

The Morning Email: US & Germany

Table of Contents

Pg 1 Quotes 1

Pg 2 Quotes 2

Pg 3 Intrinsic & Tic for Tic Matrix'

Pg 4 Hedge Ratios - Bloomberg

Pg 5 Yields & Spreads

Pg 6 Volume Questions & Global Bond Market Characteristics



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

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Quotes 1



| 32 nds | | | | | | | | SYM NAME | | |
|-------------------------|---------|---------|---------|---------|---------|-------------|---------|-------------|----------------------------------|--|
| Last | Net | Hi | Low | Open | Volume | Yest Volume | | | | |
| TUAM8 | 107.137 | (0.007) | 107.182 | 107.112 | 107.162 | 71,155 | 372,578 | 2y Futures | US Futures Market | |
| FVAM8 | 114.075 | (0.005) | 114.145 | 114.042 | 114.117 | 128,483 | 660,964 | 5y Futures | | |
| TYAM8 | 117.060 | (0.035) | 117.140 | 117.020 | 117.120 | 184,134 | 961,076 | 10y Futures | | |
| USAM8 | 118.155 | (0.050) | 118.310 | 118.110 | 118.290 | 58,086 | 389,453 | 30y Futures | | |
| US Cash Treasury Market | | | | | | | | | | |
| Last | Net | Hi | Low | Open | Volume | | | | | |
| BUS02P | 100.235 | 0.2 | 100.272 | 100.212 | 100.257 | 2y | | | | |
| BUS05P | 101.070 | (1.7) | 101.140 | 101.032 | 101.105 | 5y | | | | |
| BUS10P | 99.220 | (5.0) | 99.295 | 99.180 | 99.250 | 10y | | | | |
| BUS30P | 99.050 | 1.5 | 99.220 | 99.000 | 99.220 | 30y | | | | |
| Last | Net | Hi | Low | Open | Volume | | | | | |
| BUS02Y | 1.620 | (0.10) | 1.668 | 1.556 | 1.656 | 2y Yield | | | | |
| BUS05Y | 2.486 | 0.90 | 2.517 | 2.439 | 2.496 | 5y Yield | | | | |
| BUS10Y | 3.535 | 1.30 | 3.556 | 3.505 | 3.526 | 10y Yield | | | | |
| BUS30Y | 4.420 | (0.20) | 4.437 | 4.388 | 4.424 | 30y Yield | | | | |



| Decimal | | | | | | | | SYM NAME | |
|---------|--------|--------|--------|--------|--------|-------------|-----------|------------|---------------------------------------|
| Last | Net | Hi | Low | Open | Volume | Yest Volume | | | |
| DGH8 | 104.84 | (2.00) | 104.92 | 104.81 | 104.92 | 865,350 | 1,121,956 | Schatz(2Y) | German Futures Markets |
| DLH8 | 111.49 | 6.00 | 111.51 | 111.33 | 111.46 | 730,104 | 968,013 | Bobl(5Y) | |
| DBH8 | 117.44 | 1.80 | 117.53 | 117.11 | 117.25 | 1,316,845 | 1,823,320 | Bund(10Y) | |

| | Price | Yield | | Maturity | SYM NAME | |
|--------------------|--------|-------|--------|------------|-----------|--|
| | Last | Last | Coupon | | | |
| T.US.DE040P1209*** | 101.37 | 3.165 | 4.000 | 12/11/2009 | 2 yr CTD | German Cash Treasury Market |
| T.US.DE042P1012*** | 103.77 | 3.339 | 4.250 | 10/12/2012 | 5 yr CTD | |
| T.US.DE036P0117** | 99.67 | 3.787 | 3.750 | 1/4/2017 | 10 yr CTD | |
| DEP2P* | 101.40 | 3.165 | 4.000 | 12/11/2009 | 2yr OTR | |
| DEP5P* | 103.81 | 3.339 | 4.250 | 10/12/2012 | 5yr OTR | |
| DEP10P* | 101.22 | 3.847 | 4.000 | 1/4/2018 | 10yr OTR | |

Notes

- Y = Yield
- DE = German Country Code
- CTD = Cheapest to Deliver
- OTR = On the Run
- * OTR
- ** CTD
- *** CTD & OTR

Quotes 2

This page provided a more detailed look at the quotes for the German Bonds
 German Bonds are quoted in decimal, not 32nds.



| Decimal | | | | | | |
|---------|--------|--------|--------|--------|--------|-------|
| | Bid | Ask | Last | Hi | Low | Chng |
| DGH8 | 104.84 | 104.85 | 104.84 | 104.92 | 104.81 | -2.00 |
| DLH8 | 111.49 | 111.49 | 111.49 | 111.51 | 111.33 | 6.00 |
| DBH8 | 117.43 | 117.44 | 117.44 | 117.53 | 117.11 | 1.80 |

| | Y Bid | Y Ask | Y Last | Y Hi | Y Lo |
|------|-------|-------|--------|-------|-------|
| DGH8 | 3.454 | 3.451 | 3.454 | 3.469 | 3.413 |
| DLH8 | 3.459 | 3.458 | 3.458 | 3.491 | 3.454 |
| DBH8 | 3.865 | 3.864 | 3.864 | 3.901 | 3.854 |

| | Y Bid | Y Ask | Y Last | Y Hi | Y Lo | Chng |
|--------------------|-------|-------|--------|-------|-------|------|
| T.US.DE040P1209*** | 3.182 | 3.165 | 3.165 | 3.194 | 3.101 | |
| T.US.DE042P1012*** | 3.348 | 3.339 | 3.339 | 3.378 | 3.327 | |
| T.US.DE036P0117** | 3.793 | 3.787 | 3.787 | 3.821 | 3.773 | |
| DEP2P* | 3.182 | 3.165 | 3.165 | 3.194 | 3.101 | -5 |
| DEP5P* | 3.348 | 3.339 | 3.339 | 3.378 | 3.327 | 7 |
| DEP10P* | 3.853 | 3.847 | 3.847 | 3.882 | 3.835 | 31 |

| Decimal | | | | | | |
|--------------------|--------|--------|--------|--------|--------|------|
| | Bid | Ask | Last | Hi | Low | Chng |
| T.US.DE040P1209*** | 101.37 | 101.40 | 101.40 | 101.51 | 101.35 | -5 |
| T.US.DE042P1012*** | 103.77 | 103.81 | 103.81 | 103.86 | 103.64 | 7 |
| T.US.DE036P0117** | 99.67 | 99.72 | 99.72 | 99.82 | 99.47 | 27 |
| DEP2P* | 101.37 | 101.40 | 101.40 | 101.51 | 101.35 | -5 |
| DEP5P* | 103.77 | 103.81 | 103.81 | 103.86 | 103.64 | 7 |
| DEP10P* | 101.17 | 101.22 | 101.22 | 101.32 | 100.94 | 31 |

| SYM NAME | |
|------------|----------------|
| Schatz(2Y) | German Futures |
| Bobl(5Y) | |
| Bund(10Y) | |

| | |
|------------|----------------|
| Schatz(2Y) | German Futures |
| Bobl(5Y) | |
| Bund(10Y) | |

| | |
|-----------|-------------|
| 2 yr CTD | German Cash |
| 5 yr CTD | |
| 10 yr CTD | |
| 2yr OTR | |
| 5yr OTR | |
| 10yr OTR | |

| SYM NAME | |
|-----------|-------------|
| 2 yr CTD | German Cash |
| 5 yr CTD | |
| 10 yr CTD | |
| 2yr OTR | |
| 5yr OTR | |
| 10yr OTR | |

Notes
 Y = Yield
 DE = German Country Code
 CTD = Cheapest to Deliver
 OTR = On the Run
 * OTR
 ** CTD
 *** CTD & OTR

Intrinsics & Tic for Tic Matrix'



| US Intrinsic's ^ | | | | |
|------------------|------------|---------|---------|---------|
| | M Duration | DV01 32 | DV01 \$ | DV01(€) |
| 30y | 16.52 | 5.26 | \$1,643 | € 2,495 |
| 10y | 8.32 | 2.66 | \$831 | € 1,263 |
| 5y | 4.64 | 1.52 | \$474 | € 720 |
| 2y | 1.94 | 0.63 | \$196 | € 298 |
| ZB | 10.48 | 4.07 | \$127 | € 193 |
| ZN | 6.06 | 2.31 | \$72 | € 109 |
| ZF | 4.11 | 1.52 | \$47 | € 72 |
| ZT | 1.92 | 0.68 | \$21 | € 32 |

^Futures are Based on CTD

| Tic for Tic Matrix (\$) | | | |
|-------------------------|------|-------|--------|
| | Bund | Bobl | Schatz |
| 30y | 9.46 | 17.77 | 39.06 |
| 10y | 4.78 | 8.99 | 19.77 |
| 5y | 2.73 | 5.13 | 11.27 |
| 2y | 1.13 | 2.12 | 4.66 |
| ZB | 0.73 | 1.38 | 3.03 |
| ZN | 0.41 | 1.34 | 1.71 |
| ZF | 0.27 | 0.51 | 1.13 |
| ZT | 0.12 | 0.23 | 0.50 |

Notes

1) CF = Conversion Factor

2) MDuration = Modified Macaulay Duration

3) MDuration & DV01s for Futures are based on proxy issue (CTD)



| German Intrinsic's ^ | | | | |
|----------------------|------------|---------|----------|----------|
| | M Duration | DV01(€) | DV01(\$) | CF |
| Bund | 7.35 | € 264 | \$174 | 0.849146 |
| Bobl | 4.08 | € 140 | \$92 | 0.931197 |
| Schatz | 1.93 | € 64 | \$42 | 0.947563 |
| DE10Y | 7.97 | € 1,233 | \$812 | |
| DE5Y | 4.08 | € 654 | \$430 | |
| DE2Y | 1.93 | € 306 | \$202 | |

^Futures are Based on CTD

| Last | |
|--------|--------|
| EURUSD | 151.90 |

| US Financial Futures / Eurex Bond | | | |
|-----------------------------------|------|------|------|
| | ZN | ZF | ZT |
| Bund (H) | 1.90 | 2.90 | 3.40 |
| Bobl (H) | 1.00 | 1.60 | 1.80 |
| Shatz (H) | 0.39 | 0.60 | 0.71 |

Bloomberg
Ratio's

| US Treasuries v Eurex Bonds | | | |
|-----------------------------|-----|------|------|
| | 2y | 5y | 10y |
| Bund (H) | 1.5 | 3.6 | 6.4 |
| Bobl (H) | 2.8 | 6.7 | 11.8 |
| Shatz (H) | 7.1 | 17.2 | 30.4 |

Bloomberg
Ratio's

| | Bund (H) | Bobl (H) | Shatz (H) |
|-----------|----------|----------|-----------|
| Bund (H) | 1.00 | 1.86 | 4.80 |
| Bobl (H) | 0.54 | 1.00 | 2.58 |
| Shatz (H) | 0.21 | 0.39 | 1.00 |

Bloomberg
Ratio's

Yields & Spreads

| US Cash Treasuries (OTR) | | | |
|--------------------------|-------|-------|-------|
| | Bid | Ask | Last |
| US2y | 1.624 | 1.620 | 1.620 |
| US5y | 2.487 | 2.486 | 2.486 |
| US10y | 3.537 | 3.535 | 3.535 |

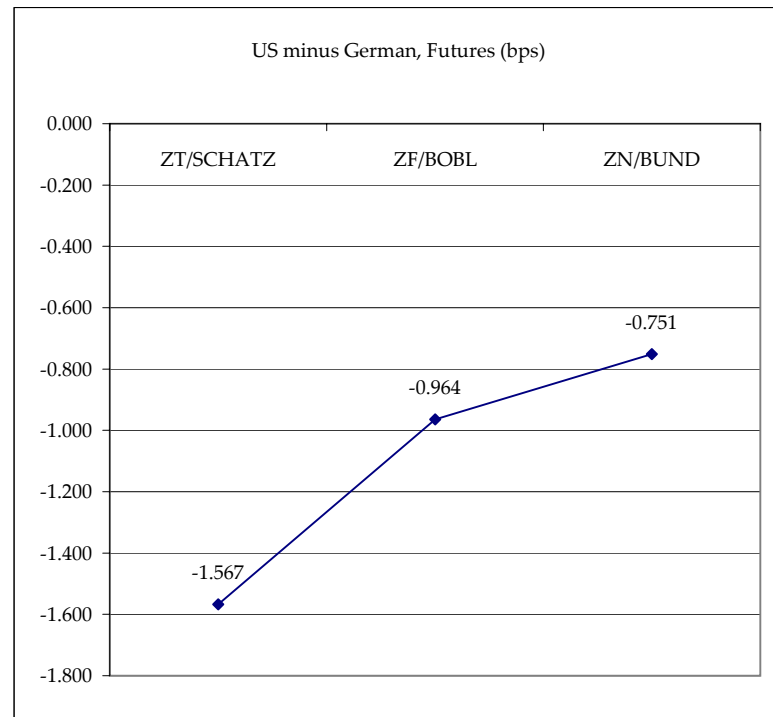
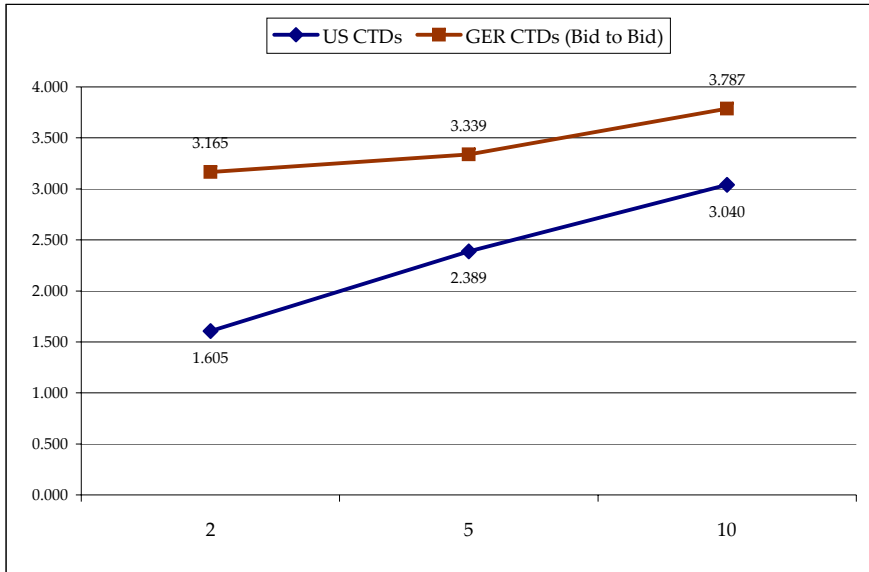
| German Cash Treasuries (OTR) | | | |
|------------------------------|-------|-------|-------|
| | Bid | Ask | Last |
| DE2y | 3.182 | 3.165 | 3.165 |
| DE5y | 3.348 | 3.339 | 3.339 |
| DE10y | 3.853 | 3.847 | 3.847 |

| Spreads Bps | |
|----------------|--------|
| ZT/SCHATZ | -1.567 |
| ZF/BOBL | -0.964 |
| ZN/BUND | -0.751 |

| US Cash Treasuries (CTD) | | | |
|--------------------------|-------|-------|-------|
| | Bid | Ask | Last |
| 4.000 of 03/10 | 1.605 | 1.598 | 1.598 |
| 4.125 of 08/12 | 2.389 | 2.375 | 2.375 |
| 4.000 of 02/15 | 3.040 | 3.035 | 3.035 |

| German Futures (CTD) | | | |
|----------------------|-------|-------|-------|
| | Bid | Ask | Last |
| 5.375 of 04/10 | 3.182 | 3.165 | 3.165 |
| 4.250 of 10/12 | 3.348 | 3.339 | 3.339 |
| 3.750 of 01/17 | 3.793 | 3.787 | 3.787 |

This chart shows the US futures, ZT, ZF, and ZN quoted in yield, then, comparing them to the German Futures, the Schatz (2yr), Bobl (5yr), and Bund (10yr). Cheapest to Deliver (CTD) are used as proxies for the yields.



When does the volume trade? Between what hours of the day? These are the two questions most frequently asked, by new traders to this contract. Of course number releases pertaining to the German economy will produce volume. Past that we can look at a chart of the Bund as determine when volume occurs.

| Time | Volume | |
|---------------------|--------|-------|
| | Rises | Drops |
| 1:00 AM CST | x | |
| 7:00 AM CST | x | |
| 10:00 AM CST | | x |
| 11:00 AM CST | | x |
| German Econ Release | x | |
| US Econ Release | x | |

Bond Market Characteristics

From The Treasury Bond Basis Book 3rd Edition, by Galen Burghardt

| Accrued Interest | Germany | Japan | UK |
|--------------------|---------|-------------|---------|
| Coupon (date) | Annual | semi (20th) | semi |
| Ex-dividend (days) | no | no | yes (7) |
| Accrual basis | actual | actual | actual |
| Year Basis | actual | 365 | actual |

Settlement time frame

| | | | |
|---------------|-----|-----|-----|
| Domestic | T+2 | T+3 | T+3 |
| International | T+3 | na | na |

Trading Basis

| | | | |
|--------------------|---------|--------------|---------|
| Quotation | price | simple yield | price |
| Tick | decimal | bp | decimal |
| Tax (resident) | 0 | 0 | 0 |
| Price/Yield Method | ISMA | Simple | DMO |

Repo

| | | | |
|---------------|--------|--------|--------|
| Accrual basis | actual | actual | actual |
| Year basis | 360 | 0 | 365 |

