

**New York City**

**Police Officers' Variable Supplements Fund**

**Performance Overview as of December 31, 2012**

# **Total Fund Overview**

# New York City Police Officers' Variable Supplements Fund

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**Equity Analysis**

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**Fixed Income Analysis**

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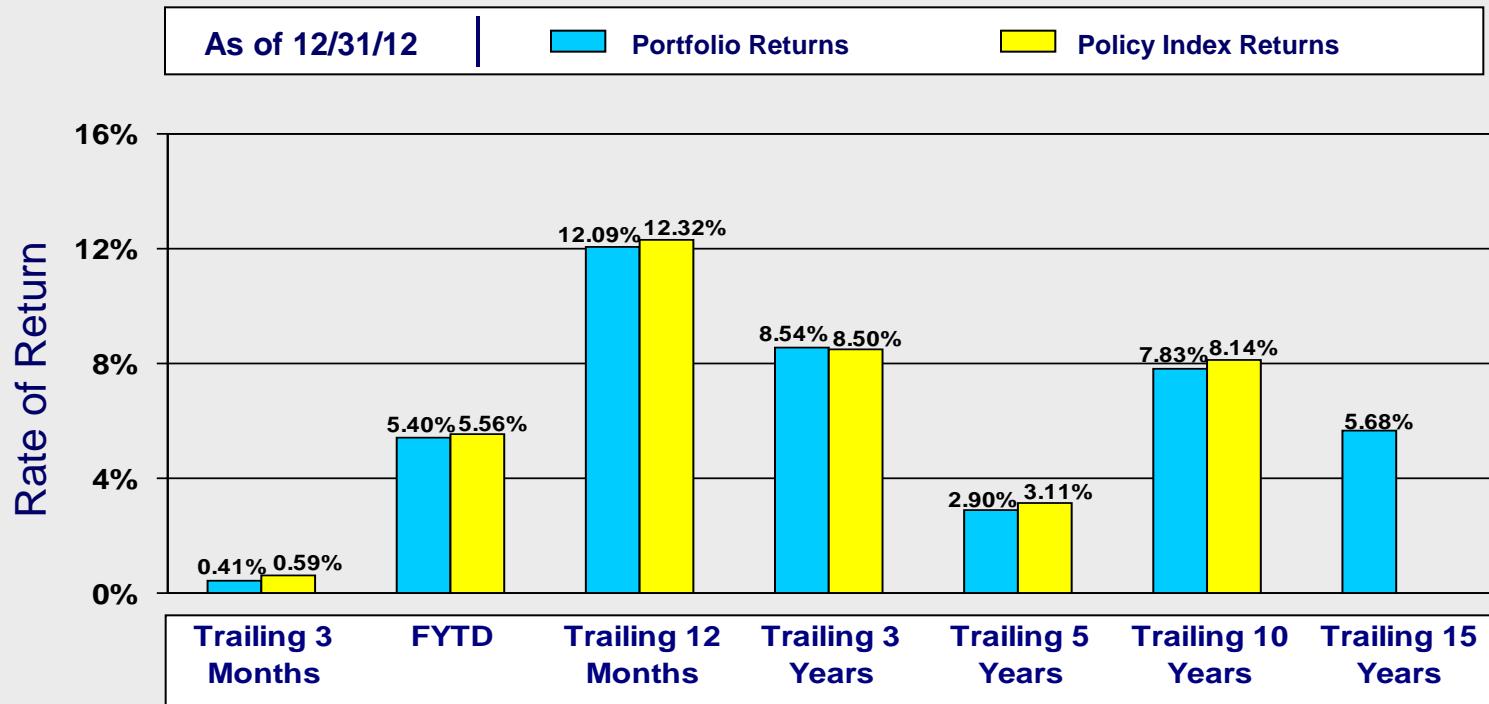
**Appendix**

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# Total Portfolio Returns: December 31, 2012

**\$428M** Under Management



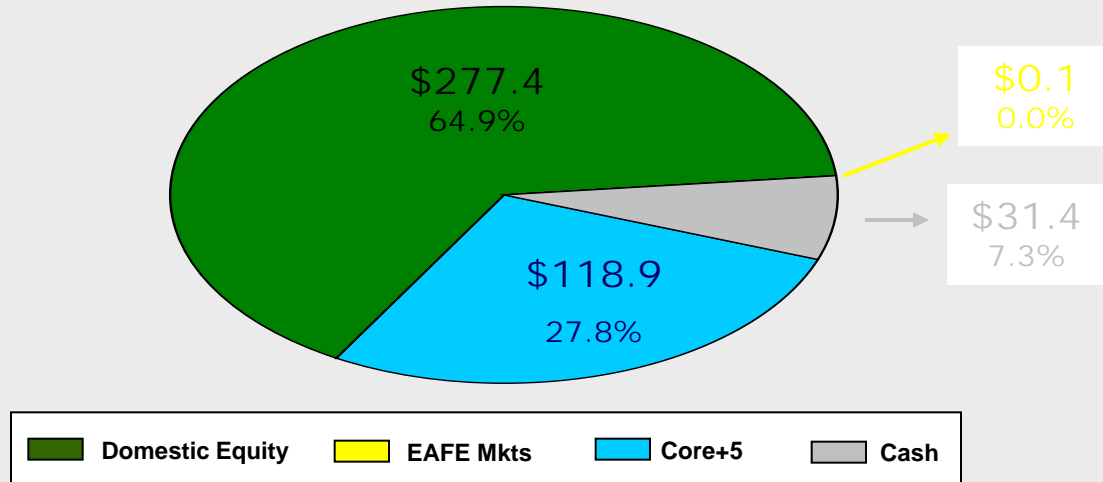
	3 Years	5 Years	10 Years	15 Years
Plan Std Dev	11.0	14.1	11.0	11.5
Benchmark Std Dev	11.4	14.8	11.5	****

All returns in the report are Gross, unless stated otherwise.

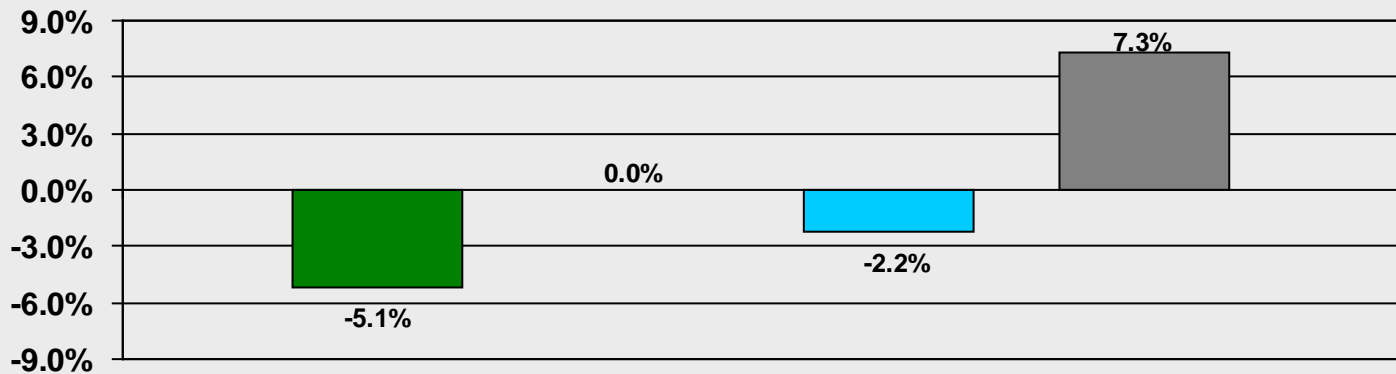
## Portfolio Asset Allocation: December 31, 2012

**\$428M** Under Management

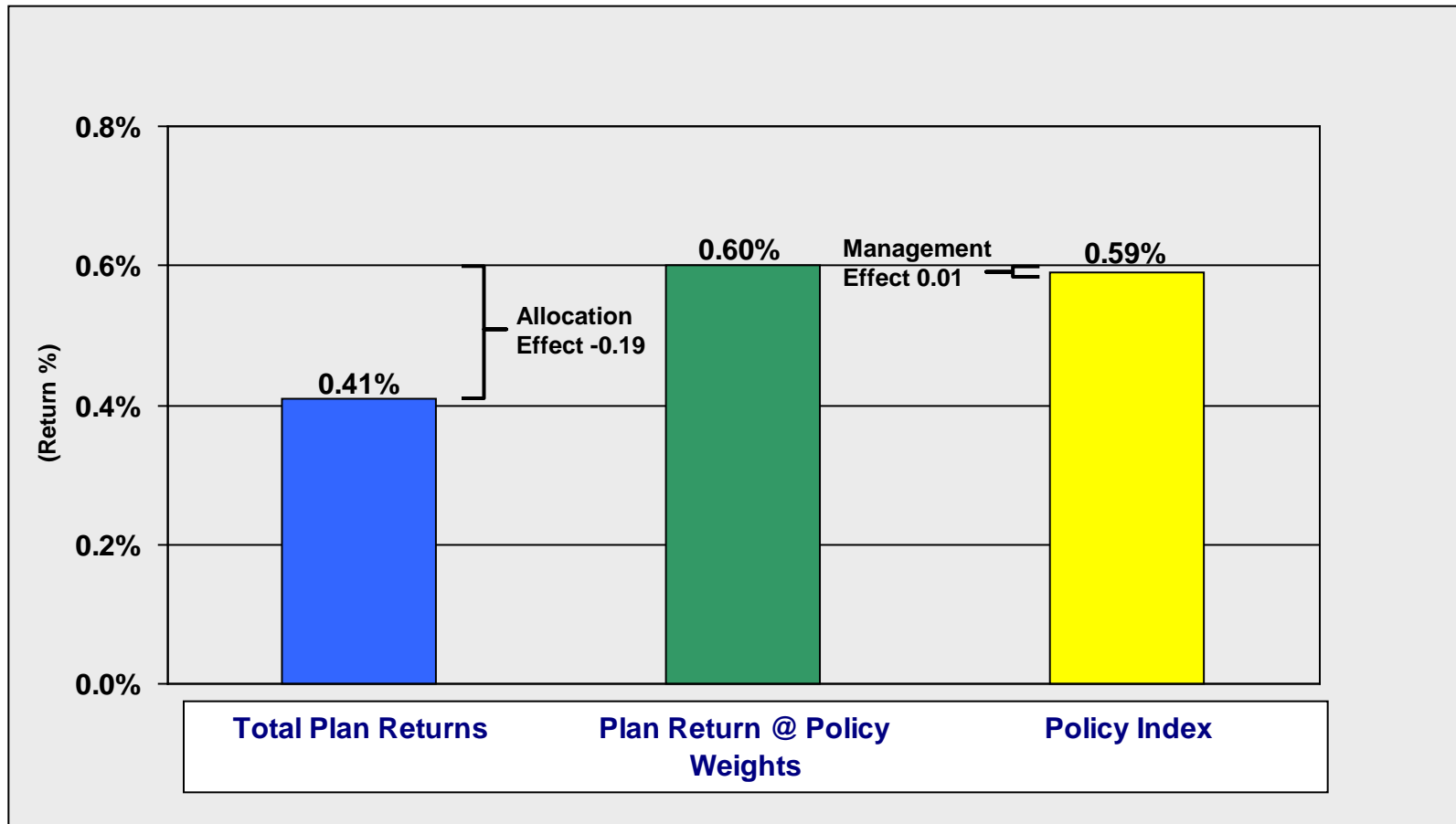
### Asset Allocation



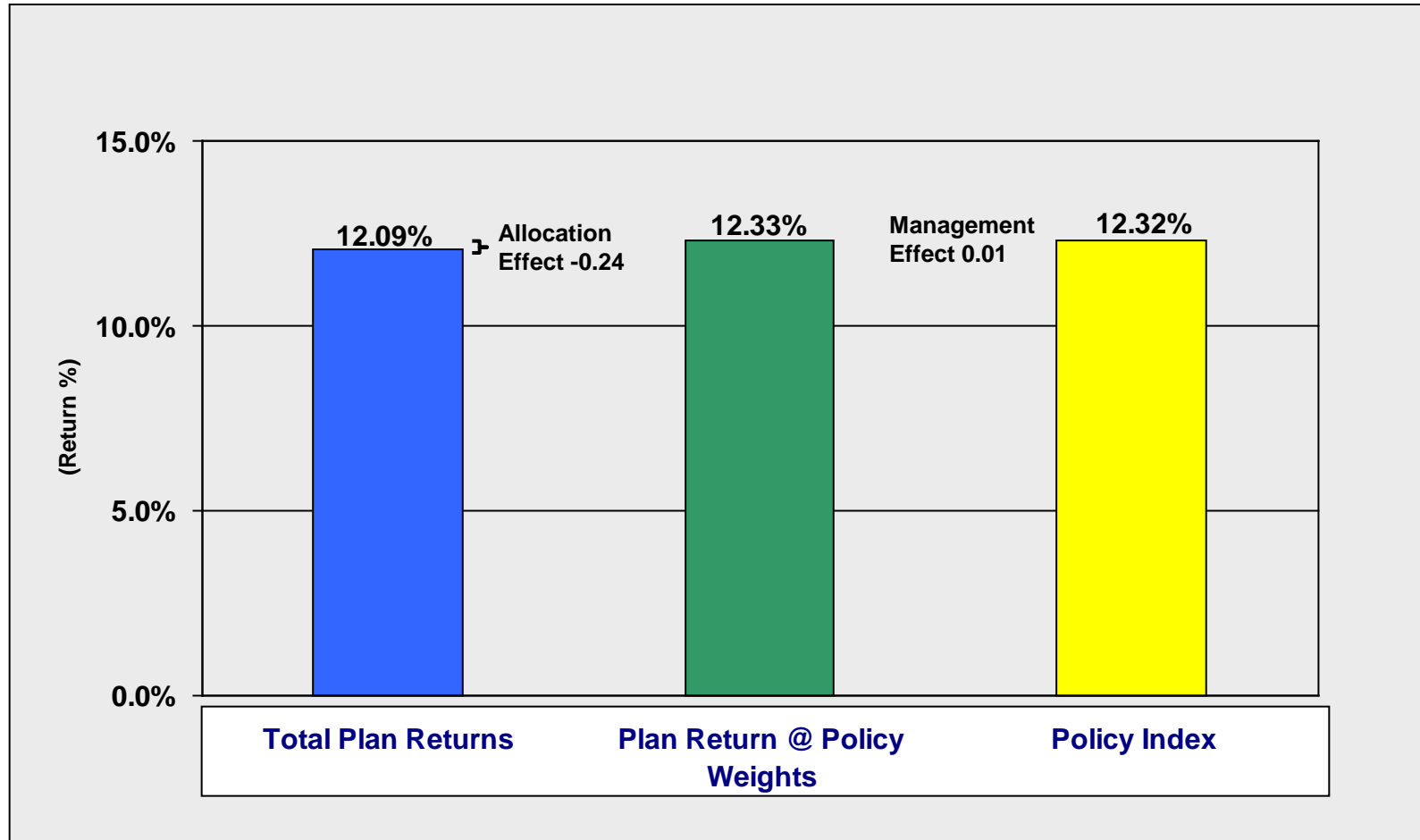
### Relative Mix to Policy Weights



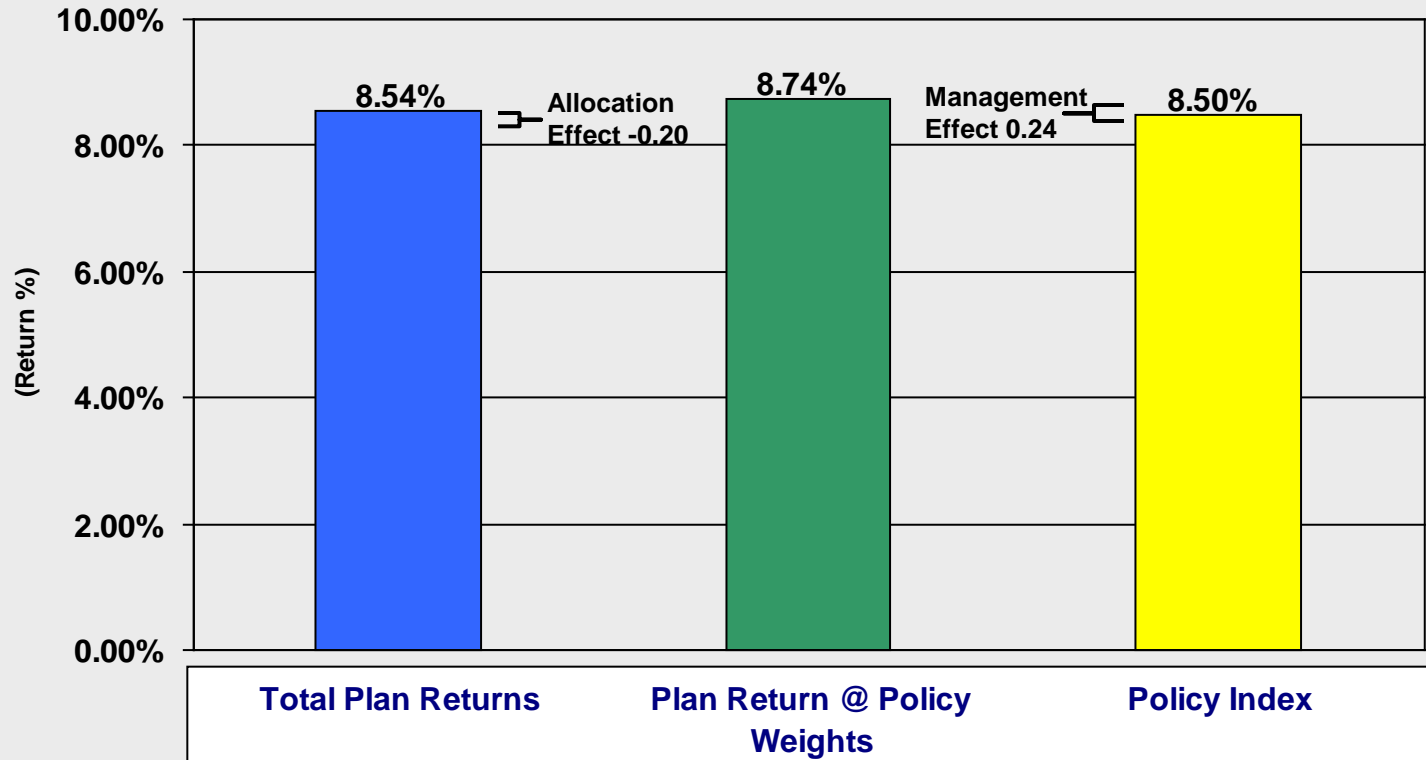
## Performance Attribution: Total Plan – Quarter Ending December 31, 2012



## Performance Attribution: Total Plan – 12 Months Ending December 31, 2012



## Performance Attribution: Total Plan – 3 Years Ending December 31, 2012



## Total Plan: December 31, 2012

### Allocation Effect – Asset Class Breakdown

<u>Plan</u>	<u>Quarter</u>	<u>12 Months</u>	<u>3 Years</u>	<u>Benchmark</u>
Domestic Equity	-0.11	-0.09	-0.08	Russell 3000 Index
EAFE Markets	0.26	0.21	0.08	MSCI EAFE Index
Emerging Markets	-0.04	-0.06	0.04	MSCI Emerging Markets Index
Domestic Fixed	0.10	0.03	-0.11	NYC Core +5 Index
Enhanced Yield	0.00	0.00	1.01	Citigroup BB&B Index
State Street Short Term	-0.16	-0.09	****	Total Plan



## Total Plan: December 31, 2012

### Management Effect – Asset Class Breakdown

<u>Plan</u>	<u>Quarter</u>	<u>12 Months</u>	<u>3 Years</u>	<u>Benchmark</u>
Domestic Equity	0.01	-0.01	0.00	Russell 3000 Index
EAFE Markets	-0.01	-0.02	0.09	MSCI EAFE Index
Emerging Markets	-0.19	-0.28	-0.07	MSCI Emerging Markets Index
Domestic Fixed	0.02	0.11	0.06	NYC Core +5 Index
Enhanced Yield	0.00	0.00	0.02	Citigroup BB&B Index

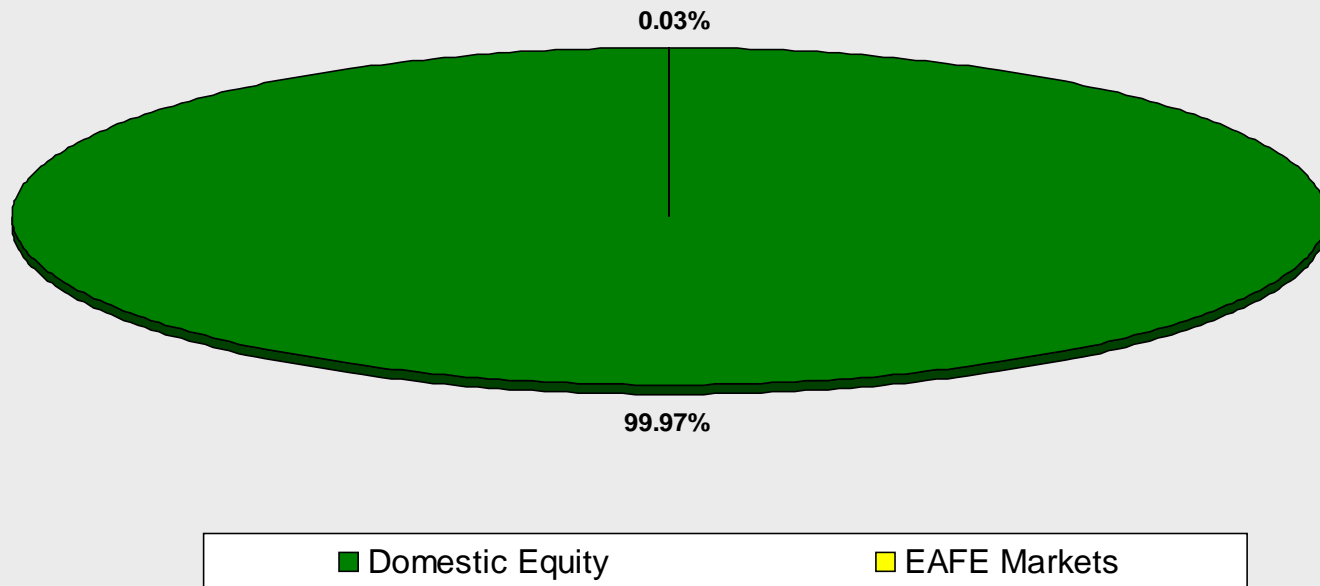
**New York City**  
**Police Officers' Variable Supplements Fund**

# **Equity Analysis**

## Total Equity Asset Allocation: December 31, 2012

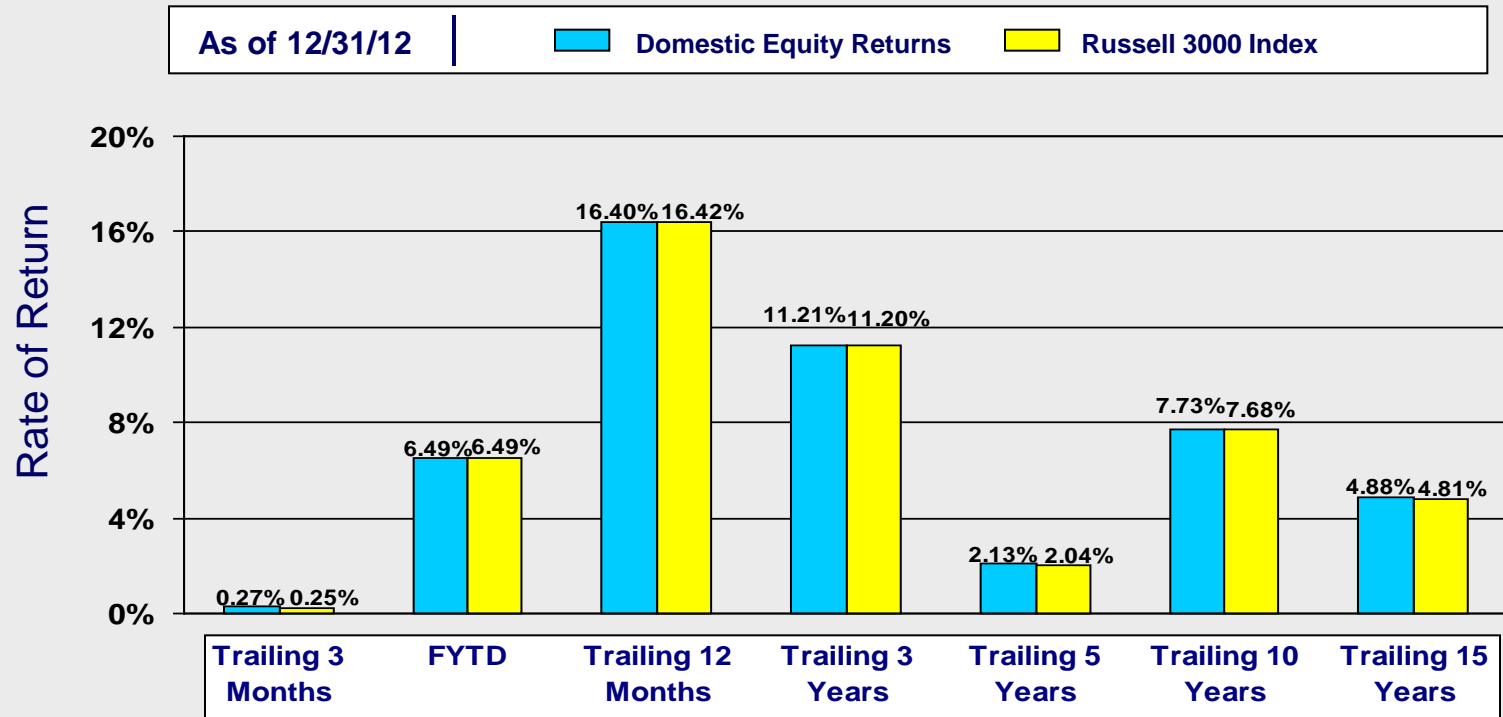
**\$278M** Under Management, **65%** of Total Funds

### Asset Allocation by Groups



# Total Domestic Equity Returns vs Russell 3000 Index

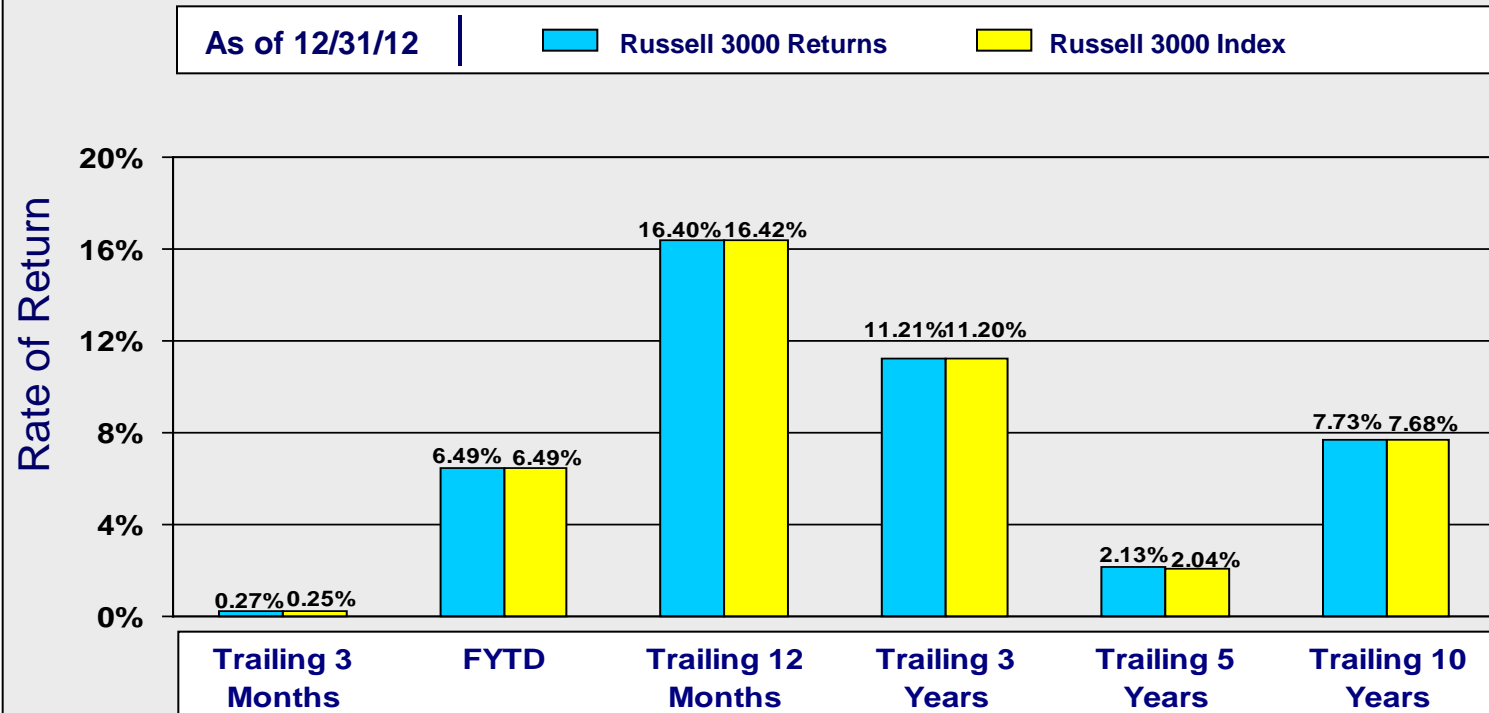
**\$277M** Under Management, **65%** of Total Funds



	3 Years	5 Years	10 Years	15 Years
Plan Std Dev	15.7	19.5	15.2	16.5
Benchmark Std Dev	15.7	19.6	15.3	16.6

## Russell 3000 Index Fund Returns vs Russell 3000 Index

**\$277M** Under Management, **65%** of Total Funds



	3 Years	5 Years	10 Years
Plan Std Dev	15.7	19.5	15.2
Benchmark Std Dev	15.7	19.6	15.3

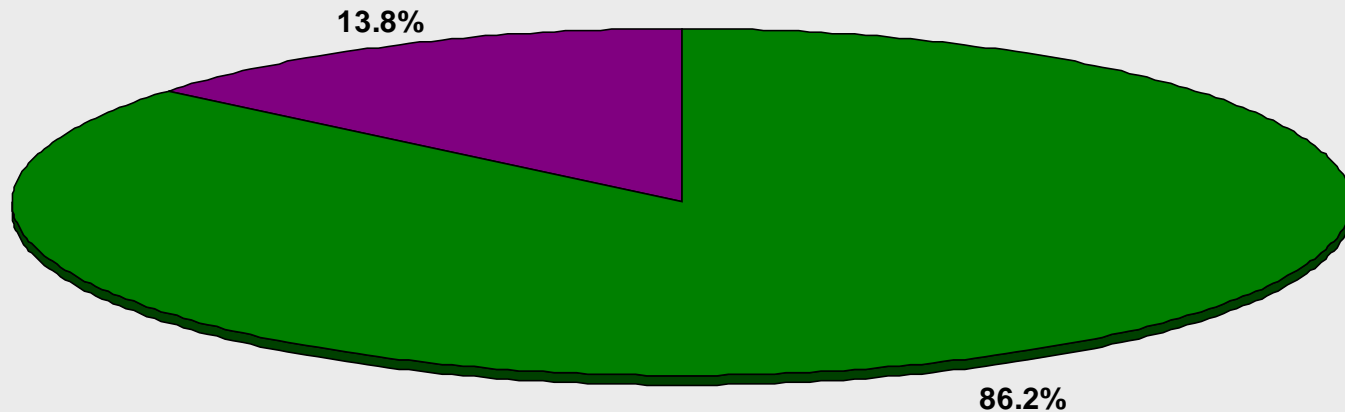
**New York City**  
**Police Officers' Variable Supplements Fund**

# **Fixed Income Analysis**

## Total Fixed Income Asset Allocation: December 31, 2012

**\$138M** Under Management, **32%** of Total Funds

Asset Allocation by Groups



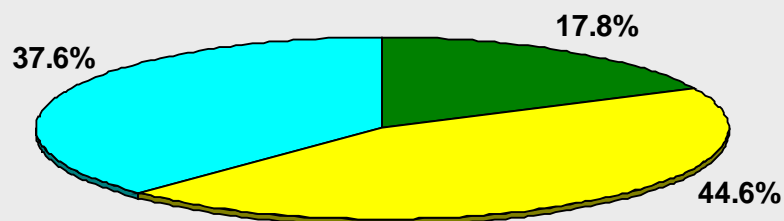
■ Structured Fixed Income

■ Short Term Investments

## Structured Fixed Income Asset Allocation: Quarter Ending December 31, 2012

**\$119M** Under Management, **28%** of Total Funds

### Asset Allocation by Groups



■ Treasury/Agency    ■ Mortgage    ■ Investment Grade Credit

### Value Added by Sectors

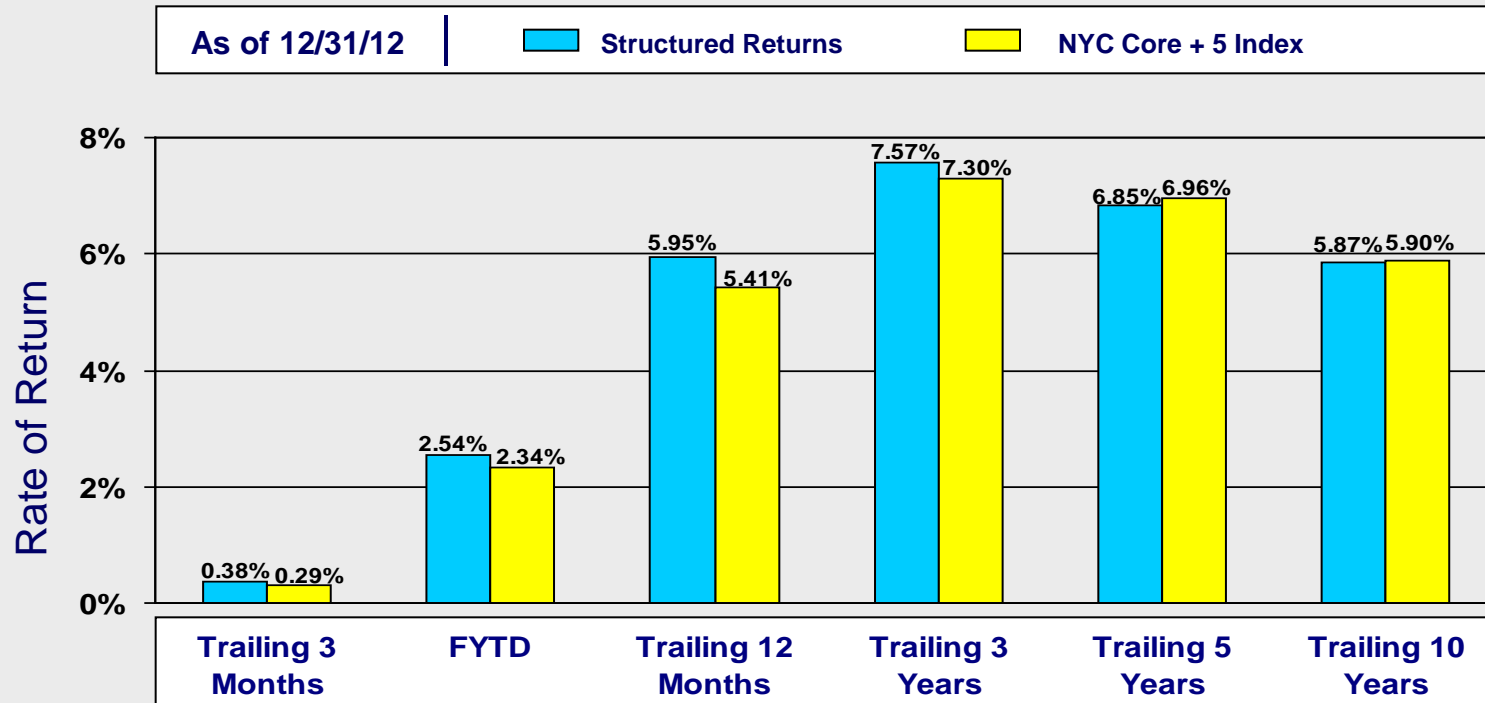
Sub Sector	Policy Weight	Actual Weight	Under/Over Weight	Index Return	Actual Return	Difference	Contribution to Out/Under Performance	
							Allocation	Management
Treasury/Agency	19.93	17.77	-2.16	-0.26	-0.08	0.18	0.01	0.03
Mortgage	40.06	44.57	4.51	-0.22	-0.11	0.11	-0.02	0.05
Investment Grade Credit	40.01	37.66	-2.35	1.09	1.18	0.08	-0.02	0.03

\*NYC Core +5 Breakdown



## Structured Returns vs NYC Core + 5 Index

**\$119M** Under Management, **28%** of Total Funds



	3 Years	5 Years	10 Years
Plan Std Dev	2.7	4.0	4.0
Benchmark Std Dev	2.9	4.4	4.2

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# **Appendix**

# Consolidated Performance Report

Through December 31, 2012

Assets (\$MM)	% Total		3 Mos Oct-12 Dec-12	YTD Jan-12 Dec-12	1 Yr Jan-12 Dec-12	3 Yrs Jan-10 Dec-12	5 Yrs Jan-08 Dec-12	10 Yrs Jan-03 Dec-12	15 Yrs Jan-98 Dec-12
		<b>EQUITY MANAGEMENT</b>							
277.40	64.86	BLACKROCK R3000	0.27	16.40	16.40	11.21	2.13	7.72	****
277.40	64.86	<b>TOTAL DOMESTIC EQUITY</b>	0.27	16.40	16.40	11.21	2.13	7.73	4.88
		RUSSELL 3000	0.25	16.42	16.42	11.20	2.04	7.68	4.81
		<b>INTERNATIONAL EQUITY</b>							
		<b>DEVELOPED MARKETS</b>							
0.03	0.01	BANK OF IRELAND (terminated)	****	****	****	****	****	****	****
0.03	0.01	TRANSITION-EAFE REBALANCE	****	****	****	****	****	****	****
0.06	0.01	<b>TOTAL ACTIVE DEVELOPED MARKETS</b>	****	****	****	****	****	****	****
		MSCI EAFE (NET DIVIDEND)	6.57	17.32	17.32	3.56	-3.69	8.21	4.38
0.07	0.02	<b>TOTAL DEVELOPED MARKETS</b>	****	****	****	****	****	****	****
		MSCI EAFE (NET DIVIDEND)	6.57	17.32	17.32	3.56	-3.69	8.21	4.38
0.07	0.02	<b>TOTAL INTERNATIONAL EQUITY</b>	****	****	****	****	****	****	****
277.46	64.87	<b>TOTAL EQUITY - PUBLIC &amp; PRIVATE</b>	0.70	15.57	15.57	9.07	0.57	8.14	5.23

# Consolidated Performance Report

Through December 31, 2012

Assets (\$MM)	% Total		3 Mos Oct-12 Dec-12	YTD Jan-12 Dec-12	1 Yr Jan-12 Dec-12	3 Yrs Jan-10 Dec-12	5 Yrs Jan-08 Dec-12	10 Yrs Jan-03 Dec-12	15 Yrs Jan-98 Dec-12
<b>FIXED INCOME MANAGEMENT</b>									
<b>TREASURY / AGENCY</b>									
21.12	4.94	PIMCO -GOVT	-0.08	4.67	4.67	10.64	****	****	****
21.12	4.94	ALL TREASURY / AGENCY	-0.08	4.67	4.67	10.64	8.23	6.70	****
		NYC - TREASURY AGENCY PLUS FIVE	-0.26	3.84	3.84	10.34	8.13	6.61	****
<b>MORTGAGE</b>									
52.98	12.39	PIMCO -MORT	-0.11	3.02	3.02	5.43	****	****	****
52.98	12.39	ALL MORTGAGE	-0.11	2.96	2.96	5.44	5.47	5.00	****
		CITIGROUP MORTGAGE INDEX	-0.22	2.60	2.60	4.81	5.72	5.13	****
<b>INVESTMENT GRADE CREDIT</b>									
44.77	10.47	BLACKROCK - CREDIT	1.18	10.48	10.48	9.15	7.48	6.36	****
44.77	10.47	ALL INVESTMENT GRADE CREDIT	1.18	10.48	10.48	8.98	7.39	6.31	****
		NYC - INVESTMENT GRADE CREDIT	1.09	9.52	9.52	8.56	7.39	6.17	****
118.87	27.79	TOTAL STRUCTURED	0.38	5.95	5.95	7.57	6.85	5.87	****
		NYC - CORE PLUS FIVE	0.29	5.41	5.41	7.30	6.96	5.90	****
137.88	32.24	TOTAL FIXED INCOME	0.34	4.87	4.87	7.26	6.96	6.39	6.27
12.32	2.88	SECURITIES LENDING	****	****	****	****	****	****	****
19.01	4.44	STATE STREET SHORT TERM	0.07	0.28	0.28	0.80	1.26	2.29	3.46
0.05	0.01	BNY-MELLON - CD	****	****	****	****	****	****	****
427.71	100.00	TOTAL POLICE OFFICERS	0.41	12.09	12.09	8.54	2.90	7.83	5.68
		POLICE OFFICERS POLICY BENCHMARK	0.59	12.32	12.32	8.50	3.11	8.14	****

## Securities Lending Income

Through December 31, 2012

	U.S. <u>FIXED INCOME</u>	U.S. <u>EQUITY</u>	INTERNATIONAL <u>EQUITY</u>
2001	252,000	116,000	81,000
2002	139,000	72,000	82,000
2003	51,000	77,000	131,000
2004	91,000	115,000	126,000
2005	198,000	228,000	179,000
2006	169,000	305,000	180,000
2007	333,000	495,000	165,000
2008	873,000	881,000	201,000
2009	276,000	581,000	125,000
2010	85,000	243,000	80,000
2011	80,000	255,000	91,000
2012	38,000	271,000	47,000

## Footnotes

### Through December 31, 2012

- Effective 4/1/03, the name of the Core +5 benchmark index 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 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 December 31, 2012

### General Notes

- All Returns are Gross of investment advisory fees unless otherwise indicated.

### Page Specific

#### Page 4 - Portfolio asset Allocation

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

#### Page 5 - 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.
- **Management Effect** = 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.
- **Policy Index = Custom Benchmark**  
The "policy Index" is a custom benchmark representing the weighted average return of the 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. The indexes and most recent adjusted policy weights are as follows:  
**U.S. Equity:** Russell 3000 \* 70%  
**Domestic Fixed Income:** NYC Core +5 \* 30%

# Glossary of Terms

## Through December 31, 2012

### Page 9 - Management Effect - Asset Class Breakdown

- This chart aims to break down the Management Effect 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.

### Page 16 – Structured Fixed Income Asset Allocation

- **Value Added By Sectors:** This disaggregates out-performance or under-performance by Asset Allocation and Management Effect.
- **Implied Policy** = Retirement's System Asset Allocation.
- **Implied Return** = Benchmark Return
- **Allocation** = 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 rests in a positive Allocation Effect and vice versa.*
- **Management** = Contribution to Performance from security selection versus the Benchmark, e.g., *If the managers Actual Returns are higher than the Implied Return there will be a positive Management Effect.*