\mathbb{C}

CAMBRIDGE ASSOCIATES LLC

EUROPEAN MARKET COMMENT

ARE LINKERS RICH?

May 2005

Eric Winig Ann-Marie Hofer

Copyright © 2005 by Cambridge Associates LLC. All rights reserved.

This report may not be displayed, reproduced, distributed, transmitted, or used to create derivative works in any form, in whole or in portion, by any means, without written permission from Cambridge Associates LLC ("CA"). Copying of this publication is a violation of federal copyright laws (17 U.S.C. 101 et seq.). Violators of this copyright may be subject to liability for substantial monetary damages. The information and material published in this report are confidential and non-transferable. This means that authorized members may not disclose any information or material derived from this report to third parties, or use information or material from this report, without prior written authorization. An authorized member may disclose information or material from this report to its staff, trustees, or Investment Committee with the understanding that these individuals will treat it confidentially. Additionally, information from this report may be disclosed if disclosure is required by law or court order, but members are required to provide notice to CA reasonably in advance of such disclosure. This report is provided for informational purposes only. It is not intended to constitute an offer of securities of any of the issuers that are described in the report. This report is provided only to persons that CA believes to be "Accredited Investors" as that term is defined in Regulation D under the Securities Act of 1933. When applicable, investors should completely review all Fund offering materials before considering an investment. No part of this report is intended as a recommendation of any firm or any security. Factual information contained herein about investment firms and their returns which has not been independently verified has generally been collected from the firms themselves through the mail. CA can neither assure nor accept responsibility for accuracy, but substantial legal liability may apply to misrepresentations of results delivered through the mail. The CA manager universe statistics, including medians, are derived from CA's proprietary database covering investment managers. These universe statistics and rankings exclude managers that exclude cash from their reported total returns, and for calculations including any years from 1998 to the present, those managers with less than \$50 million in product assets. Returns for inactive (discontinued) managers are included if performance is available for the entire period measured. Performance results are generally gross of investment management fees. CA does not necessarily endorse or recommend the managers in this universe.

Cambridge Associates LLC is a Massachusetts limited liability company headquartered in Boston, MA with branch offices in Washington, DC and Menlo Park, CA. Cambridge Associates Limited is a Massachusetts limited liability company headquartered in Boston, MA and registered in England and Wales (No. FC022523, Branch No. BR005540). Cambridge Associates Limited also is registered to conduct business in Sydney, Australia (ARBD 109 366 654). Cambridge Associates Asia Pte Ltd is a Singapore corporation (Registration No. 200101063G).

Are Linkers Rich?

Are U.K linkers overpriced? On the evidence, it certainly appears so: real yields are not only close to all-time lows, but well below their average of 3.17% since they were introduced in May of 1981 (Table A). While it is true that the linker market has somewhat unique supply-demand issues (pension funds and life assurance companies hold roughly 90% of outstanding issues), linkers seem an expensive inflation hedge given real yields of 1.74%.

Still, linkers remain slightly attractive relative to nominal U.K. bonds, which continue to price in quite low inflation expectations. Indeed, since U.K. nominal yields peaked last May, global yields have fallen across the board, with nominal yields generally falling more than real yields (Table B). As a result, break-even spreads have tightened everywhere except Australia. Within the United Kingdom, the bond market is pricing in inflation expectations of 2.79% over the next ten years. Thus, ten-year linkers will outperform nominal gilts if inflation comes in higher over the next decade, which seems quite likely based on historical standards: over rolling ten-year periods since 1957, U.K. RPI has exceeded 2.79% in every period but five, or 87% of the time. We would note, however, that virtually all of this history occurred before the Bank of England became independent in 1997, and thus one could argue that it has an upward bias unlikely to recur in the future.

Any discussion of linkers must, of course, address the potential that U.K. pension funds may at some point move en masse out of equities and into fixed income, in order to improve asset and liability management and comply with regulatory changes. While this is certainly a compelling story line, the data have yet to support it, as recent moves by pensions have been fairly minor in scope (Table C). Further, pensions have lately shown a preference for long-dated nominal bonds over linkers (Table D), although the expected introduction of a 50-year linker in July may change this. Barclay's Capital recently compared predictions of a massive asset allocation shift to the fable of the boy who cried wolf. "When writing about the investment behavior of U.K. pension funds," the firm noted, "we sometimes feel we risk taking on the role of the shepherd boy."

The case against linkers, however, is not open and shut. To begin with, while real yields of approximately 2.0% are low relative to linkers' yields over their 24-year history, they are not significantly low relative to most analysts' estimates of average long-term historical real yields. Further, for some investors, the overall benefits of linkers outweigh short-term pricing discrepancies, as they offer a unique blend of inflation protection, diversification, and liquidity. Indeed, the sheer size of pension investors is such that any significant move into linkers could indefinitely depress yields below any reasonable estimate of fair value. While this has yet to happen, it remains a possibility.

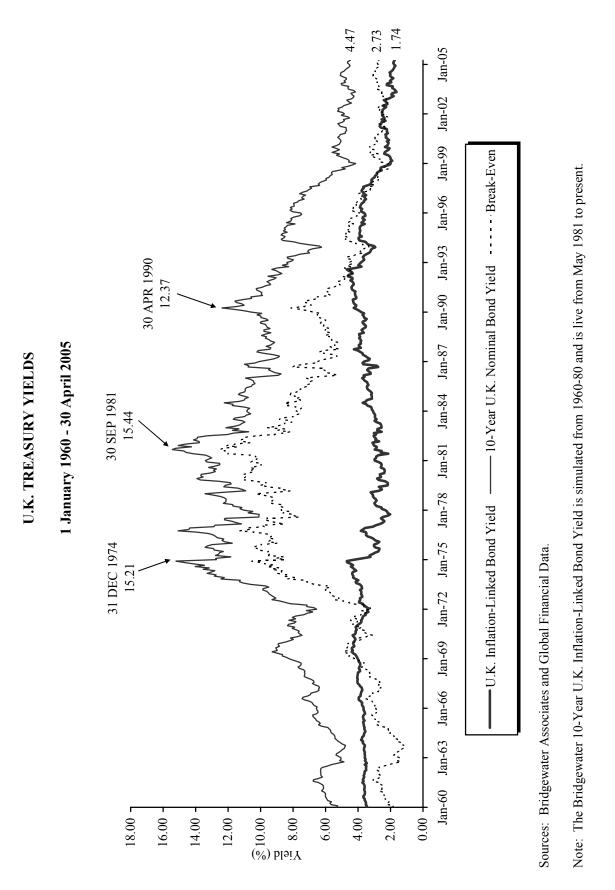


Table B

	As of 31 May 2004			
	10-Year Nominal <u>Yields</u>	10-Year Inflation-Linked <u>Yields</u>	Break-Even <u>Inflation</u>	YoY <u>Inflation</u>
United States	4.66	2.00	2.66	3.05
United Kingdom	5.15	2.10	3.05	2.75
Canada	4.78	2.31	2.47	2.46
Sweden	4.69	2.08	2.61	0.57
France	4.32	1.80	2.52	2.60
Australia	5.97	3.30	2.67	2.48 ¹
	As of 30 April 2005			
	10-Year Nominal <u>Yields</u>	10-Year Inflation-Linked <u>Yields</u>	Break-Even <u>Inflation</u>	YoY ² <u>Inflation</u>
United States	4.21	1.61	2.60	3.15
United Kingdom	4.52	1.73	2.79	3.20
Canada	4.14	1.90	2.24	2.35
Sweden	3.39	1.55	1.84	0.14
France	3.43	1.44	1.99	1.91
Australia	5.42	2.69	2.73	2.36
		Basis-Point Chan	nge (bps)	
	10-Year Nominal <u>Yields</u>	10-Year Inflation-Linked <u>Yields</u>	Break-Even <u>Inflation</u>	YoY <u>Inflation</u>
United States	-45	-39	-6	10
United Kingdom	-63	-37	-26	44
Canada	-64	-41	-23	-11
Sweden	-130	-53	-77	-43
France	-89	-36	-53	-69
Australia	-55	-61	6	-12

GLOBAL REAL YIELDS AND BREAK-EVEN INFLATION

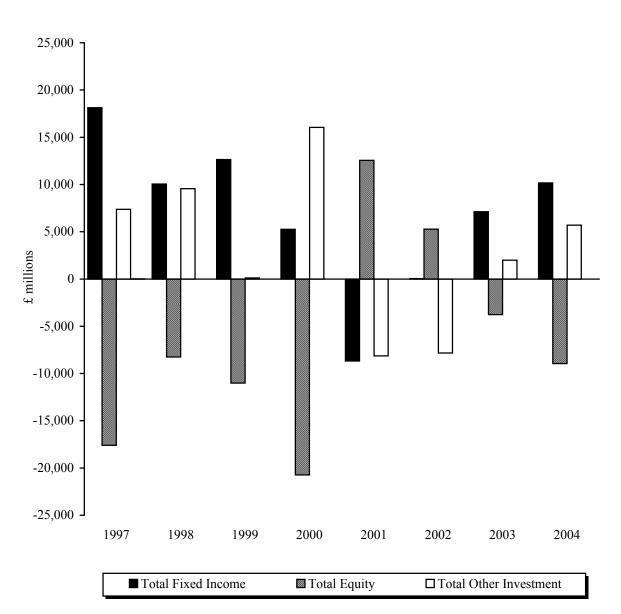
Sources: Barclay's Capital Research, Bureau of Labor Statistics, Global Financial Data, and Thomson Datastream.

Note: Inflation-linked yield data for Sweden, France, and Australia for 30 April 2005 are represented by the relevant Barclays Capital Inflation-Linked indices.

¹ The year-over-year inflation data for Australia is as of 30 June 2004.

² The year-over-year inflation data are as of 31 March 2005.

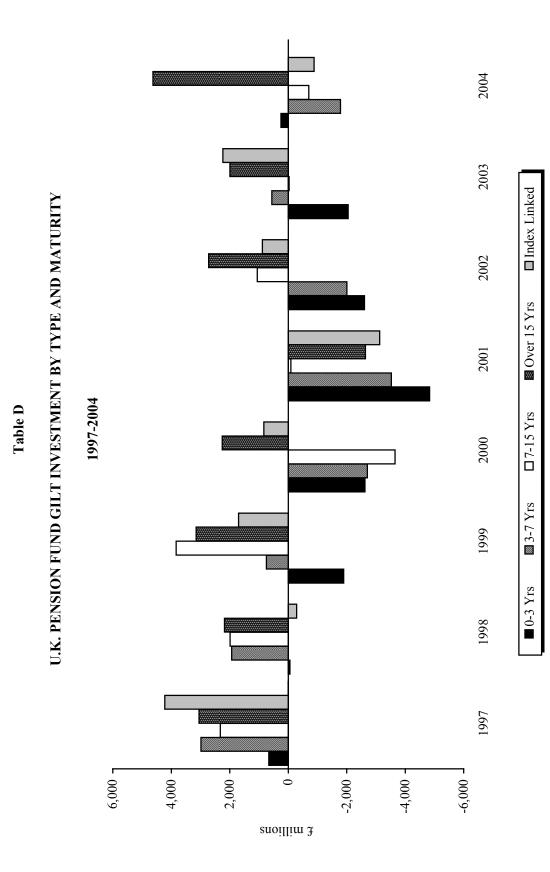
Table C



NET INVESTMENT BY U.K. PENSION FUNDS BY ASSET CLASS

1997-2004

Source: National Statistics.



Source: National Statistics.