

Morning Email: TERM TEDS & Dirty TEDS

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		F.I. Futures and Cash			
	Last Decimal	Last 32	Last Yield*	**MDuration	
ZT	102.3188	102.102	4.637	1.83	
ZF	105.6563	105.210	4.546	3.88	
ZN	108.0313	108.010	4.598	5.83	
Blank					
2y	99.725	99.2320	4.644	1.83	
5y	99.725	99.2320	4.562	4.37	
10y	99.703	99.2250	4.660	7.75	

*Futures use CTD for Last Yield

**Mduration = Modified Macaulay Duration

		Eurodollars (ED)					
	Last Price	Last Imp Yield	Days til Expr.	Fraction of year	Month		
F.EDAM07	94.670	5.330	56	0.153	JUN	} White Pack	
F.EDAU07	94.795	5.205	147	0.402	SEP		
F.EDAZ07	94.990	5.010	238	0.651	DEC		
F.EDAH08	95.190	4.810	329	0.901	MAR	} Red Pack	
F.EDAM08	95.305	4.695	420	1.150	JUN		
F.EDAU08	95.345	4.655	511	1.399	SEP		
F.EDAZ08	95.345	4.655	602	1.649	DEC		
F.EDAH09	95.325	4.675	693	1.898	MAR	} Green Pack	
F.EDAM09	95.270	4.730	784	2.147	JUN		
F.EDAU09	95.220	4.780	875	2.397	SEP		
F.EDAZ09	95.165	4.835	966	2.646	DEC		
F.EDAH10	95.120	4.880	1057	2.895	MAR		

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.

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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

Dirty TED: ZT vs Eurodollar Contracts

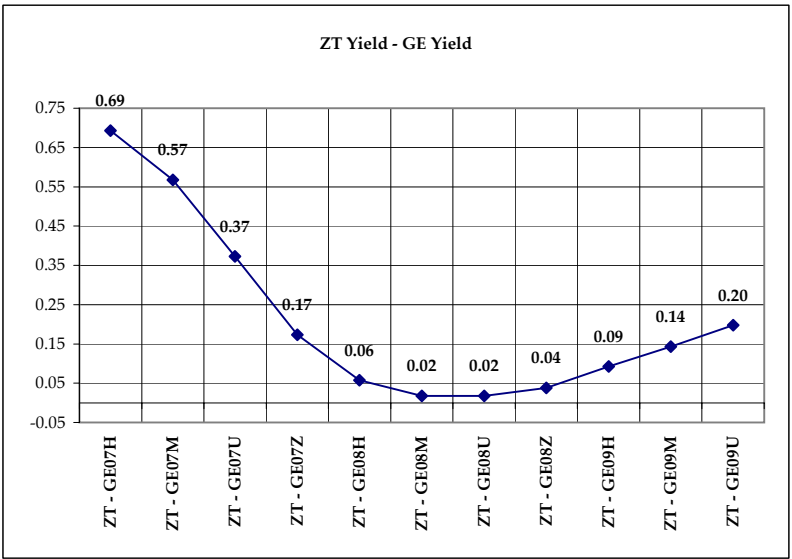
ZT			
	Spread Price	Spread Yield	Spread Name
F.EDAM07	7.649	0.69	ZT - GE07H
F.EDAU07	7.524	0.57	ZT - GE07M
F.EDAZ07	7.329	0.37	ZT - GE07U
F.EDAH08	7.129	0.17	ZT - GE07Z
F.EDAM08	7.014	0.06	ZT - GE08H
F.EDAU08	6.974	0.02	ZT - GE08M
F.EDAZ08	6.974	0.02	ZT - GE08U
F.EDAH09	6.994	0.04	ZT - GE08Z
F.EDAM09	7.049	0.09	ZT - GE09H
F.EDAU09	7.099	0.14	ZT - GE09M
F.EDAZ09	7.154	0.20	ZT - GE09U
F.EDAH10	7.199	0.24	ZT - GE09Z

Price = Outright Decimal Price - Euro Contract Price

Yield = ABS(Proxy Yield - Implied Euro Contract yield)

	GE Duration as Fraction of year	ZT Duration	Spread Duration	
F.EDAM07	0.153	1.83	1.67	ZT - GE07H
F.EDAU07	0.402	1.83	1.42	ZT - GE07M
F.EDAZ07	0.651	1.83	1.18	ZT - GE07U
F.EDAH08	0.901	1.83	0.93	ZT - GE07Z
F.EDAM08	1.150	1.83	0.68	ZT - GE08H
F.EDAU08	1.399	1.83	0.43	ZT - GE08M
F.EDAZ08	1.649	1.83	0.18	ZT - GE08U
F.EDAH09	1.898	1.83	(0.07)	ZT - GE08Z
F.EDAM09	2.147	1.83	(0.32)	ZT - GE09H
F.EDAU09	2.397	1.83	(0.57)	ZT - GE09M
F.EDAZ09	2.646	1.83	(0.82)	ZT - GE09U
F.EDAH10	2.895	1.83	(1.07)	ZT - GE09Z

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



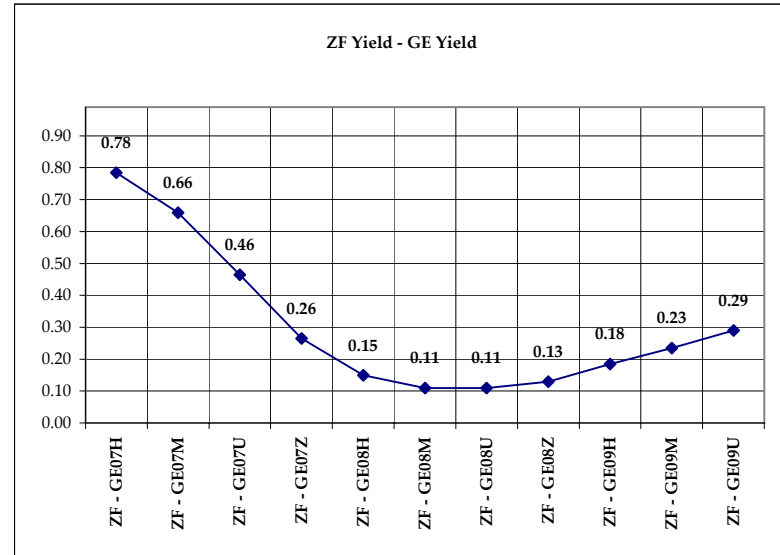
Dirty TED: ZF vs Eurodollar Contracts

ZF			
	Spread Price	Spread Yield	Spread Name
F.EDAM07	10.99	0.78	ZF - GE07H
F.EDAU07	10.86	0.66	ZF - GE07M
F.EDAZ07	10.67	0.46	ZF - GE07U
F.EDAH08	10.47	0.26	ZF - GE07Z
F.EDAM08	10.35	0.15	ZF - GE08H
F.EDAU08	10.31	0.11	ZF - GE08M
F.EDAZ08	10.31	0.11	ZF - GE08U
F.EDAH09	10.33	0.13	ZF - GE08Z
F.EDAM09	10.39	0.18	ZF - GE09H
F.EDAU09	10.44	0.23	ZF - GE09M
F.EDAZ09	10.49	0.29	ZF - GE09U
F.EDAH10	10.54	0.33	ZF - GE09U

Price = Outright Decimal Price - Euro Contract Price
 Yield = ABS(Proxy Yield - Implied Euro Contract yield)

	GE Duration as Fraction of year	ZF Duration	Spread Duration	
F.EDAM07	0.153	3.88	3.72	ZF - GE07H
F.EDAU07	0.402	3.88	3.48	ZF - GE07M
F.EDAZ07	0.651	3.88	3.23	ZF - GE07U
F.EDAH08	0.901	3.88	2.98	ZF - GE07Z
F.EDAM08	1.150	3.88	2.73	ZF - GE08H
F.EDAU08	1.399	3.88	2.48	ZF - GE08M
F.EDAZ08	1.649	3.88	2.23	ZF - GE08U
F.EDAH09	1.898	3.88	1.98	ZF - GE08Z
F.EDAM09	2.147	3.88	1.73	ZF - GE09H
F.EDAU09	2.397	3.88	1.48	ZF - GE09M
F.EDAZ09	2.646	3.88	1.23	ZF - GE09U
F.EDAH10	2.895	3.88	0.98	ZF - GE09U

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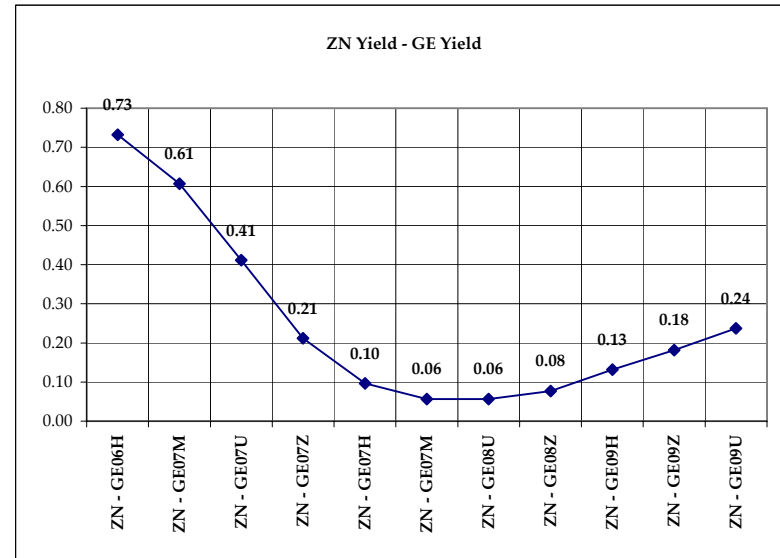
Dirty TED: ZN vs Eurodollar Contracts

ZN			
	Spread Price	Spread Yield	Spread Name
F.EDAM07	13.36	0.73	ZN - GE06H
F.EDAU07	13.24	0.61	ZN - GE07M
F.EDAZ07	13.04	0.41	ZN - GE07U
F.EDAH08	12.84	0.21	ZN - GE07Z
F.EDAM08	12.73	0.10	ZN - GE07H
F.EDAU08	12.69	0.06	ZN - GE07M
F.EDAZ08	12.69	0.06	ZN - GE08U
F.EDAH09	12.71	0.08	ZN - GE08Z
F.EDAM09	12.76	0.13	ZN - GE09H
F.EDAU09	12.81	0.18	ZN - GE09Z
F.EDAZ09	12.87	0.24	ZN - GE09U
F.EDAH10	12.91	0.28	ZN - GE09U

Price = Outright Decimal Price - Euro Contract Price
 Yield = ABS(Proxy Yield - Implied Euro Contract yield)

	GE Duration as Fraction of year	ZN Duration	Spread Duration	
F.EDAM07	0.153	5.83	5.68	ZN - GE06H
F.EDAU07	0.402	5.83	5.43	ZN - GE07M
F.EDAZ07	0.651	5.83	5.18	ZN - GE07U
F.EDAH08	0.901	5.83	4.93	ZN - GE07Z
F.EDAM08	1.150	5.83	4.68	ZN - GE07H
F.EDAU08	1.399	5.83	4.43	ZN - GE07M
F.EDAZ08	1.649	5.83	4.19	ZN - GE08U
F.EDAH09	1.898	5.83	3.94	ZN - GE08Z
F.EDAM09	2.147	5.83	3.69	ZN - GE09H
F.EDAU09	2.397	5.83	3.44	ZN - GE09Z
F.EDAZ09	2.646	5.83	3.19	ZN - GE09U
F.EDAH10	2.895	5.83	2.94	ZN - GE09U

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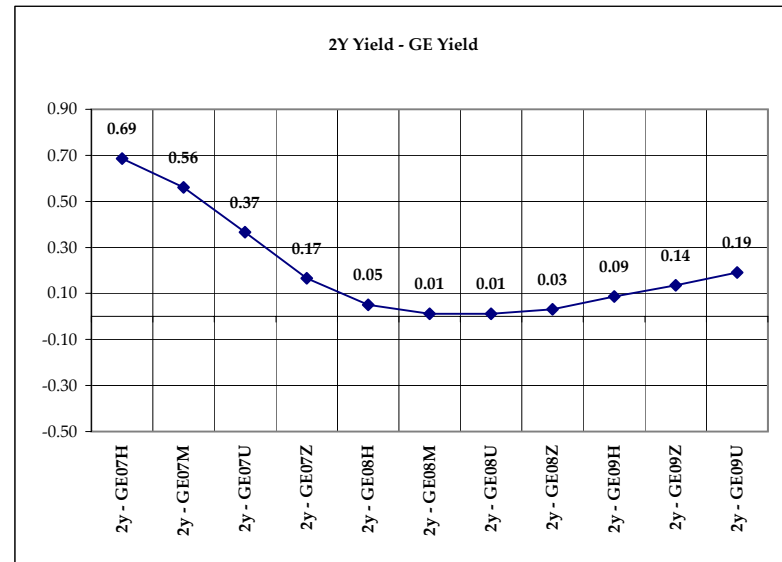
TERM TED: 2y vs Eurodollar Contracts

	2y		
	Spread Price	Spread Yield	Spread Name
F.EDAM07	5.05	0.69	2y - GE07H
F.EDAU07	4.93	0.56	2y - GE07M
F.EDAZ07	4.74	0.37	2y - GE07U
F.EDAH08	4.54	0.17	2y - GE07Z
F.EDAM08	4.42	0.05	2y - GE08H
F.EDAU08	4.38	0.01	2y - GE08M
F.EDAZ08	4.38	0.01	2y - GE08U
F.EDAH09	4.40	0.03	2y - GE08Z
F.EDAM09	4.46	0.09	2y - GE09H
F.EDAU09	4.51	0.14	2y - GE09Z
F.EDAZ09	4.56	0.19	2y - GE09U
F.EDAH10	4.60	0.24	2y - GE09U

Price = Outright Decimal Price - Euro Contract Price
 Yield = ABS(Cash Yield - Implied Euro Contract yield)

	GE Duration as Fraction of year	2Y Duration	Spread Duration	
F.EDAM07	0.153	1.83	1.67	2y - GE07H
F.EDAU07	0.402	1.83	1.42	2y - GE07M
F.EDAZ07	0.651	1.83	1.18	2y - GE07U
F.EDAH08	0.901	1.83	0.93	2y - GE07Z
F.EDAM08	1.150	1.83	0.68	2y - GE08H
F.EDAU08	1.399	1.83	0.43	2y - GE08M
F.EDAZ08	1.649	1.83	0.18	2y - GE08U
F.EDAH09	1.898	1.83	(0.07)	2y - GE08Z
F.EDAM09	2.147	1.83	(0.32)	2y - GE09H
F.EDAU09	2.397	1.83	(0.57)	2y - GE09Z
F.EDAZ09	2.646	1.83	(0.82)	2y - GE09U
F.EDAH10	2.895	1.83	(1.07)	2y - GE09U

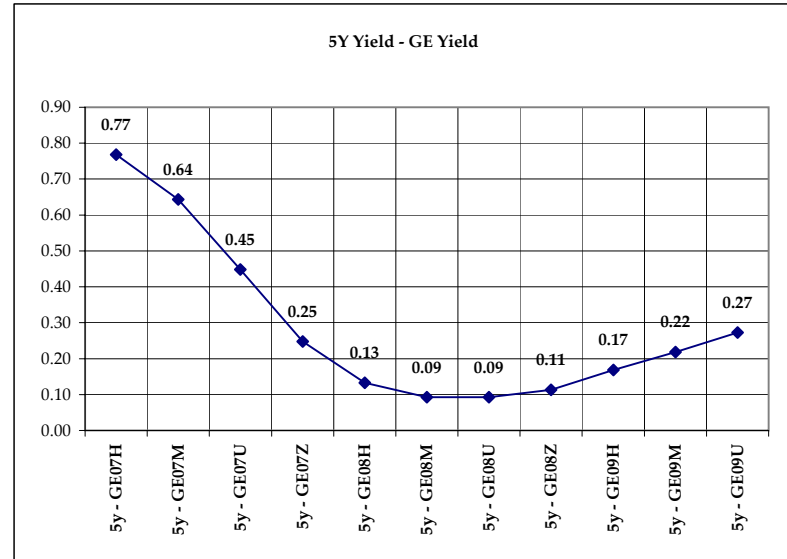
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TERM TED: 5y vs Eurodollar Contracts

5y			
	Spread Price	Spread Yield	Spread Name
F.EDAM07	5.05	0.77	5y - GE07H
F.EDAU07	4.93	0.64	5y - GE07M
F.EDAZ07	4.74	0.45	5y - GE07U
F.EDAH08	4.54	0.25	5y - GE07Z
F.EDAM08	4.42	0.13	5y - GE08H
F.EDAU08	4.38	0.09	5y - GE08M
F.EDAZ08	4.38	0.09	5y - GE08U
F.EDAH09	4.40	0.11	5y - GE08Z
F.EDAM09	4.46	0.17	5y - GE09H
F.EDAU09	4.51	0.22	5y - GE09M
F.EDAZ09	4.56	0.27	5y - GE09U
F.EDAH10	4.60	0.32	5y - GE09U

Price = Outright Decimal Price - Euro Contract Price
 Yield = ABS(Cash Yield - Implied Euro Contract yield)



	GE Duration as Fraction of year	5Y Duration	Spread Duration	
F.EDAM07	0.153	4.37	4.21	5y - GE07H
F.EDAU07	0.402	4.37	3.96	5y - GE07M
F.EDAZ07	0.651	4.37	3.72	5y - GE07U
F.EDAH08	0.901	4.37	3.47	5y - GE07Z
F.EDAM08	1.150	4.37	3.22	5y - GE08H
F.EDAU08	1.399	4.37	2.97	5y - GE08M
F.EDAZ08	1.649	4.37	2.72	5y - GE08U
F.EDAH09	1.898	4.37	2.47	5y - GE08Z
F.EDAM09	2.147	4.37	2.22	5y - GE09H
F.EDAU09	2.397	4.37	1.97	5y - GE09M
F.EDAZ09	2.646	4.37	1.72	5y - GE09U
F.EDAH10	2.895	4.37	1.47	5y - GE09U

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

TERM TED: 10y vs Eurodollar Contracts

	10y		
	Spread Price	Spread Yield	Spread Name
F.EDAM07	5.05	0.77	10y - GE07H
F.EDAU07	4.93	0.64	10y - GE07M
F.EDAZ07	4.74	0.45	10y - GE07U
F.EDAH08	4.54	0.25	10y - GE07Z
F.EDAM08	4.42	0.13	10y - GE08H
F.EDAU08	4.38	0.09	10y - GE08M
F.EDAZ08	4.38	0.09	10y - GE08U
F.EDAH09	4.40	0.11	10y - GE08Z
F.EDAM09	4.46	0.17	10y - GE09H
F.EDAU09	4.51	0.22	10y - GE09M
F.EDAZ09	4.56	0.27	10y - GE09U
F.EDAH10	4.60	0.32	10y - GE09U

Price = Outright Decimal Price - Euro Contract Price
Yield = ABS(Cash Yield - Implied Euro Contract yield)

	GE Duration as Fraction of year	10Y Duration	Spread Duration	
F.EDAM07	0.153	7.75	7.59	10y - GE07H
F.EDAU07	0.402	7.75	7.34	10y - GE07M
F.EDAZ07	0.651	7.75	7.10	10y - GE07U
F.EDAH08	0.901	7.75	6.85	10y - GE07Z
F.EDAM08	1.150	7.75	6.60	10y - GE08H
F.EDAU08	1.399	7.75	6.35	10y - GE08M
F.EDAZ08	1.649	7.75	6.10	10y - GE08U
F.EDAH09	1.898	7.75	5.85	10y - GE08Z
F.EDAM09	2.147	7.75	5.60	10y - GE09H
F.EDAU09	2.397	7.75	5.35	10y - GE09M
F.EDAZ09	2.646	7.75	5.10	10y - GE09U
F.EDAH10	2.895	7.75	4.85	10y - GE09U

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

