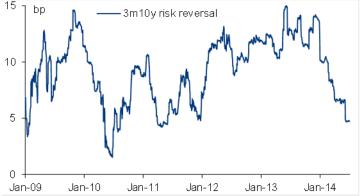
A message from the rates skew

By Ruslan Bikbov

Chart of the Day: The skew surface has flattened



Note: The chart shows 3m10y risk reversal defined as the spread between 3m10y 25bp-high and 25bp-low normal volatilities Source: BofA Merrill Lynch Global Research

Why Treasury investors should watch the skew

Implied swaption skew contains important information about the future direction of interest rates. Historically, a steeper skew surface tended to predict a greater likelihood of a subsequent market selloff and smaller returns on bonds, on average. A flatter skew surface tended to predict a higher likelihood of a subsequent market rally and greater returns on bonds, on average. This is opposite to what should be expected if the skew market was "efficient". We believe the reason for this negative correlation between implied skew and subsequent bond returns is that the skew contains important information about market positioning. A flatter skew surface may indicate an increased demand for low strikes to hedge core shorts, and vice versa.

These observations have important implications for rates in the current environment, in our view. The skew has notably flattened since last year, which may indicate still elevated core short positions in the US rates markets (see Chart of the Day). Investors, therefore, should be cautious when establishing new shorts.

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Skew in theory...

When high strike volatility trades above low strikes, the implied distribution of rates is skewed toward higher rates. Therefore, assuming efficient markets and no risk premiums, future rates should typically realize below forwards, but the average size of a market selloff should exceed the average size of a market rally, so that the average return on a bond should be zero. This is because the mean of such a distribution, equal to the forward rate, should be above its median. If the implied skew surface steepens, i.e., high strikes richen to low strikes, we should expect fewer market selloffs (relative to forwards), with the average size of a selloff increasing relative to the average size of a market rally. The opposite should be the case if the skew flattens.

...and skew in practice

However, the empirical relationship between implied skews and subsequent returns on rates reveals a very different story. Historically, a steeper skew surface indicated a greater likelihood of a subsequent market selloff, so rates tended to realize above forwards, on average, while the opposite tended to be the case when the skew surface flattened.

In Table 1 we analyze historical percentiles of the 3m change in the 3m10y risk reversal. For each such percentile we compute average and median returns on a long 10y position in the following 1m. Returns on the 10y are calculated simply as the spread between 1m10y forward and spot 10y rate 1m later. We also report the frequency of subsequent negative returns on the 10y, i.e., months where the 10y rate was realized above the corresponding forward rate, in each of the percentile analyzed.

Table 1 clearly demonstrates that a steeper implied skew was followed by a greater likelihood of a subsequent market selloff. The frequency of subsequent market selloffs in the top percentile of the skew (54%) was greater than that in the middle percentile (50%). Further, subsequent returns were not skewed toward higher rates in the top percentile of the implied skew, which is evident from the fact the average return at -1.41bp was greater than the median return at -5.3bp in this percentile. As a result, a steeper skew was followed by negative bond returns, on average. These findings are exactly opposite to what we could expect if implied skews presented unbiased ex-ante distribution of rates.

Table 1: Steeper skew is followed by more frequent market selloffs

subsequent 1m returns on 10y percentile of 3m avg return, median frequency of chg in 3m10y RR return, bp -ve returns, % 10.15 0.28 <33 12.40 1.96 -0.65 0.50 33-66 >66 -1.41 -5.300.54 4.27 3.50 0.44 unconditional

Note: We analyze three historical percentiles of 3m changes in the 3m10y risk reversal of equal size. For each percentile we computed average and median returns on the 10y in the following month, calculated as the spread between current 1m fwd 10y rate and spot 10y rate 1m later. We also report the frequency of subsequent negative returns in each percentile. The same statistics are also reported unconditionally. We use monthly observations for this analysis. Sample: 2004-2014. Source: BofA Merrill Lynch Global Research

Table 2: Skew is a significant predictor of bond returns

betas (t-stats)	from the predictiv	e regression of 1m bo	nd returns
const	3m chg in RR	1m chg in 10y rate	R2, %
	2004-201	4 sample	
4.29 (1.86)	-2.14 (-2.86)		6.5
4.11 (1.78)	-2.01 (-2.65)	-0.09 (-0.97)	7.1
	2010-201	4 sample	
4.53 (1.56)	-2.59 (-2.63)		12.4
4.06 (1.42)	-2.13 (-2.12)	-0.23 (-1.66)	17.1

Note: The table shows betas and t-stats from predictive regressions of 1m bond returns. Explanatory variables are 3m change in 3m10y 25-out risk reversal and 1m change in the 10y rate. The left hand side in the regressions is a return on the 10y in the following month, defined as the spread between 1m fwd 10y rate in the current month and spot 10y rate 1m later. T-stats are reported in parentheses. We use monthly observations for these regressions. Source: BofA Merrill Lynch Global Research

Similarly, a flatter implied skew tended to indicate a greater likelihood of a subsequent market rally. The frequency of subsequent bond market rallies in the bottom percentile of historical skew changes was greater than that in the middle percentile by as much as 22%. As a result, a flatter skew was followed by positive bond returns, on average (Table 1).



The predictive ability of the skew for future bond returns is statistically significant. T-stats from a simple linear regression of subsequent 1m bond returns on the change in the skew in the last 3m are significant at conventional levels (Table 2). This predictive ability remained significant after the financial crisis of 2008, so it is not just due to the period of high rates volatility in 2008-09, which could potentially bias our regressions (Table 2).

Does the skew capture momentum?

What could explain the negative correlation between implied skews and subsequent bond returns? One potential explanation is that the skew may be capturing the momentum effect in the rates market. Perhaps, investors could be buying high strikes when rates trend up and buying low strikes when rates are on a downward trend. However, Table 2 shows that the skew remains a significant predictor of interest rates even if controlled for the change in the 10y rate in the previous month. Other momentum indicators we have tried cannot explain the predictive ability of the skew either.

Skew as an indicator of positioning

We believe a more plausible explanation for the apparent predictive ability of the skew for bond returns is that it contains important information about duration positioning. Core short positions could be hedged with OTM receivers, which should increase the price of low strikes to high strikes, all else being equal. As a result, a flatter skew surface could indicate short duration positions. Similarly, a steeper skew surface may indicate a build-up of core longs hedged with OTM payers.

We have found a positive correlation of about 25% between monthly changes in the price of the 3m10y risk reversal and the average duration allocation target from the SMR survey of portfolio managers. This supports our conjecture. We have also found that the SMR survey is not significant if added to the predictive regression in Table 2. This may imply the skew is a cleaner measure of positioning than surveys.

Flattening skew may point to still elevated core shorts

The dynamics of the skew surface and the rates market this year has been broadly consistent with the historical experience discussed above. The skew surface sharply flattened by the end of December 2013 and has continued to flatten since then (see Chart of the Day). Rates have declined since the beginning of the year.

The skew has been flattening in the last three months, although the pace of this flattening has declined since March (Chart 1). As explained above, one interpretation of this price action is that core short positions continue to build up, although at a smaller pace.

If history is any guide, the analysis presented in Tables 1 and 2 suggests that continuing flattening of the swaption skew may indicate that a market rally is more likely to realize than a selloff in the near term, even though the risk of a rally could be smaller now given lower pace of skew flattening. We therefore believe that investors should be cautious when establishing new shorts in this market.



Note: The chart shows 3m change in the 3m10y risk reversal defined as the spread between 3m10y 25bp-high and 25bp-low normal volatilities. Source: BofA Merrill Lynch Global Research



Notable Rates and FX research

- * Rates and Currencies 2014 Year Ahead, 24 November 2013.
- * USDJPY taking a dive, FX Quant Trader, 30 June 2014.
- * The US is back..., Global Rates and FX Weekly, 3 July 2014.
- * Still in the game, US Rates Weekly, 3 July 2014.
- * Carry, high beta and contrarian trades, Liquid Cross Border Flows, 7 July 2014.

Key trade ideas

Top Rates and FX trades for 2014

For rationale and details, refer to Global Rates & Currencies 2014 Year Ahead: Divergence and Volatility, 24 November, 2013 Rates:

Closed at 2.4%: Short 10y Treasuries, entry: 2.78%, target: 3.5%, stop: 2.4%

Buy a USD 6m10y straddle for 433bp, selling a 6m10y CAD straddle for 379bp

Buy UKT 3Q 44 on ASW, entry: -26bp, target: -15bp, stop: -32bp

Buy 2y2y US inflation swap rate (at 2.31%) and sell 5y2y EZ inflation swap rate (at 1.93%), entry: 38bp, target: 70bp, stop: 15bp

Closed at 101bp: Buy Nov16 BTP vs Oct16 OBL, entry: 159bp, target: 27bp roll-down, stop: 185bp

Closed at 130bp: Buy JGBi 10y BEI, entry: 98bp, target: 130bp

Closed at 217bp: Receive AUD 1y2y against USD 1y2y, entry: 274bp, target: 200bp, stop: 300bp

FX:

Closed at 0bp: Buy a 6m ATM EUR put/USD call, with strike at 1.3465, entry: 2.13%

Buy 2y AUD/USD volatility, entry: 10.8%, target: 15%

Closed at 0bp: Buy a GBP/CHF 3m call fly (1x2x1, strikes 1.4950, 1.54, 1.5850), entry: 39bp

Closed at 0%: Buy a 6m EUR/GBP digital put option, with strike at 0.80 (spot: 0.8344), entry: 16.5%

Closed at 7.80: Buy MXN/JPY, entry: 7.68, target: 8.40, stop: 7.80 (previous 7.38)

Existing open trades

Rates:

Buy \$200mm T1.5% 5/31/19 vs selling duration weighted T3.375% 5/15/44 (5s-30s curve steepener), Entry: 175.25bp, target: 200bp, stop-loss: 160bp

* Increasing inflation risks versus a Fed on hold. We see more balanced positioning, the end of QE, and the reduction of foreign official purchases as favorable to the trade

Long Italian 5y2y via the May 19 and May21 BTPS, entry: 4.23%, target: 3.1%, stop-loss: 4.85%

* To position for our long bias in peripherals and especially in Italy. 5y2y looks attractive given solid demand for the new 7y at the Italian auction and highest 1y roll at almost 1%.

Short 50mn 10y Treasuries (2.5% 5/15/2014), entry: 2.55% target: 2.9%, stop-loss: 2.35%

* we re-initiate our short duration view on rebound in 2Q growth, tick up in inflation, discussion on the exit strategy and the eventual hike in June FOMC, better positioning and technical reasons

Closed at 145bp: Pay 5y5y USD vs 5y5y EUR, entry: 136bp, target: 147bp, stop: 131bp

* To position for structural divergence between the two economies. 5y5y spread offers more attractive level, better roll and cleaner positioning

Buy \$100mn 3m10y ATMF-1bp receivers vs \$45.5mn 3m30y receivers, Entry cost: 0, target: P&L of +\$250K, stop-loss: loss of \$125K

* The trade has attractive carry with a limited downside in a market selloff scenario. We expect the curve to steepen in a market rally driven by either weak economic data or dovish Fed communication

Closed at \$950K at Buy 4,000 Sep-2014 expiry 98.25 mid-curve puts vs sell 98.00 puts on EDU6, and sell 4,000 98.75 Sep-2014 expiry calls on EDU6. Premium paid: \$400k, target: \$1.5mm; stop loss: -\$750k

- * We favor short duration positions after the recent decline in rates but prefer to express our short position in the front end of the curve given that rate hikes are still likely in 2015 despite increased uncertainty about the longer-term neutral policy rate Buy ¥5bn of 3m10y ATM (0.82%) straddle holding to expiry, cost: ¥52.6mn, terminal breakeven: 11bp (spot: 0.78%), Stop-loss: loss of ¥20mn
- * Implied vol is at record low. We recommend long volatility to position for risks of volatility events such as geopolitical risk, TPP, GPIF, fiscal policy and monetary policy.



Buy ¥5bn 2y20y payer @1.85% (ATM+6bp) vs sell ¥9.2bn 2y10y payer ATM (1.14%). Entry cost: 0, target: P&L ¥10mn, stop-loss: loss of ¥5mn

* We recommend conditional bear steepener as BoJ accounts for large share of JGB purchases up to the 10yr sector, while in the over-10yr sectors, there are increased issuance and tapered purchases. 2y20y volatility also looks cheap.

Buy \$100mn ATM 1m10y payers, Premium: \$680K, target: 1.4mn, stop-loss: entire premium

* Economic data in coming weeks could further strengthen as we get payback from the extreme winter weather. Carry is less punitive in being short 10s

Short 5y10y EUR inflation, entry: 2.26%, target: 2.06%, stop: 2.36%

- * A disinflationary trade on EUR inflation. Historical metrics, roll-down and new 2030 issuance from Germany are key supporting arguments Buy the ERU6 (Sep16) 99.125/99.00 Jul put spread for 3.5 ticks, target: 5 ticks
- * We favor downside positions in futures rather than OIS ahead of the ECB meeting and express this view via options as the probability of imminent ECB action is low but not zero

Enter a 1y1y vs 3y1y Eonia steepener, current: 68.5bp, target: 84bp, stop: 63bp

- * With the ECB expected to remain on hold, we expect a bear steepening of the curve. Should the ECB surprise markets, we see a simple refi rate cut as the most likely step, which would also steepen the 1y1y-3y1y curve

 <u>Buy \$125.87mn 1y2y ATM payers, sell \$125.87mn 1y2y ATM+25bp payers vs sell \$250mn 1y1y ATM+68bp payers, target: P&L \$125K, stop-loss: loss of \$60K</u>
- * Monetizes the richness of vols and payer skews and should benefit from a steeper Reds/Greens curve

Buy \$100mm T1.5% 2/28/19 vs paying in a matched-maturing swap, Entry cost: 8.1bp, target: 12bp, stop-loss: 6bp

* Hedge a flight-to-quality event with a relatively low cost long spread position

Buying EUR100mm 1m1y ATM vs selling 1m1y ATM+10bp payers. Entry cost: 3bp, target: maturity, maximum 7bp gain.

* Market pricing in too aggressive ECB easing. This trade is a short term technical positioning for ECB disappointment.

Buying \$100mm 3m5y ATMF (1.77%) receivers vs selling \$26mm 3m30y ATMF (3.71%) receivers. Entry cost: 0, Stop-loss: -\$100K, target: +\$200K.

* To position for continuing data weakness while been protected against a market selloff

FX:

Sell AUD/JPY ATM straddle at 11.10 (8th May) and buying AUD/JPY ATM straddle at 11.40 (9th July) with delta-hedge

* Flat volatility curve is underpricing risk from Japan data and further BoJ induced volatility over the summer

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