

UK LDI DATA SHEET

30 SEPTEMBER 2018

| | TODAY | 1 MONTH | 3 MONTHS |
|---------------------------------|-----------|-----------|-----------|
| Interest rate swaps (zc) (% pa) | 28 Sep 18 | 31 Aug 18 | 29 Jun 18 |
| 5 year | 1.46 | 1.36 | 1.31 |
| 10 year | 1.68 | 1.56 | 1.54 |
| 20 year | 1.80 | 1.68 | 1.66 |
| 50 year | 1.67 | 1.54 | 1.50 |

| | TODAY | 1 MONTH | 3 MONTHS |
|-----------------------------|-----------|-----------|-----------|
| Inflation swaps (zc) (% pa) | 28 Sep 18 | 31 Aug 18 | 29 Jun 18 |
| 5 year | 3.49 | 3.35 | 3.31 |
| 10 year | 3.50 | 3.38 | 3.36 |
| 20 year | 3.56 | 3.47 | 3.45 |
| 50 year | 3.38 | 3.28 | 3.24 |

| | TODAY | 1 MONTH | 3 MONTHS |
|-----------------------------|-----------|-----------|-----------|
| Real rate swaps (zc) (% pa) | 28 Sep 18 | 31 Aug 18 | 29 Jun 18 |
| 5 year | -1.96 | -1.93 | -1.94 |
| 10 year | -1.76 | -1.76 | -1.77 |
| 20 year | -1.70 | -1.72 | -1.73 |
| 50 year | -1.65 | -1.69 | -1.68 |

| | TODAY | 1 MONTH | 3 MONTHS |
|---------------------------|-----------|-----------|-----------|
| Conventional gilts (% pa) | 28 Sep 18 | 31 Aug 18 | 29 Jun 18 |
| 10 year | 1.60 | 1.44 | 1.41 |
| 20 year | 1.97 | 1.82 | 1.79 |
| 30 year | 1.95 | 1.80 | 1.76 |
| 50 year | 1.76 | 1.59 | 1.53 |

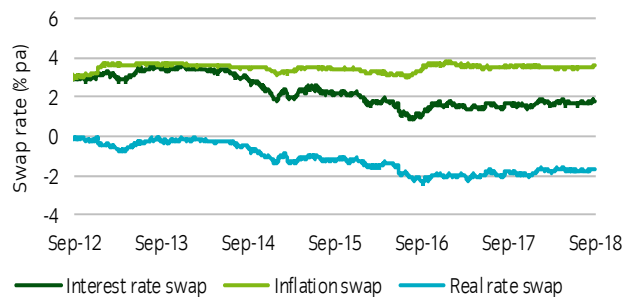
| | TODAY | 1 MONTH | 3 MONTHS |
|---------------------------|-----------|-----------|-----------|
| Index-linked gilts (% pa) | 28 Sep 18 | 31 Aug 18 | 29 Jun 18 |
| 10 year | -1.64 | -1.71 | -1.73 |
| 20 year | -1.54 | -1.58 | -1.63 |
| 30 year | -1.45 | -1.51 | -1.54 |
| 50 year | -1.52 | -1.59 | -1.60 |

| | TODAY | 1 MONTH | 3 MONTHS |
|------------------------------------|-----------|-----------|-----------|
| Libor z-spread by maturity (bp) | 28 Sep 18 | 31 Aug 18 | 29 Jun 18 |
| Conventional 10 year (4.25% 2027) | -18 | -23 | -21 |
| Conventional 20 year (1.75% 2037) | 12 | 9 | 8 |
| Conventional 30 year (1.50% 2047) | 16 | 13 | 11 |
| Index-linked 10 year (0.125% 2026) | 6 | -2 | -3 |
| Index-linked 20 year (0.125% 2037) | 17 | 14 | 10 |
| Index-linked 30 year (0.125% 2046) | 24 | 19 | 16 |

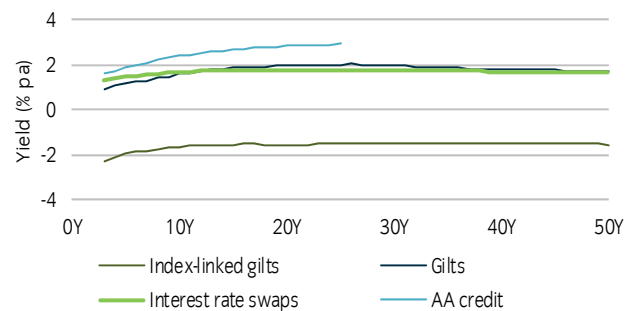
| | TODAY | 1 MONTH | 3 MONTHS |
|---------------------------|-----------|-----------|-----------|
| Money market rates (% pa) | 28 Sep 18 | 31 Aug 18 | 29 Jun 18 |
| BOEbase rate | 0.75 | 0.75 | 0.50 |
| Sonia | 0.70 | 0.70 | 0.44 |
| 3 month Libor | 0.80 | 0.80 | 0.67 |
| 6 month Libor | 0.90 | 0.89 | 0.79 |
| 3 month repo rate | 0.89 | 0.86 | 0.71 |

| | TODAY | 1 MONTH | 3 MONTHS |
|-----------------------------------|-----------|-----------|-----------|
| Other rates (% pa) | 28 Sep 18 | 31 Aug 18 | 29 Jun 18 |
| 20 year swap rate 3 years forward | 1.86 | 1.74 | 1.73 |
| 20 year swap rate 5 years forward | 1.86 | 1.75 | 1.74 |

20 year swap rates (zero coupon)



Rates by maturity (coupon paying instruments)



20 year index-linked z-spread



| CDS spread (bp) | 28 Sep 18 | 31 Aug 18 | 29 Jun 18 |
|-------------------------------------------|-----------|-----------|-----------|
| iTraxx Europe 5 year (on-the-run-series) | 68 | 68 | 73 |
| iTraxx Europe 10 year (on-the-run-series) | 112 | 114 | 116 |
| CDX 10 year (on-the-run-series) | 106 | 108 | 113 |

| Equity markets | 28 Sep 18 | 31 Aug 18 | 29 Jun 18 |
|-----------------------|-----------|-----------|-----------|
| UK - FTSE 100 | 7,510 | 7,432 | 7,637 |
| US - S&P 500 | 2,914 | 2,902 | 2,718 |
| Europe - Eurostoxx 50 | 3,399 | 3,393 | 3,396 |
| Japan - Topix | 1,817 | 1,735 | 1,731 |

| Equity volatility | 28 Sep 18 | 31 Aug 18 | 29 Jun 18 |
|-------------------|-----------|-----------|-----------|
| VIX Index | 12.1 | 12.9 | 16.1 |

| Currency | 28 Sep 18 | 31 Aug 18 | 29 Jun 18 |
|----------|-----------|-----------|-----------|
| GBPUSD | 1.30 | 1.30 | 1.32 |
| GBPEUR | 1.12 | 1.12 | 1.13 |

All data sources are Bloomberg, Barclays Capital and Insight. Data as at close of business on dates specified. All yields displayed are annualised.

DEFINITIONS

Basis point (bp)

A unit of measure equal to 1/100th of 1%.
i.e. 0.01%.

BOE

Bank of England.

Credit spread

The difference in yield between AA corporate bonds and government bonds.

Forward rate

The agreed future yield of an asset
e.g. the 30 year swap rate starting
3 years hence.

Inflation swaps

A contractual agreement where an investor pays a fixed rate and receives a payment linked to inflation. There is no exchange of principal at inception or maturity. The percentage level refers to the fixed rate that is paid as part of the swap.

Interest rate swaps

A contractual agreement to exchange a stream of periodic payments between counterparties, usually taking the form of exchanging a fixed rate for a floating rate. The agreement defines the dates when the cash flows are to be exchanged and the way that they are calculated. The percentage level refers to the fixed rate that is paid or received as part of the swap.

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Libor

London Interbank Offered Rate.

Real rate swaps

The real rate is the interest rate swap rate discounted by the inflation swap rate.

Repo rate

The market rate for gilt repurchase agreements as published by the Bank of England.

Sonia

Sterling Overnight Interbank Average rate.

Swaption

A swaption is an option granting its owner the right but not the obligation to enter into an underlying swap at some future date.

VIX

Chicago Board Options Exchange Market Volatility Index. A measure of the implied volatility of S&P 500 index options. It represents one measure of the market's expectation of stock market volatility over the next 30 day period.

Zero Coupon (zc)

Zero coupon instruments are those that do not pay interest periodically but rather pay an accumulated sum rolled up at maturity.

Z-spread

The z-spread is the difference in yield between a government issued bond and its corresponding swap derivative. More specifically, the Z-spread is the parallel shift applied to the LIBOR swap curve such that when a bond's cash flows are discounted by the resulting discount factors at each annual maturity, the present value equals the market price of the bond. Here we are showing a positive Z-spread number to mean that gilt yields are higher than swap yields with equal durations.

All data sources are Bloomberg except 20 year index-linked z-spread which is sourced from Barclays Capital.

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