



## The Morning Email: Treasuries

8/25/2008 6:08

### Table of Contents

- Pg 1 Important Econ Releases, Highs & Lows
- Pg 2 Quotes
- Pg 3 Duration, DV01s, Curve Spreads, CF
- Pg 4 Hedge Ratio's
- Pg 5 Treasury Closes: 2pm CT vs this Morning
- Pg 6 Cash Duration Matrix
- Pg 7 Tic for Tic & Box for Box Matrix
- Pg 8 Key Money Rate, Spreads, Swaps, Packs
- Pg 9 Libor, Fed Funds (OIS), Repo, SONIA & EONIA Rates
- Pg 10 Global 10yr Spreads over US Treasuries **NEW**

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

**Disclaimer:** All information within this newsletter is meant for internal use at GH Trader's LLC, only. All information has been recorded to the best of my ability. This material is based upon information that I consider reliable, but I do not represent that it is accurate or complete.

### Important Econ Releases, Highs & Lows

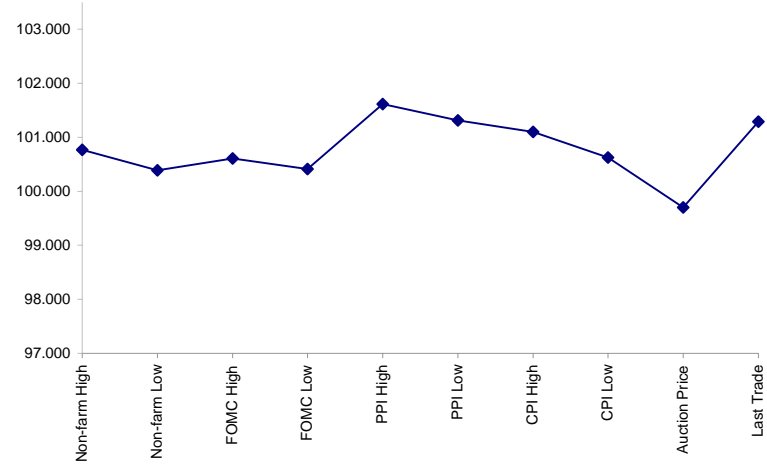
#### Economic Releases (32nds)

	5y	10y	ZNU8	ZBU8	Date
Non-farm High	100.2450	100.115	115.070	116.010	8/1/2008
Non-farm Low	100.1250	99.255	114.185	115.060	8/1/2008
FOMC High	100.1950	100.045	115.000	116.000	8/5/2008
FOMC Low	100.1325	99.245	114.200	115.085	8/5/2008
PPI High	101.1975	101.220	116.215	118.035	8/15/2008
PPI Low	101.1000	101.070	116.045	117.130	8/15/2008
CPI High	101.0325	101.010	115.305	117.055	8/14/2008
CPI Low	100.2000	100.090	115.060	115.310	8/14/2008
Auction Price	99.2252	99.124	na	na	
Last Trade	101.0920	101.130	116.120	118.025	8/25/2008 6:08

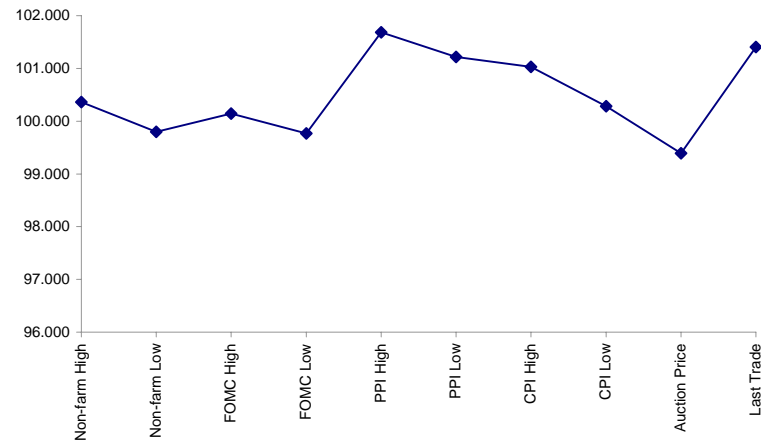
#### Auctions - 32nds

	2 y	5y	10y	30y
Auction Price	99.277	99.225	99.124	98.074
Auction Yield Stop	2.82	3.44	4.075	4.609
Actual Auction Date	7/23/2008	7/25/2008	8/6/2008	8/7/2008

5y (Decimal)



10y (Decimal)



**Notes:**

- 1) Cash and futures are adjusted for roll.
- 2) Release times are from release to 2pm cdt
- 3) {Jun08 to Sep08 Futures roll: ZF = (-27 3/4); ZN = (-49 1/2); ZB = (-30 1/2) [tics]}

Quotes

		32 nds					
	Last	Net	High	Low	Open	Volume	Sym Name
TUAU8	106.112	0.025	106.120	106.080	106.095	16,106	2y Fut
FVAU8	112.087	0.067	112.102	112.010	112.025	33,280	5y Fut
TYAU8	116.120	0.115	116.140	115.305	116.010	53,429	10y Fut
USAU8	118.025	0.12	118.050	117.190	117.210	12,394	30y Fut
	Last	Net	High	Low	Open	Volume	Sym Name
BUS02P	100.225	0.025	100.227	100.205	100.215	na	2y Cash
BUS05P	101.092	0.070	101.097	101.032	101.042	na	5y Cash
BUS10P	101.125	0.110	101.140	101.025	101.060	na	10y Cash
BUS30P	101.030	0.175	100.265	100.210	100.210	na	30y Cash
	Last	Net	High	Low	Open	Volume	Sym Name
BUS02Y	2.367	(0.042)	2.429	2.359	2.429	na	2y Yield
BUS05Y	3.089	(0.050)	3.144	3.084	3.144	na	5y Yield
BUS10Y	3.827	(0.045)	3.876	3.816	3.876	na	10y Yield
BUS30Y	4.430	(0.032)	4.498	4.426	4.467	na	30y Yield

	M Duration	DV01 32	DV01 \$	DV01 Box	CF	
30y	16.18	5.24	\$1,638	10.48	n/a	30y
10y	8.17	2.65	\$829	5.31	n/a	10y
5y	4.51	1.50	\$469	6.00	n/a	5y
2y	1.87	0.60	\$188	2.41	n/a	2y
ZB	10.26	3.96	\$124	3.96	0.7937	ZB
ZN	6.63	2.48	\$78	4.96	0.8539	ZN
ZF	3.92	1.45	\$45	2.90	0.8912	ZF
ZT	1.78	0.61	\$19	2.44	0.9443	ZT

Yield Curve Spreads

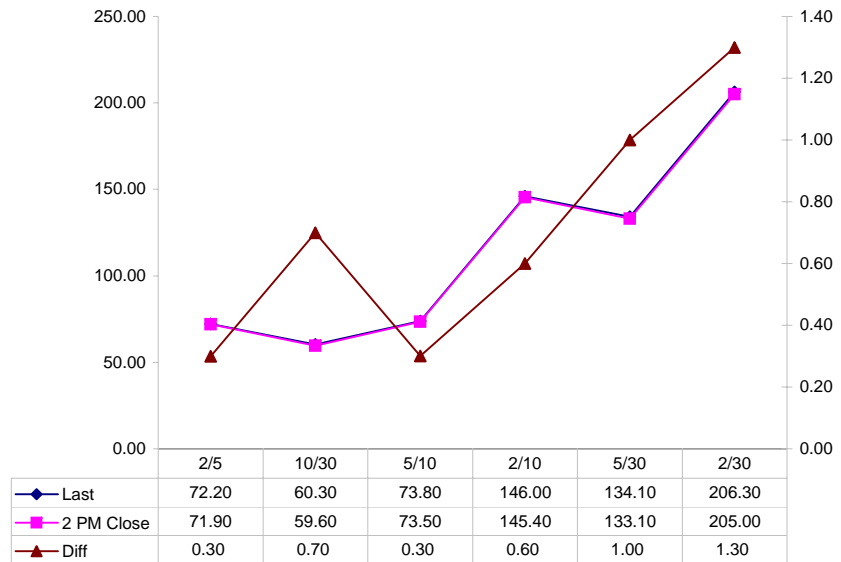
	Last	2pm close	Diff
2/5	72.20	71.90	0.30
10/30	60.30	59.60	0.70
5/10	73.80	73.50	0.30
2/10	146.00	145.40	0.60
5/30	134.10	133.10	1.00
2/30	206.30	205.00	1.30

DV01 32, said differently, is "how many TICS are in a basis point?".

Example, If ZN moves 1-basis point, then, it's moved 2.38 tics (Today, 06/25/08, the value in the box is 2.38).

Since ZN trades in half tics, then, 4.80 boxes = 1 basis point in ZN. (Again, today, 08/07/08, the value in the box is 4.80). Of course the values will be different as you look at this. But, they won't be that much different. So, I think you can get the idea I'm trying to get across.

Curve Spreads vs 2pm close



Notes

CF = Conversion Factor

MDuration = Modified Macaulay Duration

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

DV01 Box = Dollar Value of 1 basis point move per Box

## US Financial Futures / Eurex Bond

	ZB	ZN	ZF	ZT
<b>Bund (U)</b>	1.033	1.660	2.770	3.180
<b>Bobl (U)</b>	0.563	0.948	1.550	2.000
<b>Shatz (U)</b>	0.248	0.431	0.599	0.686

## US Financial Futures

	ZB	ZN	ZF	ZT
<b>ZB</b>		1.609	2.757	3.274
<b>ZN</b>	0.622		1.714	2.035
<b>ZF</b>	0.363	0.584		1.188
<b>ZT</b>	0.298	0.479	0.821	

## Eurex Bonds

	Bund (H)	Bobl (H)	Shatz (H)
<b>Bund (H)</b>		1.8	4.6
<b>Bobl (H)</b>	0.6		2.6
<b>Shatz (H)</b>	0.2	0.4	

## US Treasuries v US Financial Futures

	2y	5y	10y	30y
<b>ZB</b>	1.51	3.75	6.64	13.12
<b>ZN</b>	2.43	6.04	10.69	21.11
<b>ZF</b>	4.16	10.35	18.32	36.18
<b>ZT</b>	4.94	12.29	21.75	42.97

## US Treasuries v Eurex Bonds

	2y	5y	10y	30y
<b>Bund (U)</b>	1.5	3.7	6.6	12.8
<b>Bobl (U)</b>	2.8	6.7	12.0	23.3
<b>Shatz (U)</b>	7.2	17.1	30.7	59.7

## US Treasuries

	2y	5y	10y	30y
<b>2y</b>		2.487	4.400	8.692
<b>5y</b>	0.386		1.769	3.496
<b>10y</b>	0.218	0.565		1.976
<b>30y</b>	0.110	0.286	0.506	

Note: If you are looking at a matrix with Eurex products then those ratios are pulled from Bloomberg and are static. Meaning, I only update them once in a while but always on rolls. I calculate the other matrixes, with US products, everyday

Treasury Closes: 2pm CT vs this Morning

	Cpn	Mty	Close 32	Close	Last	Chng	Basis		Roll	Close 32	Last	
						from 2pm	Close	Last				
2y	2.750	7/31/10	100.2075	2.413	2.367	(0.046)	9.19	9.06		106.0900	106.1120	TUAU8
5y	3.375	7/31/13	101.0325	3.132	3.089	(0.043)	39.18	39.39		112.0225	112.0870	FVAU8
10y	4.000	8/15/18	101.035	3.867	3.827	(0.040)	64.97	65.08		116.010	116.120	TYAU8
30y	4.500	5/15/38	100.200	4.463	4.430	(0.033)	230.93	226.00		117.220	118.025	USAU8

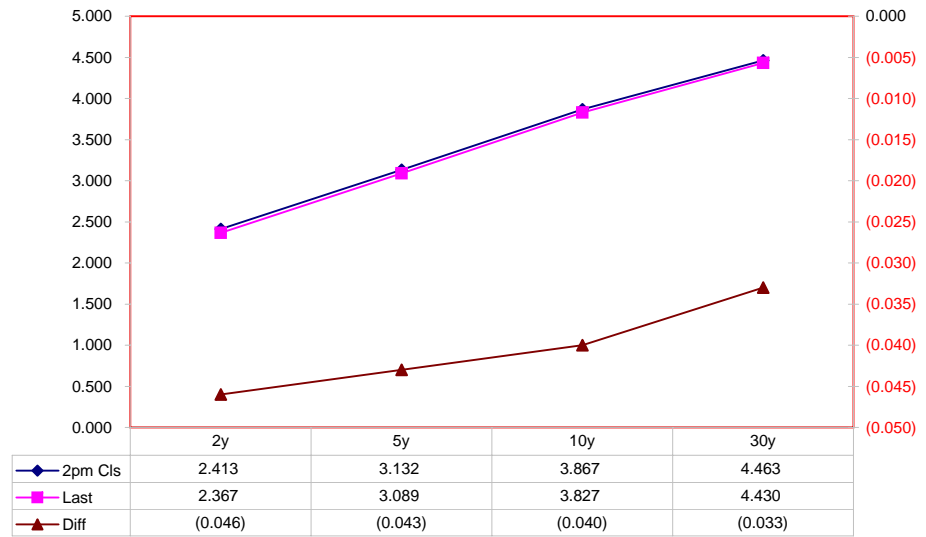
Curve Spreads

	Close bps	Last bps	Chng from 2pm
2/5	71.9	72.2	(0.3)
5/10	73.5	73.8	(0.3)
10/30	59.6	60.3	(0.7)
2/10	145.4	146.0	(0.6)
5/30	133.1	134.1	(1.0)
2/30	205.0	206.3	(1.3)

	Last	Chng on Day
Emini SP	1288.75	(3.50)
Crude Oil	115.58	0.99
Gold	828.70	(4.80)
EURUSD	147.66	(0.27)
USDJPY	109.92	(0.18)

News:

US Treasuries Last v 2pm Close



Notes:

Basis = (Cash Decimal - (Futures Decimal \* CF))\*32

MDuration for Curve Spreads:

Longer duration minus shorter duration

32 = price is quoted in 32nds

**What is this? (1):**  
2yr cash has X% duration of 5yr cash.

**Cash Duration Matrix**

	2	5	10	30
2	100%			
5	41%	100%		
10	23%	55%	100%	
30	11%	27%	50%	100%

**What is this? (2):**  
- 2yr cash has DV01 of X\$.  
- Multiply the 2yr DV01 by the percent duration to come up with what the 2yrs DV01 SHOULD be compared to the 5yr.

**Cash Matrix [DV01 x Duration]**

	2	5	10	30
2	\$188			
5	\$194	\$469		
10	\$190	\$457	\$829	
30	\$185	\$447	\$811	\$1,628

**What is this? (3):**  
- Now you can see the over/under value, based on the DV01, from contract to contract. In this example we are looking at the 2yr compared to the 5yr.

**Cash Matrix [DV01 over / (under) valued]**

	2	5	10	30
2				
5	(\$6)			
10	(\$1)	\$11		
30	\$3	\$21	\$18	

Or you can look at the over/under value as a percentage instead of dollar terms

**Cash Matrix [DV01 over / (under) as %]**

	2	5	10	30
2				
5	-2.96%			
10	-0.59%	2.45%		
30	1.64%	4.74%	2.24%	

## Tic for Tic Matrix

	2y	5y	10y	30y
ZT	0.99	2.46	4.35	8.54
ZF	0.42	1.04	1.83	3.60
ZN	0.25	0.62	1.11	2.17
ZB	0.15	0.38	0.67	1.32

	2y	5y	10y	30y
2y		2.49	4.40	8.64
5y	0.40		1.77	3.47
10y	0.23	0.57		1.96
30y	0.12	0.29	0.51	

	ZT	ZF	ZN	ZB
ZT		2.38	3.94	6.49
ZF	0.42		1.66	2.73
ZN	0.25	0.60		1.65
ZB	0.15	0.37	0.61	

## Box for Box Matrix

	2y	5y	10y	30y
ZT	0.99	2.46	8.70	17.08
ZF	0.42	1.04	3.66	7.19
ZN	0.50	1.25	1.11	2.17
ZB	0.61	0.76	1.34	1.32

	2y	5y	10y	30y
2y		2.49	2.20	4.32
5y	0.40		0.44	1.74
10y	0.45	2.26		1.96
30y	0.23	0.58	0.51	

	ZT	ZF	ZN	ZB
ZT		2.38	7.87	12.98
ZF	0.42		1.66	5.46
ZN	0.13	0.60		1.65
ZB	0.08	0.18	0.61	



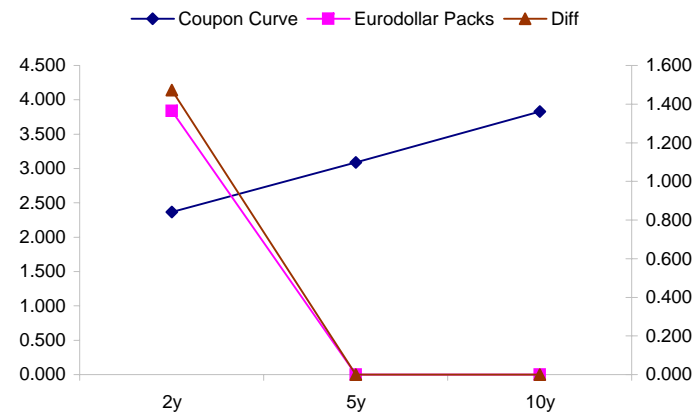
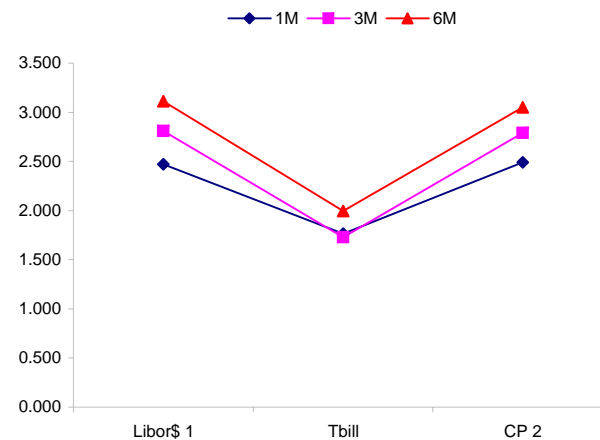
	Libor\$ <sup>1</sup>	Repo Rt <sup>6</sup>			
0/N	2.098	2.000			
1week	2.418	1.950			
2week	2.438	1.950			
	Libor\$ <sup>1</sup>	Tbill	CP <sup>2</sup>		
1M	2.472	1.766	2.490		
3M	2.810	1.730	2.790		
6M	3.114	1.996	3.050		
	TSY	Swp	Swp Rate <sup>5</sup>	ED Pks <sup>3</sup>	TSY - ED Pk <sup>4</sup>
2y	2.366	100.25	3.37	3.838	1.473
5y	3.091	98.50	4.08		#VALUE!
10y	3.831	70.25	4.53		#VALUE!

<u>2/5</u>	<u>Rd/Blu Pk</u>	<u>Diff</u>	
72.5	#VALUE!	#VALUE!	Red pack / Blue pack is a 2/5 proxy
<u>2/10</u>	<u>Rd/Gld Pk</u>	<u>Diff</u>	
146.5	#VALUE!	#VALUE!	Red pack / Gold pack is a 2/10 proxy
<u>5/10</u>	<u>Blu/Gld Pk</u>	<u>Diff</u>	
74.0	#VALUE!	#VALUE!	Blue pack / Gold pack is a 5/10 proxy

"Swap spreads are essentially a measure of the difference between buying a safe government bond and making a riskier loan to a bank"  
 --WSJ

**Notes:**

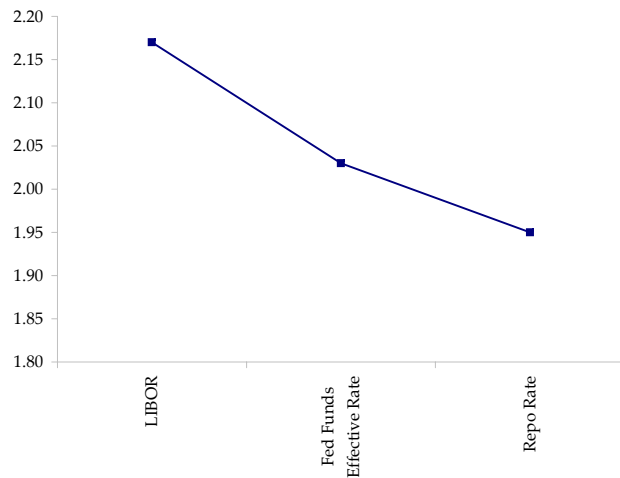
- 1) Quoted in US Dollars
- 2) CP = Commercial Paper
- 3) ED Pks are colored for pack identifications. Example, the red pack is a 2-yr proxy and is colored red.
- 4) TSY yield minus ED Pk yield
- 5) Swap divided by 100 + TSY yield gives swap rate in basis points.
- 6) Repo Rt quotes is for overnight General Collateral



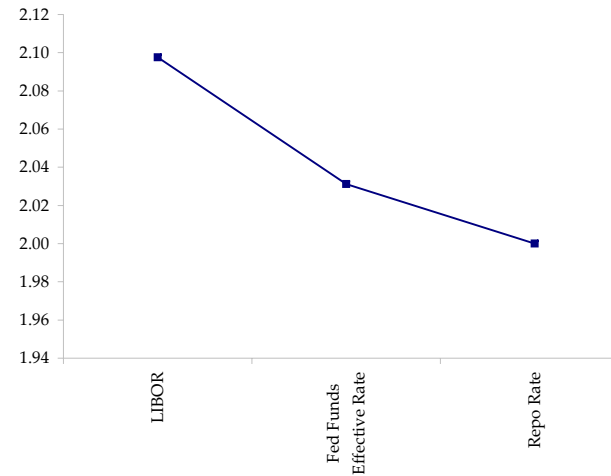
	Last	Chng	Term	Asset Type
USDLIBON	2.098	0.0000	Overnight	LIBOR
TUSFFRON	2.031	0.0000	Overnight	Fed Funds Effective Rate
TUSRPOON	2.000	0.0000	Overnight	Repo Rate
TEONIA01M	4.304	0.0010	1 month	Euribor OIS Rate
TEONIA03M	4.330	0.0020	3 month	Euribor OIS Rate
TSONIA01M	5.018	0.0000	1 month	Sterling OIS Rate
TSONIA03M	5.001	(0.0020)	3 month	Sterling OIS Rate
TUSOIS01M	2.017	0.0040	1 month	USD OIS Rate
TUSOIS03M	2.037	0.0000	3 month	USD OIS Rate

Example, below

Overnight Rates -EXAMPLE



Overnight Rates



←  
A 'normal' lending curve looks like the chart to the left. That is, the Libor should be a bit higher than Fed Funds Effective rate (FFER), and the FFER should be a bit higher than the Repo Rate.

Global 10yr Spreads over US Treasuries

Country	8/19/2008	8/20/2008	8/21/2008	8/22/2008	Last
Australia	199	207	190.5	192.5	190.74
France	52.4	49.8	52.9	53.6	51.76
Germany	32.8	33.4	33.3	34.9	34.29
Japan	-240.2	-236.2	-242.7	-240	-239.4
U.K.	75.5	77.1	72.7	74.4	73.77

