

Morning Email: TERM TEDS & Dirty TEDS

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Rotate Me

F.I. Futures and Cash			
	Last Decimal	Last 32	Last Yield*
ZT	102.0781	102.025	4.764
ZF	105.4531	105.145	4.578
ZN	108.2500	108.080	4.573
Blank			
2y	100.203	100.0650	4.758
5y	100.047	100.0150	4.590
10y	100.085	100.0272	4.589

*Futures use CTD for Last Yield

**Mduration = Modified Macaulay Duration

Eurodollars (GE)						
	Last Price	Last Imp Yield	Days til Expr.	Fraction of year	Month	
F.EDAZ06	94.633	5.367	28	0.076	DEC	White Pack
F.EDAH07	94.750	5.250	119	0.325	MAR	
F.EDAM07	94.910	5.090	210	0.575	JUN	
F.EDAU07	95.085	4.915	301	0.824	SEP	Red Pack
F.EDAZ07	95.200	4.800	392	1.073	DEC	
F.EDAH08	95.260	4.740	483	1.323	MAR	
F.EDAM08	95.265	4.735	574	1.572	JUN	Green Pack
F.EDAU08	95.260	4.740	665	1.821	SEP	
F.EDAZ08	95.240	4.760	756	2.071	DEC	
F.EDAH09	95.225	4.775	847	2.320	MAR	Green Pack
F.EDAM09	95.185	4.815	938	2.569	JUN	
F.EDAU09	95.155	4.845	1029	2.819	SEP	

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

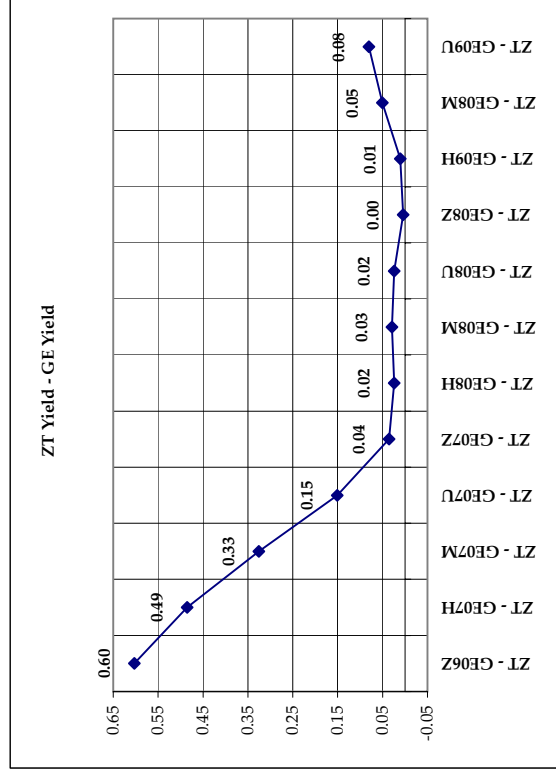
Dirty TED: ZT vs Eurodollar Contracts

ZT

	Spread Price	Spread Yield	Spread Name
F.EDAZ06	7.446	0.60	ZT - GE06Z
F.EDAH07	7.328	0.49	ZT - GE07H
F.EDAM07	7.168	0.33	ZT - GE07M
F.EDAU07	6.993	0.15	ZT - GE07U
F.EDAZ07	6.878	0.04	ZT - GE07Z
F.EDAH08	6.818	0.02	ZT - GE08H
F.EDAM08	6.813	0.03	ZT - GE08M
F.EDAU08	6.818	0.02	ZT - GE08U
F.EDAZ08	6.838	0.00	ZT - GE08Z
F.EDAH09	6.853	0.01	ZT - GE09H
F.EDAM09	6.893	0.05	ZT - GE08M
F.EDAU09	6.923	0.08	ZT - GE09U

Price = Outright Decimal Price - Euro Contract Price

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



GE Duration as Fraction of year

	Duration	ZT Duration	Spread Duration
F.EDAZ06	0.076	1.75	1.67
F.EDAH07	0.325	1.75	1.42
F.EDAM07	0.575	1.75	1.17
F.EDAU07	0.824	1.75	0.92
F.EDAZ07	1.073	1.75	0.68
F.EDAH08	1.323	1.75	0.43
F.EDAM08	1.572	1.75	0.18
F.EDAU08	1.821	1.75	(0.07)
F.EDAZ08	2.071	1.75	(0.32)
F.EDAH09	2.320	1.75	(0.57)
F.EDAM09	2.569	1.75	(0.82)
F.EDAU09	2.819	1.75	(1.07)

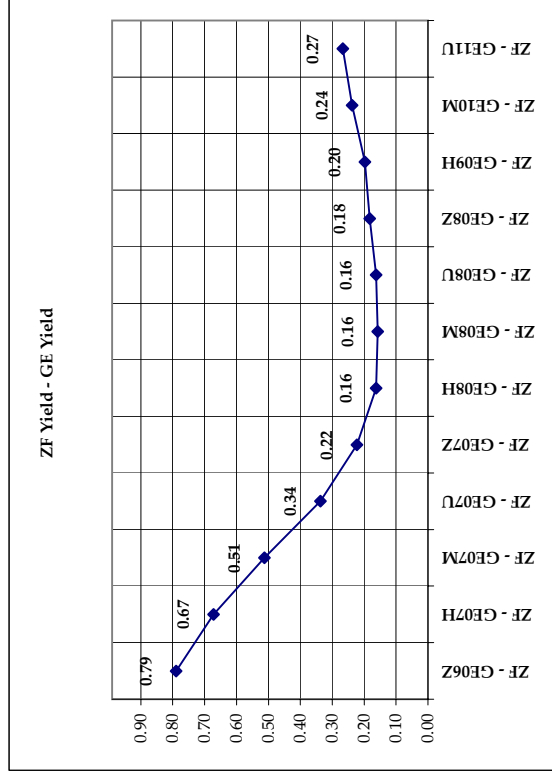
The farther away from 0 the spread duration is the riskier the trade.

Dirty TED: ZF vs Eurodollar Contracts

	ZF	
	Spread Price	Spread Yield
	Price	Name
F.EDAZ06	10.82	ZF - GE06Z
F.EDAH07	10.70	ZF - GE07H
F.EDAM07	10.54	ZF - GE07M
F.EDAU07	10.37	ZF - GE07U
F.EDAZ07	10.25	ZF - GE07Z
F.EDAH08	10.19	ZF - GE08H
F.EDAM08	10.19	ZF - GE08M
F.EDAU08	10.19	ZF - GE08U
F.EDAZ08	10.21	ZF - GE08Z
F.EDAH09	10.23	ZF - GE09H
F.EDAM09	10.27	ZF - GE09M
F.EDAU09	10.30	ZF - GE09U

Price = Outright Decimal Price - Euro Contract Price

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



	GE Duration as Fraction of year		ZF		Spread	
	of year	Duration	Duration	Duration	Duration	Duration
F.EDAZ06	0.076	3.81	3.81	3.73	ZF - GE06Z	3.73
F.EDAH07	0.325	3.81	3.81	3.48	ZF - GE07H	3.48
F.EDAM07	0.575	3.81	3.81	3.23	ZF - GE07M	3.23
F.EDAU07	0.824	3.81	3.81	2.99	ZF - GE07U	2.99
F.EDAZ07	1.073	3.81	3.81	2.74	ZF - GE07Z	2.74
F.EDAH08	1.323	3.81	3.81	2.49	ZF - GE08H	2.49
F.EDAM08	1.572	3.81	3.81	2.24	ZF - GE08M	2.24
F.EDAU08	1.821	3.81	3.81	1.99	ZF - GE08U	1.99
F.EDAZ08	2.071	3.81	3.81	1.74	ZF - GE08Z	1.74
F.EDAH09	2.320	3.81	3.81	1.49	ZF - GE09H	1.49
F.EDAM09	2.569	3.81	3.81	1.24	ZF - GE10M	1.24
F.EDAU09	2.819	3.81	3.81	0.99	ZF - GE11U	0.99

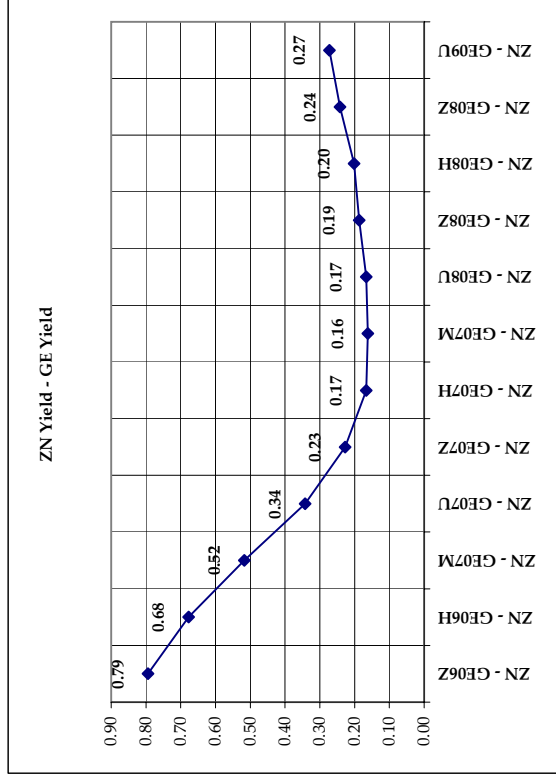
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Dirty TED: ZN vs Eurodollar Contracts

	Spread Price	Spread Yield	Spread Name
F.EDAZ06	13.62	0.79	ZN - GE06Z
F.EDAH07	13.50	0.68	ZN - GE06H
F.EDAM07	13.34	0.52	ZN - GE07M
F.EDAU07	13.17	0.34	ZN - GE07U
F.EDAZ07	13.05	0.23	ZN - GE07Z
F.EDAH08	12.99	0.17	ZN - GE07H
F.EDAM08	12.99	0.16	ZN - GE07M
F.EDAU08	12.99	0.17	ZN - GE08U
F.EDAZ08	13.01	0.19	ZN - GE08Z
F.EDAH09	13.03	0.20	ZN - GE08H
F.EDAM09	13.07	0.24	ZN - GE08Z
F.EDAU09	13.10	0.27	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.EDAZ06	0.076	5.72	5.64
F.EDAH07	0.325	5.72	5.39
F.EDAM07	0.575	5.72	5.15
F.EDAU07	0.824	5.72	4.90
F.EDAZ07	1.073	5.72	4.65
F.EDAH08	1.323	5.72	4.40
F.EDAM08	1.572	5.72	4.15
F.EDAU08	1.821	5.72	3.90
F.EDAZ08	2.071	5.72	3.65
F.EDAH09	2.320	5.72	3.40
F.EDAM09	2.569	5.72	3.15
F.EDAU09	2.819	5.72	2.90

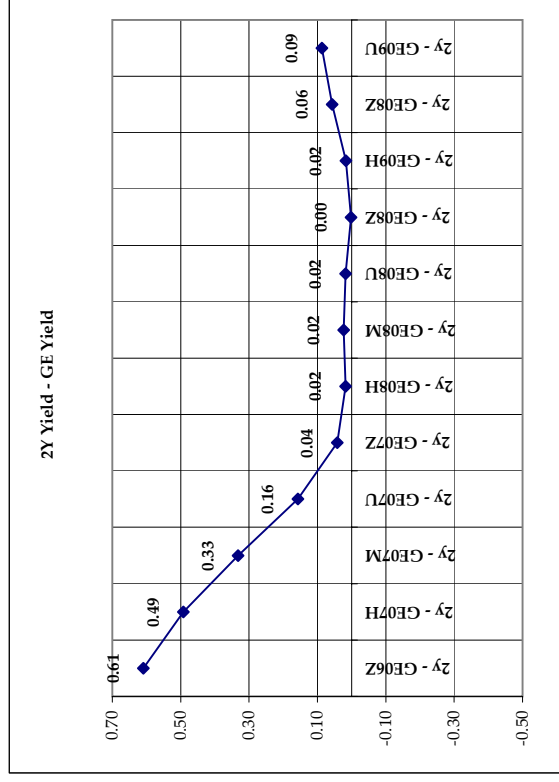
The farther away from 0 the spread duration is the riskier the trade.

TERM TED: 2y vs Eurodollar Contracts

	Spread Price	2y Spread Yield	Spread Name
F.EDAZ06	5.57	0.61	2y - GE06Z
F.EDAH07	5.45	0.49	2y - GE07H
F.EDAM07	5.29	0.33	2y - GE07M
F.EDAU07	5.12	0.16	2y - GE07U
F.EDAZ07	5.00	0.04	2y - GE07Z
F.EDAH08	4.94	0.02	2y - GE08H
F.EDAM08	4.94	0.02	2y - GE08M
F.EDAU08	4.94	0.02	2y - GE08U
F.EDAZ08	4.96	0.00	2y - GE08Z
F.EDAH09	4.98	0.02	2y - GE09H
F.EDAM09	5.02	0.06	2y - GE08Z
F.EDAU09	5.05	0.09	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.EDAZ06	0.076	1.83	1.75	2y - GE06Z
F.EDAH07	0.325	1.83	1.50	2y - GE07H
F.EDAM07	0.575	1.83	1.25	2y - GE07M
F.EDAU07	0.824	1.83	1.00	2y - GE07U
F.EDAZ07	1.073	1.83	0.75	2y - GE07Z
F.EDAH08	1.323	1.83	0.51	2y - GE08H
F.EDAM08	1.572	1.83	0.26	2y - GE08M
F.EDAU08	1.821	1.83	0.01	2y - GE08U
F.EDAZ08	2.071	1.83	(0.24)	2y - GE08Z
F.EDAH09	2.320	1.83	(0.49)	2y - GE09H
F.EDAM09	2.569	1.83	(0.74)	2y - GE08Z
F.EDAU09	2.819	1.83	(0.99)	2y - GE09U

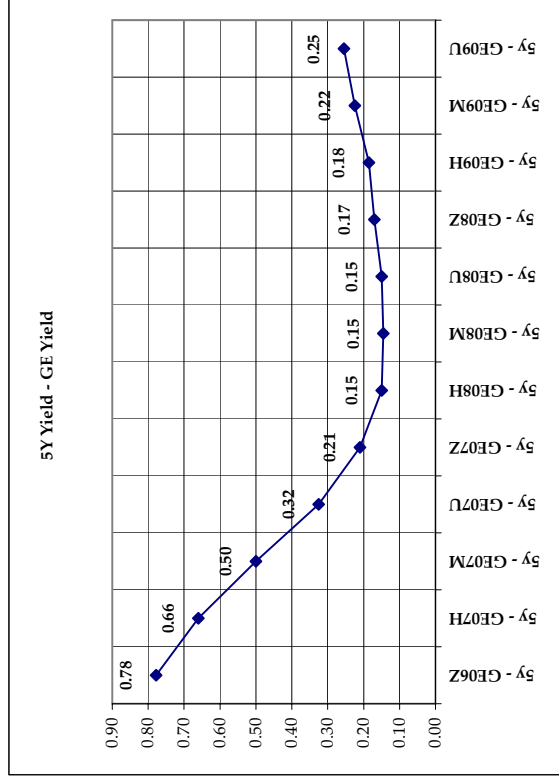
The farther away from 0 the spread duration is the riskier the trade.

TERM TED: 5y vs Eurodollar Contracts

	Spread Price	5y Spread Yield	Spread Name
F.EDAZ06	5.41	0.78	5y - GE06Z
F.EDAH07	5.30	0.66	5y - GE07H
F.EDAM07	5.14	0.50	5y - GE07M
F.EDAU07	4.96	0.32	5y - GE07U
F.EDAZ07	4.85	0.21	5y - GE07Z
F.EDAH08	4.79	0.15	5y - GE08H
F.EDAM08	4.78	0.15	5y - GE08M
F.EDAU08	4.79	0.15	5y - GE08U
F.EDAZ08	4.81	0.17	5y - GE08Z
F.EDAH09	4.82	0.18	5y - GE09H
F.EDAM09	4.86	0.22	5y - GE09M
F.EDAU09	4.89	0.25	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.EDAZ06	0.076	4.29
F.EDAH07	0.325	4.04
F.EDAM07	0.575	3.79
F.EDAU07	0.824	3.54
F.EDAZ07	1.073	3.29
F.EDAH08	1.323	3.04
F.EDAM08	1.572	2.79
F.EDAU08	1.821	2.54
F.EDAZ08	2.071	2.29
F.EDAH09	2.320	2.04
F.EDAM09	2.569	1.79
F.EDAU09	2.819	1.54

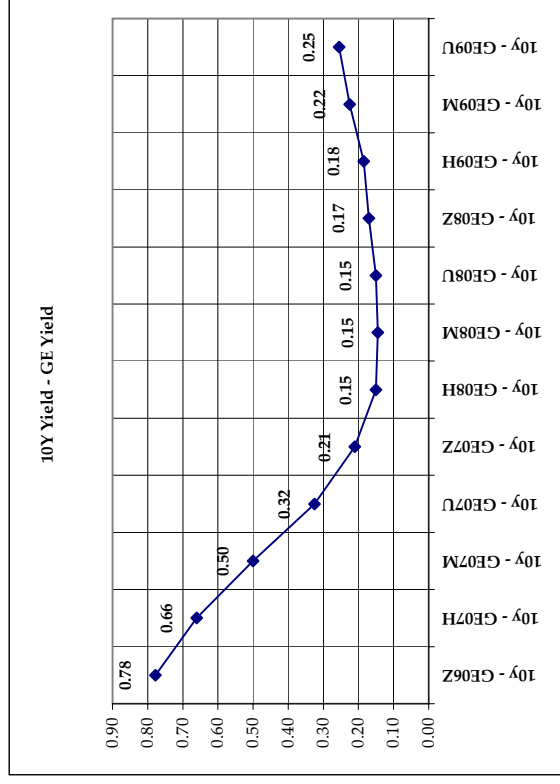
The farther away from 0 the spread duration is the riskier the trade.

TERM TED: 10y vs Eurodollar Contracts

	Spread Price	10y Spread Yield	Spread Name
F.EDAZ06	5.41	0.78	10y - GE06Z
F.EDAH07	5.30	0.66	10y - GE07H
F.EDAM07	5.14	0.50	10y - GE07M
F.EDAU07	4.96	0.32	10y - GE07U
F.EDAZ07	4.85	0.21	10y - GE07Z
F.EDAH08	4.79	0.15	10y - GE08H
F.EDAM08	4.78	0.15	10y - GE08M
F.EDAU08	4.79	0.15	10y - GE08U
F.EDAZ08	4.81	0.17	10y - GE08Z
F.EDAH09	4.82	0.18	10y - GE09H
F.EDAM09	4.86	0.22	10y - GE09M
F.EDAU09	4.89	0.25	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.EDAZ06	0.076	7.92	7.85	10y - GE06Z
F.EDAH07	0.325	7.92	7.60	10y - GE07H
F.EDAM07	0.575	7.92	7.35	10y - GE07M
F.EDAU07	0.824	7.92	7.10	10y - GE07U
F.EDAZ07	1.073	7.92	6.85	10y - GE07Z
F.EDAH08	1.323	7.92	6.60	10y - GE08H
F.EDAM08	1.572	7.92	6.35	10y - GE08M
F.EDAU08	1.821	7.92	6.10	10y - GE08U
F.EDAZ08	2.071	7.92	5.85	10y - GE08Z
F.EDAH09	2.320	7.92	5.60	10y - GE09H
F.EDAM09	2.569	7.92	5.35	10y - GE09M
F.EDAU09	2.819	7.92	5.10	10y - GE09U

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