## The Morning Email: TERM TEDS & Dirty TEDS

### Table of Contents



**Correlations for the US Cash Treasuries are done on a YIELD basis. Therefore, you'll see negative values. The reason for this is due to the new issues. Every new issue takes too long to 'catch up' because the correlation formula looks back 10days.**

Want something added? Let me know: jgoulding@ghco.com




Jim Goulding, jgoulding@ghco.com

## Quotes

| 6/20/2007 5:53 | Page A |
|---|---|

| | F.I. Futures and Cash | | | |
|---|---|---|---|---|
| | Last Decimal | Last 32 | Last Yield* | **MDuration |
| ZT | 101.7406 | 101.237 | 4.966 | 1.88 |
| ZF | 103.8125 | 103.260 | 4.985 | 3.96 |
| ZN | 105.2813 | 105.090 | 5.034 | 5.78 |
| | | | | |
| 2y | 99.881 | 99.2820 | 4.938 | 2.02 |
| 5y | 98.913 | 98.2920 | 4.997 | 4.28 |
| 10y | 95.578 | 95.1850 | 5.071 | 7.81 |

*Futures use CTD for Last Yield

**Mduration = Modified Macaulay Duration

| | Eurodollars (ED) | | | | | |
|---|---|---|---|---|---|---|
| | Last Price | Last Imp Yield | Days til Expr. | Fraction of year | Month | |
| EDAU07 | 94.650 | 5.350 | 89 | 0.243 | SEP | White Pack |
| EDAZ07 | 94.675 | 5.325 | 180 | 0.492 | DEC | |
| EDAH08 | 94.725 | 5.275 | 271 | 0.742 | MAR | |
| EDAM08 | 94.765 | 5.235 | 362 | 0.991 | JUN | |
| EDAU08 | 94.765 | 5.235 | 453 | 1.240 | SEP | Red Pack |
| EDAZ08 | 94.740 | 5.260 | 544 | 1.490 | DEC | |
| EDAH09 | 94.720 | 5.280 | 635 | 1.739 | MAR | |
| EDAM09 | 94.680 | 5.320 | 726 | 1.988 | JUN | |
| EDAU09 | 94.640 | 5.360 | 817 | 2.238 | SEP | Green Pack |
| EDAZ09 | 94.600 | 5.400 | 908 | 2.487 | DEC | |
| EDAH10 | 94.580 | 5.420 | 999 | 2.736 | MAR | |
| EDAM10 | 94.550 | 5.450 | 1090 | 2.986 | JUN | |

Jim Goulding, jgoulding@ghco.com

## Overview of Hedging



**How many ways can you hedge the TED? Let me count…there's lots and lots, like:**

1 Regression
2 Engineered
3 Strip with and without Stubs
4 Convexity Bias
5 Weighted
6 Unweighted
and more…

Most of us are interested in the *unweighted hedge* which is simply a curve trade hedge.
There are so many ways to hedge the TED trade that I can't possibly list them all.

If you email me and ask for a specific hedge, I'll get it to you.
jgoulding@ghco.com

**Eurodollar Color Codes for Individual Year Strips:**

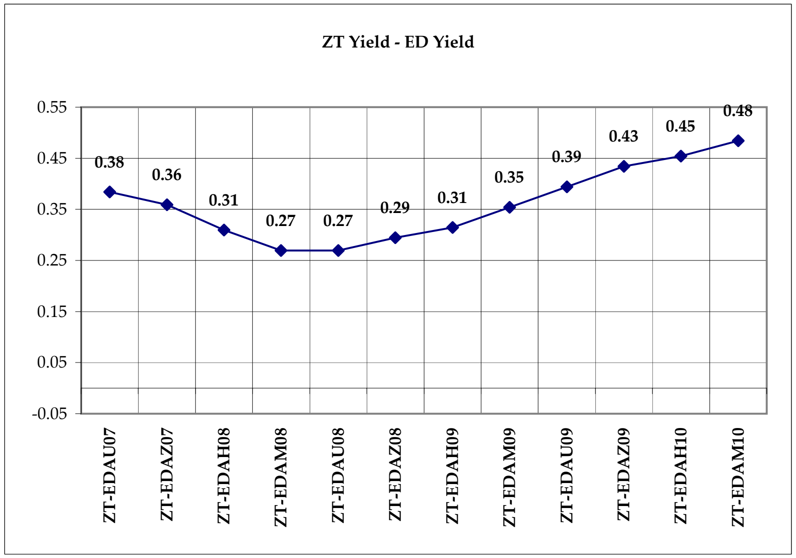
| Color | Year | Contracts |
|---|---|---|
| White | One | 1 – 4 |
| Red | Two | 5 – 8 |
| Green | Three | 9 – 12 |
| Blue | Four | 13 – 16 |
| Gold | Five | 17 – 20 |
| Purple | Six | 21 – 24 |
| Orange | Seven | 25 – 28 |
| Pink | Eight | 29 – 32 |
| Silver | Nine | 33 – 36 |
| Copper | Ten | 37 – 40 |

| 6/20/2007 5:53 | Page 1 |
|---|---|

**Dirty TED: ZT vs Eurodollar Contracts**

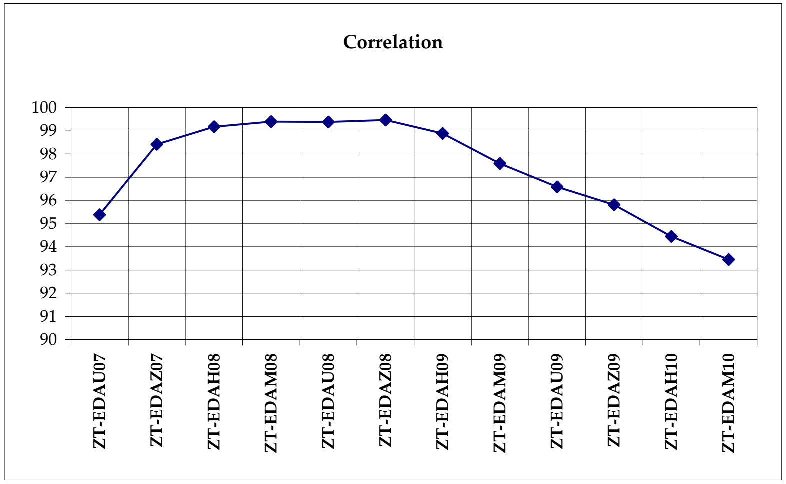
| | ZT | | | |
|---|---|---|---|---|
| | Spread Price | Spread Yield | Spread Name | Correlation* (percent) |
| EDAU07 | 7.091 | 0.38 | ZT-EDAU07 | 95.374 |
| EDAZ07 | 7.066 | 0.36 | ZT-EDAZ07 | 98.409 |
| EDAH08 | 7.016 | 0.31 | ZT-EDAH08 | 99.173 |
| EDAM08 | 6.976 | 0.27 | ZT-EDAM08 | 99.393 |
| EDAU08 | 6.976 | 0.27 | ZT-EDAU08 | 99.386 |
| EDAZ08 | 7.001 | 0.29 | ZT-EDAZ08 | 99.459 |
| EDAH09 | 7.021 | 0.31 | ZT-EDAH09 | 98.881 |
| EDAM09 | 7.061 | 0.35 | ZT-EDAM09 | 97.591 |
| EDAU09 | 7.101 | 0.39 | ZT-EDAU09 | 96.574 |
| EDAZ09 | 7.141 | 0.43 | ZT-EDAZ09 | 95.802 |
| EDAH10 | 7.161 | 0.45 | ZT-EDAH10 | 94.447 |
| EDAM10 | 7.191 | 0.48 | ZT-EDAM10 | 93.445 |

**Price** = Outright Decimal Price - Euro Contract Price
**Yield** = ABS(Proxy Yield - Implied Euro Contract yield)
***Correlation = ED Correlation to Treasury Future over 10 days**




| | GE Duration as Fraction of year | ZT Duration | Spread Duration | |
|---|---|---|---|---|
| EDAU07 | 0.243 | 1.88 | 1.64 | ZT-EDAU07 |
| EDAZ07 | 0.492 | 1.88 | 1.39 | ZT-EDAZ07 |
| EDAH08 | 0.742 | 1.88 | 1.14 | ZT-EDAH08 |
| EDAM08 | 0.991 | 1.88 | 0.89 | ZT-EDAM08 |
| EDAU08 | 1.240 | 1.88 | 0.64 | ZT-EDAU08 |
| EDAZ08 | 1.490 | 1.88 | 0.39 | ZT-EDAZ08 |
| EDAH09 | 1.739 | 1.88 | 0.14 | ZT-EDAH09 |
| EDAM09 | 1.988 | 1.88 | (0.11) | ZT-EDAM09 |
| EDAU09 | 2.238 | 1.88 | (0.36) | ZT-EDAU09 |
| EDAZ09 | 2.487 | 1.88 | (0.61) | ZT-EDAZ09 |
| EDAH10 | 2.736 | 1.88 | (0.86) | ZT-EDAH10 |
| EDAM10 | 2.986 | 1.88 | (1.11) | ZT-EDAM10 |

The farther away from 0 the spread duration is
the riskier the trade.

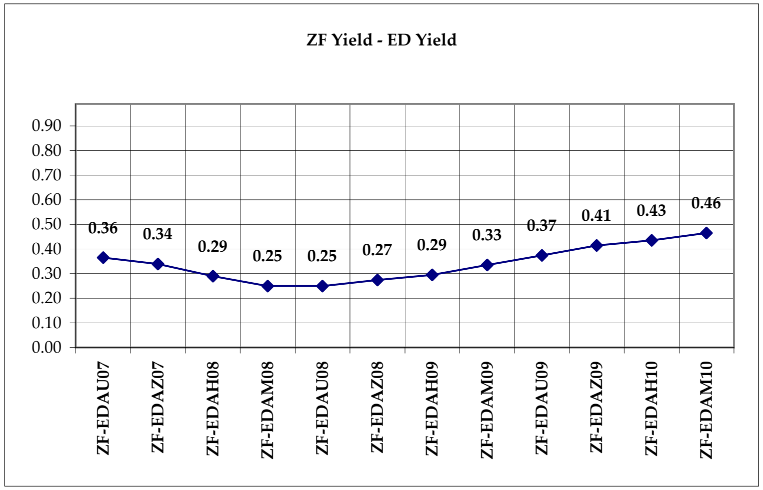



Jim Goulding, jgoulding@ghco.com

**Dirty TED: ZF vs Eurodollar Contracts**

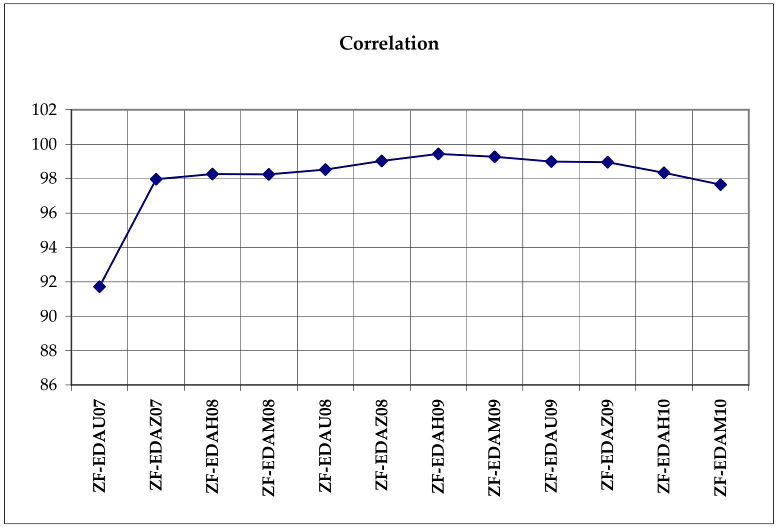
| | ZF | | | |
|---|---|---|---|---|
| | Spread Price | Spread Yield | Spread Name | Correlation* (percent) |
| EDAU07 | 9.16 | 0.36 | ZF-EDAU07 | 91.703 |
| EDAZ07 | 9.14 | 0.34 | ZF-EDAZ07 | 97.960 |
| EDAH08 | 9.09 | 0.29 | ZF-EDAH08 | 98.264 |
| EDAM08 | 9.05 | 0.25 | ZF-EDAM08 | 98.233 |
| EDAU08 | 9.05 | 0.25 | ZF-EDAU08 | 98.529 |
| EDAZ08 | 9.07 | 0.27 | ZF-EDAZ08 | 99.021 |
| EDAH09 | 9.09 | 0.29 | ZF-EDAH09 | 99.425 |
| EDAM09 | 9.13 | 0.33 | ZF-EDAM09 | 99.270 |
| EDAU09 | 9.17 | 0.37 | ZF-EDAU09 | 98.984 |
| EDAZ09 | 9.21 | 0.41 | ZF-EDAZ09 | 98.944 |
| EDAH10 | 9.23 | 0.43 | ZF-EDAH10 | 98.339 |
| EDAM10 | 9.26 | 0.46 | ZF-EDAM10 | 97.641 |

**Price** = Outright Decimal Price - Euro Contract Price
**Yield** = ABS(Proxy Yield - Implied Euro Contract yield)
***Correlation = ED Correlation to Treasury Future over 10 days**




| | GE Duration as Fraction of year | ZF Duration | Spread Duration | |
|---|---|---|---|---|
| EDAU07 | 0.243 | 3.96 | 3.72 | ZF-EDAU07 |
| EDAZ07 | 0.492 | 3.96 | 3.47 | ZF-EDAZ07 |
| EDAH08 | 0.742 | 3.96 | 3.22 | ZF-EDAH08 |
| EDAM08 | 0.991 | 3.96 | 2.97 | ZF-EDAM08 |
| EDAU08 | 1.240 | 3.96 | 2.72 | ZF-EDAU08 |
| EDAZ08 | 1.490 | 3.96 | 2.47 | ZF-EDAZ08 |
| EDAH09 | 1.739 | 3.96 | 2.22 | ZF-EDAH09 |
| EDAM09 | 1.988 | 3.96 | 1.97 | ZF-EDAM09 |
| EDAU09 | 2.238 | 3.96 | 1.73 | ZF-EDAU09 |
| EDAZ09 | 2.487 | 3.96 | 1.48 | ZF-EDAZ09 |
| EDAH10 | 2.736 | 3.96 | 1.23 | ZF-EDAH10 |
| EDAM10 | 2.986 | 3.96 | 0.98 | ZF-EDAM10 |

The farther away from 0 the spread duration is the riskier the trade.

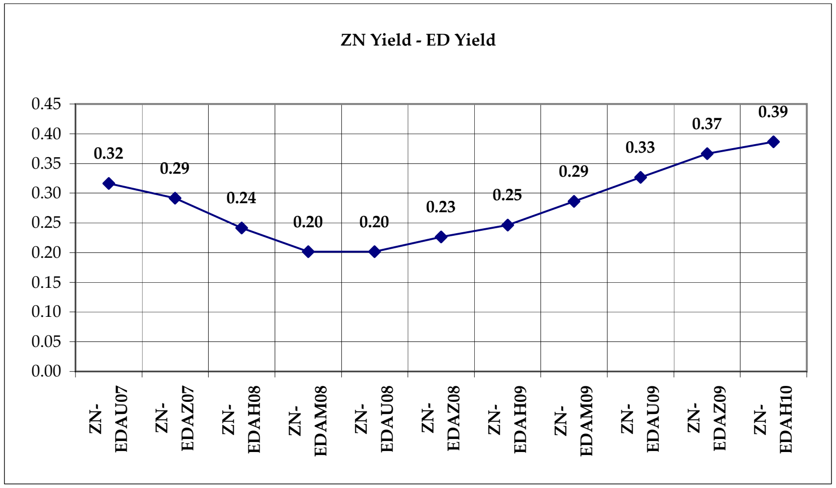



Jim Goulding, jgoulding@ghco.com

**Dirty TED: ZN vs Eurodollar Contracts**

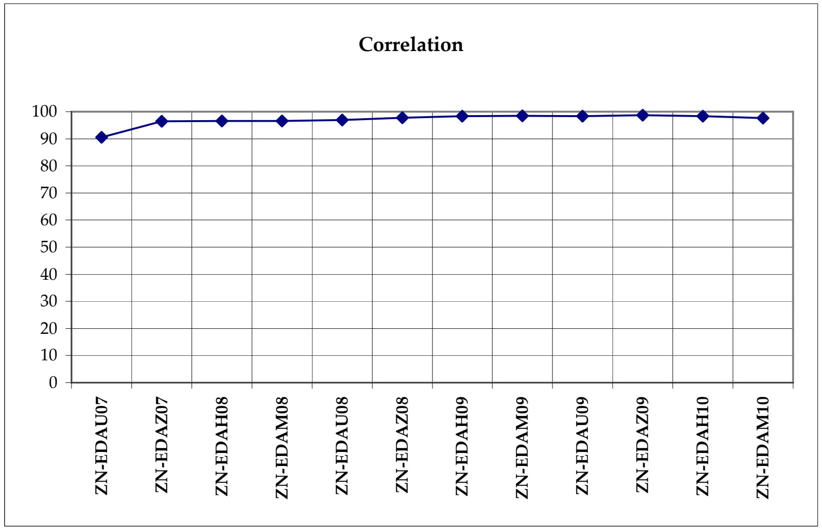
| | ZN | | | |
|---|---|---|---|---|
| | Spread Price | Spread Yield | Spread Name | Correlation* (percent) |
| EDAU07 | 10.63 | 0.32 | ZN-EDAU07 | 90.58 |
| EDAZ07 | 10.61 | 0.29 | ZN-EDAZ07 | 96.50 |
| EDAH08 | 10.56 | 0.24 | ZN-EDAH08 | 96.57 |
| EDAM08 | 10.52 | 0.20 | ZN-EDAM08 | 96.56 |
| EDAU08 | 10.52 | 0.20 | ZN-EDAU08 | 96.91 |
| EDAZ08 | 10.54 | 0.23 | ZN-EDAZ08 | 97.75 |
| EDAH09 | 10.56 | 0.25 | ZN-EDAH09 | 98.36 |
| EDAM09 | 10.60 | 0.29 | ZN-EDAM09 | 98.48 |
| EDAU09 | 10.64 | 0.33 | ZN-EDAU09 | 98.32 |
| EDAZ09 | 10.68 | 0.37 | ZN-EDAZ09 | 98.76 |
| EDAH10 | 10.70 | 0.39 | ZN-EDAH10 | 98.34 |
| EDAM10 | 10.73 | 0.42 | ZN-EDAM10 | 97.64 |

**Price** = Outright Decimal Price - Euro Contract Price
**Yield** = ABS(Proxy Yield - Implied Euro Contract yield)
***Correlation = ED Correlation to Treasury Future over 10 days**




| | GE Duration as Fraction of year | ZN Duration | Spread Duration | |
|---|---|---|---|---|
| EDAU07 | 0.243 | 5.78 | 5.54 | ZN-EDAU07 |
| EDAZ07 | 0.492 | 5.78 | 5.29 | ZN-EDAZ07 |
| EDAH08 | 0.742 | 5.78 | 5.04 | ZN-EDAH08 |
| EDAM08 | 0.991 | 5.78 | 4.79 | ZN-EDAM08 |
| EDAU08 | 1.240 | 5.78 | 4.54 | ZN-EDAU08 |
| EDAZ08 | 1.490 | 5.78 | 4.29 | ZN-EDAZ08 |
| EDAH09 | 1.739 | 5.78 | 4.04 | ZN-EDAH09 |
| EDAM09 | 1.988 | 5.78 | 3.79 | ZN-EDAM09 |
| EDAU09 | 2.238 | 5.78 | 3.54 | ZN-EDAU09 |
| EDAZ09 | 2.487 | 5.78 | 3.29 | ZN-EDAZ09 |
| EDAH10 | 2.736 | 5.78 | 3.04 | ZN-EDAH10 |
| EDAM10 | 2.986 | 5.78 | 2.79 | ZN-EDAM10 |

The farther away from 0 the spread duration is
the riskier the trade.

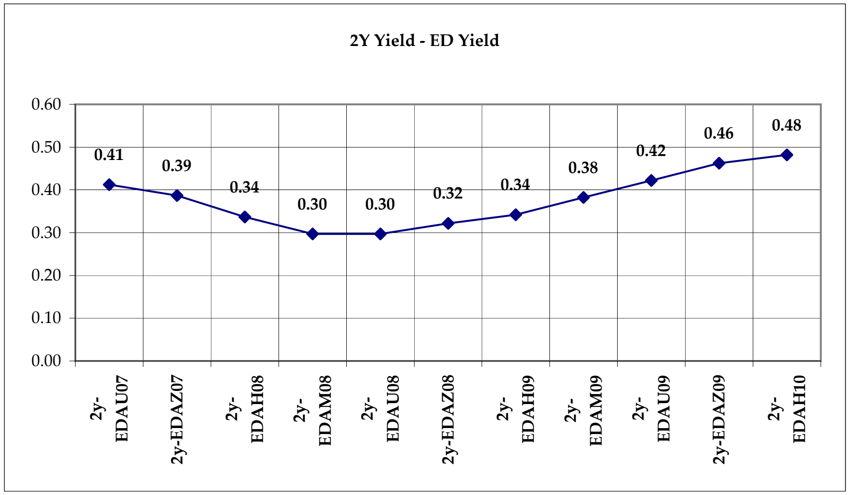



Jim Goulding, jgoulding@ghco.com

**TERM TED: 2y vs Eurodollar Contracts**

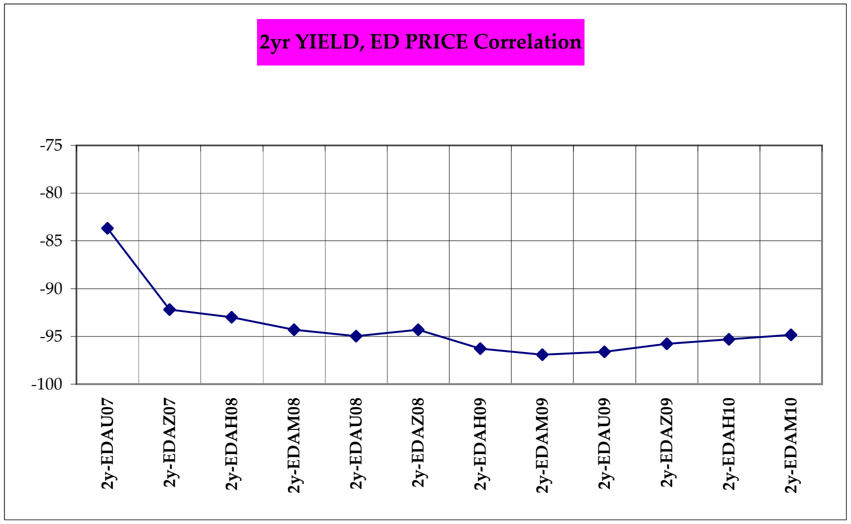
| | 2y | | | |
|---|---|---|---|---|
| | Spread Price | Spread Yield | Spread Name | Correlation* (percent) |
| EDAU07 | 5.23 | 0.41 | 2y-EDAU07 | -83.674 |
| EDAZ07 | 5.21 | 0.39 | 2y-EDAZ07 | -92.184 |
| EDAH08 | 5.16 | 0.34 | 2y-EDAH08 | -93.004 |
| EDAM08 | 5.12 | 0.30 | 2y-EDAM08 | -94.289 |
| EDAU08 | 5.12 | 0.30 | 2y-EDAU08 | -94.971 |
| EDAZ08 | 5.14 | 0.32 | 2y-EDAZ08 | -94.289 |
| EDAH09 | 5.16 | 0.34 | 2y-EDAH09 | -96.282 |
| EDAM09 | 5.20 | 0.38 | 2y-EDAM09 | -96.911 |
| EDAU09 | 5.24 | 0.42 | 2y-EDAU09 | -96.629 |
| EDAZ09 | 5.28 | 0.46 | 2y-EDAZ09 | -95.772 |
| EDAH10 | 5.30 | 0.48 | 2y-EDAH10 | -95.313 |
| EDAM10 | 5.33 | 0.51 | 2y-EDAM10 | -94.831 |

**Price** = Outright Decimal Price - Euro Contract Price
**Yield** = ABS(Proxy Yield - Implied Euro Contract yield)
***Correlation = ED Correlation to Treasury Future over 10 days.**
**These are measuring YIELD correlations.**




| | GE Duration as Fraction of year | 2Y Duration | Spread Duration | |
|---|---|---|---|---|
| EDAU07 | 0.243 | 2.02 | 1.77 | 2y-EDAU07 |
| EDAZ07 | 0.492 | 2.02 | 1.52 | 2y-EDAZ07 |
| EDAH08 | 0.742 | 2.02 | 1.27 | 2y-EDAH08 |
| EDAM08 | 0.991 | 2.02 | 1.02 | 2y-EDAM08 |
| EDAU08 | 1.240 | 2.02 | 0.78 | 2y-EDAU08 |
| EDAZ08 | 1.490 | 2.02 | 0.53 | 2y-EDAZ08 |
| EDAH09 | 1.739 | 2.02 | 0.28 | 2y-EDAH09 |
| EDAM09 | 1.988 | 2.02 | 0.03 | 2y-EDAM09 |
| EDAU09 | 2.238 | 2.02 | (0.22) | 2y-EDAU09 |
| EDAZ09 | 2.487 | 2.02 | (0.47) | 2y-EDAZ09 |
| EDAH10 | 2.736 | 2.02 | (0.72) | 2y-EDAH10 |
| EDAM10 | 2.986 | 2.02 | (0.97) | 2y-EDAM10 |

The farther away from 0 the spread duration is the riskier the trade.




Jim Goulding, jgoulding@ghco.com

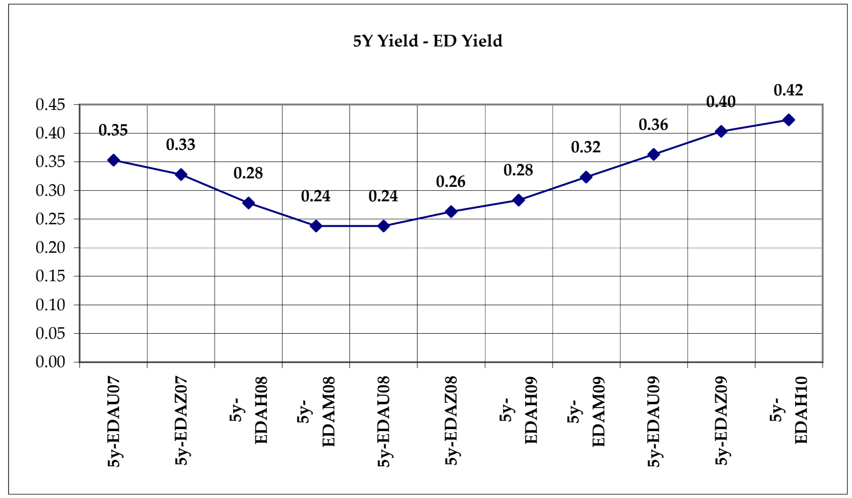
**TERM TED: 5y vs Eurodollar Contracts**

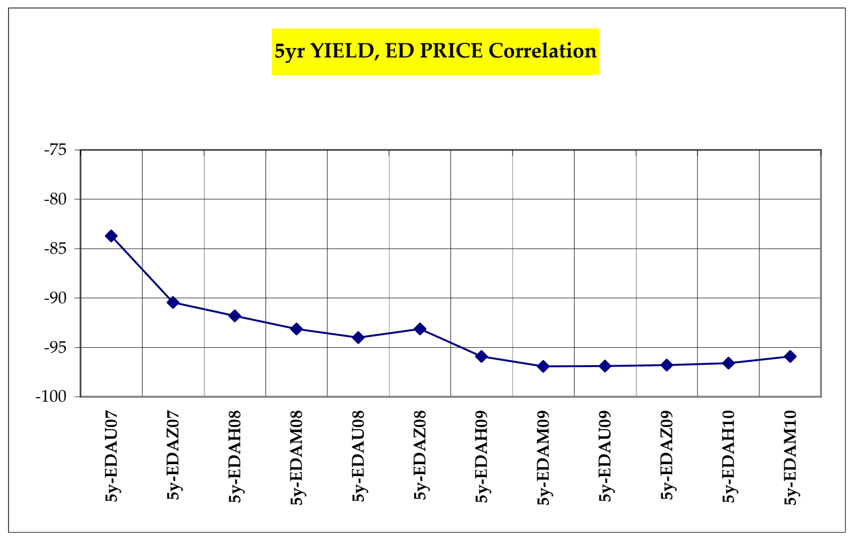
| | 5y | | | |
|---|---|---|---|---|
| | **Spread Price** | **Spread Yield** | **Spread Name** | **Correlation* (percent)** |
| EDAU07 | 4.26 | 0.35 | 5y-EDAU07 | -83.708 |
| EDAZ07 | 4.24 | 0.33 | 5y-EDAZ07 | -90.461 |
| EDAH08 | 4.19 | 0.28 | 5y-EDAH08 | -91.796 |
| EDAM08 | 4.15 | 0.24 | 5y-EDAM08 | -93.150 |
| EDAU08 | 4.15 | 0.24 | 5y-EDAU08 | -94.000 |
| EDAZ08 | 4.17 | 0.26 | 5y-EDAZ08 | -93.150 |
| EDAH09 | 4.19 | 0.28 | 5y-EDAH09 | -95.912 |
| EDAM09 | 4.23 | 0.32 | 5y-EDAM09 | -96.913 |
| EDAU09 | 4.27 | 0.36 | 5y-EDAU09 | -96.881 |
| EDAZ09 | 4.31 | 0.40 | 5y-EDAZ09 | -96.780 |
| EDAH10 | 4.33 | 0.42 | 5y-EDAH10 | -96.613 |
| EDAM10 | 4.36 | 0.45 | 5y-EDAM10 | -95.923 |

**Price** = Outright Decimal Price - Euro Contract Price
**Yield** = ABS(Proxy Yield - Implied Euro Contract yield)
***Correlation = ED Correlation to Treasury Future over 10 days**
**These are measuring YIELD correlations.**

| | **GE Duration as Fraction of year** | **5Y Duration** | **Spread Duration** | |
|---|---|---|---|---|
| EDAU07 | 0.243 | 4.28 | 4.04 | 5y-EDAU07 |
| EDAZ07 | 0.492 | 4.28 | 3.79 | 5y-EDAZ07 |
| EDAH08 | 0.742 | 4.28 | 3.54 | 5y-EDAH08 |
| EDAM08 | 0.991 | 4.28 | 3.29 | 5y-EDAM08 |
| EDAU08 | 1.240 | 4.28 | 3.04 | 5y-EDAU08 |
| EDAZ08 | 1.490 | 4.28 | 2.79 | 5y-EDAZ08 |
| EDAH09 | 1.739 | 4.28 | 2.54 | 5y-EDAH09 |
| EDAM09 | 1.988 | 4.28 | 2.29 | 5y-EDAM09 |
| EDAU09 | 2.238 | 4.28 | 2.04 | 5y-EDAU09 |
| EDAZ09 | 2.487 | 4.28 | 1.79 | 5y-EDAZ09 |
| EDAH10 | 2.736 | 4.28 | 1.54 | 5y-EDAH10 |
| EDAM10 | 2.986 | 4.28 | 1.29 | 5y-EDAM10 |

The farther away from 0 the spread duration is
the riskier the trade.



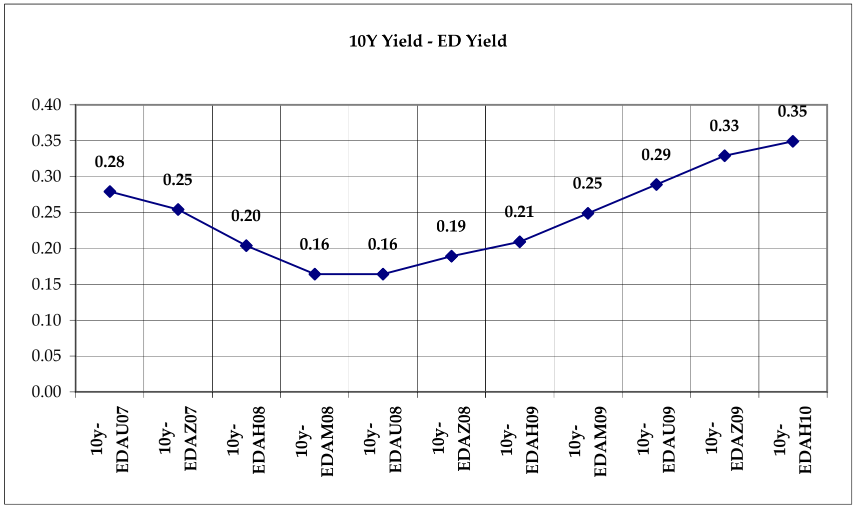




Jim Goulding, jgoulding@ghco.com

**TERM TED: 10y vs Eurodollar Contracts**

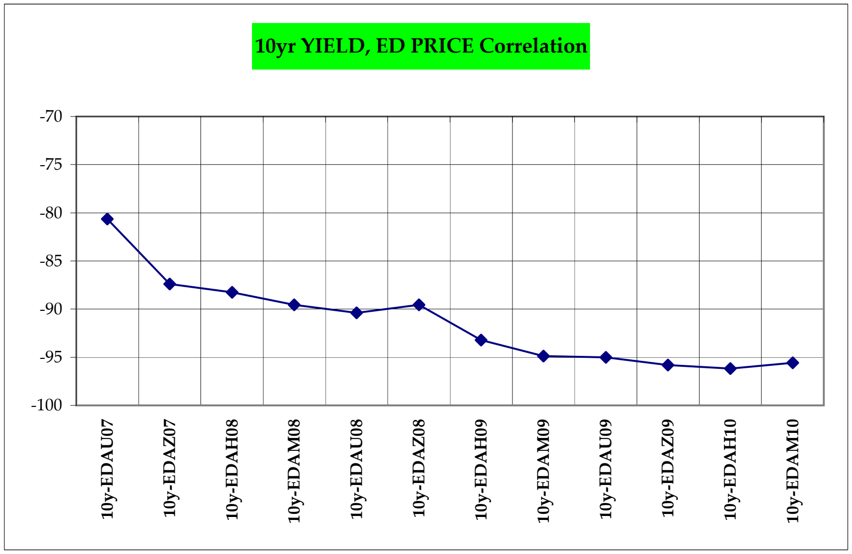
| | 10y | | | |
|---|---|---|---|---|
| | Spread Price | Spread Yield | Spread Name | Correlation* (percent) |
| EDAU07 | 4.26 | 0.28 | 10y-EDAU07 | -80.633 |
| EDAZ07 | 4.24 | 0.25 | 10y-EDAZ07 | -87.397 |
| EDAH08 | 4.19 | 0.20 | 10y-EDAH08 | -88.261 |
| EDAM08 | 4.15 | 0.16 | 10y-EDAM08 | -89.558 |
| EDAU08 | 4.15 | 0.16 | 10y-EDAU08 | -90.398 |
| EDAZ08 | 4.17 | 0.19 | 10y-EDAZ08 | -89.558 |
| EDAH09 | 4.19 | 0.21 | 10y-EDAH09 | -93.209 |
| EDAM09 | 4.23 | 0.25 | 10y-EDAM09 | -94.874 |
| EDAU09 | 4.27 | 0.29 | 10y-EDAU09 | -95.016 |
| EDAZ09 | 4.31 | 0.33 | 10y-EDAZ09 | -95.823 |
| EDAH10 | 4.33 | 0.35 | 10y-EDAH10 | -96.163 |
| EDAM10 | 4.36 | 0.38 | 10y-EDAM10 | -95.574 |

**Price** = Outright Decimal Price - Euro Contract Price
**Yield** = ABS(Proxy Yield - Implied Euro Contract yield)
***Correlation = ED Correlation to Treasury Future over 10 days**
**These are measuring YIELD correlations.**




| | GE Duration as Fraction of year | 10Y Duration | Spread Duration | |
|---|---|---|---|---|
| EDAU07 | 0.243 | 7.81 | 7.57 | 10y-EDAU07 |
| EDAZ07 | 0.492 | 7.81 | 7.32 | 10y-EDAZ07 |
| EDAH08 | 0.742 | 7.81 | 7.07 | 10y-EDAH08 |
| EDAM08 | 0.991 | 7.81 | 6.82 | 10y-EDAM08 |
| EDAU08 | 1.240 | 7.81 | 6.57 | 10y-EDAU08 |
| EDAZ08 | 1.490 | 7.81 | 6.32 | 10y-EDAZ08 |
| EDAH09 | 1.739 | 7.81 | 6.07 | 10y-EDAH09 |
| EDAM09 | 1.988 | 7.81 | 5.82 | 10y-EDAM09 |
| EDAU09 | 2.238 | 7.81 | 5.57 | 10y-EDAU09 |
| EDAZ09 | 2.487 | 7.81 | 5.33 | 10y-EDAZ09 |
| EDAH10 | 2.736 | 7.81 | 5.08 | 10y-EDAH10 |
| EDAM10 | 2.986 | 7.81 | 4.83 | 10y-EDAM10 |

The farther away from 0 the spread duration is
the riskier the trade.

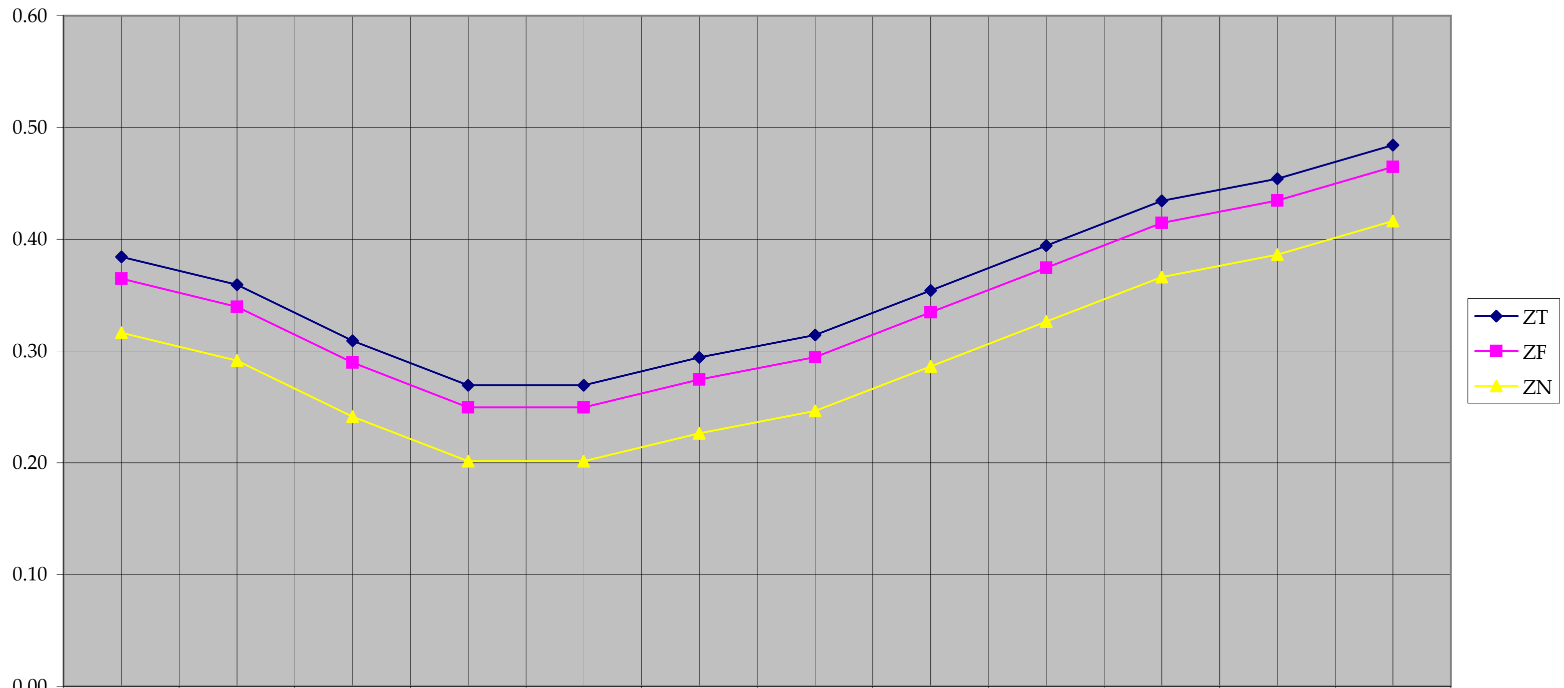



Jim Goulding, jgoulding@ghco.com

## Dirty TED Curve



Chart values show the differences between ED contract and Treasury Futures conctract. Those values can be seen in the table at the bottom of the chart. Each cash treasury is then plotted on the chart to compare differences in the durations and basis point values.



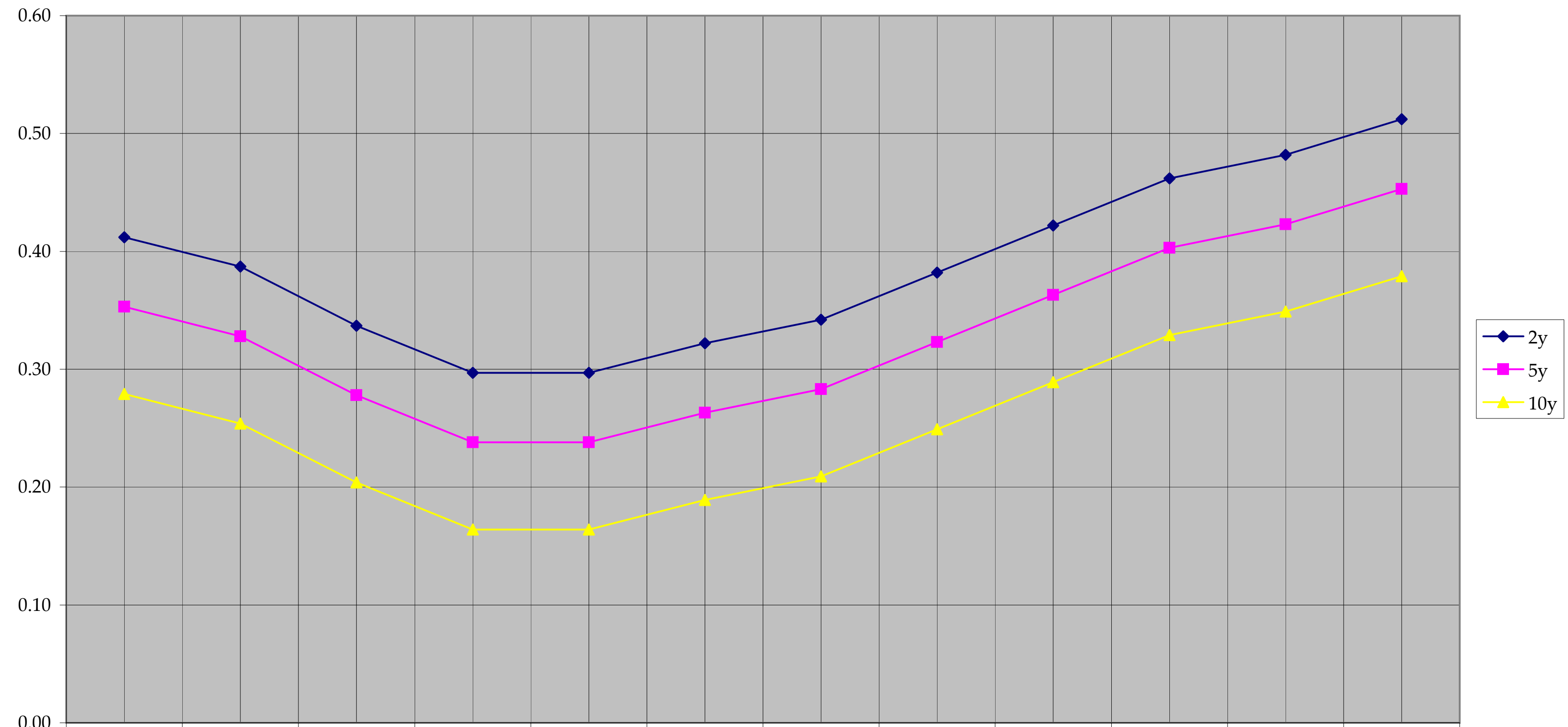

| | EDAU07 | EDAZ07 | EDAH08 | EDAM08 | EDAU08 | EDAZ08 | EDAH09 | EDAM09 | EDAU09 | EDAZ09 | EDAH10 | EDAM10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZT | 0.38 | 0.36 | 0.31 | 0.27 | 0.27 | 0.29 | 0.31 | 0.35 | 0.39 | 0.43 | 0.45 | 0.48 |
| ZF | 0.36 | 0.34 | 0.29 | 0.25 | 0.25 | 0.27 | 0.29 | 0.33 | 0.37 | 0.41 | 0.43 | 0.46 |
| ZN | 0.32 | 0.29 | 0.24 | 0.20 | 0.20 | 0.23 | 0.25 | 0.29 | 0.33 | 0.37 | 0.39 | 0.42 |

Jim Goulding, jgoulding@ghco.com

# TED Curve



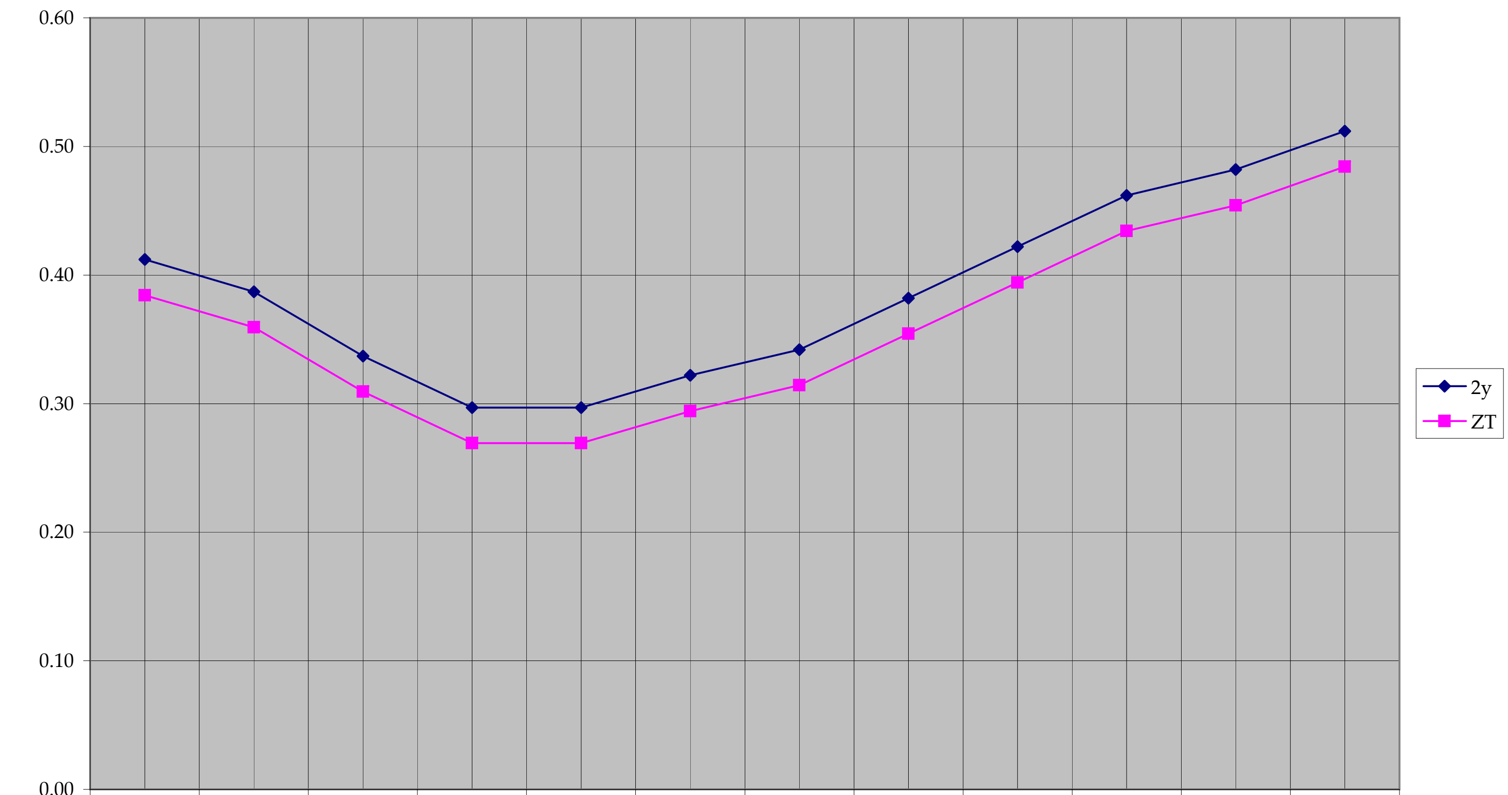
Chart values show the differences between ED contract and Treasury Cash conctract.  Those values can be seen in the table at the bottom of the chart.
Each cash treasury is then plotted on the chart to compare differences in the durations and basis point values.




| | EDAU07 | EDAZ07 | EDAH08 | EDAM08 | EDAU08 | EDAZ08 | EDAH09 | EDAM09 | EDAU09 | EDAZ09 | EDAH10 | EDAM10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2y | 0.41 | 0.39 | 0.34 | 0.30 | 0.30 | 0.32 | 0.34 | 0.38 | 0.42 | 0.46 | 0.48 | 0.51 |
| 5y | 0.35 | 0.33 | 0.28 | 0.24 | 0.24 | 0.26 | 0.28 | 0.32 | 0.36 | 0.40 | 0.42 | 0.45 |
| 10y | 0.28 | 0.25 | 0.20 | 0.16 | 0.16 | 0.19 | 0.21 | 0.25 | 0.29 | 0.33 | 0.35 | 0.38 |

Jim Goulding, jgoulding@ghco.com

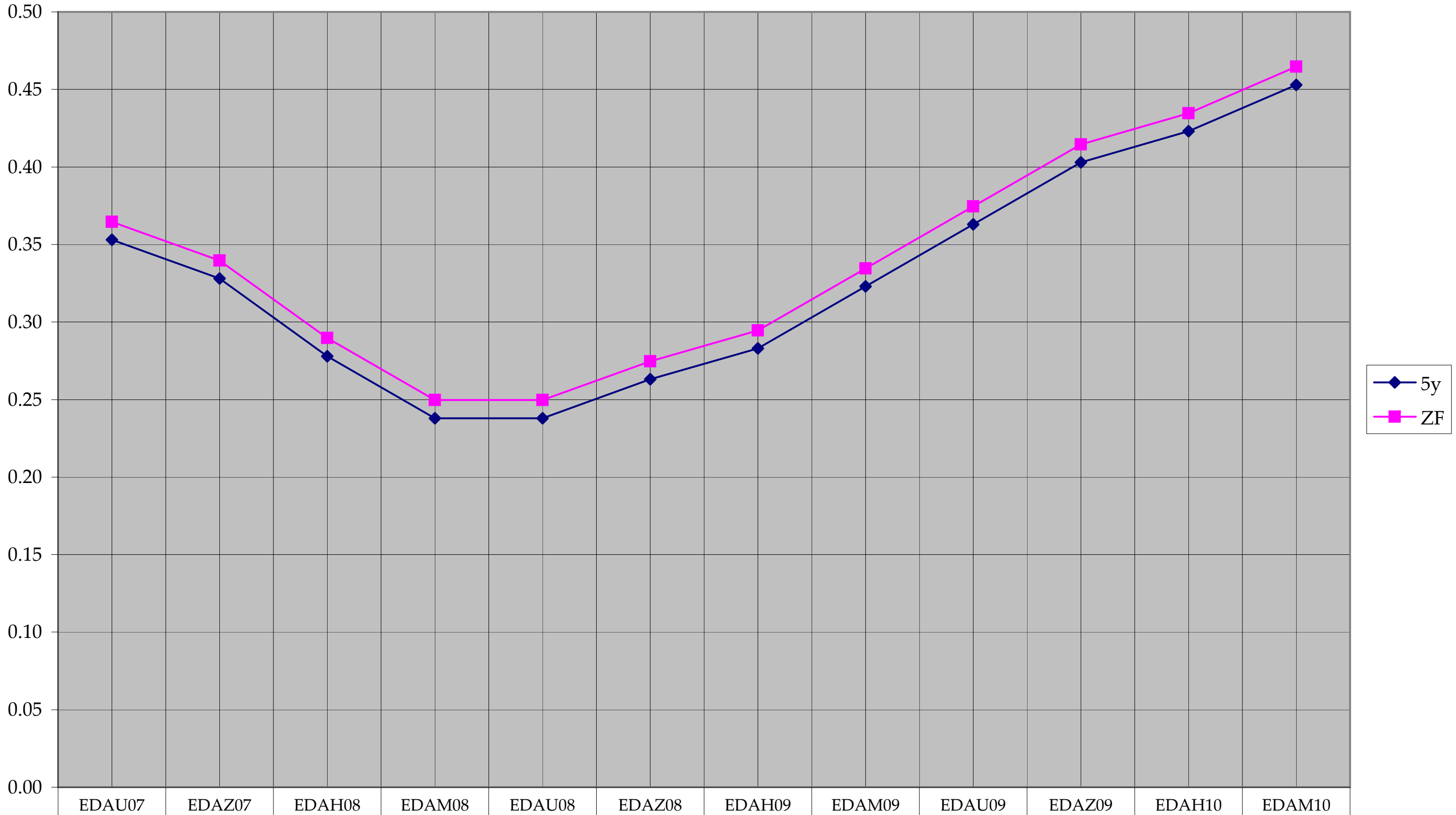
# 2y Basis TED Curve




| | EDAU07 | EDAZ07 | EDAH08 | EDAM08 | EDAU08 | EDAZ08 | EDAH09 | EDAM09 | EDAU09 | EDAZ09 | EDAH10 | EDAM10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2y | 0.41 | 0.39 | 0.34 | 0.30 | 0.30 | 0.32 | 0.34 | 0.38 | 0.42 | 0.46 | 0.48 | 0.51 |
| ZT | 0.38 | 0.36 | 0.31 | 0.27 | 0.27 | 0.29 | 0.31 | 0.35 | 0.39 | 0.43 | 0.45 | 0.48 |

Jim Goulding, jgoulding@ghco.com

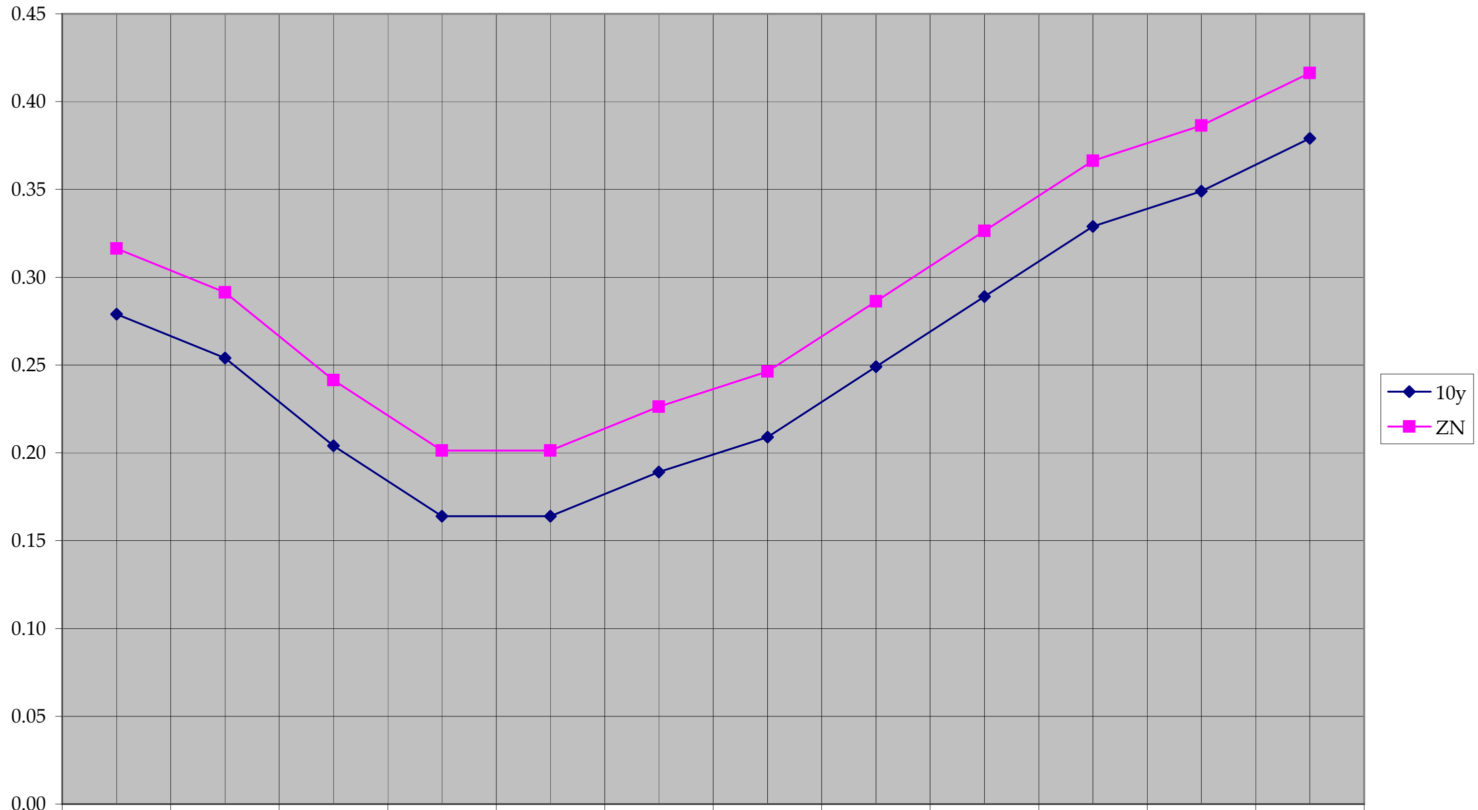
**5y Basis TED Curve**




| | EDAU07 | EDAZ07 | EDAH08 | EDAM08 | EDAU08 | EDAZ08 | EDAH09 | EDAM09 | EDAU09 | EDAZ09 | EDAH10 | EDAM10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5y | 0.35 | 0.33 | 0.28 | 0.24 | 0.24 | 0.26 | 0.28 | 0.32 | 0.36 | 0.40 | 0.42 | 0.45 |
| ZF | 0.36 | 0.34 | 0.29 | 0.25 | 0.25 | 0.27 | 0.29 | 0.33 | 0.37 | 0.41 | 0.43 | 0.46 |

Jim Goulding, jgoulding@ghco.com

## 10y Basis TED Curve




| | EDAU07 | EDAZ07 | EDAH08 | EDAM08 | EDAU08 | EDAZ08 | EDAH09 | EDAM09 | EDAU09 | EDAZ09 | EDAH10 | EDAM10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10y | 0.28 | 0.25 | 0.20 | 0.16 | 0.16 | 0.19 | 0.21 | 0.25 | 0.29 | 0.33 | 0.35 | 0.38 |
| ZN | 0.32 | 0.29 | 0.24 | 0.20 | 0.20 | 0.23 | 0.25 | 0.29 | 0.33 | 0.37 | 0.39 | 0.42 |

Jim Goulding, jgoulding@ghco.com