

The Morning Email: TERM TEDS & Dirty TEDS

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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

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.

Quotes

F.I. Futures and Cash					
	Last Decimal	Last 32	Last Yield*	MDuration	
ZT	104.7719	104.247	3.201	1.91	
ZF	109.6719	109.215	3.517	3.99	
ZN	112.5156	112.165	3.829	5.93	
2y	99.828	99.2650	3.213	1.87	
5y	99.234	99.0750	3.545	4.51	
10y	100.766	100.2450	4.153	8.00	

Eurodollars (ED)							
	Last Price	Last Imp Yield	Days til Expr.	Fraction of year	Month		
EDAH08	95.600	4.400	90	0.246	MAR	} White Pack	
EDAM08	95.980	4.020	181	0.495	JUN		
EDAU08	96.215	3.785	272	0.745	SEP		
EDAZ08	96.315	3.685	363	0.994	DEC	} Red Pack	
EDAH09	96.320	3.680	454	1.243	MAR		
EDAM09	96.210	3.790	545	1.492	JUN		
EDAU09	96.080	3.920	636	1.742	SEP	} Green Pack	
EDAZ09	95.940	4.060	727	1.991	DEC		
EDAH10	95.815	4.185	818	2.240	MAR		
EDAM10	95.695	4.305	909	2.490	JUN	} Blue Pack	
EDAU10	95.595	4.405	1000	2.739	SEP		
EDAZ10	95.485	4.515	1091	2.988	DEC		
EDAH11	95.395	4.605	1182	3.238	MAR	} Gold Pack	
EDAM11	95.340	4.660	1273	3.487	JUN		
EDAU11	95.240	4.760	1371	3.756	SEP		
EDAZ11	95.160	4.840	1462	4.005	DEC	} Gold Pack	
EDAH12	95.075	4.925	1553	4.254	MAR		
EDAM12	95.020	4.980	1644	4.503	JUN		
EDAU12	94.960	5.040	1735	4.753	SEP		
EDAU12	94.960	5.040	1735	4.753	SEP		

Notes

Futures use CTD for Last Yield

Mduration = Modified Macaulay Duration

#VALUE! = no quote being provided by exchange.

	Last Yield	Net Yield	Last Price	
Q.ED.White	4.068	1.750	9602.750	} Pack Prices
Q.ED.Red	3.954	2.000	9613.750	
Q.ED.Green	4.461	3.000	9564.750	
Q.ED.Blue		1.125	9525.125	
Q.ED.Gold		0.000	9494.125	

Red pack is a 2yr proxy
 Gold pack is a 10yr proxy
 Red /Gold is a 2/10 proxy
 Blue pack is a 5yr proxy
 Blue/Gold is a 5/10 proxy

Overview of Hedging

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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

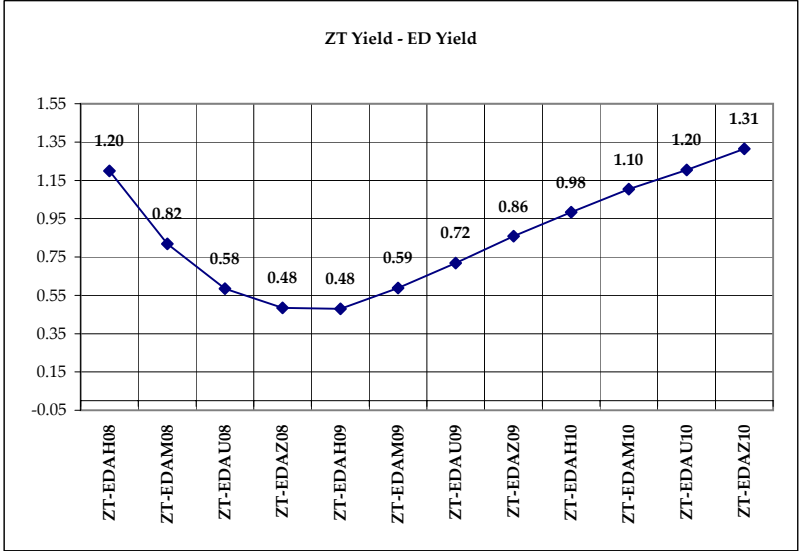
Eurodollar Color Codes for Individual Year Strips:

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

Dirty TED: ZT vs Eurodollar Contracts

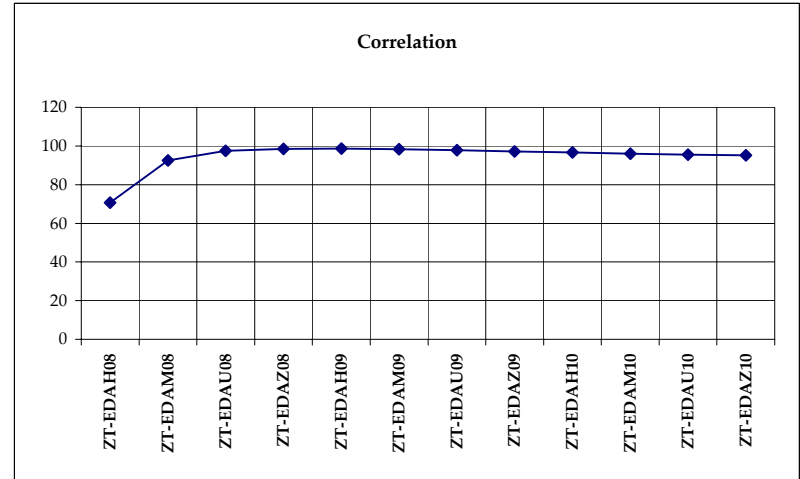
ZT				
	Spread Price	Spread Yield	Spread Name	Correlation* (percent)
EDAH08	9.172	1.20	ZT-EDAH08	70.720
EDAM08	8.792	0.82	ZT-EDAM08	92.458
EDAU08	8.557	0.58	ZT-EDAU08	97.458
EDAZ08	8.457	0.48	ZT-EDAZ08	98.542
EDAH09	8.452	0.48	ZT-EDAH09	98.617
EDAM09	8.562	0.59	ZT-EDAM09	98.319
EDAU09	8.692	0.72	ZT-EDAU09	97.868
EDAZ09	8.832	0.86	ZT-EDAZ09	97.213
EDAH10	8.957	0.98	ZT-EDAH10	96.631
EDAM10	9.077	1.10	ZT-EDAM10	96.015
EDAU10	9.177	1.20	ZT-EDAU10	95.450
EDAZ10	9.287	1.31	ZT-EDAZ10	95.191

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		
EDAH08	0.246	1.91	1.66	ZT-EDAH08
EDAM08	0.495	1.91	1.41	ZT-EDAM08
EDAU08	0.745	1.91	1.16	ZT-EDAU08
EDAZ08	0.994	1.91	0.91	ZT-EDAZ08
EDAH09	1.243	1.91	0.66	ZT-EDAH09
EDAM09	1.492	1.91	0.42	ZT-EDAM09
EDAU09	1.742	1.91	0.17	ZT-EDAU09
EDAZ09	1.991	1.91	(0.08)	ZT-EDAZ09
EDAH10	2.240	1.91	(0.33)	ZT-EDAH10
EDAM10	2.490	1.91	(0.58)	ZT-EDAM10
EDAU10	2.739	1.91	(0.83)	ZT-EDAU10
EDAZ10	2.988	1.91	(1.08)	ZT-EDAZ10

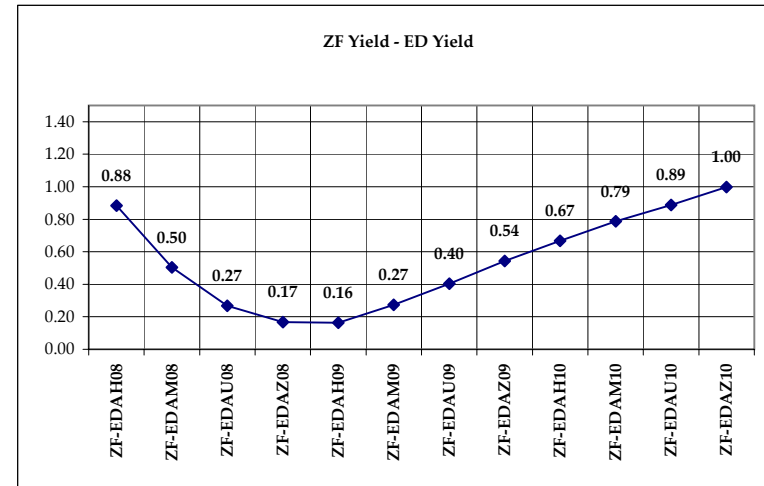
The farther away from 0 the spread duration is the riskier the trade.



Dirty TED: ZF vs Eurodollar Contracts

ZF				
	Spread Price	Spread Yield	Spread Name	Correlation* (percent)
EDAH08	14.07	0.88	ZF-EDAH08	68.513
EDAM08	13.69	0.50	ZF-EDAM08	89.926
EDAU08	13.46	0.27	ZF-EDAU08	95.906
EDAZ08	13.36	0.17	ZF-EDAZ08	97.808
EDAH09	13.35	0.16	ZF-EDAH09	98.292
EDAM09	13.46	0.27	ZF-EDAM09	97.868
EDAU09	13.59	0.40	ZF-EDAU09	97.490
EDAZ09	13.73	0.54	ZF-EDAZ09	96.895
EDAH10	13.86	0.67	ZF-EDAH10	96.466
EDAM10	13.98	0.79	ZF-EDAM10	96.097
EDAU10	14.08	0.89	ZF-EDAU10	95.613
EDAZ10	14.19	1.00	ZF-EDAZ10	95.339

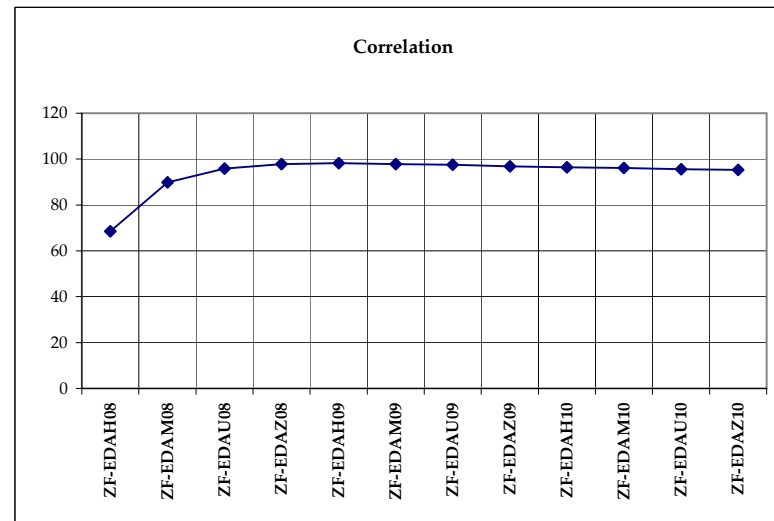
Price = Outright Decimal Price - Euro Contract Price
 Yield = ABS(Proxy Yield - Implied Euro Contract yield)
 *Correlation = ED Correlation to Treasury Future over 10 days



GE Duration as Fraction of year

	GE Duration as Fraction of year	ZF Duration	Spread Duration	
EDAH08	0.246	3.99	3.75	ZF-EDAH08
EDAM08	0.495	3.99	3.50	ZF-EDAM08
EDAU08	0.745	3.99	3.25	ZF-EDAU08
EDAZ08	0.994	3.99	3.00	ZF-EDAZ08
EDAH09	1.243	3.99	2.75	ZF-EDAH09
EDAM09	1.492	3.99	2.50	ZF-EDAM09
EDAU09	1.742	3.99	2.25	ZF-EDAU09
EDAZ09	1.991	3.99	2.00	ZF-EDAZ09
EDAH10	2.240	3.99	1.75	ZF-EDAH10
EDAM10	2.490	3.99	1.50	ZF-EDAM10
EDAU10	2.739	3.99	1.25	ZF-EDAU10
EDAZ10	2.988	3.99	1.01	ZF-EDAZ10

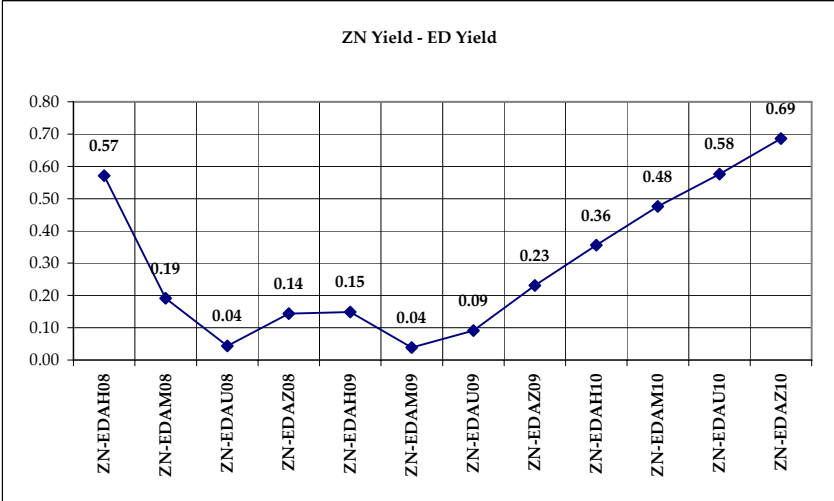
The farther away from 0 the spread duration is the riskier the trade.



Dirty TED: ZN vs Eurodollar Contracts

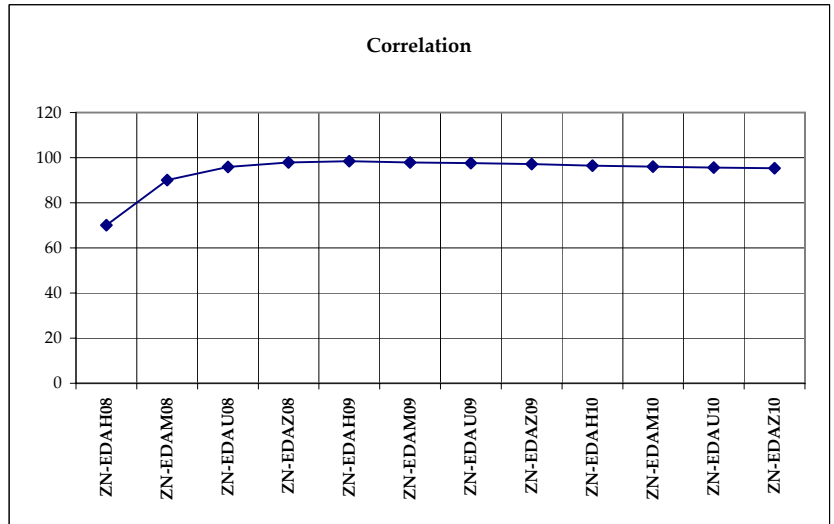
ZN				
	Spread Price	Spread Yield	Spread Name	Correlation* (percent)
EDAH08	16.92	0.57	ZN-EDAH08	70.05
EDAM08	16.54	0.19	ZN-EDAM08	90.01
EDAU08	16.30	0.04	ZN-EDAU08	95.83
EDAZ08	16.20	0.14	ZN-EDAZ08	97.86
EDAH09	16.20	0.15	ZN-EDAH09	98.38
EDAM09	16.31	0.04	ZN-EDAM09	97.91
EDAU09	16.44	0.09	ZN-EDAU09	97.58
EDAZ09	16.58	0.23	ZN-EDAZ09	97.09
EDAH10	16.70	0.36	ZN-EDAH10	96.47
EDAM10	16.82	0.48	ZN-EDAM10	96.10
EDAU10	16.92	0.58	ZN-EDAU10	95.61
EDAZ10	17.03	0.69	ZN-EDAZ10	95.34

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	
EDAH08	0.246	5.93	5.69	ZN-EDAH08
EDAM08	0.495	5.93	5.44	ZN-EDAM08
EDAU08	0.745	5.93	5.19	ZN-EDAU08
EDAZ08	0.994	5.93	4.94	ZN-EDAZ08
EDAH09	1.243	5.93	4.69	ZN-EDAH09
EDAM09	1.492	5.93	4.44	ZN-EDAM09
EDAU09	1.742	5.93	4.19	ZN-EDAU09
EDAZ09	1.991	5.93	3.94	ZN-EDAZ09
EDAH10	2.240	5.93	3.69	ZN-EDAH10
EDAM10	2.490	5.93	3.44	ZN-EDAM10
EDAU10	2.739	5.93	3.19	ZN-EDAU10
EDAZ10	2.988	5.93	2.95	ZN-EDAZ10

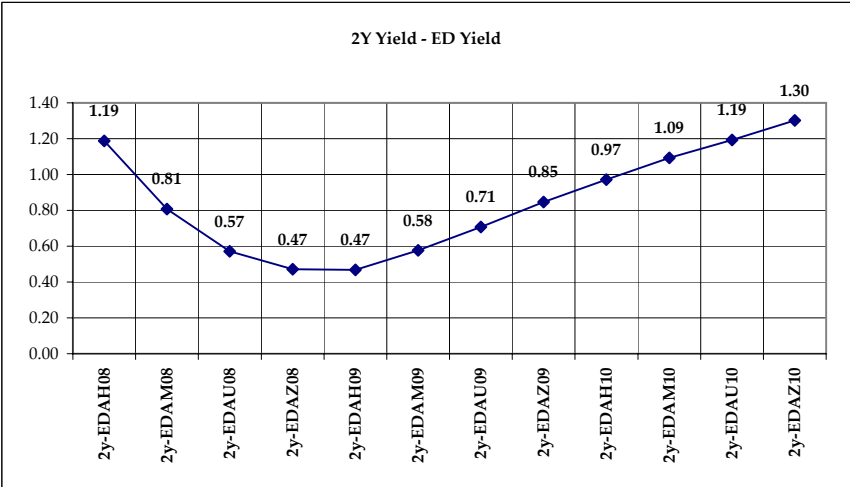
The farther away from 0 the spread duration is the riskier the trade.



TERM TED: 2y vs Eurodollar Contracts

	2y			
	Spread Price	Spread Yield	Spread Name	Correlation* (percent)
EDAH08	4.23	1.19	2y-EDAH08	-50.580
EDAM08	3.85	0.81	2y-EDAM08	-79.288
EDAU08	3.61	0.57	2y-EDAU08	-87.728
EDAZ08	3.51	0.47	2y-EDAZ08	-79.288
EDAH09	3.51	0.47	2y-EDAH09	-90.800
EDAM09	3.62	0.58	2y-EDAM09	-90.123
EDAU09	3.75	0.71	2y-EDAU09	-89.122
EDAZ09	3.89	0.85	2y-EDAZ09	-87.835
EDAH10	4.01	0.97	2y-EDAH10	-86.651
EDAM10	4.13	1.09	2y-EDAM10	-85.375
EDAU10	4.23	1.19	2y-EDAU10	-84.330
EDAZ10	4.34	1.30	2y-EDAZ10	-83.840

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.

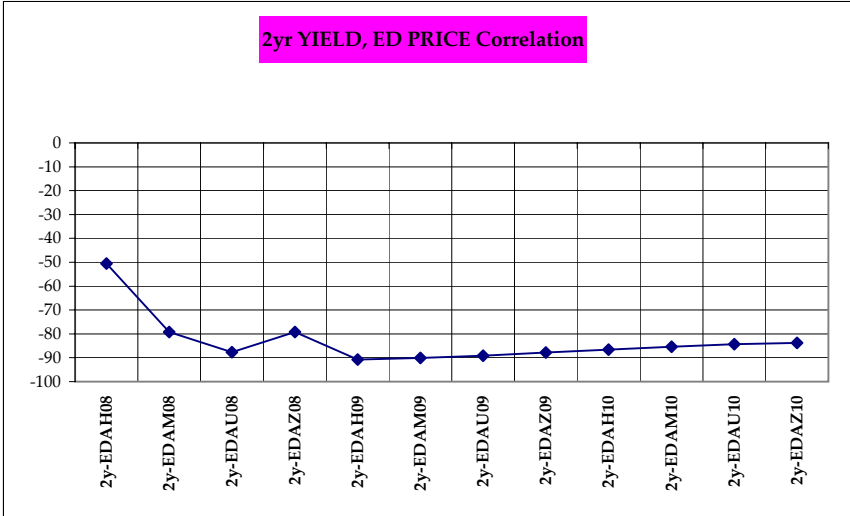


GE Duration as Fraction of year

	2Y Duration	Spread Duration	
EDAH08	0.246	1.87	2y-EDAH08
EDAM08	0.495	1.87	2y-EDAM08
EDAU08	0.745	1.87	2y-EDAU08
EDAZ08	0.994	1.87	2y-EDAZ08
EDAH09	1.243	1.87	2y-EDAH09
EDAM09	1.492	1.87	2y-EDAM09
EDAU09	1.742	1.87	2y-EDAU09
EDAZ09	1.991	1.87	2y-EDAZ09
EDAH10	2.240	1.87	2y-EDAH10
EDAM10	2.490	1.87	2y-EDAM10
EDAU10	2.739	1.87	2y-EDAU10
EDAZ10	2.988	1.87	2y-EDAZ10

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

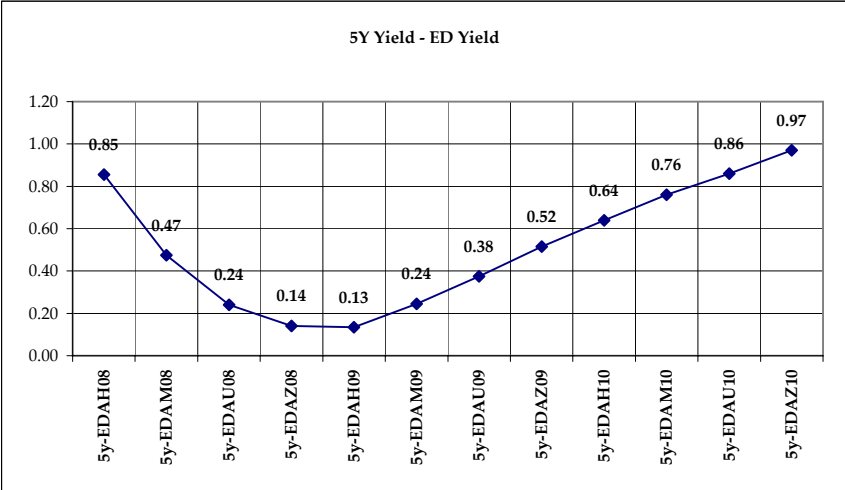
2yr YIELD, ED PRICE Correlation



TERM TED: 5y vs Eurodollar Contracts

5y				
	Spread Price	Spread Yield	Spread Name	Correlation* (percent)
EDAH08	3.63	0.85	5y-EDAH08	-54.469
EDAM08	3.25	0.47	5y-EDAM08	-80.284
EDAU08	3.02	0.24	5y-EDAU08	-88.915
EDAZ08	2.92	0.14	5y-EDAZ08	-80.284
EDAH09	2.91	0.13	5y-EDAH09	-92.950
EDAM09	3.02	0.24	5y-EDAM09	-92.215
EDAU09	3.15	0.38	5y-EDAU09	-91.475
EDAZ09	3.29	0.52	5y-EDAZ09	-90.647
EDAH10	3.42	0.64	5y-EDAH10	-89.925
EDAM10	3.54	0.76	5y-EDAM10	-89.105
EDAU10	3.64	0.86	5y-EDAU10	-88.214
EDAZ10	3.75	0.97	5y-EDAZ10	-87.820

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.

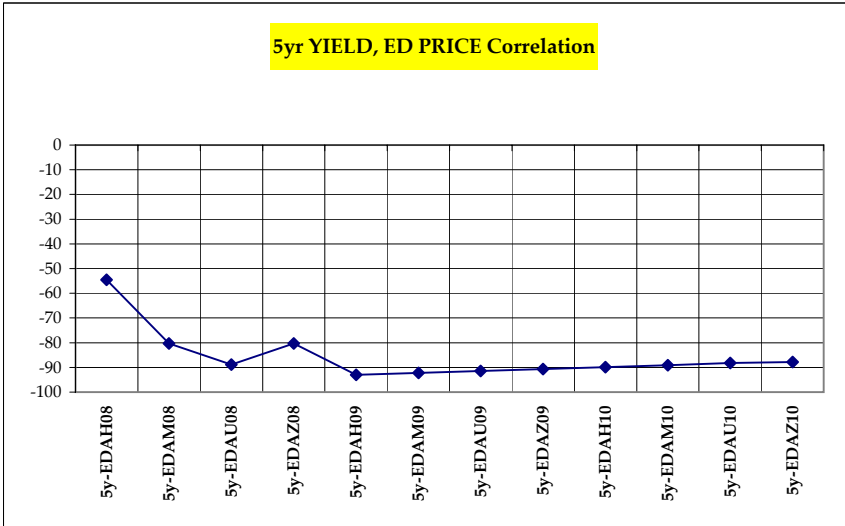


GE Duration as

	Fraction of year	5Y Duration	Spread Duration	
EDAH08	0.246	4.51	4.26	5y-EDAH08
EDAM08	0.495	4.51	4.01	5y-EDAM08
EDAU08	0.745	4.51	3.76	5y-EDAU08
EDAZ08	0.994	4.51	3.52	5y-EDAZ08
EDAH09	1.243	4.51	3.27	5y-EDAH09
EDAM09	1.492	4.51	3.02	5y-EDAM09
EDAU09	1.742	4.51	2.77	5y-EDAU09
EDAZ09	1.991	4.51	2.52	5y-EDAZ09
EDAH10	2.240	4.51	2.27	5y-EDAH10
EDAM10	2.490	4.51	2.02	5y-EDAM10
EDAU10	2.739	4.51	1.77	5y-EDAU10
EDAZ10	2.988	4.51	1.52	5y-EDAZ10

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

5yr YIELD, ED PRICE Correlation



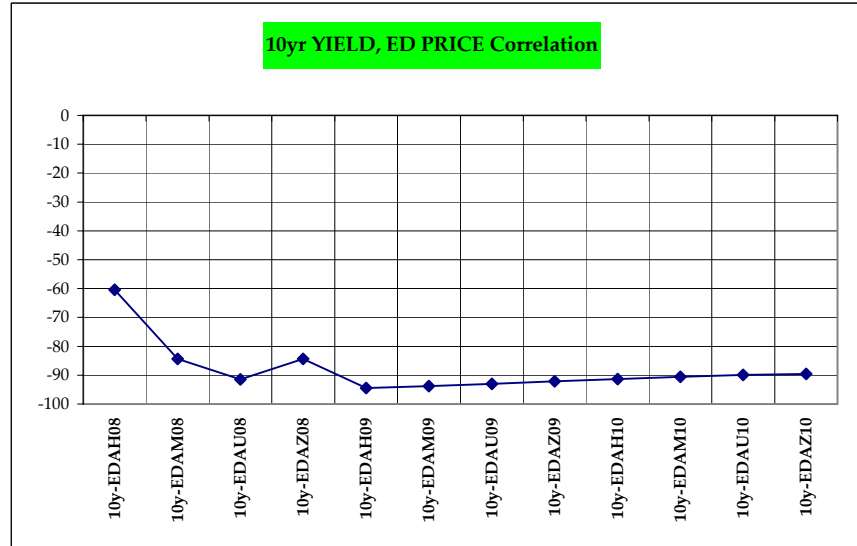
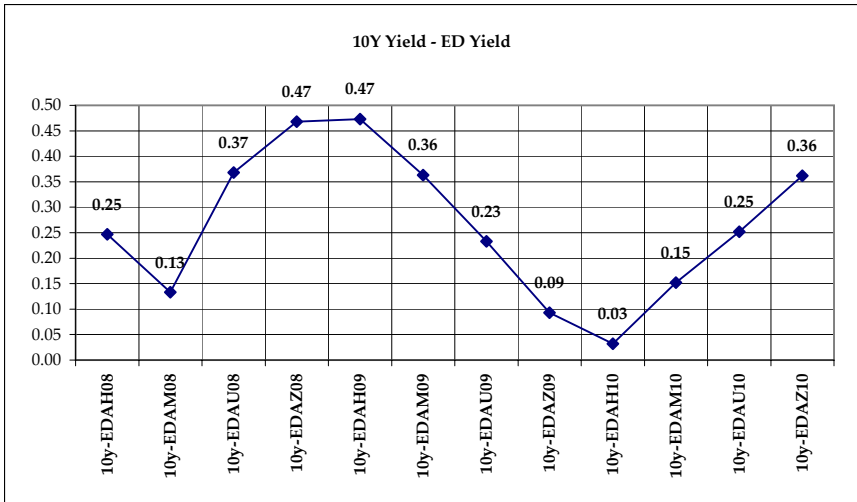
TERM TED: 10y vs Eurodollar Contracts

	10y			
	Spread Price	Spread Yield	Spread Name	Correlation* (percent)
EDAH08	3.63	0.25	10y-EDAH08	-60.368
EDAM08	3.25	0.13	10y-EDAM08	-84.315
EDAU08	3.02	0.37	10y-EDAU08	-91.455
EDAZ08	2.92	0.47	10y-EDAZ08	-84.315
EDAH09	2.91	0.47	10y-EDAH09	-94.411
EDAM09	3.02	0.36	10y-EDAM09	-93.743
EDAU09	3.15	0.23	10y-EDAU09	-93.029
EDAZ09	3.29	0.09	10y-EDAZ09	-92.085
EDAH10	3.42	0.03	10y-EDAH10	-91.338
EDAM10	3.54	0.15	10y-EDAM10	-90.619
EDAU10	3.64	0.25	10y-EDAU10	-89.943
EDAZ10	3.75	0.36	10y-EDAZ10	-89.568

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	
EDAH08	0.246	8.00	7.75	10y-EDAH08
EDAM08	0.495	8.00	7.50	10y-EDAM08
EDAU08	0.745	8.00	7.25	10y-EDAU08
EDAZ08	0.994	8.00	7.00	10y-EDAZ08
EDAH09	1.243	8.00	6.76	10y-EDAH09
EDAM09	1.492	8.00	6.51	10y-EDAM09
EDAU09	1.742	8.00	6.26	10y-EDAU09
EDAZ09	1.991	8.00	6.01	10y-EDAZ09
EDAH10	2.240	8.00	5.76	10y-EDAH10
EDAM10	2.490	8.00	5.51	10y-EDAM10
EDAU10	2.739	8.00	5.26	10y-EDAU10
EDAZ10	2.988	8.00	5.01	10y-EDAZ10

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

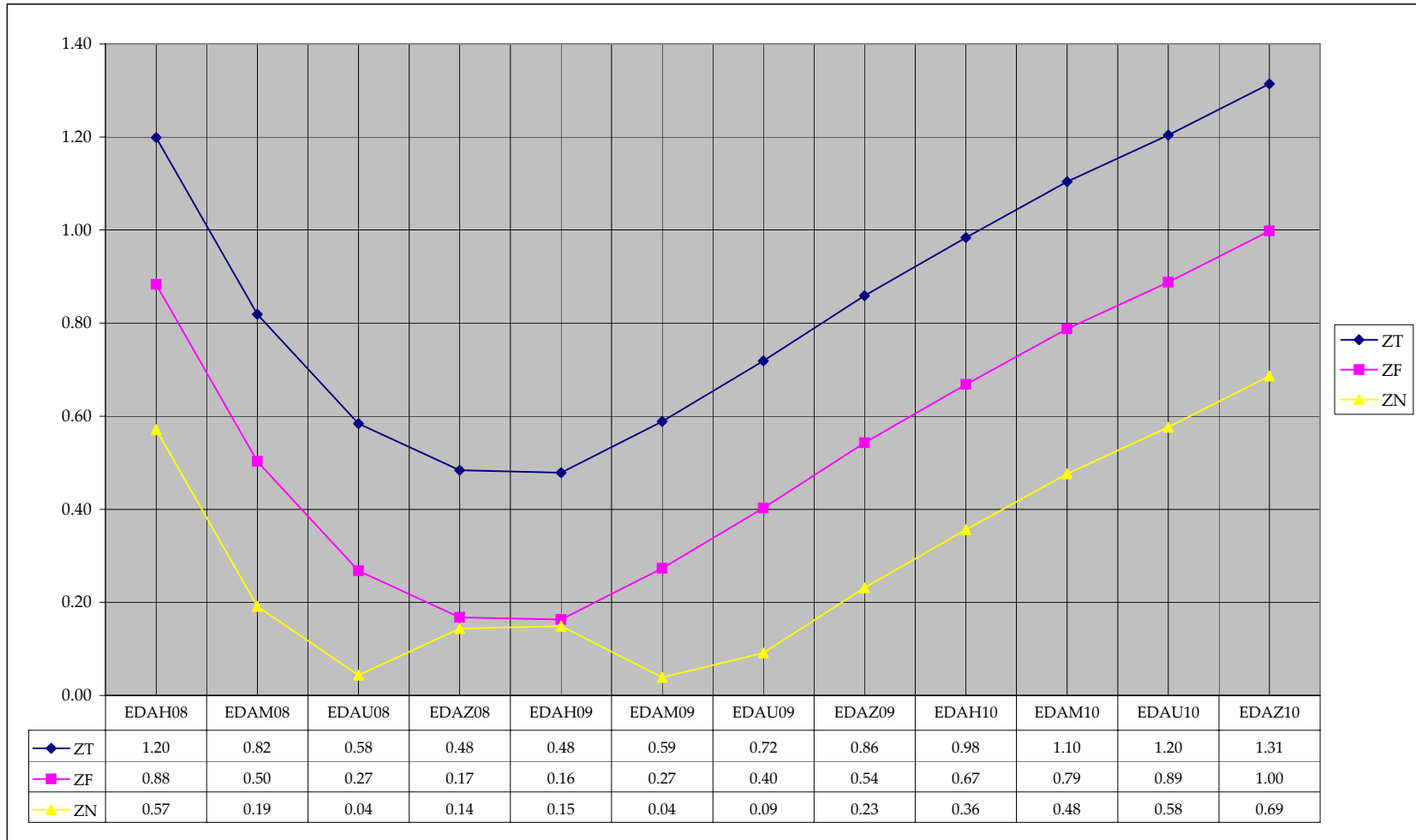


Dirty TED Curve

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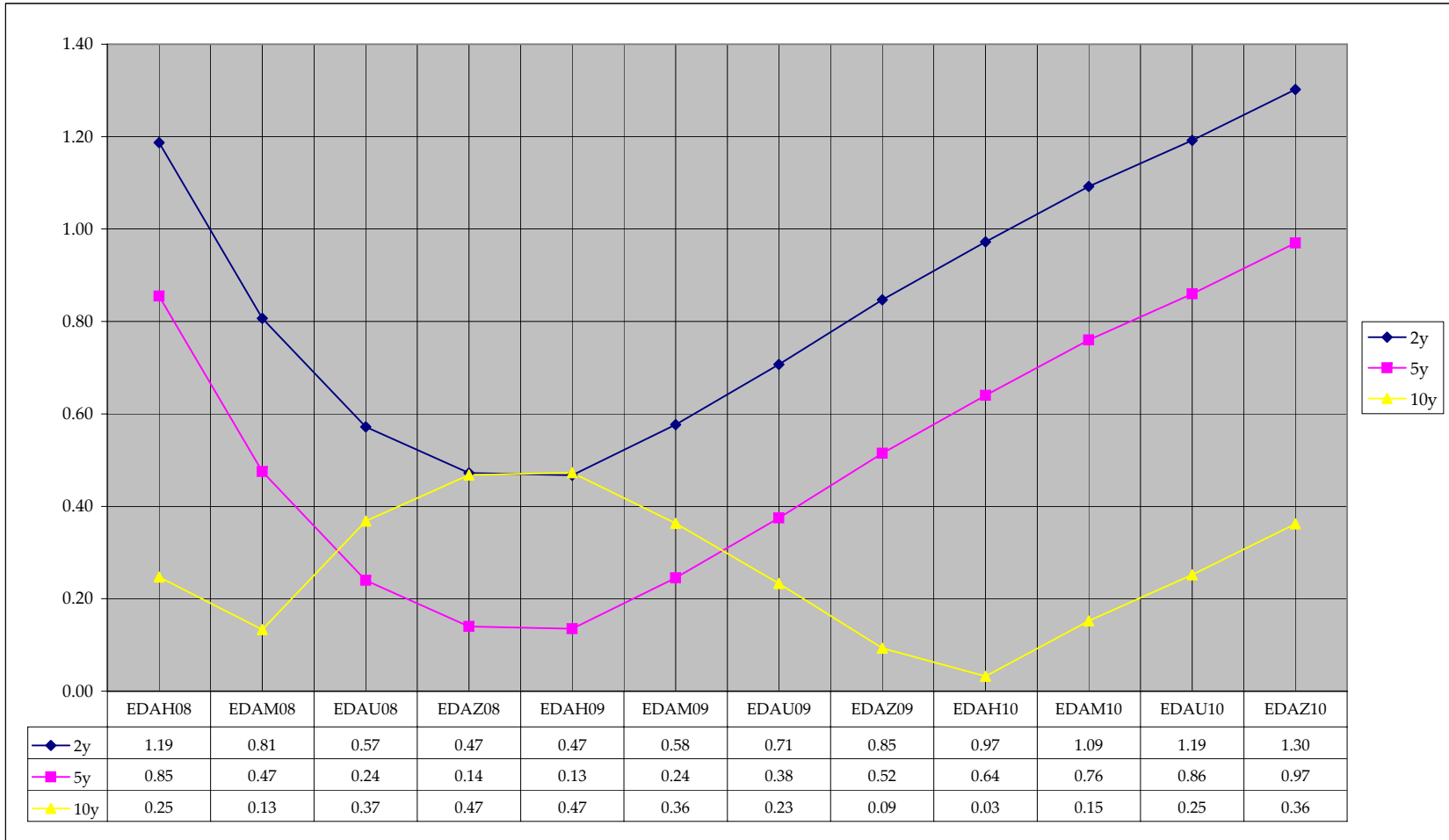
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Chart values show the differences between ED contract and Treasury Futures contract. Those values can be seen in the table at the bottom of the chart. Each cash treasury is then plotted on the chart to compare differences in the durations and basis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

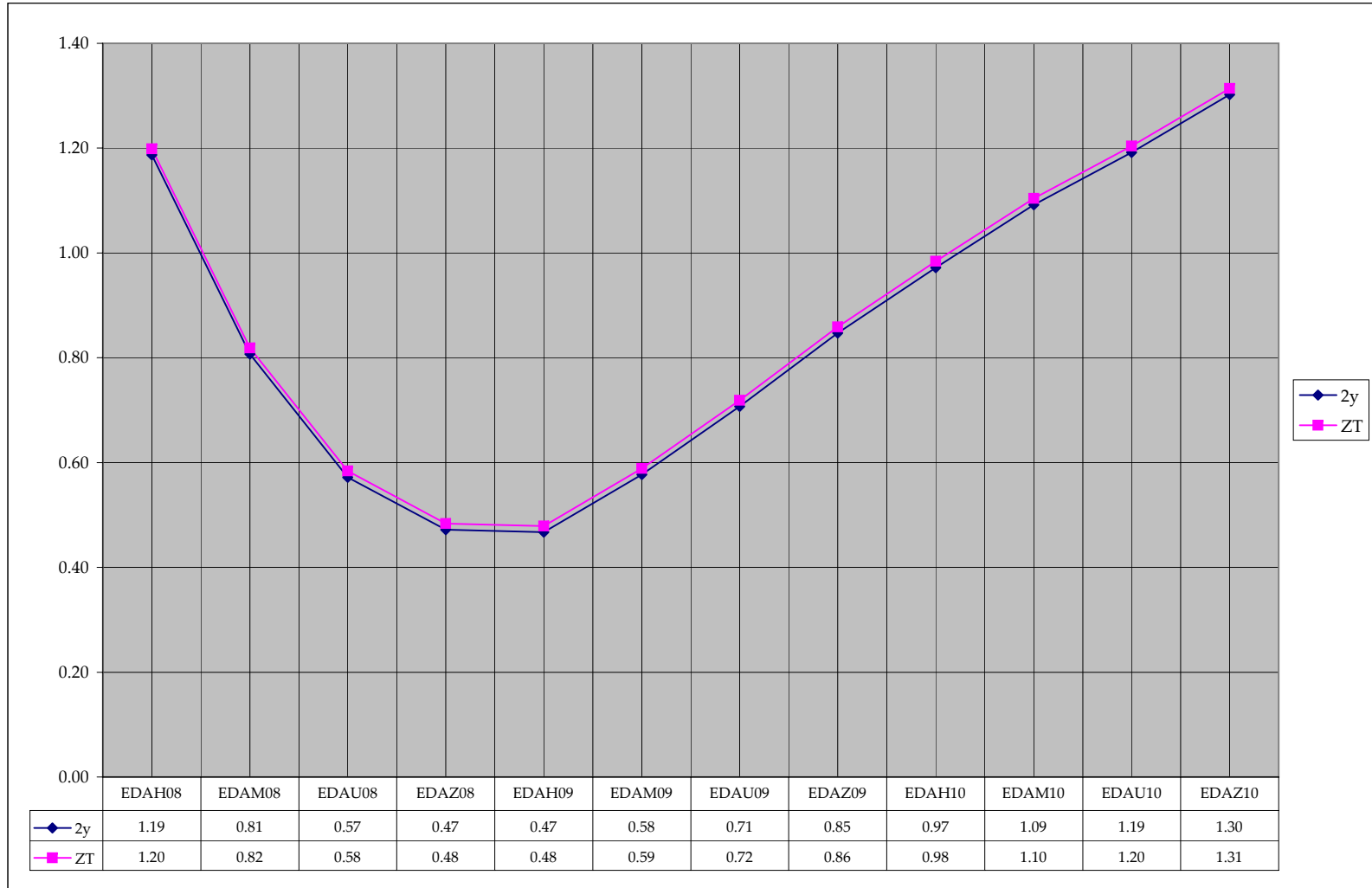


TED Curve

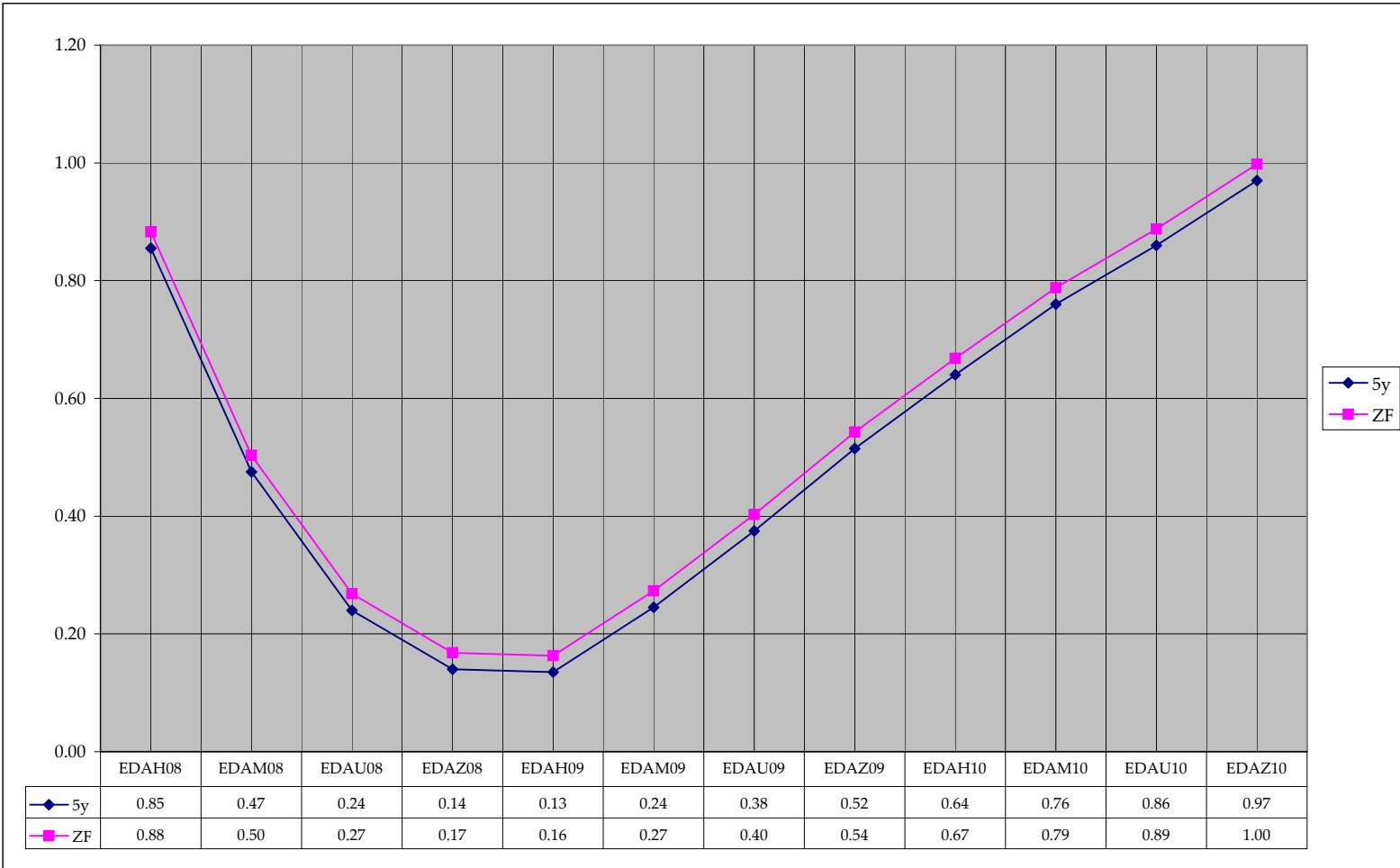
Chart values show the differences between ED contract and Treasury Cash contract. Those values can be seen in the table at the bottom of the chart. Each cash treasury is then plotted on the chart to compare differences in the durations and basis point values.



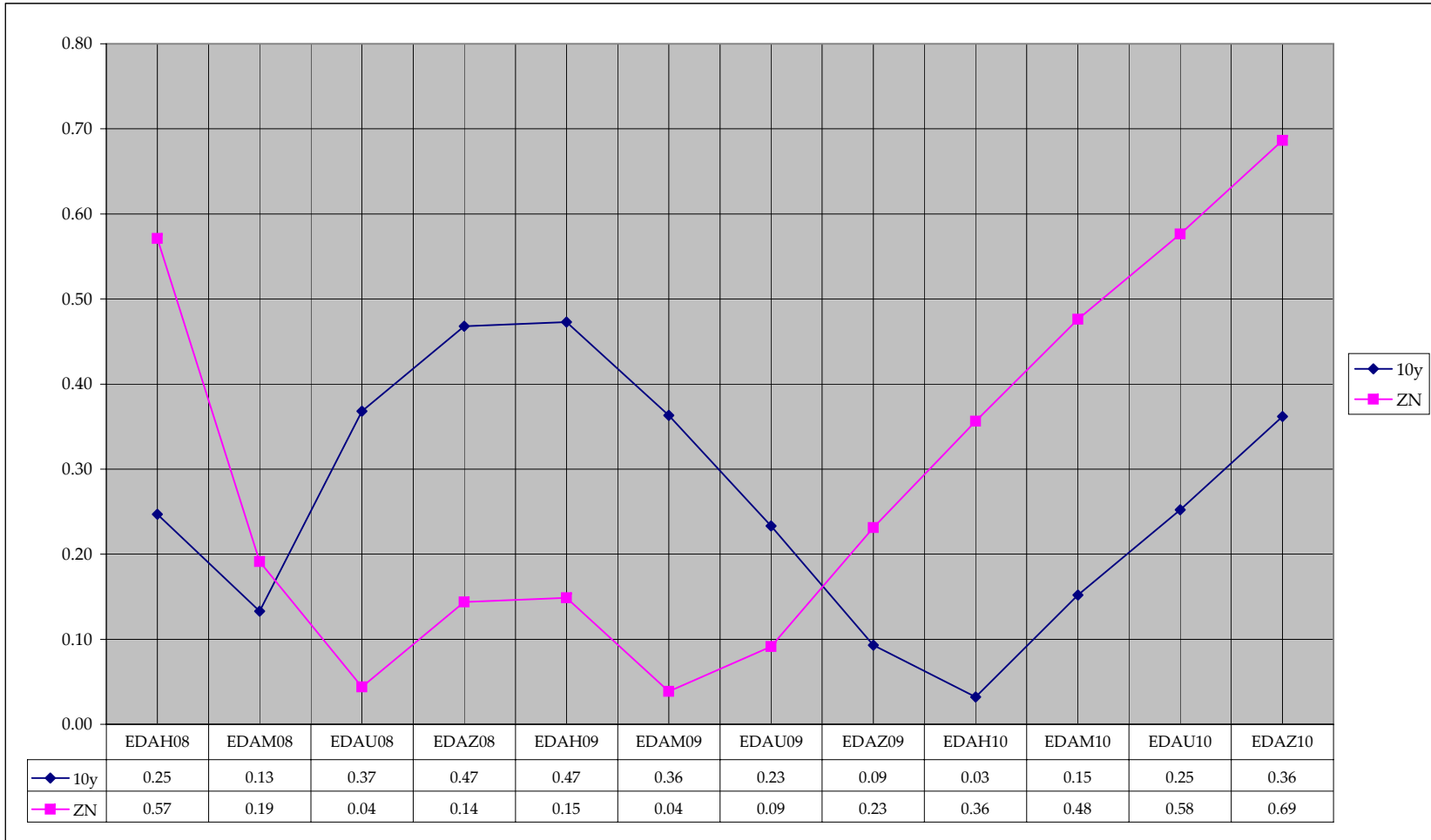
2y Basis TED Curve



5y Basis TED Curve



10y Basis TED Curve



Packs

	last Yield	Net Last Yield	Last Price
Q.ED.White	4.068	1.750	9602.750
Q.ED.Red	3.954	2.000	9613.750
Q.ED.Green	4.461	3.000	9564.750
Q.ED.Blue	1.125		9525.125
Q.ED.Gold		0.000	9494.125

