25%	27.77%	27.33%	N/A	N/A	N/A	N/A	N/A	N/A
Total Global Equities	389,545,347	16.0%	16.0%	0.38%	0.38%	380,891,238	15.7%	16.0%	2.20%	2.12%	372,693,327	15.5%	16.0%	3.22%	3.13%	361,229,973	15.4%	16.0%	2.06%	1.98%	354,186,278	15.3%	16.0%	-1.46%	-2.01%	6.49%	5.64%	23.25%	22.65%	13.00%	12.57%	13.73%	13.73%		
MSCI World				0.34%	0.34%				2.35%	2.35%				2.31%	2.31%				1.01%	1.01%				-2.16%	-2.16%	3.84%	3.84%	24.05%	24.05%						
Domestic - broad	557,312,483	22.9%	21.5%	1.91%	1.88%	546,725,190	22.5%	21.5%	-0.46%	-0.46%	549,024,600	22.9%	21.5%	3.01%	2.97%	558,014,051	23.8%	21.5%	5.61%	5.59%	523,855,774	22.7%	21.5%	-0.53%	-0.61%	9.77%	9.59%	25.22%	24.85%						
Benchmark				1.53%	1.53%				-0.03%	-0.03%				2.21%	2.21%				5.99%	5.99%				-1.18%	-1.18%	8.66%	8.66%	25.02%	25.02%						
Large Cap Domestic																																			
LA Capital	164,437,011	6.8%	6.6%	2.68%	2.63%	160,150,390	6.6%	6.6%	-0.75%	-0.75%	161,271,382	6.7%	6.6%	4.82%	4.76%	168,579,176	7.2%	6.6%	5.05%	4.99%	158,817,247	6.9%	6.6%	1.48%	1.43%	13.88%	13.64%	25.82%	25.56%	16.89%	16.66%	19.48%	19.26%		
Russell 1000 Growth				1.41%	1.41%				0.50%	0.50%				3.84%	3.84%				4.78%	4.78%				1.49%	1.49%	12.54%	12.54%	26.92%	26.92%	16.26%	16.26%	19.24%	19.24%		
LA Capital	107,289,664	4.4%	3.3%	1.96%	1.92%	105,211,157	4.3%	3.3%	-0.49%	-0.49%	105,676,069	4.4%	3.3%	2.13%	2.10%	113,387,496	4.8%	3.3%	5.17%	5.14%	106,669,830	4.6%	3.3%	1.07%	1.03%	10.14%	10.01%	24.42%	24.27%	17.20%	17.01%	19.53%	19.29%		
Russell 1000				1.31%	1.31%				0.71%	0.71%				1.59%	1.59%				4.88%	4.88%				0.65%	0.65%	9.42%	9.42%	25.36%	25.36%	16.63%	16.63%	19.25%	19.25%		
Northern Trust	66,023,664	2.7%	3.3%	0.97%	0.97%	65,356,152	2.7%	3.3%	0.87%	0.87%	64,760,815	2.7%	3.3%	0.54%	0.31%	64,424,723	2.7%	3.3%	4.26%	4.26%	61,119,410	2.6%	3.3%	1.74%	1.61%	8.62%	8.23%	26.83%	25.90%	18.64%	18.09%	20.16%	19.83%		
Clifton	93,544,307	3.8%	3.3%	1.30%	1.30%	92,296,040	3.8%	3.3%	0.83%	0.83%	91,494,209	3.8%	3.3%	1.04%	1.04%	90,363,389	3.9%	3.3%	5.07%	5.07%	85,071,891	3.7%	3.3%	1.20%	1.19%	9.73%	9.72%	24.65%	24.65%	16.96%	16.86%	N/A	N/A	N/A	N/A
S&P 500				1.29%	1.29%				0.96%	0.96%				0.95%	0.95%				4.93%	4.93%				1.13%	1.13%	9.54%	9.54%	24.61%	24.61%	16.58%	16.58%	18.83%	18.83%		
Total Large Cap Domestic	431,294,646	17.7%	16.6%	1.94%	1.91%	423,013,739	17.4%	16.6%	-0.09%	-0.09%	423,202,475	17.6%	16.6%	2.68%	2.62%	436,754,784	18.6%	16.6%	4.97%	4.94%	411,678,378	17.8%	16.6%	1.35%	1.30%	11.25%	11.07%	25.21%	24.98%	16.92%	16.65%	19.95%	19.61%		
Russell 1000 (2)				1.31%	1.31%				0.71%	0.71%				1.59%	1.59%				4.88%	4.88%				0.65%	0.65%	9.42%	9.42%	25.36%	25.36%	16.99%	16.99%	19.08%	19.08%		
Small Cap Domestic																																			
SEI	-	0.0%	0.0%	N/A	N/A	-	0.0%	0.0%	N/A	N/A	-	0.0%	0.0%	N/A	N/A	5,433	0.0%	0.0%	0.00%	0.00%	5,428	0.0%	0.0%	0.00%	0.00%	N/A	N/A	-90.87%	-90.87%	-31.60%	-31.60%	-16.99%	-17.10%		
Callan (5)	62,340,811	2.6%	2.4%	1.30%	1.30%	61,506,384	2.5%	2.4%	-1.30%	-1.30%	62,300,139	2.6%	2.4%	4.24%	4.24%	60,029,091	2.6%	2.4%	6.14%	6.14%	56,509,833	2.4%	2.4%	-6.84%	-6.84%	3.05%	3.05%	25.27%	24.40%	15.73%	14.95%	21.97%	21.23%		
Clifton	63,677,026	2.6%	2.4%	2.31%	2.31%	62,205,067	2.6%	2.4%	-2.10%	-2.10%	63,521,986	2.6%	2.4%	4.21%	4.21%	61,224,743	2.6%	2.4%	9.90%	9.90%	55,662,135	2.4%	2.4%	-7.04%	-7.39%	6.63%	6.23%	24.95%	24.29%	15.88%	15.32%	N/A	N/A	N/A	N/A
Total Small Cap Domestic	126,017,837	5.2%	4.8%	1.80%	1.80%	123,711,451	5.1%	4.8%	-1.71%	-1.71%	125,822,124	5.2%	4.8%	4.22%	4.22%	121,259,266	5.2%	4.8%	8.01%	8.01%	112,177,397	4.9%	4.8%	-6.94%	-7.11%	4.83%	4.63%	25.13%	24.38%	16.74%	16.08%	24.80%	24.08%		
Russell 2000				2.28%	2.28%				-2.55%	-2.55%				4.32%	4.32%				9.73%	9.73%				-7.36%	-7.36%	5.70%	5.70%	23.64%	23.64%	14.57%	14.57%	20.21%	20.21%		
International - broad	374,418,922	15.4%	14.5%	-0.43%	-0.46%	376,240,922	15.5%	14.5%	4.97%	4.97%	358,352,555	14.9%	14.5%	4.18%	4.13%	334,836,827	14.3%	14.5%	3.20%	-3.24%	339,378,508	14.7%	14.5%	-5.43%	-5.48%	-0.32%	-0.49%	23.16%	22.73%						
Benchmark				-1.34%	-1.34%				4.94%	4.94%				4.25%	4.25%				-3.78%	-3.78%				-5.28%	-5.28%	-1.64%	-1.64%	21.37%	21.37%						
Developed International																																			
Capital Group	71,402,241	2.9%	3.3%	0.30%	0.30%	71,213,735	2.9%	3.3%	4.27%	4.27%	68,295,267	2.8%	3.3%	3.86%	3.75%	56,487,992	2.4%	3.3%	-2.11%	-2.22%	51,525,554	2.2%	3.3%	-5.19%	-5.30%	0.82%	0.47%	21.31%	20.79%	9.29%	8.77%	12.47%	11.95%		
MSCI EAFE (3)				-0.51%	-0.51%				4.08%	4.08%				4.88%	4.88%				-3.57%	-3.57%				-5.88%	-5.88%	-1.43%	-1.43%	23.57%	23.57%	8.10%	8.10%	11.11%	11.11%		
NTGI	128,952,836	0.0%	5.5%	-0.80%	-0.80%	130,033,840	0.0%	5.5%	4.40%	4.40%	124,548,181	0.0%	5.5%	3.96%	3.94%	119,684,011	0.0%	5.5%	-3.69%	-3.69%	123,997,475	0.0%	5.5%	-5.70%	-5.71%	-2.22%	-2.24%	N/A	N/A	N/A	N/A	N/A	N/A		
MSCI World Ex US				-0.87%	-0.87%				4.33%	4.33%				3.83%	3.83%				-3.69%	-3.69%				-5.74%	-5.74%	-2.51%	-2.51%								
DFA (5)	40,798,85																																		

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	May-15					April-15					March-15					December-14					September-14					Current Fiscal YTD		Prior Year FY14		3 Years Ended 6/30/2014		5 Years Ended 6/30/2014		
	Allocation			Month		Allocation			Month		Allocation			Quarter		Allocation			Quarter		Allocation			Quarter		Gross (7)	Net	Gross (7)	Net	Gross	Net ROR	Gross	Net ROR	
	Market Value	Actual	Policy	Gross (5)	Net	Market Value	Actual	Policy	Gross (5)	Net	Market Value	Actual	Policy	Gross (5)	Net	Market Value	Actual	Policy	Gross (5)	Net	Market Value	Actual	Policy	Gross (5)	Net									
GLOBAL REAL ASSETS	421,315,289	17.3%	20.0%	-0.34%	-0.38%	425,509,953	17.5%	20.0%	0.36%	0.36%	419,350,121	17.5%	20.0%	2.45%	2.32%	414,752,181	17.7%	20.0%	2.03%	1.89%	412,627,583	17.9%	20.0%	1.64%	1.58%	6.26%	5.89%	11.40%	10.99%					
Benchmark				0.88%	0.88%				0.91%	0.91%				2.34%	2.34%				2.55%	2.55%				1.62%	1.62%	8.58%	8.58%	8.55%	8.55%					
Global Real Estate																																		
INVESCO - Core	88,022,528			0.00%	0.00%	88,022,528			0.00%	0.00%	88,022,528			3.28%	3.19%	85,304,432			3.49%	3.40%	82,495,531			3.45%	3.35%	10.57%	10.27%	10.91%	10.48%	11.07%	10.61%	9.65%	9.17%	
INVESCO - Fund II (5)	8,838,489			0.00%	0.00%	8,838,489			-1.32%	-1.32%	8,956,825			-0.38%	-0.38%	11,534,864			4.93%	4.93%	10,992,806			0.00%	0.00%	3.16%	3.16%	14.49%	14.49%	22.06%	22.06%	5.16%	5.16%	
INVESCO - Fund III (5)	16,843,957			0.00%	0.00%	16,843,957			2.30%	2.30%	16,466,058			4.67%	4.67%	19,968,945			8.76%	8.76%	18,360,357			0.00%	0.00%	16.45%	16.45%	18.28%	18.28%	N/A	N/A	N/A	N/A	
INVESCO - Fund IV (6)	4,450,772			0.00%	0.00%	7,097,178			0.00%	0.00%	-			N/A	N/A	-			N/A	N/A	-			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
INVESCO - Asia Real Estate Fund (5)	10,983,749			-0.39%	-0.39%	11,026,462			0.00%	0.00%	11,026,462			12.12%	12.12%	13,364,893			-4.61%	-4.61%	14,928,500			-0.69%	-0.69%	5.80%	5.80%	15.25%	15.25%	3.22%	3.22%	N/A	N/A	
J.P. Morgan Strategic & Special Funds	82,591,110			1.16%	1.16%	81,646,729			1.10%	1.10%	80,758,328			4.07%	3.59%	77,779,586			2.98%	2.50%	75,883,158			2.66%	2.66%	12.52%	11.47%	15.10%	14.04%	14.35%	13.35%	10.95%	9.95%	
J.P. Morgan Alternative Property Fund	183,225			2.73%	2.73%	178,358			0.00%	0.00%	178,358			-27.28%	-27.28%	333,452			-8.94%	-8.94%	1,765,594			0.00%	0.00%	-31.98%	-31.98%	4.18%	4.18%	15.31%	15.17%	5.54%	5.04%	
J.P. Morgan Greater Europe Fund (5)	11,524,302			-2.16%	-2.16%	11,890,857			14.26%	14.26%	11,542,028			-1.15%	-1.15%	13,004,126			16.58%	16.58%	11,158,031			-8.45%	-8.45%	6.01%	6.01%	66.58%	66.58%	-104.03%	-104.03%	N/A	N/A	
J.P. Morgan Greater China Property Fund (5)	4,805,691			3.44%	3.44%	4,645,709			0.00%	0.00%	4,645,709			5.78%	5.78%	4,727,377			2.15%	2.15%	5,179,462			0.24%	0.24%	12.05%	12.05%	70.53%	70.53%	15.98%	15.98%	12.62%	12.62%	
Total Global Real Estate	228,343,824	9.4%	10.0%	0.35%	0.35%	230,180,267	9.5%	10.0%	1.20%	1.20%	221,596,296	9.2%	10.0%	3.24%	3.04%	226,017,674	9.6%	10.0%	3.89%	3.70%	220,763,438	9.6%	10.0%	1.67%	1.63%	10.74%	10.27%	16.77%	16.24%	13.57%	13.06%	9.90%	9.33%	
NCREIF TOTAL INDEX				1.18%	1.18%				1.18%	1.18%				3.57%	3.57%				3.04%	3.04%				2.63%	2.63%	12.13%	12.13%	11.21%	11.21%	11.32%	11.32%	9.67%	9.67%	
Timber																																		
TIR - Teredo	30,434,398	1.3%		0.28%	0.28%	30,348,687	1.3%		0.00%	0.00%	30,348,687	1.3%		12.93%	12.93%	36,304,603	1.5%		0.93%	0.93%	37,233,734	1.6%		0.00%	0.00%	14.30%	14.30%	6.64%	6.64%	3.09%	3.09%	5.33%	5.33%	
TIR - Springbank	58,882,182	2.4%		0.00%	0.00%	58,882,182	2.4%		-0.01%	-0.01%	58,897,673	2.5%		-1.92%	-1.92%	60,332,790	2.6%		-0.03%	-0.03%	60,362,029	2.6%		0.02%	0.02%	-1.92%	-1.92%	0.22%	0.22%	-2.60%	-2.60%	-5.35%	-5.35%	
Total Timber (5)	89,316,580	3.7%	5.0%	0.10%	0.10%	89,230,869	3.7%	5.0%	0.00%	0.00%	89,246,361	3.7%	5.0%	3.15%	3.15%	96,637,393	4.1%	5.0%	0.33%	0.33%	97,595,763	4.2%	5.0%	0.01%	0.01%	3.80%	3.68%	2.62%	2.62%	6.73%	6.73%	3.33%	3.33%	
NCREIF Timberland Index				0.58%	0.58%				0.58%	0.58%				1.75%	1.75%				6.02%	6.02%				1.47%	1.47%	10.73%	10.73%	9.94%	9.94%	6.73%	6.73%	3.33%	3.33%	
Infrastructure																																		
JP Morgan (Asian) (5)	17,616,519	0.7%		1.05%	1.05%	17,433,971	0.7%		-0.95%	-0.95%	16,536,510	0.7%		-1.13%	-1.13%	16,665,258	0.7%		-0.44%	-0.44%	16,413,371	0.7%		0.07%	0.07%	-1.41%	-1.41%	3.71%	3.71%	7.17%	7.17%	4.83%	4.73%	
JP Morgan (IIF)	65,982,555	2.7%		-3.64%	-3.85%	68,623,432	2.8%		-1.51%	-1.51%	69,675,234	2.9%		-0.74%	-0.88%	54,609,322	2.3%		-1.87%	-2.09%	55,799,352	2.4%		5.74%	5.49%	-2.25%	-3.05%	9.82%	8.81%	8.29%	7.16%	7.59%	6.29%	
Grosvenor (formerly Credit Suisse) (5)	19,657,460	0.8%		-0.17%	-0.17%	19,643,064	0.8%		-0.01%	-0.01%	21,897,369	0.9%		2.42%	2.42%	20,822,534	0.9%		2.81%	2.81%	22,055,659	1.0%		-0.14%	-0.14%	4.96%	4.96%	12.90%	12.90%	N/A	N/A	N/A	N/A	
Grosvenor CIS II (6)	398,350	0.0%		0.00%	0.00%	398,350	0.0%		0.00%	0.00%	398,350	0.0%		N/A	N/A	-	0.0%		N/A	N/A	-	0.0%		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Infrastructure	103,654,885	4.3%	5.0%	-2.21%	-2.35%	106,098,818	4.4%	5.0%	-1.12%	-1.12%	108,507,464	4.5%	5.0%	-0.07%	-0.17%	92,097,114	3.9%	5.0%	-0.59%	-0.73%	94,268,382	4.1%	5.0%	3.33%	3.19%	-0.74%	-1.25%	9.50%	8.83%					
CPI				0.60%	0.60%				0.71%	0.71%				0.50%	0.50%				-1.82%	-1.82%				-0.23%	-0.23%	-0.26%	-0.26%	2.05%	2.05%					
Cash Equivalents																																		
Northern Trust STIF	31,225,592			0.01%	0.01%	39,160,057			0.01%	0.01%	44,631,702			0.02%	0.02%	26,969,388			0.02%	0.02%	22,646,710			0.01%	0.01%	0.05%	0.05%	0.04%	0.04%	0.09%	0.09%	0.11%	0.11%	
Total Cash Equivalents	31,225,592	1.3%	1.0%	0.01%	0.01%	39,160,057	1.6%	1.0%	0.01%	0.01%	44,631,702	1.9%	1.0%	0.02%	0.02%	26,969,388	1.1%	1.0%	0.02%	0.02%	22,646,710	1.0%	1.0%	0.01%	0.01%	0.05%	0.05%	0.04%	0.04%	0.09%	0.09%	0.14%	0.14%	
90 Day T-Bill				0.00%	0.00%				0.01%	0.01%	0.02%	0.02%	0.06%	0.06%	0.07%	0.07%	0.11%	0.11%																

NOTE: Monthly returns and market values are preliminary and subject to change.

New asset class structure began October 1, 2011. Composite returns for new composites not available prior to that date.

Portfolios moved between asset classes will show historical returns in new position.

(1) Epoch was included in the Large Cap Domestic Equity composite through 12/31/11.

(2) Prior to January 1, 2012, the benchmark was S&P 500.

(3) This benchmark was changed to the MSCI EAFE (unhedged) as of April 1, 2011.

(4) Prior to December 1, 2009, the benchmark was the Citigroup World Gov't Bond Index ex-US

(5) All limited partnership-type (and mutual funds as of 7/1/14) investment returns will only be reported net of fees, which is standard practice by the investment consultant.