



London Borough of Hillingdon

Investment Risk & Analytical Services

September 30, 2016

Table of Contents

Section 1. London Borough of Hillingdon	3
1.1. <u>Client Commentary</u>	3
1.2. <u>Client Commentary (cntd)</u>	4
1.3. <u>Executive Summary</u>	5
1.4. <u>Investment Hierarchy</u>	6
1.5. <u>Investment Hierarchy(2)</u>	7
1.6. <u>Market Value Summary - Three Months</u>	8
1.7. <u>Historical Performance</u>	9
1.8. <u>Benchmark Composition</u>	13
Section 2. Appendix	14
2.1. <u>Disclaimer(s)</u>	14

Client Commentary

Total Scheme Commentary

As the quarter drew to a close OPEC agreed the first production cut in 8 years, boosting crude prices and energy stocks as well as oil exporting emerging markets. Overall it was a better quarter for equity markets, especially the US and Europe; while “Brexit Bounce” was hailed as the reason that UK equity markets ended Q3 ahead of their levels on referendum day despite the widely predicted catastrophe. Manufacturing continues to drag on the economy despite the falling exchange rate and a rebound in August. The UK unemployment rate fell to 4.9%, down from 5.5% over 1 year. UK Technology massively outperformed the other sectors over quarter three and the last year. Telecoms was the worst sector over 3 months and Financials gained least over one year. The FTSE All Share was up 7.8% over the third quarter and is now ahead over one year by 16.8%. The Fed was split 7-3 but left rates unchanged, although they look set to rise by the year end. Hiring and wage growth both lagged in August and growth in the Services sector dropped to its lowest in 6 years. US imports from China dropped during the quarter in a worrying turn for the main source of growth for emerging markets. Globally, Technology gained most value over both the quarter and the year, while Utilities lost most over the third quarter. The FTSE World was up by 8.3% (GBP) over quarter three 2016 and returned 31.2% (GBP) over the year. While the JP Morgan Government Bond Index returned 3.08% for the quarter and the Barclays Global Aggregate index returned 3.75%.

Against this backdrop the London Borough of Hillingdon returned 5.96% which leads to an outperformance of 77 basis points against the Total Plan benchmark of 5.16%. In monetary terms this is a growth in assets of £50.4 million and the value of the combined scheme now stands at £896.6 million as at 30th September 2016. This period £7.6 million was disinvested from the Newton global equity mandate and placed with AEW UK, while £2.5 million of distributions from Private Equity and M&G was transferred to Macquarie and the Cash Account. Looking further into the analysis the results seen were driven by selection effects, the most notable being Ruffer’s impact of 67 bps, with UBS UK Equity adding a further 34 bps, this was partly offset by Newton, detracting -26 bps. While within allocation, there is a negative impact the most significant being underweight State Street Gilts, while overweighting Premira.

Continuing on from the a good start to 2016 the Scheme is ahead of the benchmark by 1.21% over the rolling one year period, coming from a return of 17.19% against the benchmark of 15.78%. The largest impact once again comes from selection in Ruffer (+1.19%) coupled with Macquarie (+0.54%), although these are slightly offset by the negative effects in Adam Street (-34 bps) and Premira (-21 bps). Similar to the quarter allocation has a negative impact coming from underweighting State Street Gilts and Newton, while overweighting Premira. While over the longer periods, the Scheme continues to outperform, producing a return of exactly 9% over three year versus 8.59%, while for 5 years we see figures of 10.22% versus 9.56% per annum. Then since inception in September 1995, the Fund remains ahead of target by 12 basis points with an annualised return of 7.07% against 6.94%.

Manager Commentary

AEW UK

In the latest period AEW UK Property wiped out all the previous quarter’s absolute gains by returning -2.25%, relatively this is a -2.93% underperformance when compared to the IPD UK PPF All Balanced Funds index figure of 0.70%. However, with positive absolute returns in every other period since inception and only three quarters in the red on a relative basis, growth ahead of benchmark is seen in all longer periods. For the rolling one year a return of 5.89% against the benchmark of 4.76% translates as a 1.07% relative return. Then in the short period since inception in June 2014, the fund return is 10.92%, leading to an outperformance of 0.57% when compared to the IPD figure of 10.29%.

GMO Global

In the third quarter the GMO Global mandate produced both it’s highest absolute and relative returns with a growth of 3.16% leading to an outperformance of 2.99% when measured against the OECD CPI G7 (GBP) Index figure of 0.16%. This feeds into the full year numbers, with figures of 4.83% versus 0.98%, this generates an outperformance of 3.81%. However, driven by the Q3 2015 results, in the short period since the start of November 2014 when the fund inceptioned, a return of -0.47% against the benchmark of 0.63% leads to a shortfall of -1.10%.

JP Morgan

During the latest quarter JP Morgan produced their best figures since the first period of investing in Q1 2012 with growth of 3.08% leading to an outperformance of 2.15% when compared to the 0.91% target for the 3 Month LIBOR + 3% p.a. Coupled with the good results in the previous periods, longer time periods are all ahead of target, they exhibit outperformance of 5.29% and 0.72% over the one and three years respectively. While since November 2011 their return of 4.18% is 51 basis points above the target return of 3.64% on an annualised basis.

London CIV Ruffer

This quarter the London CIV Ruffer portfolio produced a 6.21% return, compared to the LIBOR 3 Month GBP figure of 0.16%, this demonstrates the highest relative return this period of 6.05%. This is now four consecutive quarters of positive absolute and relative returns, meaning the one year period exhibits a growth of 11.68% against the target of 0.61%. Then with only 2 quarter’s in the red in the last four years, outperformance remains in the longer periods. This is seen in a three year return of 6.71% versus 0.57% increasing to 7.41% against 0.66% over five years, culminating in since inception (May 2010) figures of 6.66% versus 0.68% per annum, which translates as a relative return of 5.94%.

Client Commentary (cntd)

Manager Commentary

M&G Investments

Over the last three months M&G posted a return of 1.40%, this is 31 basis points above the 3 Month LIBOR +4% pa target of 1.09%. Driven by the previous quarter's good result, all longer periods are ahead of target, leading to one year figures of 6.53% against 4.55%. Over the three and five year the account registers figures of 6.80% vs 4.56% and 6.44% vs 4.64% respectively; since inception (May 2010) return falls slightly to 5.95% pa whilst the benchmark is 4.68% pa. Although the since inception Internal Rate of Return moves further ahead of target with a figure of 6.66% opposed to the comparator of 4.43%.

Macquarie

In the latest quarter, Macquarie produced a growth of 4.71%, against the 0.85% for the 3 Month LIBOR +3% pa translates as an outperformance of 3.83%. With nine consecutive quarters of positive absolute and relative returns the one year return of 29.59% beats the target of 3.55% by 25.15%, the highest relative return over this period. Then while three and five years remain ahead, they fall below the target since inception (September 2010), a shortfall of -0.30%, derived from a return of 3.35% against the target of 3.67%. Although the since inception Internal Rate of Return for this portfolio jumps to 13.12%, which is ahead of the benchmark figure of 3.58%.

Newton

In the third quarter of 2016 Newton produced a return of 6.93%, although this was a relative return of -1.74% when compared to the 8.83% seen for the FTSE World Index +2%. Driven by the good results seen in Q1, they still post outperformance of 3.69% over one year, this is generated from the highest absolute return of the period at 38.33% against 33.41%. Although with nine underperforming quarters over the last twelve the three year return falls just short with figures of 15.87% versus 16.02%; then since inception in January 2013, the fund return of 14.94% falls short of the yardstick of 15.54% by -51 basis points.

Private Equity

Over the latest period private equity assets show positive absolute returns, LGT continued their 3 year run of growth with a figure of 5.93%, while Adam Street posted 6.15%. Over the longer periods, the outlook over which private equity investments should be measured, returns remain positive. Over one and three years they both exhibit some of the highest returns (only matched by Macquarie and UBS Property), Adam Street posts 18.16% and 21.32%, while LGT is 32.51% and 17.39% respectively. While over five years both see a slight fall with Adam Street at 14.41%, while LGT posts 12.29%. Then since their respective inceptions in January 2005 and May 2004, Adam Street drops to 6.24% pa, while LGT sees a slight dip to 10.43%.

At present no benchmark has been applied to these mandates.

Manager Commentary

Premira Credit

The Premira Credit Fund saw growth for the first time in 2016, meaning their 4.23% return compares favourably with the 3 Month LIBOR +4% p.a. target of 1.13% over the quarter, and the 3.39% seen for the year to date. Driven by the Q4 2015 results, the one year is well below target with figures of -6.94% versus 4.55%. However, comparable analysis will only be seen over a longer period, since the start of December 2014 when the fund incepted, the fund posts a return of 9.89%, while the benchmark shows 4.48%.

SSGA

The passive SSGA portfolio produced a quarterly return of 8.39%, just -3 basis points below the benchmark; further analysis confirms the passive nature with all categories aligned with their respective indices. So over the year they produce a 22.17% return, which falls -7 basis points short of the target, while over 3 years the return drops back to 9.66% pa which is just -4 basis points behind the benchmark. Since inception (November 2008) a return of 11.95% pa which exactly matches the benchmark, the passive nature is also demonstrated by the R squared and beta figures of 1, while the tracking error is just 0.22.

State Street Gilts

In the latest quarter the State Street Gilts mandate produced the highest absolute return seen this period, standing at 12.91%, just -2 basis points down on the FTSE Index Linked Gilts 15+ years Index. Then in the short period since the inception of the fund on the 4th March 2016, produce a return of 30.05%, which is -8 basis points below the index.

UBS

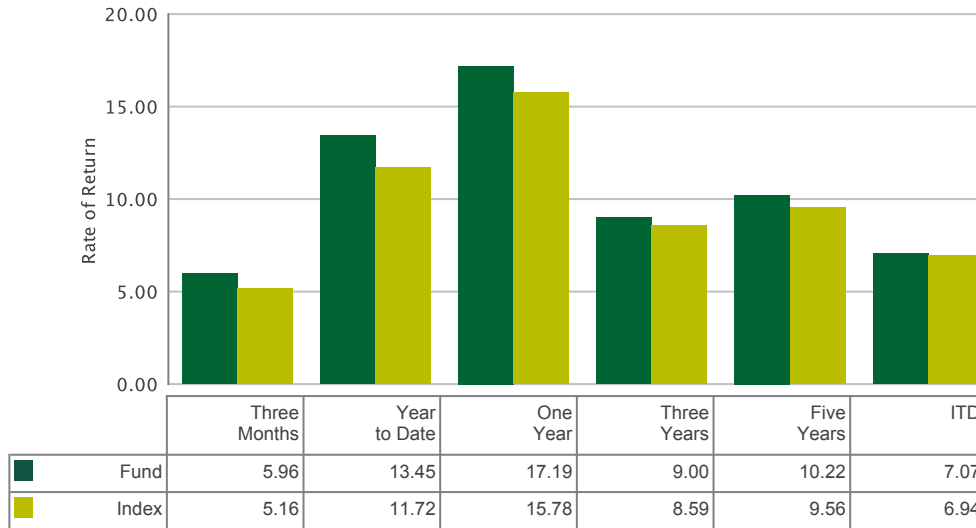
During Q3 the UBS UK Equity investments returned of 10.73% compared to the FTSE All Share figure of 7.78%, generating an outperformance of 2.74%. Looking into the attribution analysis, selection was the main driver with all but one sector showing positive effects, the most notable being the 0.79% from Basis Materials; within allocation, the slight positive impact came from overweighting Basis Materials (0.78%), however this effect was negated by also overweighting Oil & Gas (-0.49%). This feeds into the rolling one year, with figures of 20.28% vs 16.82% leading to a relative return of 2.96%. This is attributable to both allocation and selection, again the biggest impacts come from both overweighting Basis Materials (1.91%) and selection in the sector (1.79%); while the largest negative impact came from stock-picking in Financials (-0.81%). UBS fall short over the three year period, but then due to the previous good results, especially in 2013, maintain outperformance over the longer time periods, translating as a since inception return of 9.97% versus 8.80% on an annualised basis.

UBS Property

Over the latest period the UBS Property assets fell for the second consecutive quarter with a figure of -1.11%, which against the IPD UK PPF All Balanced Funds index figure of -0.70%, translates as a relative return of -0.42%. With the previous good run of results, high absolute returns staying ahead of the IPD target remain over the longer periods, peaking over the three year with a return of 13.39% against 11.35%. Then since inception, in March 2006, the fund return falls to 3.38% per annum while the benchmark shows 3.15%, translating as an outperformance of 22 basis points.

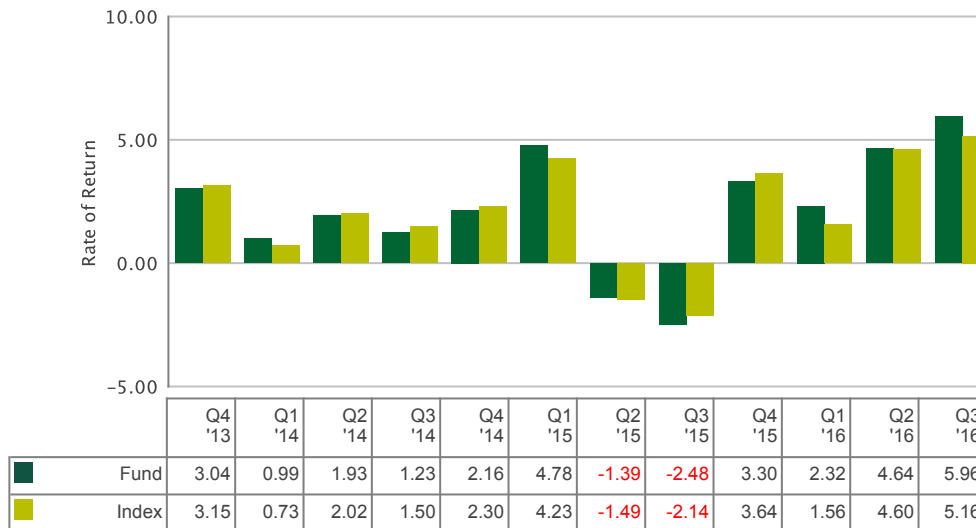
Executive Summary

LONDON BOROUGH OF HILLINGDON TOTAL FUND GROSS OF FEES



Index: Total Plan Benchmark

LONDON BOROUGH OF HILLINGDON ROLLING QUARTERS TOTAL FUND GROSS OF FEES



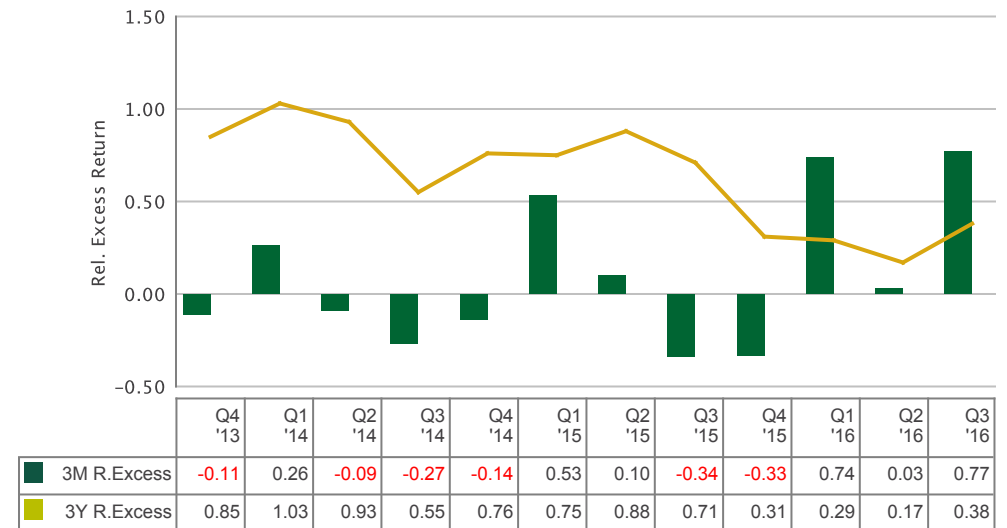
Index: Total Plan Benchmark

Risk Statistics	3 Yrs	5 Yrs
Return	9.00	10.22
Index Return	8.59	9.56
Excess Return	0.42	0.66
Standard Deviation	4.93	5.34
Index Standard Deviation	4.82	5.09
Tracking Error	1.09	1.09
Information Ratio	0.38	0.60
Sharpe Ratio	1.69	1.76
Index Sharpe Ratio	1.65	1.72
Sortino Ratio	-	3.16
Treynor Ratio	8.35	9.14
Jensen's Alpha	0.40	0.39
Relative Volatility (Beta)	1.00	1.03
R Squared	0.95	0.96

Index: Total Plan Benchmark. Risk Free Index: JP Morgan 3 month Cash (GBP)

Category: Total Fund Gross of Fees.

LONDON BOROUGH OF HILLINGDON ROLLING QUARTERS TOTAL FUND GROSS OF FEES



Index: Total Plan Benchmark

Investment Hierarchy

Account/Group -% Rate of Return	Ending Market Value GBP	Ending Weight	Three Months			Year to Date			One Year		
			Port	Index	Relative Excess	Port	Index	Relative Excess	Port	Index	Relative Excess
London Borough of Hillingdon	896,605,688	100.00	5.96	5.16	0.77	13.45	11.72	1.55	17.19	15.78	1.21
Total Plan Benchmark											
AEW UK	45,137,548	5.03	-2.25	0.70	-2.93	2.94	1.91	1.02	5.89	4.76	1.07
LBH22 AEW Benchmark											
GMO Global	61,075,639	6.81	3.16	0.16	2.99	3.40	1.36	2.00	4.83	0.98	3.81
LBH23 GMO Global											
JP Morgan	38,822,913	4.33	3.08	0.91	2.15	8.44	2.71	5.58	9.10	3.62	5.29
LBH15 BM JP Morgan BM											
London CIV Ruffer	102,365,365	11.42	6.21	0.15	6.05	10.40	0.46	9.89	11.68	0.61	11.01
LBH11 Ruffer Benchmark											
M&G Investments	41,202,749	4.60	1.40	1.09	0.31	6.29	3.39	2.80	6.53	4.55	1.90
LBH10 3 Month Libor GBP +4%Pa											
Macquarie	25,013,473	2.79	4.71	0.85	3.83	25.01	2.64	21.79	29.59	3.55	25.15
LBH14 Macquarie Libor +3%											
Newton	127,019,877	14.17	6.93	8.83	-1.74	25.46	22.97	2.02	38.33	33.41	3.69
LBH19 FTSE World Index +2%											
Premira Credit	29,402,350	3.28	4.23	1.09	3.10	4.23	3.39	0.81	-6.94	4.55	-10.99
LBH24 Premira											
SSGA	182,451,958	20.35	8.39	8.42	-0.03	16.89	17.00	-0.09	22.17	22.26	-0.07
LBH07 SSGA Benchmark											
State Street Gilts	27,969,143	3.12	12.91	12.93	-0.02	-	-	-	-	-	-
LBH25 FTSE Index Linked											
UBS	113,602,022	12.67	10.73	7.78	2.74	17.54	12.38	4.59	20.28	16.82	2.96
LBH04 UBS Benchmark											
UBS Property	70,107,135	7.82	-1.11	-0.70	-0.42	-0.29	0.49	-0.78	6.90	3.31	3.48
LBH06 UBS Property Benchmark											
Adam Street	19,034,640	2.12	6.15	-	-	17.90	-	-	18.16	-	-
LGT	10,558,250	1.18	5.93	-	-	26.57	-	-	32.51	-	-

Investment Hierarchy(2)

Account/Group -% Rate of Return	Three Years			Five Years			Inception to Date			Inception Date
	Port	Index	Relative Excess	Port	Index	Relative Excess	Port	Index	Relative Excess	
London Borough of Hillingdon Total Plan Benchmark	9.00	8.59	0.38	10.22	9.56	0.60	7.07	6.94	0.12	30/09/1995
AEW UK LBH22 AEW Benchmark	-	-	-	-	-	-	10.92	10.29	0.57	30/06/2014
GMO Global LBH23 GMO Global	-	-	-	-	-	-	-0.47	0.63	-1.10	31/10/2014
JP Morgan LBH15 BM JP Morgan BM	4.34	3.59	0.72	-	-	-	4.18	3.64	0.51	08/11/2011
London CIV Ruffer LBH11 Ruffer Benchmark	6.71	0.57	6.11	7.41	0.66	6.71	6.66	0.68	5.94	28/05/2010
M&G Investments LBH10 3 Month Libor GBP +4%Pa	6.80	4.56	2.14	6.44	4.64	1.72	5.95	4.68	1.21	31/05/2010
Macquarie LBH14 Macquarie Libor +3%	16.73	3.56	12.72	3.84	3.64	0.19	3.35	3.67	-0.30	30/09/2010
Newton LBH19 FTSE World Index +2%	15.87	16.02	-0.13	-	-	-	14.94	15.54	-0.51	24/01/2013
Premira Credit LBH24 Premira	-	-	-	-	-	-	9.89	4.48	5.17	30/11/2014
SSGA LBH07 SSGA Benchmark	9.66	9.71	-0.04	11.95	12.02	-0.07	11.95	11.96	-0.00	30/11/2008
State Street Gilts LBH25 FTSE Index Linked	-	-	-	-	-	-	30.05	30.15	-0.08	04/03/2016
UBS LBH04 UBS Benchmark	6.10	6.59	-0.45	13.30	11.05	2.03	9.97	8.80	1.07	31/12/1988
UBS Property LBH06 UBS Property Benchmark	13.39	11.35	1.84	9.12	7.94	1.09	3.38	3.15	0.22	31/03/2006
Adam Street	21.32	-	-	14.41	-	-	6.24	-	-	31/01/2005
LGT	17.39	-	-	12.29	-	-	10.43	-	-	31/05/2004

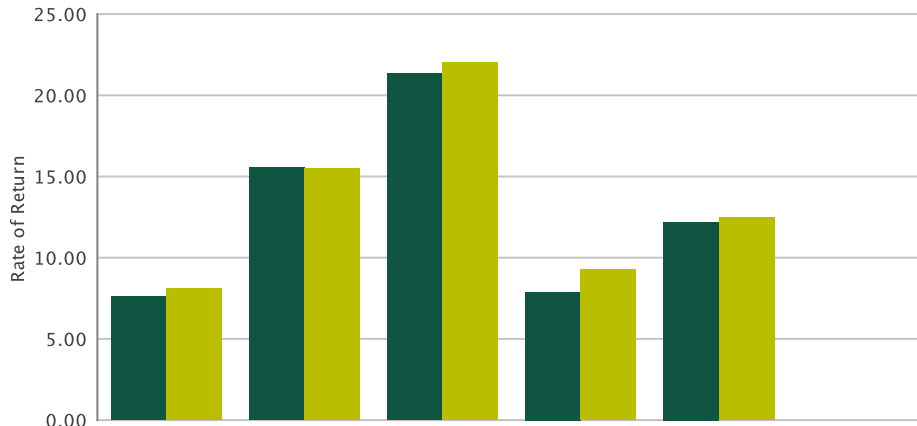
Market Value Summary - Three Months

Account/Group	30/06/2016 Market Value	Net Contribution*	Income	Fees	Appreciation	30/09/2016 Market Value
London Borough of Hillingdon	846,165,489	-3,125	3,342,207	3,125	47,101,117	896,605,688
Adam Street	19,148,428	-1,243,134	0	0	1,129,347	19,034,640
AEW UK	37,148,140	7,666,000	577,961	0	-254,553	45,137,548
Cash & Other Assets	1,278,087	1,523,754	554	0	40,231	2,842,625
GMO Global	59,206,319	0	0	0	1,869,320	61,075,639
JP Morgan	37,664,475	0	0	0	1,158,438	38,822,913
Kempen	5,648	-289,367	289,367	0	-5,648	0
LGT	10,861,970	-916,592	109	0	612,763	10,558,250
London CIV Ruffer	96,381,312	-0	1,818	0	5,982,236	102,365,365
M&G Investments	40,966,002	-332,759	815	0	568,691	41,202,749
Macquarie	22,601,659	1,321,620	-365	0	1,090,560	25,013,473
Newton	125,965,781	-7,620,000	93	0	8,674,003	127,019,877
Premira Credit	28,209,967	0	924,816	0	267,567	29,402,350
SSGA	168,335,825	0	0	0	14,116,133	182,451,958
State Street Gilts	24,772,180	0	0	0	3,196,963	27,969,143
State Street transition a/c	126,575	-108,815	-8,012	0	-9,749	0
UBS	102,593,396	0	895,567	0	10,113,059	113,602,022
UBS Property	70,899,026	-3,125	659,483	3,125	-1,448,249	70,107,135
UBS Tactical	700	-706	0	0	6	0

*Net Contributions include Cash Contributions/Distributions, Security Deliveries/Receipts, Fees/Fee Rebates, Inter Account transfers for Consolidations & Benefits Payments.
Copied History or Backloaded Data may not display the correct Contributions/Withdrawals creating misrepresentation.

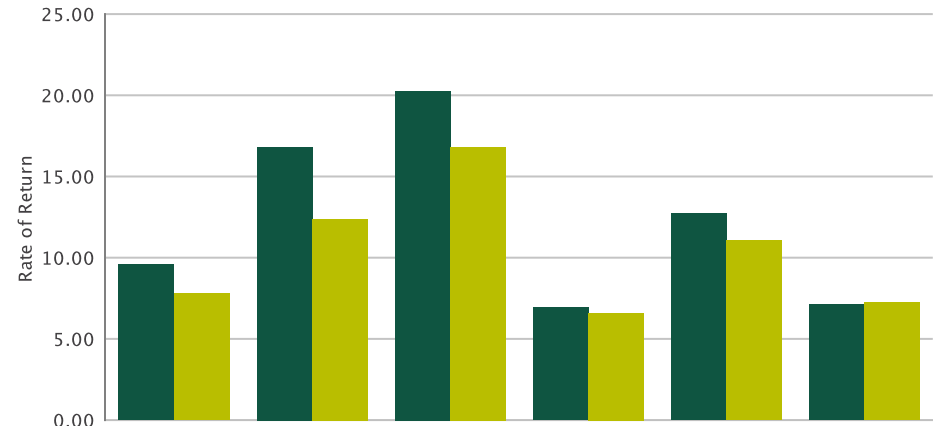
Historical Performance

EQUITY



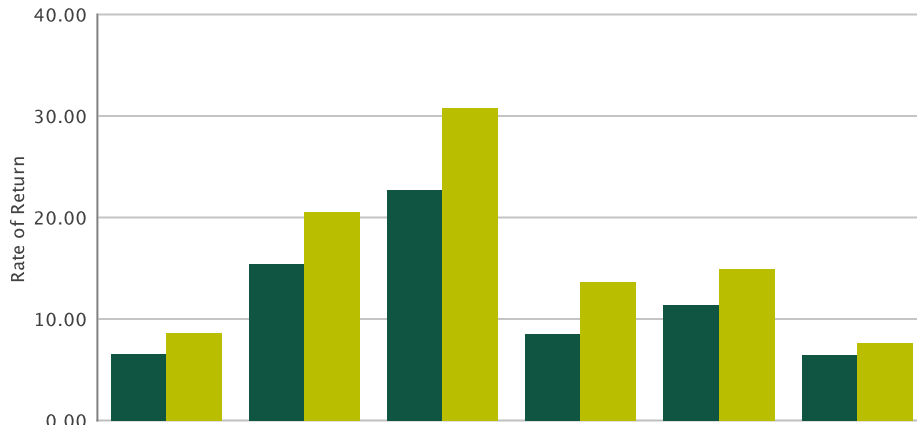
	Three Months	Year to Date	One Year	Three Years	Five Years	ITD
Category	7.62	15.56	21.34	7.89	12.20	-
Index	8.10	15.48	22.02	9.27	12.47	-

UNITED KINGDOM



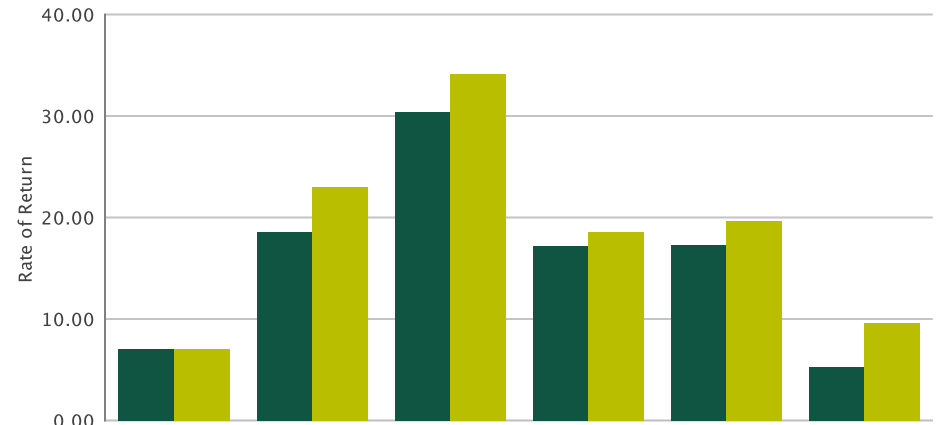
	Three Months	Year to Date	One Year	Three Years	Five Years	ITD
Category	9.59	16.82	20.26	6.94	12.72	7.14
Index	7.78	12.38	16.82	6.59	11.05	7.24

OVERSEAS EQUITIES



	Three Months	Year to Date	One Year	Three Years	Five Years	ITD
Category	6.58	15.38	22.75	8.51	11.42	6.41
Index	8.60	20.56	30.77	13.63	14.93	7.59

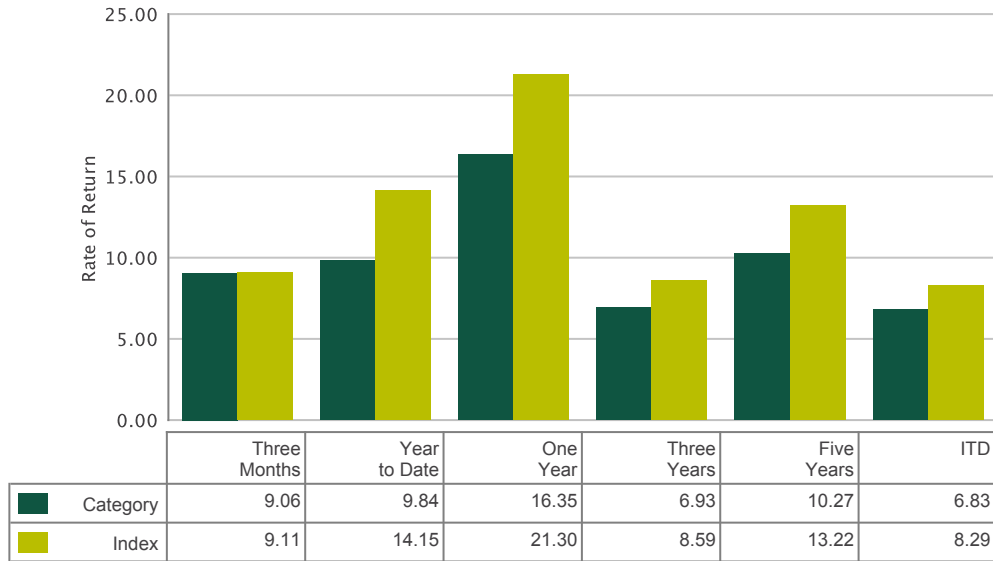
NORTH AMERICA



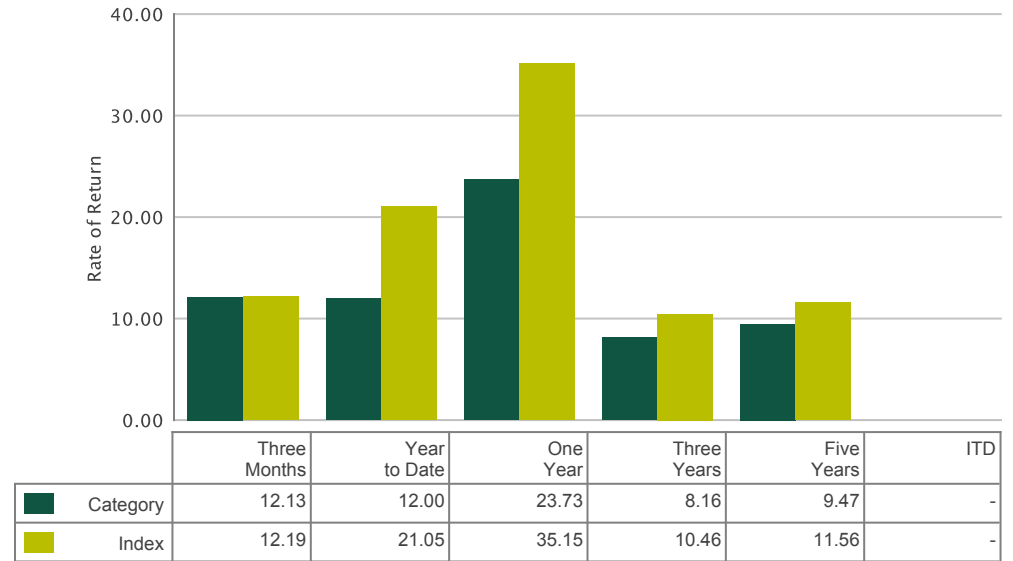
	Three Months	Year to Date	One Year	Three Years	Five Years	ITD
Category	7.03	18.61	30.35	17.23	17.29	5.30
Index	7.07	23.02	34.13	18.54	19.64	9.57

Historical Performance

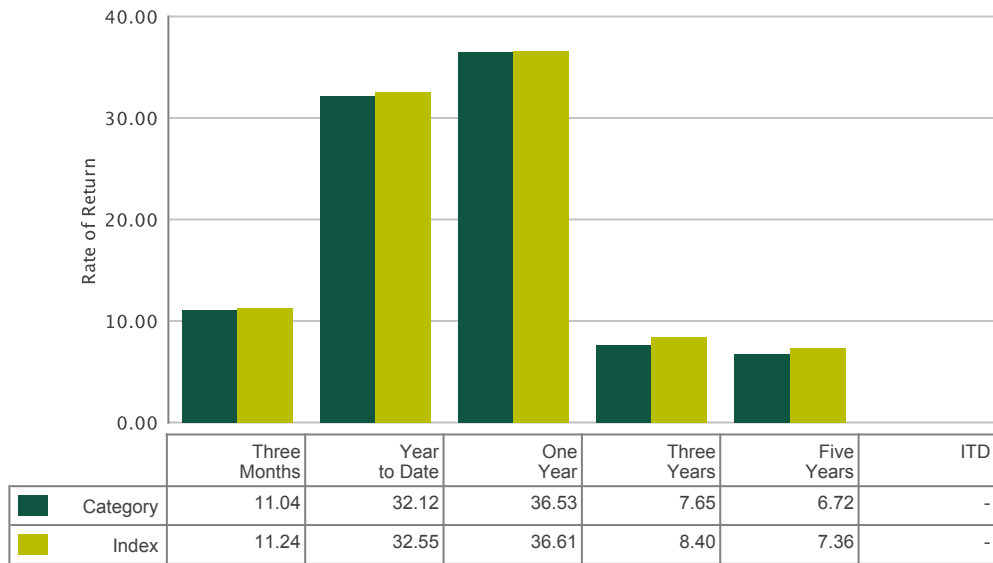
EUROPE EX UK



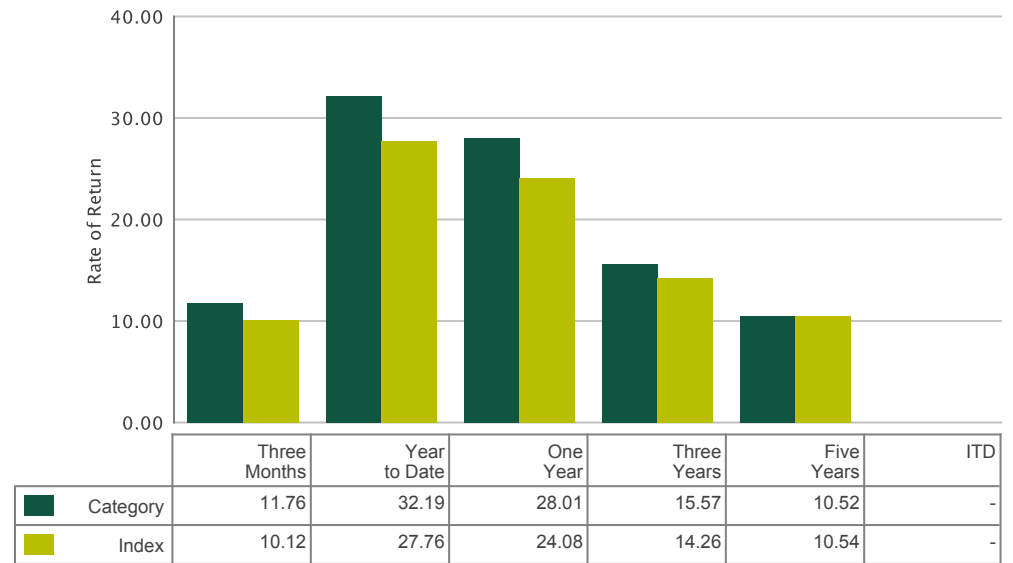
ASIA PACIFIC INC JAPAN



EMERGING MARKETS

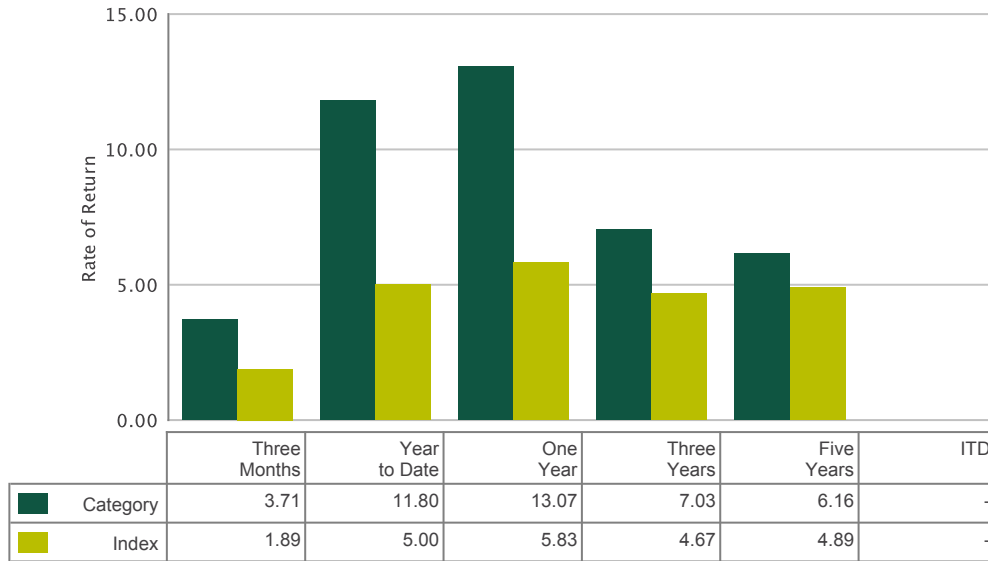


INDEX LINKED GILTS

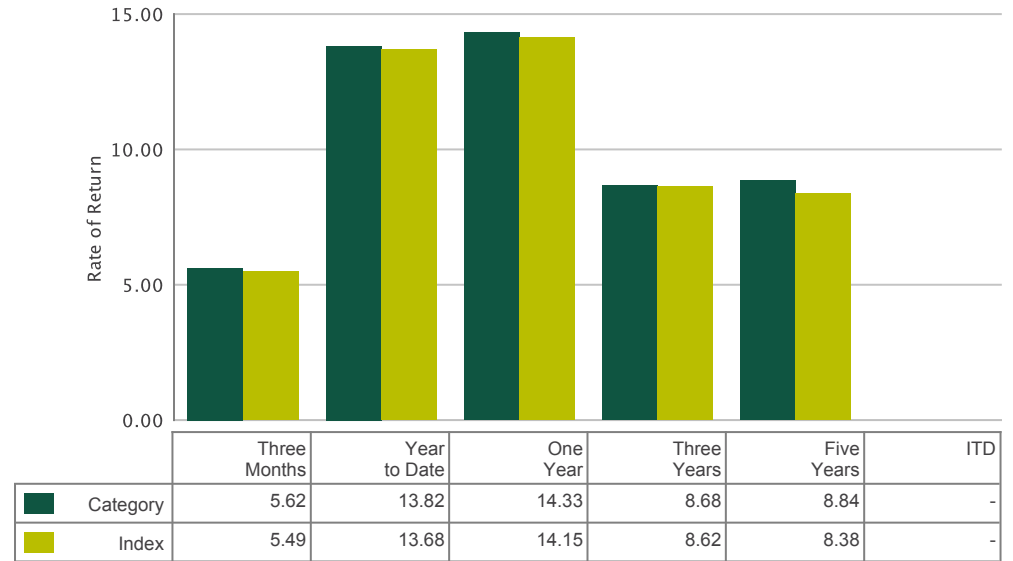


Historical Performance

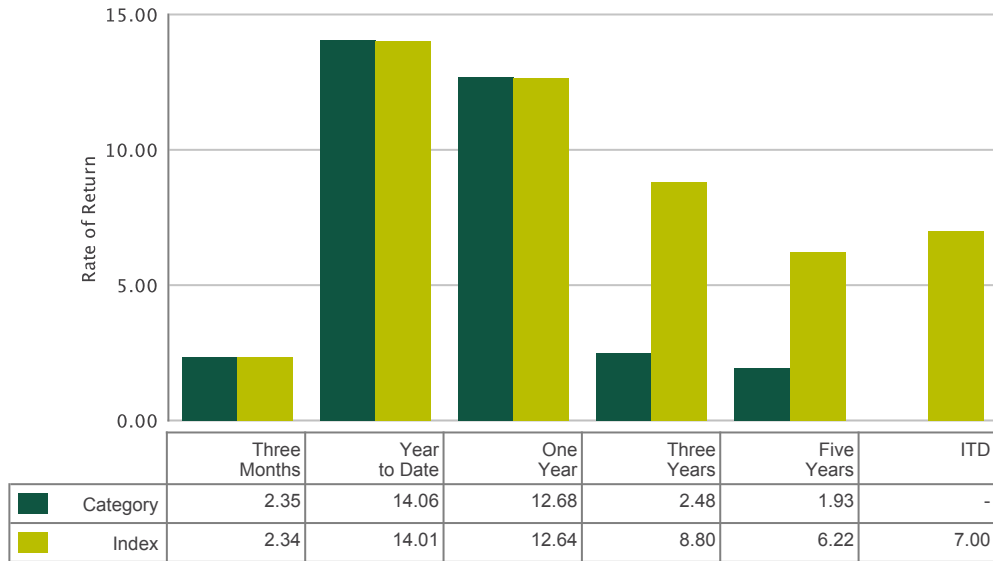
FIXED INCOME



CORPORATES

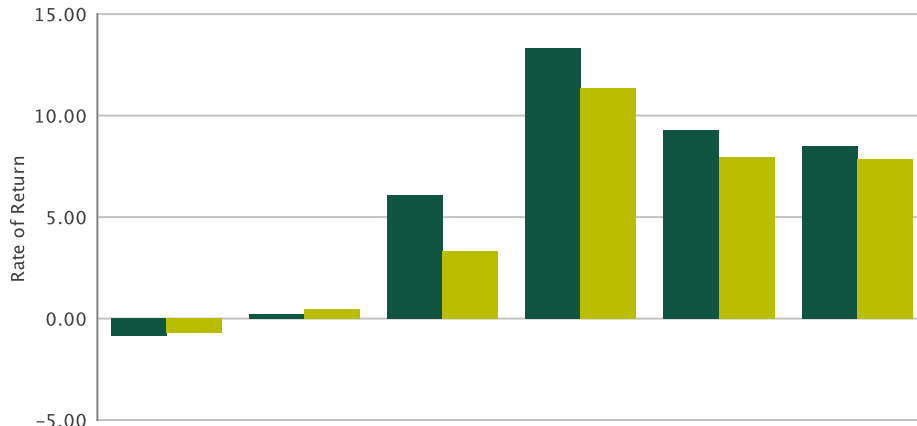


GOVERNMENT BONDS



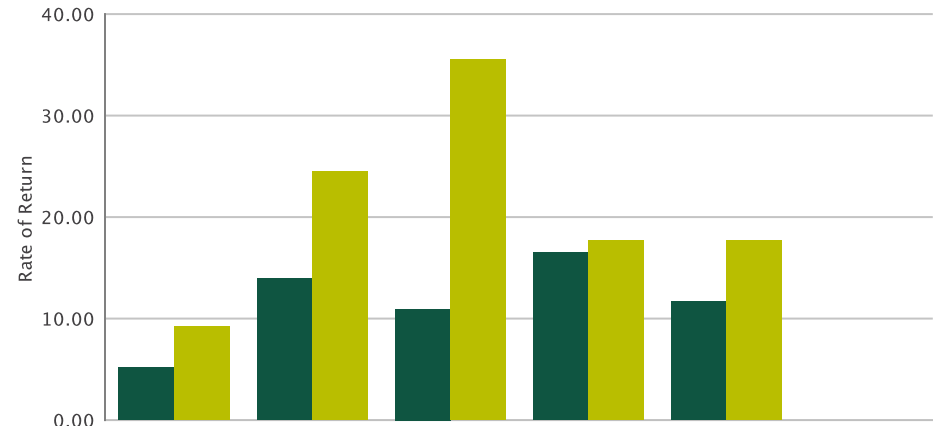
Historical Performance

REAL ESTATES



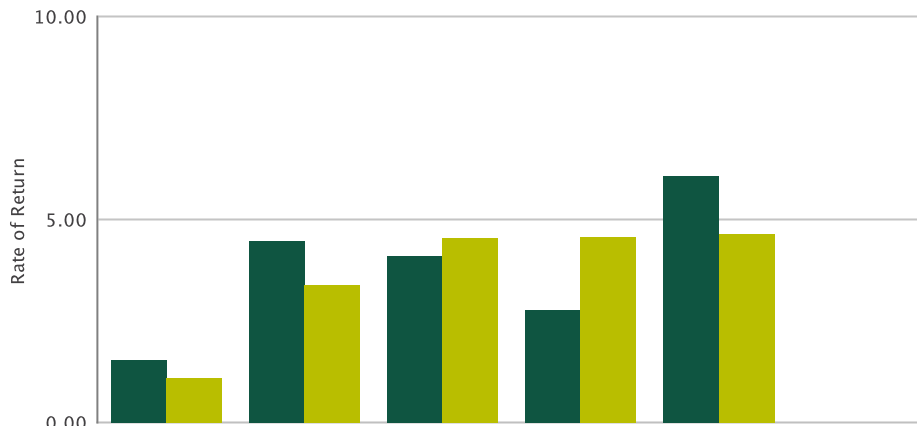
	Three Months	Year to Date	One Year	Three Years	Five Years	ITD
Category	-0.84	0.24	6.07	13.31	9.30	8.49
Index	-0.70	0.49	3.31	11.35	7.94	7.88

PRIVATE EQUITY



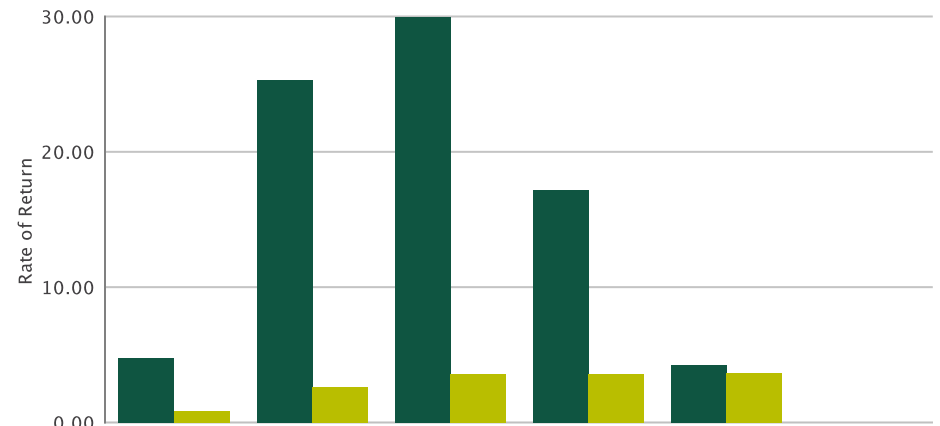
	Three Months	Year to Date	One Year	Three Years	Five Years	ITD
Category	5.20	13.97	10.94	16.49	11.70	-
Index	9.23	24.49	35.50	17.70	17.70	-

HEDGE FUNDS



	Three Months	Year to Date	One Year	Three Years	Five Years	ITD
Category	1.55	4.46	4.10	2.76	6.08	-
Index	1.09	3.39	4.55	4.56	4.64	-

INFRASTRUCTURE



	Three Months	Year to Date	One Year	Three Years	Five Years	ITD
Category	4.75	25.34	29.96	17.17	4.23	-
Index	0.85	2.64	3.55	3.56	3.64	-

Benchmark Composition

Total Plan Benchmark

24.2	FTSE All Share
2.3	FTSE AW North America
2.2	FTSE AW Developed Europe ex UK
2.2	FTSE AW Developed Asia Pacific
0.6	FTSE All World All Emerging
14.1	FTSE World Index +2%
1.9	FTSE Index Linked Gilts
1.7	BC Sterling Aggregate 100mm Non Gilts
0.3	FTSE All Stock Index
10.3	IPD UK PPFI All Balanced Funds Index
6.0	LIBOR 3 Month + 3%
11.9	LIBOR 3 Month
4.7	MSCI All Countries World Index
4.3	FTSE Index Linked Gilts 15+ Years
8.6	OECD CPI G7 (GBP) Index
4.7	LIBOR 3 Month + 4%

AEW UK

100.0 IPD UK PPFI All Balanced Funds Index

GMO Global

100.0 OECD CPI G7 (GBP) Index

JP Morgan

100.0 LIBOR 3 Month + 3%

M&G Investments

100.0 LIBOR 3 Month + 4%

Macquarie

100.0 LIBOR 3 Month + 3%

Newton

100.0 FTSE World Index +2%

Permira Credit

100.0 LIBOR 3 Month + 4%

Ruffer

100.0 3 Month Sterling LIBOR

SSGA

44.0	FTSE All Share
11.0	FTSE World North America
11.0	FTSE World Europe ex UK
11.0	FTSE Pacific Basin ex Japan
10.0	FTSE Index Linked Gilts
8.5	ML Sterling Non-Gilts
3.0	FTSE All World All Emerging
1.5	FTSE Gilts All Stocks

State Street Gilts

100.0 FTSE Index Linked Gilts 15+ Years

UBS

100.0 FTSE All Share

UBS Property

100.0 IPD UK PPFI All Balanced Funds Index

Disclaimer(s)

The Global Industry Classification Standard ("GICS") was developed by and is the exclusive property and a service mark of Morgan Stanley Capital International Inc. ("MSCI") and Standard & Poor's, a division of The McGraw-Hill Companies, Inc. ("S&P") and is licensed for use by The Northern Trust Corporation and its wholly owned subsidiaries. Neither MSCI, S&P, nor any other party involved in making or compiling the GICS or any GICS classifications makes any express or implied warranties or representations with respect to such standard or classification (or the results to be obtained by the use thereof), and all such parties hereby expressly disclaim all warranties of originality, accuracy, completeness, merchantability and fitness for a particular purpose with respect to any of such standard or classification. Without limiting any of the foregoing, in no event shall MSCI, S&P, any of their affiliates or any third party involved in making or compiling the GICS or any GICS classifications have any liability for any direct, indirect, special, punitive, consequential or any other damages (including lost profits) even if notified of the possibility of such damages.

The Dow Jones Wilshire Indexes are calculated, distributed and marketed by Dow Jones & Company, Inc. pursuant to an agreement between Dow Jones and Wilshire and have been licensed for use. All content of the Dow Jones Wilshire Indexes © 2005 Dow Jones & Company, Inc. & Wilshire Associates Incorporated.

Standard and Poor's including its subsidiary corporations ("S&P") is a division of the McGraw-Hill Companies, Inc. Reproduction of S&P Index Alerts in any form is prohibited except with the prior written permission of S&P. Because of the possibility of human or mechanical error by S&P sources, S&P or others, S&P does not guarantee the accuracy, adequacy, completeness or availability of any information and is not responsible for any errors or omissions or for the results obtained from the use of such information. S&P gives not express or implied warranties, including, but not limited to, any warranties or merchantability or fitness for a particular purpose or use. In no event shall S&P be liable for any indirect, special or consequential damages in connection with subscriber's or others' use of S&P Index Alerts.

All MSCI equity characteristic results except for Dividend Yield, Price to Book Value, Price to Cash Earnings and Price Earnings Ratio were calculated by The Northern Trust Company.

FTSE ® is a trade mark of London Stock Exchange Plc and The Financial Times Limited and is used by FTSE under license. All rights in the FTSE Indices vest in FTSE and/or its licensors. Neither FTSE nor its licensors accept any liability for any errors or omissions in the FTSE Indices or underlying data.

The Merrill Lynch Indices are used with permission. Copyright 2007, Merrill Lynch, Pierce, Fenner & Smith Incorporated. All rights reserved. The Merrill Lynch Indices may not be copied, used, or distributed without Merrill Lynch's prior written approval.

The Citi Index data is provided to you on an "AS IS" basis and you agree that use of the index data is at your sole risk. Citi Index makes no representations or warranties, express or implied, to you or any other person or entity, including without limitation any warranty of merchantability, originality, suitability or fitness for a particular purpose of the index data or any other matter and no warranty is given that the index data will conform to any description thereof or be free of omissions, errors, interruptions or defects. 4. In no event shall Citi Index be liable to you or any other person or entity for any direct, incidental, indirect, special or consequential damages (including, without limitation, lost profits or revenues, loss of data, loss of use or claims of third parties), arising out of or in any manner in connection with your use of (or inability to use) the index data, whether or not you have been advised of, or otherwise might have anticipated the possibility of, such damages. Without limitation on the foregoing, you acknowledge that the index data may be incomplete or condensed, is for information purposes only and is not intended as, and shall not be construed to be, an offer or solicitation with respect to the purchase or sale of any security. All opinions and estimates provided constitute judgments as of their respective dates and are subject to change without notice. Such data, information, opinions and estimates are furnished as part of a general service, without regard to your particular circumstances, and Citi Index shall not be liable for any damages in connection therewith. Citi Index is not undertaking to manage money or act as a fiduciary with respect to your accounts or any of your managed or fiduciary accounts and you acknowledge and agree that the index data does not and shall not serve as the primary basis for any investment decisions made with respect to such accounts.

Please note that this report has been prepared using best available data. This report may also contain information provided by third parties, derived by third parties or derived from third party data and/or data that may have been categorized or otherwise reported based upon client direction - Northern Trust assumes no responsibility for the accuracy, timeliness or completeness of any such information. If you have questions regarding third party data or direction as it relates to this report, please contact your Northern Trust relationship team.