



New York City Board of Education Retirement System Performance Overview as of March 31, 2016

Total Fund Overview



New York City Board of Education Retirement System

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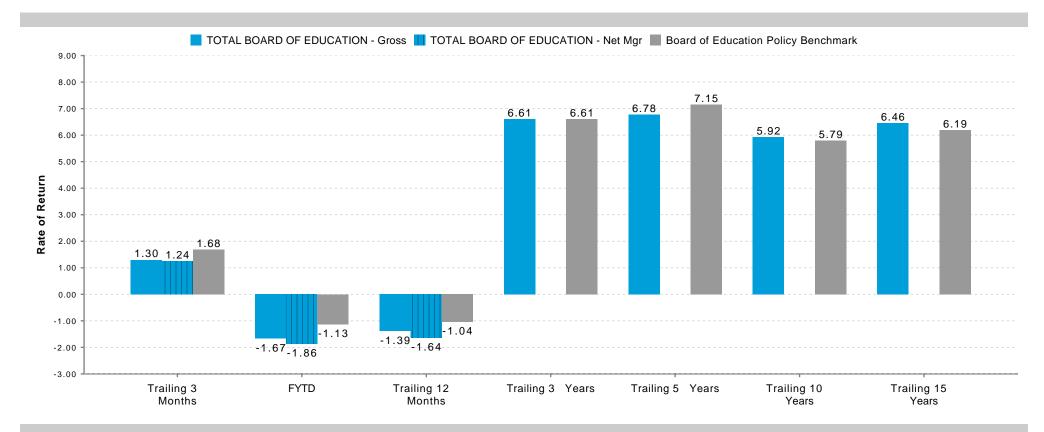
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Market Value (Billions)

TOTAL BOARD OF EDUCATION

\$4.4



	Plan 3 Years	Benchmark 3 Years	Plan 5 Years	Benchmark 5 Years	Plan 10 Years	Benchmark 10 Years
Standard Deviation						
TOTAL BOARD OF EDUCATION	8.1	7.7	6.8	8.9	11.4	11.8

Through March 31, 2016



New York City Board of Education Retirement System (BERS)

Consultant's Commentary - Through March 31, 2016

Total Fund Performance

The Board of Education Retirement System (BERS) Total Fund returned +1.24% net of fees for the quarter ended March 31, 2016 versus the policy benchmark's return of +1.68%. For the fiscal year as of March 31, 2016, the Total Fund returned -1.86% net versus the benchmark return of -1.13%. BERS diversification into Real Estate and Private Equity provided real added value in the quarter versus the active and passive equity managers. The private equity (PE) portfolio was a drag on performance relative to its benchmark (the Russell 3000 plus 3% lagged) in the quarter but still has significant outperformance over longer periods. PE is reported on a lag so the short term numbers are not useful for monitoring. The core fixed income and the Progress and FIS emerging manager programs are also attributable for under performance relative to the benchmark. On a relative basis, our active equity managers underperformed in the weak markets of January and February and added back some value in March when equity rallied.

Total Fund Asset Allocation

As of March 31, 2016, the BERS Total Fund had \$4.38 billion, up from \$4.30 billion at December 2015. Compared to policy parameters, the asset mix was within the rebalancing ranges. Underweight in private equity has hurt total return since the assets that have not been called are held in passive U.S. equity which has underperformed the invested PE.

Active U.S. Equity Commentary

As of March 31, 2016, US Equity was \$1.65 billion (37.7%) of the NYBERS Total Fund. The US equity composite was positive in the first quarter returning +.73%. This performance lagged the R3000 index return of +.97% primarily attributable to the mid and small cap bias in our active management structure. From a style perspective, value did better than core or growth and active core and growth managers underperformed.



Through March 31, 2016



Active US Equity Managers

- *Wellington* returned +0.24% in the quarter versus +3.78% for S&P Midcap 400 index. For the fiscal year as of March 31, 2016, Wellington returned -3.50% versus -2.56% for the S&P Midcap 400 index.
- The primary drag on performance in the quarter was stock selection in the health care sector.
- Three biotech stocks; Alkermes, Agios and Alnylam detracted from performance during the first quarter. TripAdvisor and M&T Bank, a strong regional bank, were also among the largest detractors.
- The top contributor during the quarter, which was also one of the portfolio's top contributors last year, was Vantiv, a merchant acquirer.

International Equity Commentary

As of March 31, 2016, Developed International Equity was \$719.2 million (16.4%) of the NYBERS Total Fund. Non-U.S. stocks returned -1.54% in the first quarter versus -2.68% for the MSCI EAFE. In the U.S., value styles outperformed growth styles and the portfolio was slightly overweight to value. Non U.S. Small-Cap was the best attribution of added performance, albeit by losing less than the benchmark.

Active International Equity Managers

• *Sprucegrove* returned +.27% in the quarter versus -3.97% for the MSCI EAFE Value, net index. For the fiscal year as of March 31, 2016, Sprucegrove returned -10.42% versus -13.0% for the MSCI EAFE Value, net Index. Sprucegrove, a value style international manager, had underperformed for several quarters but had strong relative performance in the quarter. Value investing has been out of favor, in both the non-U.S. and U.S., and the additional headwind of the strong currency made Sprucegrove's style perform particularly poorly. The total average portfolio valuations look as cheap as they have since the firm's inception. The current normalized PE is 11.4x versus 13.7x for the EAFE and an average of 14.2x as the long term portfolio average. ROE is at 15% versus 11% for the EAFE. Their finance holdings are in the strong regional banks that have been discounted along with the larger problematic financials. These have begun to recover. The energy holdings are in the E&P group which has not yet recovered, although they have stabilized as oil prices have stabilized. Sprucegrove feels the market cycle has turned in their favor. The manager has added on weakness in the banks and energy holdings.



Through March 31, 2016



- The Energy and Material sectors experienced a market turnaround in performance during the first quarter.
- Emerging Markets experienced its biggest quarterly outperformance versus Developed Markets since the second quarter of 2009.
- During the first quarter, there was one new holding added to the Fund: Copa Holdings (Panama/Industrials). There were two eliminations: Kingspan (Ireland/Industrials) and Straumann (Switzerland/Health Care).
- The top 10 holdings represent +25.0% of the portfolio.
- *Baillie Gifford* returned -3.88% in the quarter versus -2.07% for the MSCI EAFE Growth, net index. For the fiscal year as of March 31, 2016, Baillie Gifford returned -13.11% versus -4.66% for the MSCI EAFE Growth, net Index.
- Inditex, an international clothing retailer, was the portfolio's largest holding at +5.6%.
- At quarter end, the portfolio had +14.9% invested in emerging markets.
- The top 10 holdings represent +36.5% of the portfolio.
- Acadian outperformed for the quarter, +.65% versus -.41% for the S&P EPAC Small Cap Index. Acadian also outperformed for the fiscal year as of March 31, 2016, +.19% versus -1.86% for the S&P EPAC Small Cap Index.
- Gains realized from stock selection were joined with value added from country allocations. Key sources of positive active return included a combination of stock selection and an underweight position in the U.K., as well as opportunistic exposures to Canada and Taiwan. Less successful investments include a combination of stock selection and an underweight position in France, as well as stock selection in France and Sweden.
- At quarter end, the portfolio's emerging markets exposure was 11%. The portfolio held 869 stocks.



Through March 31, 2016



Emerging Markets Equity Commentary

As of March 31, 2016, Emerging Markets Equity was \$225.3 million (5.1%) of the NYBERS Total Fund. Emerging Markets underperformed for the quarter, +4.02% versus +5.71% for the MSCI Emerging Markets, net Index. Emerging Markets also underperformed for the fiscal year as of March 31, 2016, -14.54% versus -12.63% for the MSCI Emerging Markets, net Index. BERS has one active manager in Emerging Markets, Acadian, and their returns underperformed the index.

Emerging Markets Equity Managers

- Acadian underperformed for the quarter, +4.02% versus +5.71% for the MSCI Emerging Markets, net Index. Acadian also underperformed for the fiscal year as of March 31, 2016, -14.54% versus -12.63% for the MSCI Emerging Markets, net Index.
- Losses incurred from stock selection were reduced by value added from country allocations. Key sources of negative active return included a combination of stock selection and an overweight position in India, stock selection in Brazil, and an underweight position in Russia. More successful investments included a combination of stock selection and an underweight position in China, stock selection in South Africa, and an overweight position in Turkey.
- The quantitatively managed portfolio held 398 stocks as of quarter end, compared to 835 for the benchmark. While not specifically a value equity style portfolio, it exhibited many such characteristics including lower valuation metrics versus benchmark (P/E of 9.4x versus 13.5x).
- The market capitalization was also tilted smaller compared to the benchmark with a weighted average of \$37.4 billion compared to \$46.9 billion for the benchmark.



Through March 31, 2016



Fixed Income - Structured Manager Composite Commentary

As of March 31, 2016, The Total Structured Portfolio was \$667.4 million (15.2%) of the NYBERS Total Fund. Structured Fixed Income returned +3.33% in the first quarter vs. +3.53% for the benchmark. The generally lower rate environment and the tightening of spreads over treasuries has been attributable for manager underperformance because portfolios had a bias to the opposite happening in terms of yield curve and security selection.

Fixed Income - Structured Manager Composite Managers

- *BlackRock (mortgages)* returned +2.03% in the quarter, in line with the Citigroup Mortgage index return of +1.97%. For the fiscal year as of March 31, 2016, BlackRock (mortgages) returned +3.09% versus +3.18% for the Citigroup Mortgage index.
- Performance began to wane as a reaction to the FOMC statement with the basis slowly widening, which market participants attributed to a pickup in origination, or supply. Additionally, bank and overseas demand for mortgages has slowed given the lower yields along with quarter end and fiscal year end pressures.
- *Prudential (credit)* returned +4.0% in the quarter, in line with the Investment Grade Credit index return of +3.85%. For the fiscal year as of March 31, 2016, Prudential (credit) returned +4.25% versus +3.72% for the Investment Grade Credit index.
- **PRIVEST (credit)** returned +1.86% in the quarter versus +3.85% for the Investment Grade Credit index. For the fiscal year as of March 31, 2016, PRIVEST (credit) returned +2.71% versus +3.72% for the Investment Grade Credit index.
- PRIVEST's underperformance was primarily due to significant spread widening in the private market relative to public spreads. Market value declines in a few Energy holdings impacted performance by about 30 bps.
- Quarterly credit migration included three issuer upgrades (\$97.49 million market value) and nine issuer downgrades (\$163.73 million market value).
- PRIVEST committed to purchase \$194.7 million of private placements during the first quarter at a weighted average spread, coupon, credit quality and average life of 224 basis points, 3.98%, BBB, and 8.77 years, respectively.



Through March 31, 2016



- SSgA (governments) returned +5.50% in the quarter, in line with the +5.55% return for its NYC Treasury Agency plus five index benchmark. For the fiscal year as of March 31, 2016, SSgA (governments) returned +7.63% versus +7.72% for the NYC Treasury Agency plus five index.
- Positive factors to performance this quarter was overweight to US Agency debt versus Treasuries while 5/30yr and 10/30yr curve flattening positions detracted from performance.
- *Taplin, Canida & Habacht* returned +3.68% in the quarter versus +3.85% for the Investment Grade Credit index. For the fiscal year as of March 31, 2016, Taplin, Canida & Habacht returned +1.55% versus +3.72% for the Investment Grade Credit index.
- Despite significant volatility in both interest rates and spreads during the first quarter, corporate spreads ended tighter for quarter contributing to performance. Overweight position in lower quality investment grade added to performance. For the quarter, BBB rated securities outperformed AAA, AA and A rated securities by 44, 35 and 33 basis points of excess return, respectively.
- By sector, the overweight to industrials enhanced returns as that was the top performing credit sector, adding 70 basis points of excess returns. However, allocations to financials detracted from performance as the typically defensive sector underperformed early in the quarter on concerns of negative rates in Europe and the impact to the banking business. That sector underperformed duration-matched Treasuries by 92 basis points of excess return for the quarter.
- .• Term-structure positioning and credit curve positioning had modestly negative impacts on relative performance of the portfolio, but contributed to strong absolute returns as the yield on U.S. 10-year U.S. Treasury declined to 1.77% from 2.27% at the end of December.

Enhanced Yield Fixed Income & Bank Loans Commentary

As of March 31, 2016, Enhanced Yield Fixed Income & Bank Loans was \$329.7 million (7.6%) of the NYBERS Total Fund.

Enhanced Yield Fixed Income & Bank Loans Managers

- Loomis Sayles returned +2.53% in the quarter versus +3.25% for the Merrill Lynch High Yield Master II Index. For the fiscal period as of March 31, 2016, Loomis Sayles returned -7.61% versus -3.94% for the Merrill Lynch High Yield Master II Index.
- In general, investment grade financial securities detracted from excess return during the quarter.

* Segal Rogerscasey

Through March 31, 2016



- On average, exposure to non-US dollar denominated holdings bolstered relative performance. Security selection denominated in the Colombian peso and Brazilian real drove this performance as general US dollar weakness was witnessed across the board. The indictment of corrupt business leaders coupled with an improving political outlook boosted Brazilian performance.
- Generally, below investment grade industrial securities were hit hard in the first 6 weeks of the quarter. Signs of global distress caused a high yield sell off through mid-February. Security selection was the main driver behind this relative underperformance. Energy and metals and mining names significantly outperformed in March, but these gains were overshadowed by losses earlier in the quarter. On average, below investment grade holdings in the financial sector dragged on excess performance in the portfolio as well.
- Exposure to convertibles diminished relative performance this quarter. Sector allocation was the main driver behind this relative underperformance as falling energy stocks weighed on the period's returns.
- Shenkman returned +2.65% in the quarter, underperforming the +3.04% return for its Citigroup BB&B index benchmark. For the fiscal year as of March 31, 2016, Shenkman returned -2.86% versus -3.94% for the Citigroup BB&B index.
- The performance late in the quarter was heavily driven by the commodity companies that had underperformed earlier in the quarter. Fallen angels, which entered the market at the end of February, many near their lows in price, also significantly impacted performance and rallied with the global commodity space in March.
- The Oil & Gas segment within the Index had a return for the quarter of +1.08%. This has historically been a volatile sector and the portfolio is underweighted relative to the Index (+4% versus +7% at the end of the quarter). This underweighting hurt the portfolio's performance relative to the Index.
- An underweight in Steel and Metals and Mining credits also hurt relative performance as these sectors participated in the widespread commodity rally at the end of the quarter. On the positive side, underweighting in the portfolio in the Financial sector and an overweighting and positive selection in the Healthcare and Utilities Electric segments both helped the portfolio's relative performance in the quarter.
- **Babson** returned +.48% during the quarter, underperforming the +1.33% return of the Credit Suisse Leveraged Loan Index. For the fiscal year as of March 31, 2016, Babson returned -2.55%, underperforming the -1.88% return of the Credit Suisse Leveraged Loan Index.
- The months of January and February were, on a comparative basis, the most difficult as credit selection, especially in Energy and Energy related names, was the primary contributor to the unfavorable results.



Through March 31, 2016



- Performance in March was good as credit selection returned as a very favorable contributor. Allocation, in the form of cash (average weight of +3.80%), however, offset a portion of the favorable credit selection during that period as even a modest cash position impacted results in a period when the overall market returned +2.64%. A sharp rebound in commodity prices overall also muted the favorable March credit selection results as the underweight in the Metals/Mining sector (e.g., coal, iron ore) negatively impacted results.
- For the quarter as a whole, the performance was a mix of unfavorable credit selection and sector allocation. The modest overweight in the Energy sector was the meaningful part of the unfavorable sector allocation accounting for more than one half of the negative effect of the allocation contribution. The Fund came into the quarter with an ending weight of+ 4.62%, compared to the index of +2.87% and averaged +3.79% for the month of January compared to the Index average weight of +2.88%.

TIPS, ETI, Cash Commentary

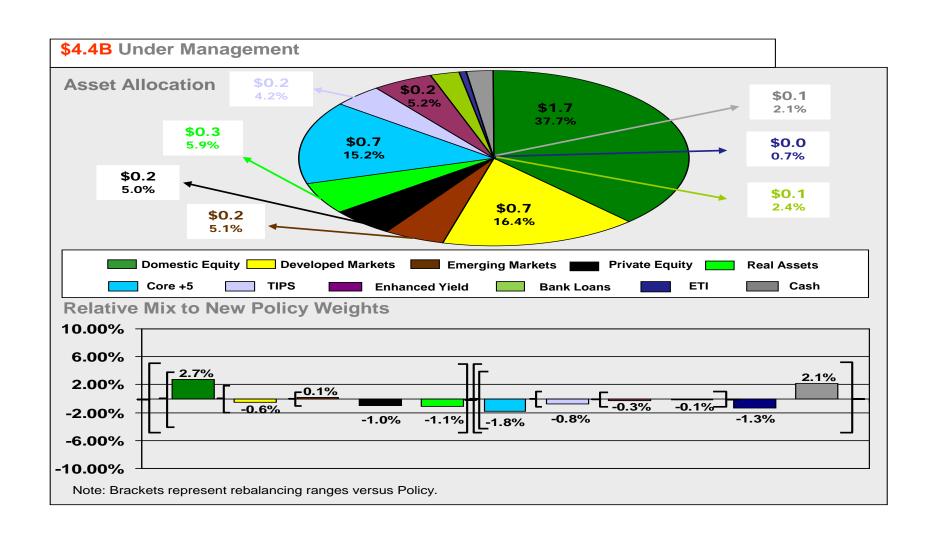
As of March 31, 2016, Fixed Income – TIPS, ETI and Cash was \$306.93 million (7.0%) of the NYBERS Total Fund.

<u>Fixed Income – TIPS Managers</u>

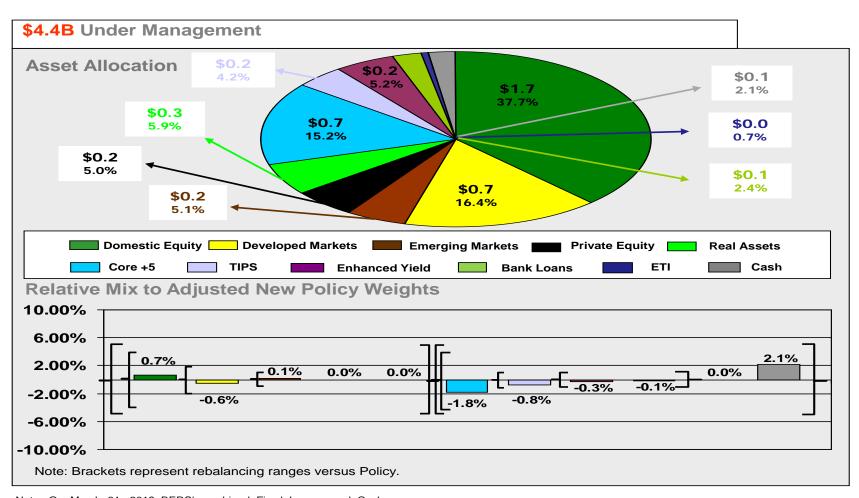
• SSgA (TIPS) returned +4.48% in the quarter, in line with the +4.46% return for its Barclays Global Inflation Linked index. SSgA (TIPS) returned +2.55% for the fiscal year as of March 31, 2016, in line with the +2.60% return for its Barclays Global Inflation Linked index.





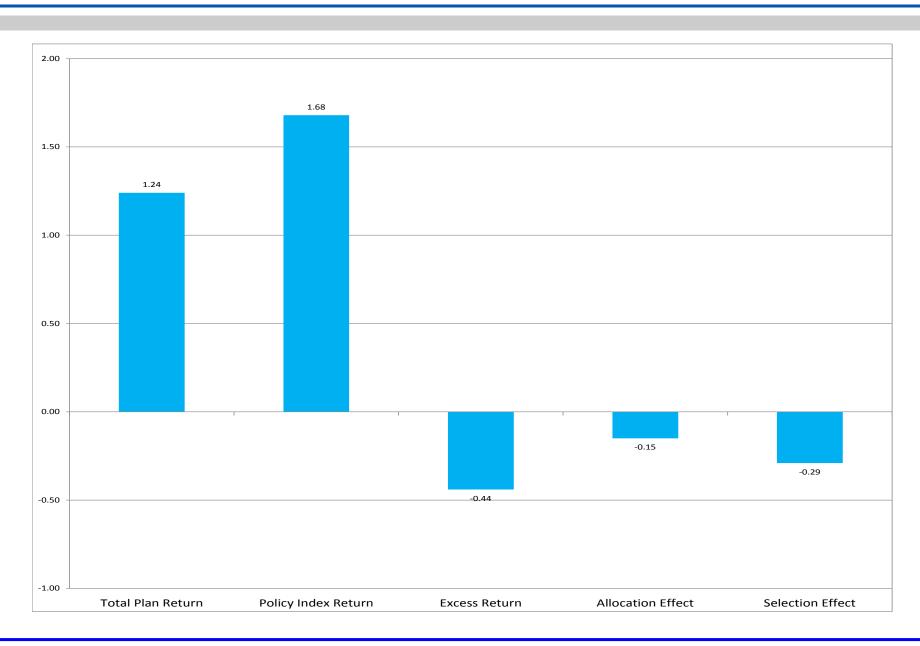




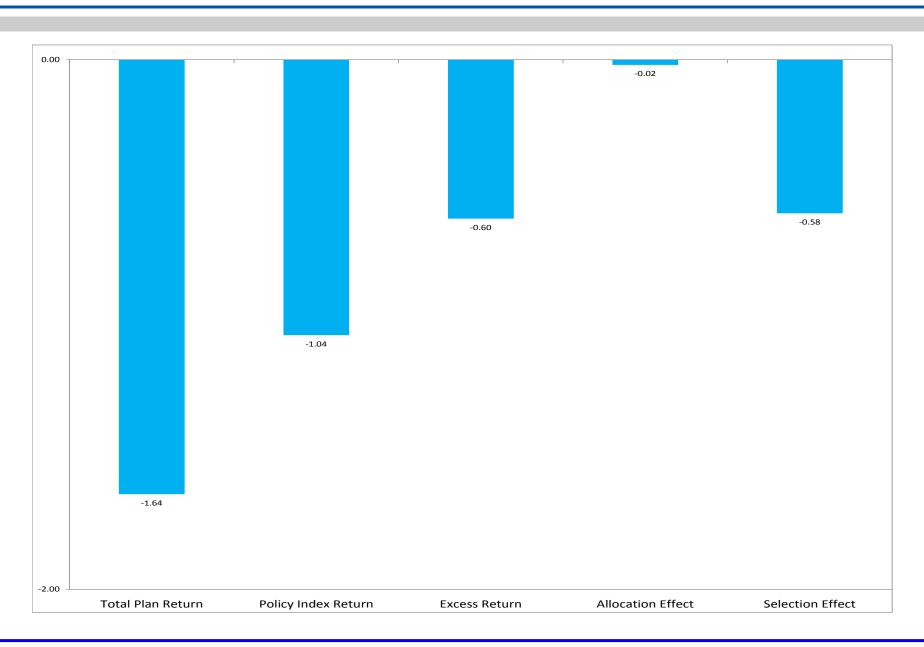


Note: On March 31, 2016 BERS' combined Fixed Income and Cash portfolios have a duration of 5 years. The duration of the Barclays US Aggregate Index was 5.5 years on that date.

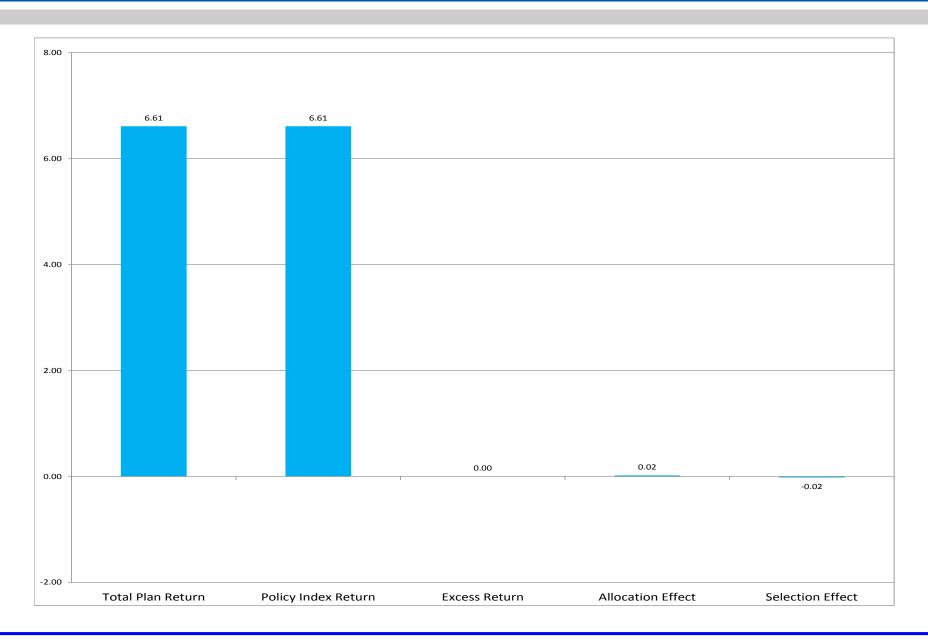














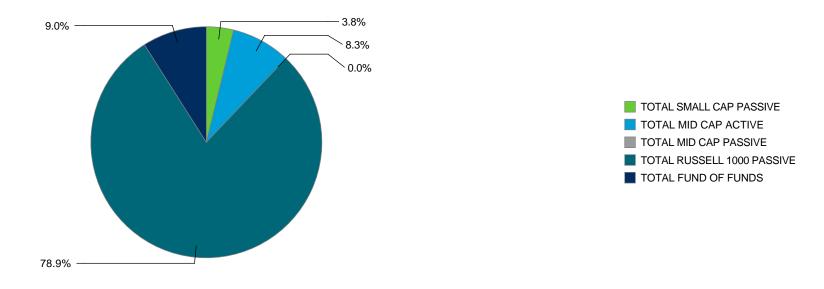
Allocation Effect - Asset Class Breakdown										
	Quarter	12 Months	3 Years*	<u>Benchmark</u>						
TOTAL BOARD OF EDUCATION	-0.15	-0.02	0.02	Board of Education Policy Benchmark						
TOTAL DOMESTIC EQUITY	-0.01	-0.01	0.02	RUSSELL 3000						
TOTAL DEVELOPED EQUITY	0.00	0.00	-0.03	MSCI EAFE NET						
TOTAL EMERGING MARKETS	-0.01	0.01	0.00	MSCI EMERGING MARKETS						
TOTAL PRIVATE EQUITY	0.00	-0.01	0.00	NYC R3000 +3% Lagged						
TOTAL PRIVATE REAL ESTATE	0.00	0.00	0.00	NCREIF NFI-ODCE NET + 1%						
TOTAL INFRASTRUCTURE	0.00	0.00	0.00	CPI + 4%						
TOTAL STRUCTURED	-0.06	-0.12	0.00	NYC - CORE PLUS FIVE						
TOTAL TIPS MANAGERS	-0.03	-0.03	0.08	BARCLAYS U.S TIPS INDEX						
TOTAL HIGH YIELD	-0.01	0.02	0.01	CITIGROUP BB & B						
TOTAL BANK LOANS	0.00	-0.01	0.01	CSFB LEVERAGED LOAN INDEX						
TOTAL CASH	-0.04	0.10	-0.08							

Selection Effect - Asset Class Breakdown											
	Quarter	12 Months	3 Years*	<u>Benchmark</u>							
TOTAL BOARD OF EDUCATION	-0.29	-0.58	-0.02	Board of Education Policy Benchmark							
TOTAL DOMESTIC EQUITY	-0.09	-0.29	0.01	RUSSELL 3000							
TOTAL DEVELOPED EQUITY	0.25	-0.34	-0.08	MSCI EAFE NET							
TOTAL EMERGING MARKETS	-0.09	-0.09	0.05	MSCI EMERGING MARKETS							
TOTAL PRIVATE EQUITY	-0.31	0.31	-0.03	NYC R3000 +3% Lagged							
TOTAL PRIVATE REAL ESTATE	0.00	-0.05	0.00	NCREIF NFI-ODCE NET + 1%							
TOTAL INFRASTRUCTURE	0.00	0.01	0.01	CPI + 4%							
TOTAL STRUCTURED	-0.03	-0.06	-0.01	NYC - CORE PLUS FIVE							
TOTAL TIPS MANAGERS	0.00	0.00	0.00	BARCLAYS U.S TIPS INDEX							
TOTAL HIGH YIELD	-0.02	-0.07	0.03	CITIGROUP BB & B							
TOTAL BANK LOANS	-0.02	-0.01	0.00	CSFB LEVERAGED LOAN INDEX							
TOTAL CASH	0.00	0.01	0.01								

^{*}Returns are Gross of Investment Advisory Fees



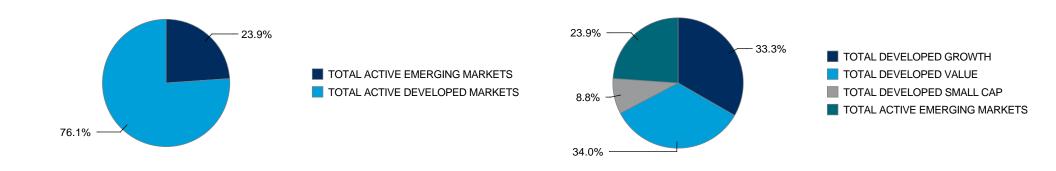
TOTAL DOMESTIC EQUITY \$1.7 37.7



Sub Sector	Policy	Actual	Under/Over	Index	Actual	
Sub Sector	Weight	Weight	Weight	Return	Return	Difference
TOTAL SMALL CAP ACTIVE	2.83	0.00	-2.83	-1.52		1.52
TOTAL SMALL CAP PASSIVE	5.39	3.79	-1.60	-1.52	-1.55	-0.03
TOTAL MID CAP ACTIVE	7.25	8.32	1.07	2.24	0.38	-1.86
TOTAL MID CAP PASSIVE	3.75	0.00	-3.75	3.78		-3.78
TOTAL RUSSELL 1000 ACTIVE	11.25	0.00	-11.25	1.17		-1.17
TOTAL RUSSELL 1000 PASSIVE	62.03	78.89	16.86	1.17	1.18	0.01
TOTAL EMERGING MANAGERS	7.50	9.00	1.50	0.97	-1.61	-2.58



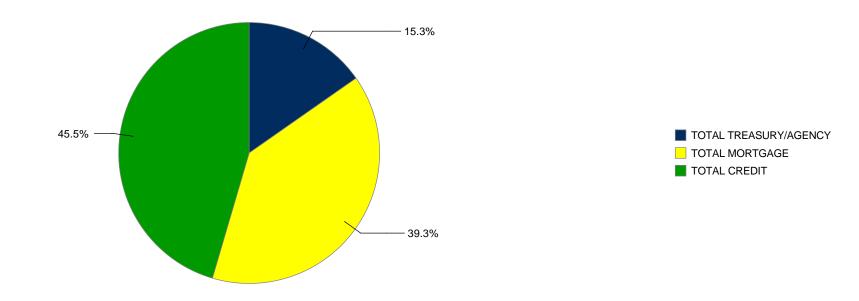
	Market Value (Millions)	% of Plan
TOTAL INTERNATIONAL EQUITY	\$944.6	21.6



		Quarterly Returns - Fund and Benchmark						
	Asset Weight	<u>Fund</u>	Benchmark	Excess				
TOTAL DEVELOPED GROWTH	33.31	(3.81)	(2.07)	(1.74)				
TOTAL DEVELOPED VALUE	34.04	0.33	(3.97)	4.30				
TOTAL DEVELOPED SMALL CAP	8.79	0.73	(0.41)	1.14				
TOTAL ACTIVE EMERGING MARKETS	23.86	4.11	5.71	(1.60)				
TOTAL INTERNATIONAL EQUITY	100.00	(0.20)	(0.38)	0.17				



TOTAL STRUCTURED <u>Market Value (Millions)</u> <u>% of Plan</u>
15.2



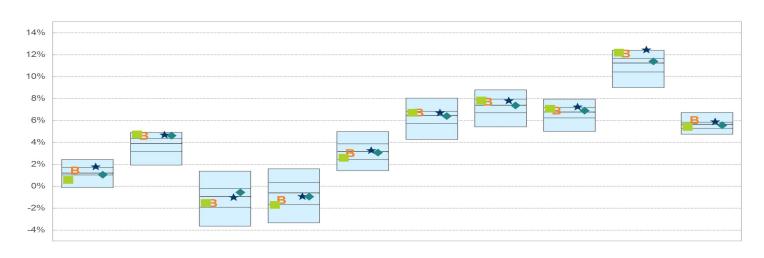
Sub Sector	Policy Weight	Actual Weight	Under/Over Weight	Index Return	Actual Return	Difference
TOTAL TREASURY/AGENCY	21.42	15.26	-6.16	5.55	5.51	-0.04
TOTAL MORTGAGE	35.33	39.28	3.95	1.97	2.04	0.08
TOTAL INV GRADE CREDIT	43.25	45.46	2.21	3.85	3.78	-0.08





City of New York Performance Comparison

Total Returns of Master Trusts - Public : Plans > \$1 Billion Cumulative Periods Ending : March 31, 2016



Percentile Rankings	1 Qtr	2 Qtrs	3 Qtrs	1 Year	2 Years	3 Years	4 Years	5 Years	7 Years	10 Years
5th	2.45	4.93	1.37	1.59	4.98	8.04	8.79	7.95	12.42	6.73
25th	1.72	4.36	-0.20	0.34	3.88	6.84	7.96	7.19	11.67	5.86
50th	1.21	3.91	-0.95	-0.61	3.16	6.45	7.40	6.78	11.25	5.66
75th	1.02	3.19	-1.93	-1.68	2.45	5.73	6.71	6.24	10.44	5.29
95th	-0.13	1.93	-3.64	-3.35	1.42	4.28	5.42	5.00	9.02	4.76
No. Of Obs	60	60	60	60	60	60	60	60	55	52
3 Total System - BOE	1.30 (46)	4.47 (16)	-1.67 (68)	-1.39 (70)	2.91 (56)	6.61 (41)	7.60 (36)	6.78 (50)	11.98 (13)	5.92 (19)
Board of Ed Policy Ben	1.68 (26)	4.58 (13)	-1.13 (56)	-1.04 (61)	3.16 (50)	6.61 (41)	7.70 (33)	7.15 (26)	12.36 (5)	5.79 (30)
Public Mkt Equiv 25	0.44 (92)	4.61 (13)	-1.67 (68)	-1.83 (78)	2.48 (73)	6.59 (41)	7.70 (33)	6.94 (35)	12.07 (10)	5.29 (75)
Public Mkt Equiv 35	0.91 (81)	4.50 (13)	-0.70 (41)	-1.08 (61)	2.95 (53)	6.28 (55)	7.26 (58)	6.77 (50)	11.28 (46)	5.44 (63)

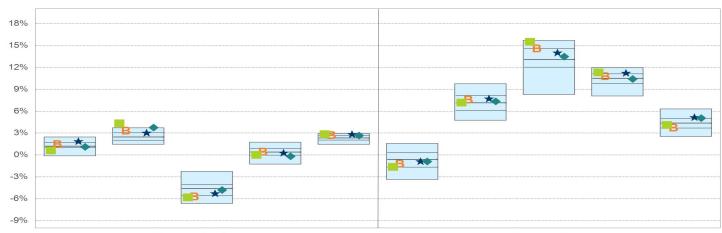
Wilshire Trust Universe Comparison Service® (TUCS®)





City of New York Performance Comparison

Total Returns of Master Trusts - Public : Plans > \$1 Billion Consecutive Time Periods: March 31, 2016



Quarter Ending	Year Ending
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Percentile Rankings	Mar 16	Dec 15	Sep 15	Jun 15	Mar 15	Mar 16	Mar 15	Mar 14	Mar 13	Mar 12
5th	2.45	3.72	-2.24	1.74	2.95	1.59	9.77	15.70	11.96	6.31
25th	1.72	3.06	-4.03	0.88	2.66	0.34	8.14	14.60	11.11	5.03
50th	1.21	2.47	-4.57	0.40	2.34	-0.61	7.16	13.10	10.50	4.36
75th	1.02	2.01	-5.59	-0.01	2.04	-1.68	6.13	12.01	9.78	3.70
95th	-0.13	1.45	-6.65	-1.24	1.47	-3.35	4.76	8.29	8.10	2.53
No. Of Obs	60	60	60	60	60	60	60	60	60	60
B Total System - BOE	1.30 (46)	3.13 (18)	-5.87 (85)	0.28 (60)	2.53 (30)	-1.39 (70)	7.40 (43)	14.42 (30)	10.60 (46)	3.57 (80)
* Board of Ed Policy Ben	1.68 (26)	2.85 (35)	-5.46 (73)	0.10 (65)	2.66 (25)	-1.04 (61)	7.54 (38)	13.84 (40)	11.06 (28)	4.99 (26)
★ Board of Ed Policy Ben Public Mkt Equiv 25										

Wilshire Trust Universe Comparison Service® (TUCS®)

Actual and Estimated Fees





BERS RETIREMENT SYSTEM										
		EAR ENDING JUNE 30, 2015 PDATED THROUGH SEPTEN								
Actual Estimates										
	20		201							
INVESTMENT STYLE (EQUITIES)	MV 06-30-15 (\$MM)	Mgmt Fees in Basis Points	MV 09-30-15 (\$MM)	Mgmt in Basis Points						
US Equities	1,770	11.13	1.640	10.56						
Small Cap Active	33	56.41	-	-						
Small Cap Growth Small Cap Value	-	-	-	-						
Small Cap value Small Cap core	33	56.41	1	-						
Small Cap Fundamental Index	-	-	-	-						
Small/Mid Cap Active	_			_						
Small/Mid Cap Growth	_	_	_							
Small/Mid Cap Value	-	-	-	-						
Mid Cap Active	143	54.23	134	56.66						
Mid Cap Growth	-	-	-	-						
Mid Cap Value	-	-	-	-						
Mid Cap core	143	54.23	134	56.66						
Russell 1000 Active	-	-								
Russell 1000 Fundamental Index	-	-	-	-						
Active Emerging Managers (U.S. Equities)	162	58.39	146	62.57						
Total US Active Equities	338	57.23	279	59.74						
Total US Passive Equities	1,432	0.45	1,360	0.44						
Environmental US E. Strategies	-	-	_	-						
International Equities	970	26.73	856	26.83						
Active EAFE Equities Growth	752 361	24.27 24.99	667 306	24.53 26.03						
Value	308	21.34	284	20.57						
Core	-	0.00	201							
Small Cap	83	32.01	77	33.16						
Non-US Environmental Strategies	-	-	-	-						
Active Emerging Markets	218	35.24	189	34.97						
Total Int'l Active Equities	970	26.73	856	26.83						
Total Int'l Passive Equities	-	-	-	_						
·										
REITS Passive Index	-	-	-	-						

Information provided by the New York City Comptroller

Actual and Estimated Fees





ACTUAL		EMENT SYSTEM EAR ENDING JUNE 30, 2015	AND	
		PDATED THROUGH SEPTEM		
	Act		Estima	
	20	15	2016	0
INVESTMENT STYLE (FIXED INCOME)				
	MV 06-30-15 (\$MM)	Mgmt Fees in Basis Points	MV 09-30-15 (\$MM)	Mgmt in Basis Points
Fixed Income	1,292	11.52	1,260	11.40
Structured Program	643	6.11	649	5.78
Government Sector	95	4.70	98	4.49
Mortgage Sector	254	6.17	257	4.32
Investment Grade Credit Sector	294	6.51	294	7.48
Global Fixed Income	-	-	-	-
Decares Fixed Emerging Manager				
Progress Fixed Emerging Managers	-	-	-	-
TIPS	139	1.29	138	0.50
Active TIPS	-	0.00	-	-
Passive TIPS	139	0.34	138	0.50
Opportunistic Fixed Income	-	-	-	-
Enhanced Yield	217	32.93	206	33.57
=nnanced Yield	217	32.93	206	33.57
Bank Loans	86	34.05	85	34.57
Convertible Bonds	-	-	-	-
			_	
ETI - Access - RBC	7	24.06	7	22.65
ETI - AFL-CIO HIT	12	42.51	12	42.64
Total Public Markets (Externally managed)	3,845	15.74	3,593	15.21
Other ETI Programs	5		6	
Other ETT Programs	5	-		-
In-House Short Term	182	0.00	157	0.00
Total Public Markets	4,032	15.01	3,756	14.55
Total I ublic markets	4,032	13.01	3,730	14.55
INVESTMENT STYLE (PRIVATE)				
·				
Hedge Funds	-	-	-	-
Private Equities	152	106.79	196	162.71
Real Assets Private Real Estate	184 162	91.35 89.30	192 169	109.98 96.96
Infrastructure	22	70.77	24	96.96 88.74
midotactac		70.77		00.74
Opportunistic Fixed Income	-	-	-	-
Total Private Markets	336	87.86	388	136.63
Fotal Overall	4,368	21.42	4,144	25.99
Footnotes				
1 - Private Equity & Real Assets Investments exclud				
2- Infrastructure Fees are based on committed Amo 3- Private Equity and Private Real Estate fees are ba				veement
4- The Incentive Fees paid for the Police Fund in 20		and committee amounts o	epending on the age of the in	vesinent.

Information provided by the New York City Comptroller

Through March 31, 2016



NYC BOARD OF EDUCATION RETIREMENT SYSTEM SECURITIES LENDING INCOME

		March 31, 2016	
	U.S. <u>FIXED INCOME</u>	U.S. <u>EQUITY</u>	INTERNATIONAL EQUITY
1989*	\$70,000	<u> </u>	
1990	79,000	 	
1991	111,000		
1992	122,000	\$11,000	
1993	79,000	32,000	\$15,000
1994	93,000	77,000	20,000
1995	112,000	93,000	12,000
1996	99,000	76,000	27,000
1997	101,000	126,000	40,000
1998	111,000	170,000	60,000
1999	159,000	263,000	100,000
2000	193,000	310,000	97,000
2001	295,000	208,000	159,000
2002	209,000	143,000	152,000
2003	153,000	158,000	195,000
2004	226,000	255,000	174,000
2005	384,000	479,000	217,000
2006	303,000	734,000	246,000
2007	593,000	1,208,000	272,000
2008	2,514,000	2,266,000	451,000
2009	698,000	1,416,000	367,000
2010	246,000	729,000	326,000
2011	340,000	943,000	599,000
2012	516,000	1,144,000	495,000
2013	349,000	1,325,000	446,000
2014	287,000	512,000	1,387,000
2015	338,000	429,000	1,985,000
2016 (3 Months)	76,000	94,000	707,000
Since Inception	<u>\$8,856,000</u>	<u>\$13,201,000</u>	<u>\$8,549,000</u> *Inception 4/89



New York City Board of Education Retirement System

Appendix A





	Ma	rket Value													
		(\$MM)	% of Total	3 Month	FYTD	CYTD	2015	2014	2013	2012	2011	5 Year	10 Year	ITD	Inception Date
	SYSTEM RETURN SUMMARY														
5	BERS-TOTAL PORTFOLIO - GROSS	4.380	100.00	1.30	(1.67)	1.30	(0.20)	6.64	18.78	13.50	(0.42)	6.78	5.92	8.59	07/01/1987
	BERS - ESTIMATED INVESTMENT FEES	ŕ		(0.06)	(0.19)	(0.06)	(0.24)	(0.25)			` ,				
	EST MANAGEMENT FEES - PUBLIC MARKET (ACCRUAL	.)	_	(0.03)	(0.10)	(0.03)	(0.14)	(0.15)							
	EST MANAGEMENT FEES - ALTERNATIVE MARKETS (C.	ASH)		(0.03)	(0.09)	(0.03)	(0.10)	(0.10)							
	EST INCENTIVE FEES														
	EST OTHER FEES														
	EST FEE OFFSETS		_												
	BERS-TOTAL PORTFOLIO - NET MGR			1.24	(1.86)	1.24	(0.44)	6.39							
	BOARD OF EDUCATION POLICY BENCHMARK		_	1.68	(1.13)	1.68	(0.09)	6.93	18.10	14.05	0.47	7.15	5.79		
	EXCESS RETURN			(0.44)	(0.73)	(0.44)	(0.36)	(0.53)	0.68	(0.55)	(0.89)	(0.37)	0.13		
	EQUITY RETURN DETAIL														
18	BERS-TOTAL EQUITY (INCLUDES PE & RA) - GROSS	3.076	70.23	0.60	(3.06)	0.60	(0.13)	7.08	27.83	16.72	(4.01)	7.91	5.91	8.70	08/01/1993
	ESTIMATED INVESTMENT FEES	-,-		(0.08)	(0.23)	(80.0)	(0.30)	(0.28)			(- /				
	EST MANAGEMENT FEES		_	(0.08)	(0.23)	(0.08)	(0.30)	(0.28)							
	EST INCENTIVE FEES			` ,	` ′	` ′	` ,	` ′							
	EST OTHER FEES														
	EST FEE OFFSETS		_												
	BERS-TOTAL EQUITY (INCL PE & RA) - NET MGR			0.52	(3.29)	0.52	(0.43)	6.81							
26	BERS-TOTAL DOMESTIC EQUITY - GROSS	1,652	37.71	0.76	(1.14)	0.76	0.51	11.27	35.96	16.62	(0.72)	10.62	6.84	9.40	09/01/1991
	ESTIMATED INVESTMENT FEES			(0.03)	(80.0)	(0.03)	(0.12)	(0.13)							
	BERS-TOTAL DOMESTIC EQUITY - NET MGR		-	0.73	(1.22)	0.73	0.39	11.14							
	RUSSELL 3000 (DAILY)		_	0.97	(0.48)	0.97	0.48	12.56	33.55	16.42	1.03	11.01	6.90	9.29	
	EXCESS RETURN			(0.24)	(0.74)	(0.24)	(0.09)	(1.42)	2.41	0.20	(1.75)	(0.39)	(0.07)	0.11	
36	BERS-TOTAL SMALL CAP - GROSS	63	1.43	(1.55)	(10.95)	(1.55)	(6.44)	3.20	44.74	19.91	(10.17)	5.61	3.75	5.41	04/01/2004
	ESTIMATED INVESTMENT FEES			(0.00)	(0.00)	(0.00)	(0.08)	(0.15)							
	BERS-TOTAL SMALL CAP - NET MGR		·-	(1.55)	(10.95)	(1.55)	(6.52)	3.05							
	RUSSELL 2000 (DAILY)		_	(1.52)	(10.14)	(1.52)	(4.41)	4.89	38.82	16.35	(4.18)	7.20	5.26	6.85	
	EXCESS RETURN			(0.03)	(0.82)	(0.03)	(2.11)	(1.85)	5.92	3.56	(5.99)	(1.59)	(1.50)	(1.44)	
46	BERS-TOTAL MID CAP - GROSS	137	3.14	0.38	(3.08)	0.38	2.56	10.77	37.52	19.12	(5.53)	10.38		13.37	10/01/2010
	ESTIMATED INVESTMENT FEES		0	(0.14)	(0.41)	(0.14)	(0.55)	(0.41)	07.02		(0.00)	10.00		.0.0.	10/01/2010
	BERS-TOTAL MID CAP - NET MGR		=	0.24	(3.50)	0.24	2.01	10.36							
	RUSSELL MIDCAP (DAILY)			2.24	(2.54)	2.24	(2.44)	13.22	34.76	17.28	(1.55)	10.30		13.30	
	EXCESS RETURN		_	(2.00)	(0.95)	(2.00)	4.45	(2.86)	2.76	1.84	(3.98)	0.08		0.06	





		Market Value (\$MM)	% of Total	3 Month	FYTD	CYTD	2015	2014	2013	2012	2011	5 Year	10 Year	ITD	Inception Date
	EQUITY RETURN DETAIL														
58	BERS-TOTAL RUSSELL 1000 - GROSS ESTIMATED INVESTMENT FEES	1,303	29.75	1.18 (0.00)	0.46 (0.00)	1.18 (0.00)	0.98 (0.00)	12.92 (0.01)	62.18	14.87	(1.64)	14.24	9.29	9.85	09/01/1993
	BERS-TOTAL RUSSELL 1000 - NET MGR RUSSELL 1000 (DAILY)		_	1.18 1.17	0.45 0.39	1.18 1.17	0.97 0.92	12.91 13.24	33.11	16.42	1.50	11.35	7.06	9.03	
	EXCESS RETURN			0.01	0.06	0.01	0.05	(0.33)	29.07	(1.56)	(3.14)	2.89	2.23	0.82	
68	BERS-TOTAL FUND OF FUNDS - GROSS ESTIMATED INVESTMENT FEES	149	3.40	(1.61) (0.17)	(8.24) (0.47)	(1.61) (0.17)	(3.07) (0.65)	5.43 (0.71)	40.84	17.00	(1.75)	8.58	6.30	7.10	04/01/2004
	BERS-TOTAL FUND OF FUNDS - NET MGR RUSSELL 3000 (DAILY)			(1.78) 0.97	(8.72) (0.48)	(1.78) 0.97	(3.72)	4.72 12.56	33.55	16.42	1.03	11.01	6.90	7.51	
	EXCESS RETURN		_	(2.75)	(8.24)	(2.75)	(4.20)	(7.84)	7.29	0.58	(2.78)	(2.43)	(0.60)	(0.41)	





		Market Value (\$MM)	% of Total	3 Month	FYTD	CYTD	2015	2014	2013	2012	2011	5 Year	10 Year	ITD	Inception Date
	EQUITY RETURN DETAIL														
80	BERS-TOTAL INTERNATIONAL EQUITY - GROSS ESTIMATED INVESTMENT FEES	945	21.56	(0.20) (0.07)	(11.12) (0.18)	(0.20) (0.07)	(7.04) (0.25)	(3.03) (0.26)	17.99	18.36	(11.84)	1.60	3.63	7.11	11/01/1992
	BERS-TOTAL INTERNATIONAL EQUITY - NET MGR			(0.27)	(11.30)	(0.27)	(7.30)	(3.30)	45.00	16.83	(40.74)	0.24	1.94		
	MSCI AC WORLD EX US (NET) EXCESS RETURN		_	(0.38) 0.11	(9.66) (1.64)	(0.38) 0.11	(5.66) (1.63)	(3.87)	15.29 2.70	16.83	(13.71)	0.31 1.29	1.94		
	EXOLOG RETORIN			0	(1.04)	0.11	(1.00)	0.01	2.70	1.02	1.07	1.20	1.00		
90	BERS-TOTAL DEVELOPED GROWTH ACTIVE - GROSS	315	7.18	(3.81)	(12.93)	(3.81)	(3.56)	(6.42)	29.53	18.88	(10.71)	3.01		2.69	08/01/2007
	ESTIMATED INVESTMENT FEES		_	(0.06)	(0.17)	(0.06)	(0.25)	(0.24)							
	BERS-TOTAL DEVELOPED GROWTH ACTIVE - NET MGR			(3.88)	(13.11)	(3.88)	(3.81)	(6.66)	00.55	40.00	(40.44)	0.70		0.70	
	MSCI EAFE GROWTH EXCESS RETURN		_	(2.07) (1.80)	(4.66) (8.45)	(2.07) (1.80)	4.09 (7.90)	(4.43) (2.23)	22.55 6.98	16.86 2.02	(12.11) 1.40	3.70 (0.69)		0.78 1.90	
	EXCESS RETURN			(1.80)	(0.43)	(1.00)	(7.90)	(2.23)	0.30	2.02	1.40	(0.03)		1.50	
100	BERS-TOTAL DEVELOPED VALUE ACTIVE - GROSS	322	7.34	0.33	(10.28)	0.33	(9.37)	(2.98)	16.94	17.84	(9.92)	1.58	2.54	5.59	08/01/2004
	ESTIMATED INVESTMENT FEES		_	(0.05)	(0.14)	(0.05)	(0.19)	(0.21)							
	BERS-TOTAL DEVELOPED VALUE ACTIVE - NET MGR			0.27	(10.42)	0.27	(9.56)	(3.19)							
	MSCI EAFE VALUE NET (DAILY)		_	(3.97)	(13.00)	(3.97)	(5.68)	(5.39)	22.95	17.69	(12.17)	0.82	0.60	4.03	
	EXCESS RETURN			4.24	2.58	4.24	(3.87)	2.21	(6.01)	0.15	2.26	0.76	1.94	1.55	
110	BERS-TOTAL DEVELOPED SMALL CAP ACTIVE - GROSS	83	1.90	0.73	0.44	0.73	9.04	(4.60)						6.94	05/01/2013
	ESTIMATED INVESTMENT FEES			(80.0)	(0.25)	(80.0)	(0.36)	(0.32)							
	BERS-TOTAL DEVELOPED SMALL CAP ACTIVE - NET MGR			0.65	0.19	0.65	8.68	(4.92)							
	S&P EPAC SMALL CAP INDEX		_	(0.41)	(1.86)	(0.41)	8.95	(3.10)						6.76	
	EXCESS RETURN			1.06	2.05	1.06	(0.28)	(1.81)						0.18	
120	BERS-TOTAL ACTIVE EMERGING MARKETS - GROSS	225	5.14	4.11	(14.30)	4.11	(14.83)	4.14	(4.70)	18.12	(17.86)	(3.53)	2.51	7.54	04/01/2004
	ESTIMATED INVESTMENT FEES	220	0	(0.09)	(0.23)	(0.09)	(0.31)	(0.37)	(0)		(100)	(5.00)		0 .	<u></u>
	BERS-TOTAL ACTIVE EMERGING MARKETS - NET MGR		_	4.02	(14.54)	4.02	(15.14)	3.77							
	MSCI EMERGING MARKETS		_	5.71	(12.63)	5.71	(14.92)	(2.19)	(2.60)	18.22	(18.42)	(4.13)	3.02	7.24	
	EXCESS RETURN			(1.70)	(1.90)	(1.70)	(0.22)	5.96	(2.10)	(0.11)	0.57	0.60	(0.51)	0.29	





		Market Value (\$MM)	% of Total	3 Month	FYTD	CYTD	2015	2014	2013	2012	2011	5 Year	10 Year	ITD	Inception Date
	EQUITY RETURN DETAIL														
132	BERS-TOTAL PRIVATE EQUITY (TIME WEIGHTED) NYC R3000 +3% LAGGED	221	5.05	1.39 7.04	6.12 0.92	1.39 7.04	14.26 2.49	22.16 21.24	15.34 24.53	7.70 35.20	19.15 5.55	14.51 15.95		4.99 11.44	07/01/2006
	EXCESS RETURN		_	(5.65)	5.20	(5.65)	11.77	0.92	(9.19)	(27.50)	13.60	(1.45)		(6.45)	
142	BERS-TOTAL PRIVATE REAL ESTATE (TIME WEIGHTED) NCREIF NFI-ODCE NET + 100 BP	229	5.22	2.51 2.20	11.45 9.53	2.51 2.20	16.06 15.08	13.67 12.56	8.64 14.02	14.30 10.88	9.43 16.09	11.85 13.31		12.09 14.27	12/01/2010
	EXCESS RETURN		-	0.31	1.92	0.31	0.98	1.10	(5.39)	3.41	(6.66)	(1.46)		(2.18)	
152	BERS-TOTAL INFRASTRUCTURE (TIME WEIGHTED) CPI + 4%	30	0.69	1.74 0.93	6.10 3.20	1.74 0.93	11.63 4.72	18.85 4.70						13.73 4.72	12/01/2013
	EXCESS RETURN			0.81	2.89	0.81	6.91	14.15						9.02	





		Market Value (\$MM)	% of Total	3 Month	FYTD	CYTD	2015	2014	2013	2012	2011	5 Year	10 Year	ITD	Inception Date
	FIXED INCOME RETURN DETAIL														
164	BERS-TOTAL FIXED INCOME - GROSS ESTIMATED INVESTMENT FEES	1,211	27.64	3.15 (0.03)	1.51 (0.10)	3.15 (0.03)	(0.68) (0.13)	5.69 (0.16)	(0.56)	8.55	9.42	4.70	5.87	5.39	04/01/2004
	EST MANAGEMENT FEES EST INCENTIVE FEES EST OTHER FEES EST FEE OFFSETS			(0.03)	(0.10)	(0.03)	(0.13)	(0.16)							
	BERS-TOTAL FIXED INCOME - NET MGR		_	3.12	1.41	3.12	(0.81)	5.53							
							` ,								
172	BERS-TOTAL STRUCTURED FIXED INCOME - GROSS	667	15.24	3.35	3.83	3.35	0.26	7.66	(2.38)	6.68	9.23	4.73	5.67	7.92	01/01/1985
	ESTIMATED INVESTMENT FEES		_	(0.01)	(0.04)	(0.01)	(0.06)	(80.0)							
	BERS-TOTAL STRUCTURED FIXED INCOME - NET MGR			3.33	3.78	3.33	0.20	7.58							
	NYC - CORE PLUS FIVE		=	3.53	4.34	3.53	0.41	7.66	(2.79)	5.41	9.40	4.54	5.56		
	EXCESS RETURN			(0.19)	(0.55)	(0.19)	(0.21)	(80.0)	0.41	1.27	(0.17)	0.18	0.11		
182	BERS-TOTAL TIPS - GROSS	185	4.22	4.48	2.56	4.48	(0.83)	3.37	(8.52)	7.67	13.34	3.29	4.83	4.28	06/01/2005
	ESTIMATED INVESTMENT FEES		_	(0.00)	(0.00)	(0.00)	(0.02)	(0.10)							
	BERS-TOTAL TIPS - NET MGR BARCLAYS GLOBAL INFLATION LINKED: US TIPS (DAILY)			4.48 4.46	2.55 2.60	4.48 4.46	(0.85) (1.44)	3.27 3.64	(8.61)	6.98	13.56	3.02	4.62	4.09	
	EXCESS RETURN		=	0.02	(0.05)	0.02	0.58	(0.37)	0.09	0.69	(0.22)	0.26	0.20	0.19	
	EXOLOG RETORN			0.02	(0.03)	0.02	0.50	(0.57)	0.03	0.03	(0.22)	0.20	0.20	0.13	
192	BERS-TOTAL ENHANCED YIELD - GROSS	226	5.16	2.68	(5.11)	2.68	(4.34)	3.09	8.39	15.68	6.25	5.11	6.91	5.59	08/01/1997
	ESTIMATED INVESTMENT FEES			(0.09)	(0.24)	(0.09)	(0.32)	(0.34)							
	BERS-TOTAL ENHANCED YIELD - NET MGR		_	2.59	(5.35)	2.59	(4.66)	2.75							
	CITIGROUP BB & B		_	3.04	(3.94)	3.04	(4.21)	2.78	6.17	14.45	6.58	4.83	5.64	5.66	
	EXCESS RETURN			(0.44)	(1.41)	(0.44)	(0.45)	(0.04)	2.22	1.23	(0.33)	0.29	1.27	(80.0)	
202	BERS- TOTAL BANK LOANS - GROSS	104	2.37	0.57	(2.28)	0.57	0.48	2.34	6.33					3.12	12/01/2012
	ESTIMATED INVESTMENT FEES		=	(0.09)	(0.25)	(0.09)	(0.34)	(0.35)							
	BERS-TOTAL BANK LOANS - NET MGR			0.48	(2.53)	0.48	0.14	1.99							
	CSFB LEVERAGED LOAN INDEX		_	1.33	(1.88)	1.33	(0.38)	2.06	6.15					2.95	
	EXCESS RETURN			(0.85)	(0.66)	(0.85)	0.52	(0.07)	0.18					0.18	
			0.5-	0.55	0.75			= 0.4	(4.00)		= 45		0.05		10/01/1001
212		29	0.66	3.50	6.73	3.50	3.60	7.31	(1.66)	4.35	7.15	4.67	6.02	7.13	12/01/1984
	BERS CUSTOM BENCHMARK (NO CASH)		_	2.60	3.56	2.60	1.18	5.76	(1.71)	3.74	7.09	3.61			
	EXCESS RETURN			0.90	3.17	0.90	2.42	1.55	0.05	0.60	0.06	1.06			





		Market Value (\$MM)	% of Total	3 Month	FYTD	CYTD	2015	2014	2013	2012	2011	5 Year	10 Year	ITD	Inception Date
	CASH SUMMARY														
224	BOARD OF ED. SHORT TERM - GROSS ESTIMATED INVESTMENT FEES BOARD OF ED. SHORT TERM - NET MGR	93	2.12 -	0.20 0.00 0.20	0.34 0.00 0.34	0.20 0.00 0.20	0.39 0.00 0.39	0.28 0.00 0.28	0.29 0.00 0.29	0.53 0.00 0.53	0.62 0.00 0.62	0.44 0.00 0.44	1.78 0.00 1.78	2.14	10/01/2000
228	C/D - FAIL FLOAT EARNINGS	0	0.00												
230	SECURITY LENDING	0	0.00												



New York City Board of Education Retirement System

Appendix B

Public Markets Manager Performance Detail



	Market Value (\$MM)	% of Total	3 Month	FYTD	CYTD	2015	2014
EQUITY SUMMARY							
US EQUITY							
NYC BERS BLACKROCK R2000 GROWTH	31	0.71	(4.65)	(13.44)	(4.65)	(1.30)	5.50
RUSSELL 2000 GROWTH DAILY			(4.68)	(13.55)	(4.68)	(1.38)	5.60
Excess			0.03	0.12	0.03	0.08	(0.11)
NYC BERS BLACKROCK R2000 VALUE	32	0.72	1.70	(6.68)	1.70	(7.38)	4.11
RUSSELL 2000 VALUE DAILY			1.70	(6.60)	1.70	(7.47)	4.22
Excess			(0.00)	(0.08)	(0.00)	0.09	(0.11)
Wellington Mgmt MCC	137	3.14	0.24	(3.50)	0.24	1.76	10.96
S&P MID CAP 400			3.78	(2.56)	3.78	(2.18)	9.77
Excess			(3.54)	(0.94)	(3.54)	3.94	1.19
NYC BERS BLACKROCK R1000 GROWTH	651	14.86	0.74	2.50	0.74	5.78	12.91
RUSSELL 1000 GROWTH - DAILY			0.74	2.39	0.74	5.67	13.05
Excess			0.00	0.10	0.00	0.12	(0.14)
NYC BERS BLACKROCK R1000 VALUE	652	14.89	1.64	(1.66)	1.64	(3.81)	13.39
RUSSELL 1000 VALUE (DAILY)			1.64	(1.65)	1.64	(3.83)	13.45
Excess			0.00	(0.01)	0.00	0.01	(0.06)
FUND OF FUNDS							
BERS-TOTAL FUND OF FUNDS	149	3.40	(1.78)	(8.72)	(1.78)	(3.72)	4.72
RUSSELL 3000 (DAILY)			0.97	(0.48)	0.97	0.48	12.56
Excess			(2.75)	(8.24)	(2.75)	(4.20)	(7.84)
BERS-TOTAL PROGRESS	76	1.72	(1.18)	(6.46)	(1.18)	(3.19)	7.77
RUSSELL 3000 (DAILY)			0.97	(0.48)	0.97	0.48	12.56
Excess			(2.15)	(5.98)	(2.15)	(3.67)	(4.78)

STATE STREET

	Market Value (\$MM)	% of Total	3 Month	FYTD	CYTD	2015	2014
BERS-TOTAL FIS	73	1.67	(2.40)	(10.93)	(2.40)	(4.25)	1.80
RUSSELL 2000 (DAILY)			(1.52)	(10.14)	(1.52)	(4.41)	4.89
Excess			(0.88)	(0.79)	(0.88)	0.17	(3.10
NON - US EQUITY							
Sprucegrove MTA (BOE)	322	7.34	0.27	(10.42)	0.27	(9.56)	(3.19
MSCI EAFE VALUE NET (DAILY)			(3.97)	(13.00)	(3.97)	(5.68)	(5.39
Excess			4.24	2.58	4.24	(3.87)	2.2
Baillie Gifford MTA	315	7.18	(3.88)	(13.11)	(3.88)	(3.81)	(6.66
MSCI EAFE GROWTH			(2.07)	(4.66)	(2.07)	4.09	(4.4
Excess			(1.80)	(8.45)	(1.80)	(7.90)	(2.2
Acadian	83	1.90	0.65	0.19	0.65	8.68	(4.9
S&P EPAC Small Cap Index			(0.41)	(1.86)	(0.41)	8.95	(3.1
Excess			1.06	2.05	1.06	(0.28)	(1.8
EMERGING MARKETS							
ACADIAN	225	5.14	4.02	(14.54)	4.02	(15.14)	3.7
MSCI EMERGING MARKETS			5.71	(12.63)	5.71	(14.92)	(2.1
Excess			(1.70)	(1.90)	(1.70)	(0.22)	5.9
FIXED INCOME SUMMARY							
STRUCTRED FIXED INCOME							
Blackrock Mortgages	262	5.98	2.03	3.09	2.03	1.73	
CITIGROUP MORTGAGE INDEX			1.97	3.18	1.97	1.56	
Excess			0.07	(0.09)	0.07	0.17	
Prudential - Credit	174	3.98	4.00	4.25	4.00	(0.22)	7.2
NYC - Investment Grade Credit			3.85	3.72	3.85	(0.65)	7.0
Excess			0.14	0.53	0.14	0.43	0.1

STATE STREET

	Market Value (\$MM)	<u>%</u>					
Taplin Canida Habacht - Credit	(\$MM) 113	of Total 2.57	3 Month 3.68	FYTD 1.55	3.68	(3.01)	2014 8.68
NYC - Investment Grade Credit	113	2.31	3.85	3.72	3.85	(0.65)	7.04
Excess			(0.17)	(2.17)	(0.17)	(2.36)	1.64
LAUGOS			(0.17)	(2.17)	(0.17)	(2.30)	1.04
Prudential-Privest - Credit	17	0.38	1.86	2.71	1.86	1.63	7.20
NYC - Investment Grade Credit			3.85	3.72	3.85	(0.65)	7.04
Excess			(1.99)	(1.01)	(1.99)	2.28	0.16
State Street Govt	102	2.32	5.50	7.63	5.50	0.45	12.21
NYC - Treasury Agency Plus Five			5.55	7.72	5.55	0.72	12.38
Excess			(0.05)	(0.09)	(0.05)	(0.27)	(0.16)
ENHANCED YIELD							
Loomis Sayles - High Yield	108	2.47	2.53	(7.61)	2.53	(7.07)	2.83
NYC-Loomis (BoA MLMSTII 7-03/BB&B PRIOR)			3.25	(3.94)	3.25	(4.64)	2.50
Excess			(0.72)	(3.67)	(0.72)	(2.43)	0.33
Shenkman - High Yield	118	2.69	2.65	(2.86)	2.65	(1.97)	2.66
CITIGROUP BB & B			3.04	(3.94)	3.04	(4.21)	2.78
Excess			(0.38)	1.08	(0.38)	2.24	(0.13)
BANK LOANS							
Babson BL	104	2.37	0.48	(2.55)	0.48	0.12	1.99
CSFB LEVERAGED LOAN INDEX			1.33	(1.88)	1.33	(0.38)	2.06
Excess			(0.85)	(0.67)	(0.85)	0.51	(0.07)
TIPS							
SSGA TIPS	185	4.22	4.48	2.55	4.48		
Barclays Global Inflation Linked: US TIPS (Daily)			4.46	2.60	4.46		
Excess			0.02	(0.05)	0.02		

STATE STREET

	Market Value (\$MM)	% of Total	3 Month	FYTD	CYTD	2015	2014
ECONOMICALLY TARGETED INVESTMENTS							
ACCESS RBC	6	0.15	2.13	3.14	2.13	1.83	6.66
Access RBC Benchmark			2.13	3.13	2.13	1.40	5.08
Excess			0.00	0.02	0.00	0.43	1.58
AFL-CIO HOUSING INV TRUST	16	0.36	2.74	3.51	2.74	1.13	6.10
Barclays Aggregate (Daily)			3.03	3.71	3.03	0.55	5.97
Excess			(0.29)	(0.20)	(0.29)	0.58	0.14
CPC CONST FACILITY	1	0.02	(0.85)	10.50	(0.85)	12.90	
CPC CONST BENCHMARK			0.76	2.22	0.76	2.90	
Excess			(1.61)	8.28	(1.61)	10.01	
BOA-PPAR (FNMA)	1	0.03	7.08	18.52	7.08	42.03	13.31
FNMA Plus 85bps			2.26	3.92	2.26	2.50	7.13
Excess			4.83	14.60	4.83	39.53	6.19
CCD-PPAR (FNMA)	1	0.02	7.01	19.22	7.01	6.69	25.71
FNMA Plus 85bps			2.26	3.92	2.26	2.50	7.13
Excess			4.75	15.30	4.75	4.20	18.58
CCD-PPAR (GNMA)	0	0.01	5.55	14.41	5.55	5.08	15.37
GNMA Plus 65bps			1.91	3.54	1.91	2.02	6.65
Excess			3.64	10.87	3.64	3.06	8.72
CFSB-PPAR (GNMA)	0	0.00	5.83	15.97	5.83	5.90	15.34
GNMA Plus 65bps			1.91	3.54	1.91	2.02	6.65
Excess			3.92	12.43	3.92	3.88	8.69
CPC-PPAR (FNMA)	1	0.02	7.31	20.89	7.31	8.96	13.91
FNMA Plus 85bps			2.26	3.92	2.26	2.50	7.13
Excess			5.05	16.97	5.05	6.46	6.78



	Market Value (\$MM)	% of Total	3 Month	FYTD	CYTD	2015	2014
JPMC-PPAR (FNMA)	1	0.03	7.09	21.09	7.09	6.18	12.06
FNMA Plus 85bps			2.26	3.92	2.26	2.50	7.13
Excess			4.83	17.17	4.83	3.68	4.93
LIIF-PPAR (FNMA)	1	0.02	12.84	24.83	12.84	6.29	38.12
FNMA Plus 85bps	'	0.02	2.26	3.92	2.26	2.50	7.13
· · · · · · · · · · · · · · · · · · ·							
Excess			10.59	20.92	10.59	3.79	30.99
LIIF-PPAR (GNMA)	0	0.00	4.00	8.18	4.00	3.92	9.74
GNMA Plus 65bps			1.91	3.54	1.91	2.02	6.65
Excess			2.09	4.64	2.09	1.91	3.09
NCBCI-PPAR (FNMA)	0	0.00	5.45	14.03	5.45	4.97	14.93
FNMA Plus 85bps			2.26	3.92	2.26	2.50	7.13
Excess			3.19	10.11	3.19	2.47	7.81
NCBCI-PPAR (GNMA)	0	0.00	5.62	14.76	5.62	5.53	16.66
GNMA Plus 65bps			1.91	3.54	1.91	2.02	6.65
Excess			3.70	11.22	3.70	3.52	10.01
0.001							
CASH							
BOARD OF ED. SHORT TERM	93	2.12	0.20	0.34	0.20	0.39	0.28
91 DAY T-BILL			0.07	0.12	0.07	0.05	0.02
Excess			0.13	0.22	0.13	0.35	0.26
C/D - FAIL FLOAT EARNINGS	0	0.00					
SECURITY LENDING	0	0.00					



New York City Board of Education Retirement System

Appendix C

Alternative Assets Manager Performance Detail

Alternative Assets Manager Performance Detail





TOTAL PRIVATE EQUITY		Vintage Year			-		Investment	
Nesirow Financial Private Equity Partnership Fund III, L.P. 2005 57,000,000 54,238,273 55,330,092 35,795,872 1.68 9.2% 1.68		(Cash Flow)	Commitments	Contributions	Distributions	Market Value	Multiple	ITD IRR%
Mesirow Financial Private Equity Partnership Fund III, LP. 2005 \$7,000,000 \$2,428,273 \$5,330,092 \$35,798,872 \$1.68 9.2% Mesirow Financial Private Equity Partnership Fund IV, LP. 2006 20,000,000 21,717,233 14,253,759 19,344,055 1.55 10.3% New York Fairview Private Equity Fund, LP. 2006 19,000,000 17,165,608 13,659,630 10,042,721 1.38 7.0% Mesirow Financial Private Equity Partnership Fund V, LP. 2009 45,000,000 30,164,326 8,108,886 38,095,889 1.53 16.5% Neutrino Financial Private Equity Partnership Fund V, LP. 2012 25,000,000 21,263,916 2,592,194 24,002,277 1.25 15.2% Neutron Financial Private Equity April and Private Equity April an	TOTAL PRIVATE EQUITY		509,159,304	228,882,379	104,234,363	211,500,674	1.38	10.4%
Mesirow Financial Private Equity Partnership Fund III, LP. 2005 \$7,000,000 \$2,428,273 \$5,330,092 \$35,798,872 \$1.68 9.2% Mesirow Financial Private Equity Partnership Fund IV, LP. 2006 20,000,000 21,717,233 14,253,759 19,344,055 1.55 10.3% New York Fairview Private Equity Fund, LP. 2006 19,000,000 17,165,608 13,659,630 10,042,721 1.38 7.0% Mesirow Financial Private Equity Partnership Fund V, LP. 2009 45,000,000 30,164,326 8,108,886 38,095,889 1.53 16.5% Neutrino Financial Private Equity Partnership Fund V, LP. 2012 25,000,000 21,263,916 2,592,194 24,002,277 1.25 15.2% Neutron Financial Private Equity April and Private Equity April an			500 150 001	222 222 272	101.001.000	211 500 551	1.00	10.10/
Mesirow Frinancial Private Equity Partnership Fund IV, LP. 2006 25,000,000 21,717,233 14,253,759 19,344,055 1.55 10.3% New York Fairview Private Equity Fund, LP. 2009 45,000,000 37,165,608 31,659,630 10,042,721 1.38 7.0%								
New York Fairview Private Equity Fund, LP. 2006 19,000,000 17,165,608 13,659,630 10,042,721 1.38 7.0% Mosirow Financial Private Equity Partnership Fund V, LP. 2012 15,000,000 3,0164,326 8,108,886 38,095,889 1.53 16.5% 16.5% 15.0% 16.5% 15.0% 16.5% 16	·······································		, ,			, ,		
Mesirow Financial Private Equity Partnership Fund V, L.P. 2009 45,000,000 30,164,326 8,108,886 38,095,889 1.53 16.5% Platinum Equity Capital Partners III, L.P. 2012 15,000,000 8,648,634 6,372,884 6,775,871 1.52 48.0% Apollo Investment Fund VIII, L.P. 2013 20,000,000 6,006,490 110,798 5,731,722 0.97 -3.5% Carlyle Partners VI, L.P. 2013 20,000,000 9,290,219 371,801 8,92,026 0.99 -1.3% Carlyle Partners VI, L.P. Side Car 2013 1,7144,363 6,402,538 2,600 5,762,544 0.90 N/M CVC Capital Partners VI, L.P. 2013 19,000,000 6,215,382 1,500 5,762,544 0.90 N/M CVC Capital Partners VI, L.P. 2013 19,000,000 6,215,382 1,500 5,762,544 0.90 N/M Landmark Equity Partners XV, L.P. 2013 16,000,000 2,515,826 435,707 2,526,115 1.18 14.9% ASF VI, L.P. 2014 5,000,00	. ,							
Platinum Equity Capital Partners III, L.P. 2012 15,000,000 8,648,634 6,372,884 6,775,871 1.52 48.0% Marburg Pincus Private Equity XI, L.P. 2013 20,000,000 21,263,916 2,592,194 24,002,277 1.25 15.2% Apollo Investment Fund VIII, L.P. 2013 20,000,000 6,006,490 110,798 5,731,722 0.97 -3.5% Carlyle Partners VI, L.P. 2013 20,000,000 9,290,219 371,801 8,792,026 0.99 -1.3% Carlyle Partners VI, L.P Side Car 2013 2,200,000 1,220,224 -	• • •		, ,					
Warburg Pincus Private Equity XI, L.P. 2012 25,000,000 21,263,916 2,592,194 24,002,277 1.25 15.2% Apollo Investment Fund VIII, L.P. 2013 20,000,000 6,006,490 110,798 5,731,722 0.97 -3.5% Carlyle Partners VI, L.P. 2013 20,000,000 2,920,219 371,801 8,792,026 0.99 -1.3% Carlyle Partners VI, L.P Side Car 2013 2,200,000 1,220,224 - 1,182,877 0.97 N/M Capital Partners VI, L.P. 2013 17,144,363 6,402,538 2,600 5,762,544 0.90 N/M Landmark Equity Partners XV, L.P. 2013 19,000,000 6,215,382 1,754,694 5,408,152 1.15 12.9% Landmark Equity Partners XV, L.P Side Car 2013 6,000,000 2,515,826 435,707 2,526,115 1.18 14.9% ASF VI, L.P. 2014 15,000,000 5,852,156 192,702 6,991,324 1.23 N/M ASF VI, NYC Co-Invest, L.P. 2014 5,000,000 5,582,156 192,702 6,991,324 1.23 N/M Crestriew Partners III, L.P. 2014 15,000,000 551,842 - 591,168 1.07 N/M Crestriew Partners III (Co-Investnent B), L.P. 2014 15,000,000 3,434,581 56,712 3,336,253 0.99 N/M Siris Partners III, L.P. 2014 20,000,000 1,676,108 70,233 1,665,694 1.04 N/M Siris Partners III, L.P. 2014 3,500,000 3,620,294 437,484 3,208,408 1.39 N/M Siris Partners III, L.P. 2014 25,000,000 1,676,108 70,233 1,665,694 1.04 N/M N/M Siris Partners III, L.P. 2014 25,000,000 6,503,899 17,225 6,628,491 1.02 N/M N/M Siris Partners III, L.P. 2015 10,000,000 6,503,899 17,225 6,628,491 1.02 N/M N/M Siris Partners III (P.P. 2015 10,000,000 6,503,899 17,225 6,628,491 1.02 N/M N/M Siris Partners III M N/M								
Apollo Investment Fund VIII, L.P. 2013 20,000,000 6,006,490 110,798 5,731,722 0.97 -3.5% Carlyle Partners VI, L.P. 2013 20,000,000 9,290,219 371,801 8,792,026 0.99 -1.3% Carlyle Partners VI, L.P Side Car 2013 2,200,000 1,220,224 - 1,182,877 0.97 N/M CVC Capital Partners VI, L.P. 2013 17,144,363 6,402,538 2,600 5,762,544 0.90 N/M Landmark Equity Partners XV, L.P. 2013 19,000,000 6,215,382 1,754,694 5,408,152 1.15 12.9% ASF VI, L.P Side Car 2013 6,000,000 2,515,826 435,707 2,526,115 1.18 14.9% ASF VI, L.P. 2014 15,000,000 5,852,156 192,702 6,991,324 1.23 N/M ASF VI NYC Co-Invest, L.P. 2014 2,500,000 5,852,156 192,702 6,991,324 1.23 N/M Crestview Partners III, L.P. 2014 2,500,000 5,51,842 - 591,168 1.07 N/M Crestview Partners III, L.P. 2014 15,000,000 3,434,581 56,712 3,336,253 0.99 N/M Crestview Partners III, L.P. 2014 2,000,000 1,676,108 70,233 1,665,694 1.04 N/M Siris Partners VIII, L.P. 2014 2,000,000 2,620,294 437,484 3,208,408 1.39 N/M Siris Partners VIII, L.P. 2014 3,500,000 561,062 - 516,643 0.92 N/M Siris Partners Fund V, L.P. 2014 25,000,000 661,062 - 516,643 0.92 N/M Siris Partners Fund V, L.P. 2014 25,000,000 16,878,685 14,945 19,216,049 1.14 N/M N/CBERS - 2012 Emerging Manager Program 2012 25,000,000 600 5 - 50,3899 17,225 6,628,491 1.02 N/M ARS VII, L.P. 2015 10,000,000 600 - 50,503,899 17,225 6,628,491 1.02 N/M Siridepoint Europe V Co-Invest, L.P. 2015 10,000,000 600 - 600 - 600 1.00 N/M ARS VII, L.P. 2015 16,388,965 - 6 - 6 - 6 00 1.00 N/M Bridgepoint Europe V Co-Invest Equity XII, L.P. 2015 16,388,965 - 6 - 6 - 6 0 0 0 N/M N/CBERS - 2015 Emerging Manager Program 2015 16,388,965 - 6 - 6 - 6 0 0 N/M N/CBERS - 2015 Emerging Manager Program 2015 16,388,965 - 6 - 6 - 6 0 0 N/M N/CBERS - 2015 Emerging Manager Program 2015 16,388,965 - 6 - 6 - 6 0 0 N/M N/CBERS - 2015 Emerging Manager Program 2015 16,388,965 - 6 - 6 - 6 0 0 N/M N/CBERS - 2015 Emerging Manager Program 2015 16,388,965 - 6 - 6 - 6 0 0 N/M N/CBERS - 2015 Emerging Manager Program 2015 16,388,965 - 6 - 6 - 6 0 0 N/M N/CBERS - 2015 Emergi	• • •			, ,				
Carlyle Partners VI, L.P. 2013 20,000,000 9,290,219 371,801 8,792,026 0.99 -1.3% Carlyle Partners VI, L.P. Side Car 2013 2,200,000 1,220,224 - 1,182,877 0.97 N/M CARLY Partners VI, L.P. 2013 17,144,363 6,402,538 2,600 5,762,544 0.90 N/M Landmark Equity Partners XV, L.P. 2013 19,000,000 6,215,382 1,754,694 5,408,152 1.15 12.9% AsF VI, L.P. Side Car 2013 6,000,000 2,515,826 435,707 2,526,115 1.18 14.9% ASF VI, L.P. Side Car 2014 15,000,000 5,852,156 192,702 6,991,324 1.23 N/M ASF VI, L.P. 2014 15,000,000 5,852,156 192,702 6,991,324 1.23 N/M ASF VI, NVC Co-Invest, L.P. 2014 2,500,000 5,518,42 - 591,168 1.09 N/M Crestview Partners III, L.P. 2014 15,000,000 5,518,42 - 591,168 1.09 N/M Crestview Partners III, L.P. 2014 15,000,000 3,434,581 56,712 3,336,253 0.99 N/M Crestview Partners III (Co-Investment B), L.P. 2014 15,000,000 1,676,108 70,233 1,665,694 1.04 N/M Crestview Partners III, L.P. 2014 20,000,000 1,676,108 70,233 1,665,694 1.04 N/M Siris Partners III, L.P. 2014 20,000,000 1,676,108 70,233 1,665,694 1.04 N/M Siris Partners III, L.P. 2014 25,000,000 1,676,108 70,233 1,665,694 1.04 N/M Siris Partners III, L.P. 2014 25,000,000 1,676,108 70,233 1,665,694 1.04 N/M N/GERS 2012 Emerging Managae Program 2012 25,000,000 6,503,899 17,225 6,628,491 1.02 N/M ASF VII, L.P. 2015 10,000,000 602,765 27,192 526,989 0.92 N/M ASF VII, L.P. 2015 10,000,000 602,765 27,192 526,989 0.92 N/M Bridgepoint Europe V.C.P. 2015 6,000,000 600 7,000 7,500 N/M Bridgepoint Europe V.C.P. 2015 10,000,000 600 7,000 N/M Bridgepoint Europe V.C.P. 2015 10,000,000 7,000 N/M Siring Partners Fund Managae Program 2015 10,000,000 7,000 N/M Siring Partners Fund Managae Program 2015 10,000,000 7,000 N/M Siring Partners Fund Managae Program 2015 10,000,000 000 N/M N/M Siring Partners Fund Managae Program 2015 10,000,000 000 N/M N/M Siring Partners Fund Managae Program 2015 10,000 N/M N/M Siring Partner	Warburg Pincus Private Equity XI, L.P.	2012	25,000,000	21,263,916	2,592,194	24,002,277	1.25	
Carlyle Partners VI, L.P Side Car 2013 2,200,000 1,220,224 - 1,182,877 0.97 N/M CVC Capital Partners VI, L.P. 2013 17,144,363 6,402,538 2,600 5,762,544 0.90 N/M Landmark Equity Partners XV, L.P. 2013 19,000,000 6,215,382 1,754,694 5,408,152 1.15 12.9% ASF VI, L.P. 2014 15,000,000 2,515,826 435,707 2,526,115 1.18 14.9% ASF VI, L.P. 2014 15,000,000 2,920,163 423,000 3,144,202 1.22 N/M ASF VI NVC Co-Invest, L.P. 2014 2,500,000 2,920,163 423,000 3,144,202 1.22 N/M Crestview Partners III, L.P. 2014 15,000,000 1,676,108 70,233 1,665,694 1.04 N/M Crestview Partners III, Co-Investment B), L.P. 2014 15,000,000 1,676,108 70,233 1,665,694 1.04 N/M Lexington Capital Partners VIII, L.P. 2014 2,000,000 1,676,108 70,233 1,665,694 1.04 N/M Siris Partners III, L.P. 2014 2,000,000 2,620,294 437,484 3,208,408 1.39 N/M Siris Partners III, L.P. 2014 3,500,000 16,878,685 14,945 19,216,049 1.14 N/M N/M Siris Partners III, L.P. 2014 2,500,000 16,878,685 14,945 19,216,049 1.14 N/M N/M N/CBERS - 2012 Emerging Manager Program 2012 25,000,000 60,503,899 17,225 6,628,491 1.02 N/M ARS VIII, L.P. 2015 10,000,000 60,765 27,192 526,989 0.92 N/M ASF VII, L.P. 2015 10,000,000 60,765 27,192 526,989 0.92 N/M Sridgepoint Europe V, L.P. 2015 16,388,965 -	Apollo Investment Fund VIII, L.P.	2013	20,000,000	6,006,490	110,798	5,731,722	0.97	-3.5%
CVC Capital Partners VI, L.P. Landmark Equity Partners XV, L.P. Landmark Equity Partners XV, L.P. Landmark Equity Partners XV, L.P. 2013 19,000,000 6,215,382 1,754,694 5,408,152 1.15 12.9% ASF VI, L.P. 2014 15,000,000 2,515,826 435,707 2,526,115 1.18 14.9% ASF VI NYC Co-Invest, L.P. 2014 15,000,000 2,920,163 2423,000 3,144,202 1.22 N/M Crestview Partners III, L.P. 2014 2,500,000 551,842	Carlyle Partners VI, L.P.	2013	20,000,000	9,290,219	371,801	8,792,026	0.99	-1.3%
Landmark Equity Partners XV, L.P. Landmark Equity Partners XV, L.P Side Car 2013 19,000,000 2,515,826 435,707 2,526,115 1.18 14.9% ASF VI, L.P. 2014 15,000,000 5,852,156 192,702 6,991,324 1.23 N/M ASF VI NYC Co-Invest, L.P. 2014 2,500,000 2,920,163 423,000 3,144,202 1.22 N/M Centerbridge Capital Partners III, L.P. 2014 2,500,000 551,842 - 591,168 1.07 N/M Crestview Partners IIII, L.P. 2014 15,000,000 3,434,581 56,712 3,336,253 0.99 N/M Crestview Partners IIII (Co-Investment B), L.P. 2014 2,000,000 1,676,108 70,233 1,665,694 1.04 N/M Lexington Capital Partners VIII, L.P. 2014 20,000,000 2,620,294 437,484 3,208,408 1.39 N/M Siris Partners IIII, L.P. 2014 20,000,000 2,620,294 437,484 3,208,408 1.39 N/M Vista Equity Partners Fund V, L.P. 2014 25,000,000 16,878,685 14,945 19,216,049 1.14 N/M NYCBERS - 2012 Emerging Manager Program 2012 25,000,000 6,503,899 17,225 6,628,491 1.02 N/M ASF VII B.NYC Co-Invest, L.P. 2015 10,000,000 600 0.00 N/M ASF VII B.NYC Co-Invest, L.P. 2015 10,000,000 600 600 1.00 N/M Bridgepoint Europe V, L.P. 2015 10,000,000 600 600 1.00 N/M Bridgepoint Europe V, L.P. 2015 16,388,965 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 2,731,494 0.00 N/M EQT VII, L.P. 2015 16,388,965 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 16,388,965 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 16,388,965 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 16,388,965 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 16,388,965 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 10,000,000 333,250 1,826 293,948 0.89 N/M Warburg Pincus Private Equity XII, L.P. 2015 10,000,000 2,098,304 - 1,913,207 0.91 N/M	Carlyle Partners VI, L.P Side Car	2013	2,200,000	1,220,224	-	1,182,877	0.97	N/M
Landmark Equity Partners XV, L.P Side Car 2013 6,000,000 2,515,826 435,707 2,526,115 1.18 14.9% ASF VI, L.P. 2014 15,000,000 5,852,156 192,702 6,991,324 1.23 N/M ASF VI NYC Co-Invest, L.P. 2014 5,000,000 2,920,163 423,000 3,144,202 1.22 N/M Centerbridge Capital Partners III, L.P. 2014 2,500,000 551,842 - 591,168 1.07 N/M Crestview Partners III, L.P. 2014 15,000,000 3,434,581 56,712 3,336,253 0.99 N/M Crestview Partners III (Co-Investment B), L.P. 2014 5,000,000 1,676,108 70,233 1,665,694 1.04 N/M Lexington Capital Partners VIII, L.P. 2014 20,000,000 2,620,294 437,484 3,208,408 1.39 N/M Siris Partners III, L.P. 2014 3,500,000 16,676,108 70,233 1,665,694 1.04 N/M Vista Equity Partners Fund V, L.P. 2014 25,000,000 561,062 - 516,643 0.92 N/M Vista Equity Partners Fund V, L.P. 2014 25,000,000 16,878,685 14,945 19,216,049 1.14 N/M N/CERS - 2012 Emerging Manager Program 2012 25,000,000 6,503,899 17,225 6,628,491 1.02 N/M ASF VII, L.P. 2015 10,000,000 0.00 N/M ASF VII, L.P. 2015 10,000,000 600 - 602,765 27,192 526,989 0.92 N/M ASF VII B NYC Co-Invest, L.P. 2015 8,194,482 7,577 0.00 N/M Bridgepoint Europe V, L.P. 2015 16,388,965 0.00 N/M Bridgepoint Europe V Co-Invest 2015 16,388,965 0.00 N/M KEGT VII, L.P. 2015 16,388,965 0.00 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 20,998,304 - 1,913,207 0.91 N/M	CVC Capital Partners VI, L.P.	2013	17,144,363	6,402,538	2,600	5,762,544	0.90	N/M
ASF VI, L.P. ASF VI, L.P. ASF VI NYC Co-Invest, L.P. 2014 2014 5,000,000 2,920,163 423,000 3,144,202 1.22 N/M Centerbridge Capital Partners III, L.P. 2014 2,500,000 551,842 - 591,168 1.07 N/M Crestview Partners III, L.P. 2014 15,000,000 3,434,581 56,712 3,336,253 0.99 N/M Crestview Partners III (Co-Investment B), L.P. 2014 5,000,000 1,676,108 70,233 1,665,694 1.04 N/M Lexington Capital Partners VIII, L.P. 2014 20,000,000 2,620,294 437,484 3,208,408 1.39 N/M Siris Partners III, L.P. 2014 25,000,000 16,878,685 14,945 19,216,049 1.14 N/M NYCBERS - 2012 Emerging Manager Program 2012 25,000,000 6,503,899 17,225 6,628,491 1.02 N/M ASF VII, B. NYC Co-Invest, L.P. 2015 10,000,000 602,765 27,192 526,989 0.92 N/M Bridgepoint Europe V, L.P. 2015 8,194,482 600 1.00 N/M Bridgepoint Europe V Co-Invest Europe V II, L.P. 2015 2015 2015 2015 2015 2016 2015 2015 2016 2015 2016 2015 2016 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	Landmark Equity Partners XV, L.P.	2013	19,000,000	6,215,382	1,754,694	5,408,152	1.15	12.9%
ASF VI NYC Co-Invest, L.P. 2014 5,000,000 2,920,163 423,000 3,144,202 1.22 N/M Centerbridge Capital Partners III, L.P. 2014 2,500,000 551,842 - 591,168 1.07 N/M Crestview Partners III, L.P. 2014 15,000,000 3,434,581 56,712 3,336,253 0.99 N/M Crestview Partners III (Co-Investment B), L.P. 2014 5,000,000 1,676,108 70,233 1,665,694 1.04 N/M Lexington Capital Partners VIII, L.P. 2014 20,000,000 2,620,294 437,484 3,208,408 1.39 N/M Siris Partners III, L.P. 2014 3,500,000 561,062 - 516,643 0.92 N/M Vista Equity Partners Fund V, L.P. 2014 25,000,000 16,878,685 14,945 19,216,049 1.14 N/M NYCBERS - 2012 Emerging Manager Program 2012 25,000,000 6,503,899 17,225 6,628,491 1.02 N/M ASF VII, B.P. 2015 10,000,000 602,765 27,192 526,989 0.92 N/M ASF VII, B.P. 2015 8,194,482 - 5 7,577 0.00 N/M Bridgepoint Europe V, L.P. 2015 16,388,965 - 5 7 0.00 N/M Bridgepoint Europe V Co-Invest Equity XII, L.P. 2015 16,388,965 - 5 7 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 16,388,965 - 5 7 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 16,388,965 - 5 7 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 16,388,965 - 5 7 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Warburg Pincus Private Equity XII, L.P. 2015 10,000,000 2,098,304 - 1,913,207 0.91 N/M	Landmark Equity Partners XV, L.P Side Car	2013	6,000,000	2,515,826	435,707	2,526,115	1.18	14.9%
Centerbridge Capital Partners III, L.P. 2014 2,500,000 551,842 - 591,168 1.07 N/M Crestview Partners III, L.P. 2014 15,000,000 3,434,581 56,712 3,336,253 0.99 N/M Crestview Partners III (Co-Investment B), L.P. 2014 5,000,000 1,676,108 70,233 1,665,694 1.04 N/M Lexington Capital Partners VIII, L.P. 2014 20,000,000 2,620,294 437,484 3,208,408 1.39 N/M Experiment BI, L.P. 2014 3,500,000 561,062 - 516,643 0.92 N/M Vista Equity Partners Fund V, L.P. 2014 25,000,000 16,878,685 14,945 19,216,049 1.14 N/M NYCBERS - 2012 Emerging Manager Program 2012 25,000,000 6,503,899 17,225 6,628,491 1.02 N/M AFF VII, L.P. 2015 10,000,000 0.00 N/M ASF VII, L.P. 2015 10,000,000 602,765 27,192 526,989 0.92 N/M Bridgepoint Europe V, L.P. 2015 6,000,000 600 - 600 - 600 1.00 N/M Bridgepoint Europe V Co-Invest L.P. 2015 16,388,965 0.00 N/M Bridgepoint Europe V Co-Invest L.P. 2015 16,388,965 0.00 N/M BRIDGED V Co-Invest Equity Manager Program 2015 16,388,965 0.00 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Welsh, Carson, Anderson & Stowe XII, L.P. 2015 10,000,000 2,098,304 - 1,913,207 0.91 N/M	ASF VI, L.P.	2014	15,000,000	5,852,156	192,702	6,991,324	1.23	N/M
Crestview Partners III, L.P. 2014 15,000,000 3,434,581 56,712 3,336,253 0.99 N/M Crestview Partners III (Co-Investment B), L.P. 2014 5,000,000 1,676,108 70,233 1,665,694 1.04 N/M Lexington Capital Partners VIII, L.P. 2014 20,000,000 2,620,294 437,484 3,208,408 1.39 N/M Siris Partners III, L.P. 2014 3,500,000 561,062 - 516,643 0.92 N/M Vista Equity Partners Fund V, L.P. 2014 25,000,000 16,878,685 14,945 19,216,049 1.14 N/M NYCBERS - 2012 Emerging Manager Program 2012 25,000,000 6,503,899 17,225 6,628,491 1.02 N/M ASF VII, L.P. 2015 10,000,000 - - - - 0.00 N/M ASF VII, B NYC Co-Invest, L.P. 2015 6,000,000 602,765 27,192 526,989 0.92 N/M Bridgepoint Europe V, L.P. 2015 8,194,482 - -	ASF VI NYC Co-Invest, L.P.	2014	5,000,000	2,920,163	423,000	3,144,202	1.22	N/M
Crestview Partners III (Co-Investment B), L.P. 2014 5,000,000 1,676,108 70,233 1,665,694 1.04 N/M Lexington Capital Partners VIII, L.P. 2014 20,000,000 2,620,294 437,484 3,208,408 1.39 N/M Siris Partners III, L.P. 2014 3,500,000 561,062 - 516,643 0.92 N/M Vista Equity Partners Fund V, L.P. 2014 25,000,000 16,878,685 14,945 19,216,049 1.14 N/M NYCBERS - 2012 Emerging Manager Program 2012 25,000,000 6,503,899 17,225 6,628,491 1.02 N/M ASF VII, L.P. 2015 10,000,000 - - - - 0.00 N/M ASF VII B NYC Co-Invest, L.P. 2015 6,000,000 600 - 600 1.00 N/M Bridgepoint Europe V, L.P. 2015 8,194,482 - - - 0.00 N/M BQT VII, L.P. 2015 16,388,965 - - - - 0.00	Centerbridge Capital Partners III, L.P.	2014	2,500,000	551,842	-	591,168	1.07	N/M
Lexington Capital Partners VIII, L.P. 2014 20,000,000 2,620,294 437,484 3,208,408 1.39 N/M Siris Partners III, L.P. 2014 3,500,000 561,062 - 516,643 0.92 N/M Vista Equity Partners Fund V, L.P. 2014 25,000,000 16,878,685 14,945 19,216,049 1.14 N/M NYCBERS - 2012 Emerging Manager Program 2012 25,000,000 6,503,899 17,225 6,628,491 1.02 N/M Ares Corporate Opportunities Fund V, L.P. 2015 10,000,000 - - - - 0.00 N/M ASF VII, L.P. 2015 10,000,000 602,765 27,192 526,989 0.92 N/M ASF VII B NYC Co-Invest, L.P. 2015 6,000,000 600 - 600 1.00 N/M Bridgepoint Europe V, L.P. 2015 8,194,482 - - - 7,577 0.00 N/M EQT VII, L.P. 2015 16,388,965 - - - -	Crestview Partners III, L.P.	2014	15,000,000	3,434,581	56,712	3,336,253	0.99	N/M
Siris Partners III, L.P. 2014 3,500,000 561,062 - 516,643 0.92 N/M Vista Equity Partners Fund V, L.P. 2014 25,000,000 16,878,685 14,945 19,216,049 1.14 N/M NYCBERS - 2012 Emerging Manager Program 2012 25,000,000 6,503,899 17,225 6,628,491 1.02 N/M Ares Corporate Opportunities Fund V, L.P. 2015 10,000,000 - - - - 0.00 N/M ASF VII, L.P. 2015 10,000,000 602,765 27,192 526,989 0.92 N/M ASF VII B NYC Co-Invest, L.P. 2015 6,000,000 600 - 600 1.00 N/M Bridgepoint Europe V, L.P. 2015 8,194,482 - - 7,577 0.00 N/M EQT VII, L.P. 2015 16,388,965 - - - 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 30,000,000 - - - - - 0.00	Crestview Partners III (Co-Investment B), L.P.	2014	5,000,000	1,676,108	70,233	1,665,694	1.04	N/M
Vista Equity Partners Fund V, L.P. 2014 25,000,000 16,878,685 14,945 19,216,049 1.14 N/M NYCBERS - 2012 Emerging Manager Program 2012 25,000,000 6,503,899 17,225 6,628,491 1.02 N/M Ares Corporate Opportunities Fund V, L.P. 2015 10,000,000 - - - - - 0.00 N/M ASF VII, L.P. 2015 10,000,000 602,765 27,192 526,989 0.92 N/M ASF VII B NYC Co-Invest, L.P. 2015 6,000,000 600 - 600 1.00 N/M Bridgepoint Europe V, L.P. 2015 8,194,482 - - 7,577 0.00 N/M Bridgepoint Europe V Co-Invest 2015 2,731,494 - - - - 0.00 N/M EQT VII, L.P. 2015 30,000,000 - - - - 0.00 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,9	Lexington Capital Partners VIII, L.P.	2014	20,000,000	2,620,294	437,484	3,208,408	1.39	N/M
NYCBERS - 2012 Emerging Manager Program 2012 25,000,000 6,503,899 17,225 6,628,491 1.02 N/M Ares Corporate Opportunities Fund V, L.P. 2015 10,000,000 - - - - - 0.00 N/M ASF VII, L.P. 2015 10,000,000 602,765 27,192 526,989 0.92 N/M ASF VII B NYC Co-Invest, L.P. 2015 6,000,000 600 - 600 1.00 N/M Bridgepoint Europe V, L.P. 2015 8,194,482 - - 7,577 0.00 N/M Bridgepoint Europe V Co-Invest 2015 2,731,494 - - - 0.00 N/M EQT VII, L.P. 2015 16,388,965 - - - 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 30,000,000 - - - 0.00 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M <	Siris Partners III, L.P.	2014	3,500,000	561,062	-	516,643	0.92	N/M
Ares Corporate Opportunities Fund V, L.P. 2015 10,000,000 - - - - 0.00 N/M ASF VII, L.P. 2015 10,000,000 602,765 27,192 526,989 0.92 N/M ASF VII B NYC Co-Invest, L.P. 2015 6,000,000 600 - 600 1.00 N/M Bridgepoint Europe V, L.P. 2015 8,194,482 - - 7,577 0.00 N/M Bridgepoint Europe V Co-Invest 2015 2,731,494 - - - 0.00 N/M EQT VII, L.P. 2015 16,388,965 - - - 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 30,000,000 - - - - 0.00 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Welsh, Carson, Anderson & Stowe XII, L.P. 2015 10,000,000 2,098,304 - 1,913,207 0.91 N/M <td>Vista Equity Partners Fund V, L.P.</td> <td>2014</td> <td>25,000,000</td> <td>16,878,685</td> <td>14,945</td> <td>19,216,049</td> <td>1.14</td> <td>N/M</td>	Vista Equity Partners Fund V, L.P.	2014	25,000,000	16,878,685	14,945	19,216,049	1.14	N/M
ASF VII, L.P. ASF VII B NYC Co-Invest, L.P. Bridgepoint Europe V, L.P. Bridgepoint Europe V Co-Invest 2015 20	NYCBERS - 2012 Emerging Manager Program	2012	25,000,000	6,503,899	17,225	6,628,491	1.02	N/M
ASF VII B NYC Co-Invest, L.P. 2015 6,000,000 600 - 600 1.00 N/M Bridgepoint Europe V, L.P. 2015 8,194,482 - 7,577 0.00 N/M Bridgepoint Europe V Co-Invest 2015 2,731,494 - 7 0.00 N/M EQT VII, L.P. 2015 16,388,965 - 7 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 30,000,000 - 7 0.00 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Welsh, Carson, Anderson & Stowe XII, L.P. 2015 10,000,000 2,098,304 - 1,913,207 0.91 N/M	Ares Corporate Opportunities Fund V, L.P.	2015	10,000,000				0.00	N/M
ASF VII B NYC Co-Invest, L.P. 2015 6,000,000 600 - 600 1.00 N/M Bridgepoint Europe V, L.P. 2015 8,194,482 - 7,577 0.00 N/M Bridgepoint Europe V Co-Invest 2015 2,731,494 - 7 0.00 N/M EQT VII, L.P. 2015 16,388,965 - 7 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 30,000,000 - 7 0.00 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Welsh, Carson, Anderson & Stowe XII, L.P. 2015 10,000,000 2,098,304 - 1,913,207 0.91 N/M	ASF VII, L.P.	2015	10,000,000	602,765	27,192	526,989	0.92	N/M
Bridgepoint Europe V, L.P. 2015 8,194,482 - - 7,577 0.00 N/M Bridgepoint Europe V Co-Invest 2015 2,731,494 - - - - 0.00 N/M EQT VII, L.P. 2015 16,388,965 - - - - 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 30,000,000 - - - - 0.00 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Welsh, Carson, Anderson & Stowe XII, L.P. 2015 10,000,000 2,098,304 - 1,913,207 0.91 N/M	•	2015		•	, -	•	1.00	
Bridgepoint Europe V Co-Invest 2015 2,731,494 - - - - 0.00 N/M EQT VII, L.P. 2015 16,388,965 - - - - 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 30,000,000 - - - - 0.00 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Welsh, Carson, Anderson & Stowe XII, L.P. 2015 10,000,000 2,098,304 - 1,913,207 0.91 N/M	Bridgepoint Europe V, L.P.	2015		-	=	7,577	0.00	N/M
EQT VII, L.P. 2015 16,388,965 - - - - - 0.00 N/M NYCBERS - 2015 Emerging Manager Program 2015 30,000,000 - - - - 0.00 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Welsh, Carson, Anderson & Stowe XII, L.P. 2015 10,000,000 2,098,304 - 1,913,207 0.91 N/M				-	=	, -	0.00	
NYCBERS - 2015 Emerging Manager Program 2015 30,000,000 - - - - 0.00 N/M Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Welsh, Carson, Anderson & Stowe XII, L.P. 2015 10,000,000 2,098,304 - 1,913,207 0.91 N/M	•	2015		-	-	-	0.00	N/M
Warburg Pincus Private Equity XII, L.P. 2015 21,500,000 333,250 1,826 293,948 0.89 N/M Welsh, Carson, Anderson & Stowe XII, L.P. 2015 10,000,000 2,098,304 - 1,913,207 0.91 N/M				-	-	-	0.00	
Welsh, Carson, Anderson & Stowe XII, L.P. 2015 10,000,000 2,098,304 - 1,913,207 0.91 N/M				333,250	1,826	293,948		
					-			-
				-,,	_	-,,,-		

Information provided by the New York City Board of Education Retirement System Consultants

Alternative Assets Manager Performance Detail





	Vintage Year	Original Commitment	Total Contributions	Total Distrubutions	Market Value	Total Value Multiple	Net IRR%
TOTAL REAL ASSETS		322,176,931	225,623,444	43,036,930	242,740,322	1.27	12.3%
TOTAL PRIVATE REAL ESTATE		263,176,931	201,034,381	42,333,079	217,456,212	1.29	12.5%
TOTAL INFRASTRUCTURE		59,000,000	24,589,063	703,851	25,284,110	1.06	8.4%
TOTAL PRIVATE REAL ESTATE							
LaSalle Property Fund	2011	27,600,000	27,600,000	4,440,219	35,927,706	1.46	13.1%
UBS Trumbull Property Fund	2011	41,400,000	53,305,861	9,544,524	69,524,455	1.48	10.5%
Franklin Templeton Private Real Estate Fund	2011	30,000,000	28,750,809	20,217,544	17,135,147	1.30	21.3%
Brookfield Strategic Real Estate Partners	2012	10,000,000	10,372,239	2,491,392	11,081,085	1.31	18.3%
NYC Asset Investor #1 LLC	2013	10,000,000	10,592,679	1,125,793	12,185,660	1.26	24.2%
NYC Asset Investor #2 LLC	2013	11,000,000	9,100,090	1,375,652	9,127,110	1.15	13.9%
NYC Asset Investor #3 LLC	2013	8,000,000	2,024,363	31,308	2,049,249	1.03	2.3%
MetLife Core Property Fund	2014	15,000,000	15,000,000	704,713	16,789,631	N/A	N/A
Blackstone Real Estate Partners VIII	2014	16,500,000	3,153,443	-	3,283,377	N/A	N/A
Carlyle Realty Partners VII	2014	25,000,000	7,742,891	24,780	8,000,338	N/A	N/A
Blackstone Real Estate Partners Europe IV (USD Vehicle)	2015	32,500,000	24,546,977	2,377,154	23,565,918	N/A	N/A
H/2 Special Opportunities Fund III	2015	15,000,000	4,313,210	-	4,232,766	N/A	N/A
European Property Investors Special Opportunities Fund IV (E	2016	11,176,931	564,532	-	562,073	N/A	N/A
USAA Eagle Real Estate Fund	2016	10,000,000	3,967,287	-	3,991,697	N/A	N/A
TOTAL INFRASTRUCTURE							
Brookfield Infrastructure Fund II	2013	10,000,000	5,344,313	616,827	5,817,837	1.20	17.5%
IFM Global Infrastructure	2014	15,000,000	15,032,245	32,245	15,584,896	N/A	N/A
First Reserve Energy Infrastructure Fund II	2014	15,000,000	1,842,528	-	1,597,329	N/A	N/A
KKR Global Infrastructure Investors II L.P.	2014	19,000,000	2,369,977	54,779	2,284,047	N/A	N/A

Information provided by the New York City Board of Education Retirement System Consultants



New York City Board of Education Retirement System

Appendix D

Footnotes

Footnotes

Through March 31, 2016



- The Barclays Capital Aggregate (then known as the Lehman Brothers Aggregate) was used prior to 1/1/89. Effective 1/1/89, in the Government Sector, maturities of less than 5 years were dropped from the Salomon and Lehman indices. From that date until 7/1/99 the benchmark was the NYC Core + 5, from Lehman.
 - Effective 7/1/94, the NYC Core + 5 Index includes BBB rated securities.
 - Effective 7/1/99, the basis of the NYC Index was changed from Lehman Brothers to Salomon. Also effective 7/1/99, only Salomon indices have been used to compare all fixed income managers.
 - Effective 4/1/03, the name of the benchmark provider was changed from Salomon to Citigroup.
 - Effective 7/1/03, the "NYC-Loomis" benchmark index for the Loomis Sayles Enhanced Yield portfolio reflects a change from the Citigroup BB&B Index to the more appropriate BofA Merrill Lynch High Yield Master II Index.
 - Effective 7/1/09, the Core+5 program was restructured.
 - The U.S. Gov't sector benchmark Index was changed from the Citigroup Core+5 Treasury/Gov't Sponsored Index to the Citigroup Core+5 Treasury/Agency Index.
 - The Corporate and Yankee sectors were combined to form the new Investment Grade Credit sector. The benchmark for the new combined sector is the customized Citigroup Credit Index. For historical performance purposes, the old Corporate sector Index is linked to the new Credit sector Index.
 - There were no changes to the Mortgage sector Index.
 - The total Core+5 results and benchmark returns combine the three sectors. Historical total Core+5 returns continue to include the old Corporate and Yankee sector returns.

Glossary of Terms

Through March 31, 2016



General Notes

- Estimated management fees for public market investments are calculated on an accrual basis without adjustment for management fee caps. Alternative investment fees are recorded on a cash basis. Since not all alternative managers currently provide detailed fee disclosure, the alternative investment fees noted here are not comprehensive.
- Public Market returns are Net of Manager Fees for periods after January 2014 and Gross of investment advisory fees for other periods unless otherwise indicated.
- Public market excess returns for periods prior to 2014 are based on Gross performance.

Page Specific

Page 12 & 13 - Portfolio Asset Allocation

 Rebalancing Ranges: the minimum and maximum weights that actual Asset Allocation may reach before rebalancing between Asset Classes is necessary.

Pages 14 - 16 - Performance Attribution: Total Plan

- Plan Return at Policy Weights: the return of the Total Plan assuming actual Asset Class results were maintained at target (Adjusted Policy) weights. Figure = (Return of Asset Class 1* Target Weight) plus (Return Of Asset Class 2* Target Weight) plus (.....)
- Allocation Effect = Total Plan Return minus Plan Return At Adjusted Policy Weights. Allocation is the Contribution to Performance
 resulting from an overweight or underweight to an asset class. E.g. an underweight to an Asset Class that under-performs results in a
 positive Allocation Effect and vice versa.
- Selection Effect = Equal to the Custom Benchmark (Adjusted Policy Index) Return minus Plan Return at Adjusted Policy Weights. This illustrates how the Managers have added or removed value based on their Security Selection decisions, e.g., If the manager's Actual Returns are higher than the Implied Return there will be a positive Selection Effect.

Policy Index = Custom Benchmark

The "policy index" is a custom benchmark representing the weighted average return of the weighted benchmark indexes for each major investment program. Weights may reflect an adjustment of actual policy for outstanding commitments for new or revised programs, such as for private market programs, which are invested gradually, or for any new or updated program requiring the completion of RFPs and contracts. The policy index/custom benchmark is calculated monthly based on adjusted policy weights at the beginning of each month.

Glossary of Terms

Through March 31, 2016



The indexes and most recent policy weights are as follows:

U.S. Equity: Russell 3000 * 36.74%

International Developed (EAFE) Markets: MSCI EAFE * 17.00%

Emerging Markets: MSCI Emerging Markets * 5.00%

Private Equity: Russell 3000 + 300 b.p. per annum * 5.15%

Private Real Estate: NFI - ODCE Net+100BPS * 5.45%

Infrastructure: CPI + 4% * 0.66%

Domestic Fixed Income: NYC Core +5 * 17.00%

TIPS: Lehman U.S. TIPS * 5.00%

Enhanced Yield: Citigroup BB&B * 5.50%

Bank Loans: Credit Suisse Leveraged Loan * 2.50%

Page 17 - Allocation and Selection Effects - Asset Class Breakdown

• This chart aims to break down the Allocation and Selection Effects shown on the Performance Attribution pages. The aim of the Page is to show the asset classes where Managers are either out performing or under performing their benchmark and to show the basis point effect that this is having on Plan performance.