Update to

"A Comprehensive Look at the Empirical Performance of Equity Premium Prediction"

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Abstract

This file contains updates, one correction, and links to data for our published paper "A Comprehensive Look at the Empirical Performance of Equity Premium Prediction." Even after including the rate of return for the extraordinary years of 2007–2013, most of our original results still hold.

Correction: The printed journal had the author order mixed up. It should have been—and has always been—Goyal and Welch, not Welch and Goyal.

Data: The published version of our paper had data only up to 2005. We now have updated this data to 2013. The data sources have remained the same as in the original paper, except that in some cases, we had to update the data ourselves instead of relying on the original authors. Both the original and the more up-to-date versions of our data are available at the RFS website, http://www.rfs.org/.

Analysis of Data up to 2013: We are presenting the results using the updated data below. Our empirical procedure has remained the same, except that we rely on asymptotics instead of bootstrapped standard errors in this note.

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Table 1: Forecasts at Annual Frequency

This table presents statistics on forecast errors in-sample (IS) and out-of-sample (OOS) for log equity premium forecasts at annual frequency (both in the forecasting equation and forecast). Variables are explained in Goyal and Welch (2008). Stock returns are price changes, including dividends, of the S&P500. All numbers are in percent per year, except \overline{R}^2 , which is in simple percentages. A star next to IS- \overline{R}^2 denotes significance of the in-sample regression. The column 'IS for OOS' gives the IS- \overline{R}^2 for the OOS period. Δ RMSE is the RMSE (root mean square error) difference between the unconditional forecast and the conditional forecast for the same sample/forecast period. Positive numbers signify superior out-of-sample conditional forecast. A star next to OOS- \overline{R}^2 is based on significance of MSE-F statistic by McCracken (2004), which tests for equal MSE of the unconditional forecast and the conditional forecast. One-sided critical values of MSE statistics are obtained from McCracken (2004). Significance levels at 90%, 95%, and 99% are denoted by one, two, and three stars, respectively.

					Full S	Full Sample				1927–2013 Sample
			10	Forecasts	begin afte	Forecasts begin after 20 years	Foreca	Forecasts begin 1965	1965	Dattiple
	Variable	Data	\mathbb{R}^2	$\frac{15 \text{ for}}{1000 \text{ M}^2}$	\overline{R}^2	OUS ARMSE	$\frac{15 \text{ for}}{6000 \text{ m}^2}$	\overline{R}^2 ΔI	$\Delta RMSE$	\overline{R}^2
Full	Full Sample, Not Significant IS	nt IS								
dfr	Default Return Spread	1926-2013	-0.91	-1.45	-5.79	-0.34	-2.22	-7.53	-0.44	-0.94
dfy	Default Yield Spread	1919-2013	-0.90	-1.03	-2.64	-0.10	-0.76	-2.93	-0.07	-0.99
infl	Inflation	1919-2013	-0.73	-1.17	-3.13	-0.14	-1.59	-2.38	-0.02	-1.08
d/e	Dividend Payout Ratio	1872 - 2013	-0.70	-0.70	-4.17	-0.31	-1.93	-4.44	-0.19	-1.15
lty	Long Term Yield	1919-2013	-0.43	-0.09	-6.20	-0.38	-3.26	-9.06	-0.56	-0.71
svar	Stock Variance	1885 - 2013	-0.22	-0.54	-23.61	-2.05	-0.19	-0.86	+0.10	-0.86
d/p	Dividend Price Ratio	1872 - 2013	0.37	1.15	-2.16	-0.12	0.13	-3.83	-0.14	1.55
e/b	Earning Price Ratio	1872 - 2013	0.45	0.51	-2.50	-0.15	-1.41	-3.78	-0.13	1.67
d/y	Dividend Yield	1872 - 2013	0.50	1.17	-2.36	-0.14	-0.29	-7.05	-0.39	1.97
tms	Term Spread	1920-2013	0.50	0.95	-1.22	+0.01	2.61	-1.22	+0.08	1.32
tbl	T-Bill Rate	1920-2013	0.66	1.75	-2.03	-0.05	-1.34	-2.60	-0.04	0.58
<u>t</u> r	Long Term Return	1926-2013	0.77	-0.02	-9.63	-0.64	-0.00	-14.06	-0.96	0.72
Full	Full Sample, Significant IS									
b/m	Book to Market	1921 - 2013	2.92^*	1.16	-1.67	-0.02	-5.58	-9.94	-0.63	3.54^{**}
edis	Pct Equity Issuing	1927 - 2013	5.74^{**}	-1.17	-2.61	-0.09	-1.22	-6.43	-0.35	same
ntis	Net Equity Expansion	1927 - 2013	5.90^{**}	-6.75	-11.19	-0.76	-3.81	-14.96	-1.02	same
i/k	Invstmnt Capital Ratio	1947 - 2013	8.65^{**}	4.13	2.69^{**}	+0.42	4.13	2.69^{**}	+0.42	same
all	Kitchen Sink	1927–2013	$\boldsymbol{9.84}^*$	-4.35	-142.42	-6.71	-23.44	-157.28	-6.52	same
Full	Full Sample, No IS Equivalent (caya) or Ex-Post Information (cayp)	dent (caya)	or Ex-	Post Inforr	nation (cayp)				
cayp	cayp Chsmptn, Wlth, Incme 1945–2013 caya Chsmptn, Wlth, Incme 1945–2013	$1945-2013 \\ 1945-2013$	6.37^{**}	6.31	5.13^{**}	+0.62		same		same
192	1927-2013 Sample, Significant IS	ant IS								Full Sample
b/m	b/m Book to Market	1927–2013	3.54^*				-6.28	-15.48	-1.06	2.92^*

	Table 2: Forecasts a		cy ly equity premia, rather than
annual equity premia.	table 1, except that we pr	edici overlapping o year	iy equity premia, rather than

Variable Data R Eurocasts begin after 20 years Forecasts begin 1865 R ARMSE ARMSE R ARMSE ARMSE R ARMSE ARMSE R ARMSE ARMSE R ARMSE ARMSE ARMSE R ARMSE											Cample
Sample, Not Significant IS Long Term Return 1926-2013 -1.07 -1.09 -7.22 -1.08 -0.55 -16.34 -2.38 -1.04 -0.77 -1.09 -7.22 -1.08 -2.33 -6.10 -0.71 -1.04 -0.72 -1.09 -0.72 -1.09 -0.73 -0.23 -0.23 -0.23 -0.23 -0.21 -0.71 -0.71 -0.71 -0.71 -0.71 -0.71 -0.71 -0.71 -0.71 -0.71 -0.72 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.23 -0.24 -0.73 -0.23 -0.24 -0.73 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 -0.24 <th></th> <th>Variable</th> <th>Data</th> <th>$\frac{1}{R^2}$</th> <th>Forecasts IS for OOS \overline{R}^2</th> <th>begin afte $\frac{1}{R^2}$</th> <th>r 20 years OS \triangler \triangler \triangl</th> <th>Foreca $\overline{\text{IS for}}$ $\overline{\text{OOS } \overline{R}^2}$</th> <th>$\frac{\text{sts begin 1}}{009}$</th> <th>1965 S RRMSE</th> <th>$\frac{\text{Sample}}{R^2}$</th>		Variable	Data	$\frac{1}{R^2}$	Forecasts IS for OOS \overline{R}^2	begin afte $\frac{1}{R^2}$	r 20 years OS \triangler \triangler \triangl	Foreca $\overline{\text{IS for}}$ $\overline{\text{OOS } \overline{R}^2}$	$\frac{\text{sts begin 1}}{009}$	1965 S RRMSE	$\frac{\text{Sample}}{R^2}$
Long Term Return 1926–2013 -1.07 -1.09 -7.22 -1.08 -0.55 -16.34 -2.88 -1.00 -0.71 -1.09 -7.22 -1.05 -1.07 -0.50 -0.01 -0.07 -0.05 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.01 -0.00 -0.00 -0.01 -0.00 -0.00 -0.01 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0	Ful		nt IS								
Inflation 1919–2013	Ħ	Long Term Return	1926-2013	-1.07	-1.09	-7.22	-1.08	0.55	-16.34	-2.38	-1.05
Long Term Yield 1919-2013 -0.25 2.23 -112.12 -16.16 -10.70 -65.60 -10.10 Default Return Spread 1926-2013 -0.21 0.65 -3.86 -0.55 1.77 -11.65 1.1.77 -1.1.81 Rate 1920-2013 3.44 3.59 -3.55 -0.52 -5.99 1.1.39 1.45 1.27 -1.1.81 Rate 1920-2013 3.44 3.59 -3.55 -0.52 -5.99 1.1.39 1.45 1.48 1.487 1.2.2 1.2.2 2.73 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2 1.2.2	ufl	Inflation	1919-2013	-1.07	-1.67	-9.92	-1.50	-2.33	-6.10	-0.71	-1.13
Default Return Spread 1926-2013 -0.21 0.65 -3.86 0.45 1.78 -1.14 +0.17 -1.18 Rate 1920-2013 3.45 3.59 -1.557 -3.12 -1.048 -3.55 -3.59 -1.18 -3.59 -1.145 -3.59 -1.18 -3.59 -1.18 -3.59 -1.18 -3.59 -1.29 -1.18 -3.59 -1.18 -3.59 -1.18 -3.59 -1.18 -3.59 -1.18 -3.59 -1.18 -3.59 -1.18 -3.59 -1.18 -3.59 -1.18 -3.59 -1.18 -3.59 -1.18 -3.59 -1.18 -3.59 -1.18 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.59 -3.	ţ	Long Term Yield		-0.25	2.23	-112.12	-16.16	-10.70	-65.60	-10.10	-0.41
Framing Price Ratio 1920–2013 2.65 8.26 -19.57 3.12 -10.48 -30.56 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.85 -4.8	#	Default Return Spread	1926 - 2013	-0.21	0.65	-3.86	-0.45	1.78	-1.14	+0.17	-0.13
Earning Price Ratio 1872–2013 3.44 3.59 -3.55 -6.29 -11.39 -1.45 -1.45 -1.086 -1.70 -4.87 -18.22 -2.73 -1.25 -10.86 -1.70 -4.87 -18.22 -2.73 -1.25 -10.86 -1.70 -4.87 -18.22 -2.73 -1.25 -10.86 -1.70 -4.87 -18.22 -2.73 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45 -1.45	ā	T-Bill Rate	1920 - 2013	2.65	8.26	-19.57	-3.12	-10.48	-30.56	-4.85	3.56
Per Equity Issuing 1927–2013 3.88 -7.95 -10.86 -1.70 -4.87 -18.22 -2.73 Sample, Significant IS Sample, Significant IS Stock Variance 1885–2013 2.17** 1.33 -88.77 -14.50 3.16 2.26** +0.72 Stock Variance 1885–2013 2.17** 1.33 -88.77 -14.50 3.16 2.26** +0.72 Dividend Payout Ratio 1872–2013 4.65** -5.07 -0.80 4.23 -16.4 +0.47 Dividend Price Ratio 1972–2013 6.55** -8.29 -6.27 -0.87 -1.81 -1.81 -2.28 Dividend Price Ratio 1972–2013 1.65** -8.29 -6.27 -0.87 -0.87 -0.87 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81 -1.81	a/a		1872 - 2013	3.44	3.59	-3.55	-0.52	-5.99	-11.39	-1.45	8.15^*
Suck Variance 1885–2013 2.17** 1.33 -88.77 -14.50 3.16 2.26** 40.72 Stock Variance 1885–2013 3.22** 6.10 -2.51 -0.32 10.34 6.63** 4.144 Dividend Payout Ratio 1872–2013 4.65** 5.10 -2.897 -4.80 4.23 -4.94 -4.947 Dividend Payout Ratio 1872–2013 4.65** 5.10 -2.807 -4.80 4.23 -16.94 -4.947 Default Yield Spread 1919–2013 6.22** -6.87 -4.87 -4.87 -6.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87 -4.87	dis		1927–2013	3.88	-7.95	-10.86	-1.70	-4.87	-18.22	-2.73	same
Stock Variance 1885–2013 3.27 1.33 –88.77 –14.50 3.16 2.26" +0.72 Dividend Payout Ratio 1872–2013 3.22 6.10 –2.51 0.33 6.63 +1.44 Term Spread 1920–2013 4.65 5.30 –28.97 4.64 13.93 0.44* +0.47 Dividend Payout Ratio 1872–2013 4.86* 5.30 –28.97 4.64 13.93 0.44* +0.47 Dividend Payout Ratio 1919–2013 4.86* 5.30 –28.97 0.08 4.23 –16.94 2.30 Default Yield Spread 1919–2013 10.23* 14.50 0.087 0.087 0.03 –18.49 2.78 Book to Market 1921–2013 11.81* 5.13 –8.78 1.31 –18.33 –33.98 5.35 11.81* 1921–2013 30.80* 21.80 16.34* +3.94 21.80 16.34* +3.94 18.00* 1921–2013 30.80* 21.80 16.34* +3.94 21.80 16.34* +3.94 18.00* 1921–2013 30.80* 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +3.94 21.80 16.34* +4.77 21.80 1927–2013 3.35* +4.22** +1.33 2.28* +1.22* Default Yield Spread 1927–2013 3.35* +0.42* 22.96 2.30 1927–2013 8.10* -1.22* -1.22* 22.96 2.30 1927–2013 8.10* -1.24* -1.25* -1.26* -1.26* -1.26* 1927–2013 8.10* -1.24* -1.20* -1.26* -1.26* -1.26* 1927–2013 1.34* -1.3* 1.34* -1.3* 1.34* -1.3* 1.34* -1.3* 1.34* -1.3* 1.34* -1.3* 1.34* -1.3* 1.34* -1.3* 1.34* -1.3* 1.34* -1.3* 1.34* -1.3* 1.3* 1.3* 1.3* 1.3* 1.3* 1.3* 1.3*	Ę										
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Term Spread Term S	/		1872-2013	3.99**	6.10	-2.51	-0 39	10.34	*****		***************************************
Dividend Yield Spread 1919–2013 6.22 – 5.07 – 6.80 4.23 – 6.91 – 6.20 because Yield Spread 1919–2013 6.22 – 6.87 – 48.22 – 7.57 10.00 9.72 + 2.21 Net Equity Expansion 1927–2013 10.23 – 14.50 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.87 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83 – 6.83	, ,		1920_2019	1 . 1 . 1 . 1 .	5.10 7.30	20.7	0.02	13.03	* 77		**06 &
Default Yield Spread 1912–2013 4.53 -0.54 -0.55 -0.50 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.55 -0.5	2		1920-2013	4.00.4	9.90	16.07	-4.04	10.95	0.44 16.04	+0.47	0.0
Default Yield Spread 1919–2013 6.22	<u> </u>		1872-2013	4.09	70.7	70.c–	-0.80	4.23	-10.94	-2.30	12.4
Net Equity Expansion 1927–2013 6.65 — 8.29 — 6.27 — 0.87 — 0.32 — 18.49 — 2.78 Dividend Price Ratio 1872–2013 10.23 — 14.50 — 0.87 — 0.01 10.34 — 21.13 — 2.92 Book to Market 1921–2013 11.81 5.13 — 8.78 — 1.31 — 18.33 — 33.98 — 5.35 Investmut Capital Ratio 1947–2013 30.80 — 21.80 16.34 — 4.394 21.80 16.34 — 4.394 Kitchen Sink 1927–2013 43.65 — 46.06 — 290.82 — 29.87 — 29.56 — 332.32 — 28.84 Kitchen Sink 1945–2013 35.47 — 38.42 32.54 — 47.77 — same Cusmptn, With, Incme 1945–2013 — — 4.22 — 4.22 — 41.31 — same Consmptn, With, Incme 1945–2013 1.19 — — 4.22 — 41.31 — same Consmptn, With, Incme 1927–2013 1.19 — — 4.22 — 1.31 — 2.28 0.25 — 4.42 Stock Variance 1927–2013 3.35 — — 4.22 — 1.31 — 2.29 — 3.50 Dividend Payout Ratio 1927–2013 8.15 — 1.22 Book to Market 1927–2013 12.41 — 1.68 — 4.68 — 4.68 — 1.66 Book to Market 1927–2013 14.43 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.18 — 1.1	₹		1919-2013	6.22°	-0.87	-48.22	-7.57	10.00	$9.72^{\circ \circ \circ}$	+2.21	3.35
Dividend Price Ratio 1872–2013 10.23*** 14.50 -0.87 -0.01 10.34 -2.13 -2.92 Book to Market 1921–2013 11.81** 5.13 -8.78 -1.31 -18.33 -33.98 -5.35 Investmnt Capital Ratio 1947–2013 30.80** 21.80 16.34*** +3.94 21.80 16.34*** +3.94 Kitchen Sink 1927–2013 43.65** 46.06 -290.82 -29.87 29.56 -332.32 -28.84 Sample, No IS Equivalent (caya) or Ex-Post Information (cayp) Consmptn, With, Incme 1945–2013 35.47** 38.42 32.54** +7.77 same Consmptn, With, Incme 1945–2013 1.19* - 4.22** +1.31 same Consmptn, With, Incme 1945–2013 1.19* - - 4.22** +1.31 same 2013 Sample, Significant IS Significant IS - - 4.22** +1.31 same Stock Variance 1927–2013 3.35* - - 4.22* +0.42 Br	tis		1927 - 2013	6.65^*	1	-6.27	-0.87	0.32	-18.49	-2.78	same
Book to Market 1921–2013 11.81** 5.13 –8.78 –1.31 –18.33 –33.98 –5.35 Book to Market 1921–2013 30.80*** 21.80 16.34*** +3.94 21.80 16.34*** +3.94 Kitchen Sink 1927–2013 30.80*** 21.80 16.34*** +3.94 21.80 16.34*** +3.94 Kitchen Sink 1927–2013 43.65*** 46.06 –290.82 –29.87 29.56 –332.32 –28.84 Sample, No IS Equivalent (caya) or Ex-Post Information (cayp) Champtn, With, Incme 1945–2013 35.47*** 38.42 32.54*** +7.77 same Champtn, With, Incme 1945–2013 1.19* Stock Variance 1927–2013 1.19* Stock Variance 1927–2013 3.35* Default Yield Spread 1927–2013 8.35* Dividend Payout Ratio 1927–2013 8.20** Dividend Yield 1927–2013 8.20** Book to Market 1927–2013 14.43*** Dividend Price Ratio 1927–2013 14.43** Dividend Price Ratio 1927–2013 14.43** Dividend Price Ratio 1927–2013 14.43** Dividend Price Ratio 1927–2014 14.64* Dividend Price Ratio 1927–2014 14.64* Dividend Price Ratio 1927–2014 14.43** Dividend Price Ratio 1927–2014 14.44** Dividend Price Ratio 1927–2014 1	<u>م</u> /		1872 - 2013	10.23^{***}		-0.87	-0.01	10.34	-21.13	-2.92	21.53^{***}
Investmnt Capital Ratio 1947–2013 30.80*** 21.80 16.34*** +3.94	'n		1921 - 2013	11.81^{**}		-8.78	-1.31	-18.33	-33.98	-5.35	14.43^{**}
Kitchen Sink 1927–2013 43.65*** 46.06 -290.82 -29.87 29.56 -332.32 -28.84 Sample, No IS Equivalent (caya) or Ex-Post Information (cayp) Same A.22** +7.77 same Cosmptn, With, Incme 1945–2013 35.47*** 38.42 32.54*** +7.77 same 2013 Sample, Significant IS - - 4.22*** +1.31 same 2014 Sample, Significant IS Stock Variance 1927–2013 1.19* Full S Stock Variance 1927–2013 3.35* 6.82*** +1.22 Ho.42 Botok Variance 1927–2013 3.15* 13.22 7.66*** +1.77 Chock Variance 1927–2013 8.15* 13.22 14.05 -1.22 Botoked Payout Ratio 1927–2013 8.15* 1.77 -12.24 -2.96 -3.50 Tearning Price Ratio 1927–2013 14.1*** 14.05 0.58* -0.48 Book to Market 1927–2013 14.3*** 14.05 -1.16 -1.16	×		1947 - 2013	30.80^{***}		16.34^{***}	+3.94	21.80	16.34^{***}	+3.94	same
Sample, No IS Equivalent (caya) Or Ex-Post Information (cayp) Cusmptn, With, Incme 1945–2013 35.47*** 38.42 32.54*** +7.77 same -2013 Sample, Significant IS - 4.22** +1.31 same -2013 Sample, Significant IS - 4.22** +1.31 same Stock Variance 1927–2013 1.19* 8.00 4.65** +0.42 Dividend Payout Ratio 1927–2013 3.35* 8.00 4.65** +1.22 Dividend Payout Ratio 1927–2013 8.15* -12.24 -22.96 -3.50 Dividend Payout Ratio 1927–2013 8.20** 14.05 0.58* +0.48 Dividend Vield 1927–2013 12.41*** 1.63 -10.63 -1.63 Book to Market 1927–2013 14.43** -11.60 -1.63 Dividend Price Ratio 1927–2013 15.3** -1.5	=		1927 - 2013	43.65^{***}		-290.82	-29.87	29.56	-332.32	-28.84	same
Cosmptn, Wlth, Incme 1945–2013 35.47*** 38.42 32.54*** +7.77 same Cnsmptn, Wlth, Incme 1945–2013 — 4.22* +1.31 same -2013 Sample, Significant IS Stock Variance 1927–2013 1.19* 8.00 4.65** +0.42 Default Yield Spread 1927–2013 6.82*** Earning Price Ratio 1927–2013 8.15* Earning Price Ratio 1927–2013 8.20** Dividend Yield 1927–2013 12.41*** Book to Market 1927–2013 14.43** Earling Price Ratio 1927–2013 14.43** Earling Pri	Ę	l Sample, No IS Equiva	lent (caya)	or Ex-P	ost Inforn	nation (c	ayp)				
-2013 Sample, Significant IS Stock Variance 1927–2013 1.19* Stock Variance 1927–2013 3.35* Default Yield Spread 1927–2013 6.82*** Earning Price Ratio 1927–2013 8.15* Term Spread 1927–2013 8.20** Dividend Yield 1927–2013 12.41*** Book to Market 1927–2013 14.43** Dividend Price Ratio 1927–2013 14.43** Earling Price Ratio 1927–2013 15.3** Earling Price Ratio 1927–2013 15.3** Earling Price Ratio 1927–2013 14.43**	ayl	p Comptn, With, Incme	1945–2013	35.47^{***}	38.42	32.54^{***}			same		same
Stock Variance 1927–2013 1.19* Stock Variance 1927–2013 3.35* Default Yield Spread 1927–2013 3.35* Dividend Payout Ratio 1927–2013 8.15* Earning Price Ratio 1927–2013 8.20** Dividend Yield Spread 1927–2013 8.20** Dividend Yield 1927–2013 12.41*** Book to Market 1927–2013 14.43** Dividend Price Ratio 1927–2013 14.43** Entire Ratio 1927–2013 14.43** Entire Ratio 1927–2013 15.3** Entire Ratio 1927–2013 14.43** Entire Ratio 1927–2013 14.44** Entire Ratio 1927–2013	aye		1945-2013	I	I	4.22^{**}	+1.31		same		same
Stock Variance 1927–2013 1.19* 2.28 0.25* +0.42 Default Yield Spread 1927–2013 3.35* 8.00 4.65** +1.22 Dividend Payout Ratio 1927–2013 6.82*** 13.22 7.66*** +1.77 Earning Price Ratio 1927–2013 8.20** -12.24 -22.96 -3.50 Term Spread 1927–2013 8.20** 14.05 0.58* +0.48 Dividend Yield 1927–2013 14.43** -19.68 -46.68 -7.15 Dividend Price Ratio 1927–2013 21.53*** -7.15	92	7-2013 Sample, Signific	ant IS								Full Sample
Default Yield Spread 1927–2013 3.35* 8.00 4.65*** +1.22 Dividend Payout Ratio 1927–2013 8.15* 13.22 7.66*** +1.77 Earning Price Ratio 1927–2013 8.20** -3.50 Term Spread 1927–2013 8.20** 14.05 0.58* +0.48 Dividend Yield 1927–2013 14.43** -19.68 -46.68 -7.15 Dividend Price Ratio 1927–2013 21.53*** -7.15	var		1927–2013	1.19^*				2.28	0.25^*	+0.42	2.17^*
Dividend Payout Ratio 1927–2013 6.82*** 13.22 7.66*** +1.77 Earning Price Ratio 1927–2013 8.15* -12.24 -22.96 -3.50 Term Spread 1927–2013 8.20** +0.48 +0.48 Dividend Yield 1927–2013 12.41*** -11.60 -1.63 Book to Market 1927–2013 14.43** -19.68 -46.68 -7.15 Dividend Price Ratio 1927–2013 21.53*** -7.15	£		1927 - 2013	3.35^*				8.00	4.65^{**}	+1.22	6.22^{**}
Earning Price Ratio 1927–2013 8.15* Term Spread 1927–2013 8.20** Dividend Yield 1927–2013 12.41*** Book to Market 1927–2013 14.43** Dividend Price Ratio 1927–2013 21.53***	, /e		1927–2013	6.82^{***}				13.22	7.66***		3.22^{**}
Term Spread 1927–2013 8.20** Dividend Yield 1927–2013 12.41*** Book to Market 1927–2013 14.43** Dividend Price Ratio 1927–2013 21.53***	, V		1927 - 2013	8.15^*				-12.24	-22.96		3.44
Dividend Yield 1927–2013 12.41 *** Book to Market 1927–2013 14.43 ** Dividend Price Ratio 1927–2013 21.53 *** T.51 –8.74 –115	ms.		1927 - 2013	8.20^{**}				14.05	0.58^{*}	+0.48	4.65^*
Book to Market 1927–2013 14.43** -19.68 -46.68 -7.15 Dividend Price Batio 1927–2013 21.53*** 7.51 -8.74 -115	<u></u>		1927 - 2013	12.41^{***}				1.42	-11.60	-1.63	4.89^{**}
Dividend Price Batio 1927_2013 21 53***	'n		1927 - 2013	14.43^{**}				-19.68	-46.68	-7.15	11.81^{**}
	-										

Table 3: Forecasts at Monthly Frequency using Campbell and Thompson (2008) procedure

Refer to Table 1 for basic explanations. This table presents statistics on forecast errors in-sample (IS) and out-of-sample (OOS) for equity premium forecasts at the monthly frequency (both in the forecasting equation and forecast). The data period is December 1927 to December 2009, except for csp (May 1937 to December 2002) and cay3 (March 1952 to December 2009). Critical values of all statistics are obtained from McCracken (2004). The resulting significance levels at 90%, 95%, and 99% are denoted by one, two, and three stars, respectively. They are two-sided for IS model significance, and one-sided for OOS superior model performance. The first data column is the IS- \overline{R}^2 when returns are logged, as they are in our other tables. The remaining columns are based on predicting simple returns for correspondence with Campbell and Thompson (2008). Certainty Equivalence (CEV) gains are based on the utility of an optimizer with a risk-aversion coefficient of $\gamma=3$ who trades based on unconditional forecast and conditional forecast. Equity positions are winsorized at 150% ($w=w_{\rm max}$). "T" means "truncated" to avoid a negative equity premium prediction. "U" means unconditional, that is, to avoid a forecast that is based on a coefficient that is inverse to what the theory predicts. A superscript h denotes high trading turnover of about 10%/month more than the trading strategy based on unconditional forecasts.

		Log				imple					
		Returns	IS		OOS	Car	mpbe		Γ hompson	1(2008)	OOS
	Variable	IS \overline{R}^2	\overline{R}^2	\overline{R}^2	\overline{R}^2	Frc	st =	\overline{R}^2	ΔRMSE	w =	$\Delta { m CEV}$
				${ m T}$		Т	U	TU	TU	$w_{\rm max}$	
d/e	Dividend Payout Ratio	-0.05	-0.10	-0.10	-0.74	0.3	15.3	-0.65	-0.0111	53.7	-0.01
svar	Stock Variance	0.06	-0.09	-0.09	-0.87	0.0	7.7	-0.87	-0.0156	33.5	-0.03
lty	Long Term Yield	0.00	0.05	0.05	-0.64	30.1	0.0	0.28^*	+0.0085	20.6	0.07
dfr	Default Return Spread	0.15	0.06	-0.12	-0.24	0.8	18.3	-0.23	-0.0022	42.5	0.05
ltr	Long Term Return	0.07	0.10	0.08	-0.54	3.3	33.5	0.05^*	+0.0037	48.5^{h}	0.07
infl	Inflation	-0.02	0.11	-0.06	-0.11*		0.0	-0.07^*	+0.0012	41.4^{h}	0.04
tms	Term Spread	0.09	0.14	0.14	0.07^{*}	** 3.4	0.0	0.06^*	+0.0040	55.7	0.14
dfy	Default Yield Spread	-0.08	0.19^*	0.19	-0.67	3.7	0.0	-0.61	-0.0101	26.5	-0.06
tbl	T-Bill Rate	0.12	0.21^*	0.17	-0.05*	**20.4	0.0	0.23^*	+0.0076	17.4	0.12
d/p	Dividend Price Ratio	0.09	0.28^{**}	* 0.25	-0.36	28.9	0.0	0.06^*	+0.0039	14.1	-0.09
e/p	Earning Price Ratio	0.30^{**}	0.32^{**}		-1.43	18.3	0.0	-0.64	-0.0107	29.9	0.05
d/y	Dividend Yield	$\boldsymbol{0.19}^*$	$\boldsymbol{0.41}^{**}$		-1.04	53.3	0.0	-0.10^*	+0.0005	14.1	-0.10
ntis	Net Equity Expansion	$\boldsymbol{0.46}^{**}$	0.50^{**}		-1.13	0.3	0.0	-1.12	-0.0209	55.2	0.06
eqis	Pct Equity Issuing	0.59^{***}	0.56^{**}		-0.34	6.2	0.0	-0.20	-0.0016	53.5	0.14
b/m	Book to Market	$\boldsymbol{0.38}^{**}$	0.70^{**}		-2.96	43.5	0.0	-2.01	-0.0394	27.4	-0.15
e^{10}/p	Earning(10Y) Price Ratio	$\boldsymbol{0.45}^{**}$	$\boldsymbol{0.83}^{**}$		-1.87	49.4	0.0	-0.37	-0.0051	14.1	-0.11
csp	Cross-Sectional Prem	0.92^{***}	0.99^{**}	** 0.93	-0.95	44.9	0.0	$\boldsymbol{0.15}^*$	+0.0072	13.5	0.06
cay3	Compto, Wlth, Inche	1.15^{***}	1.16^{**}	** 1.11	-2.86	44.2	0.0	-1.61	-0.0225	20.6	0.08

Table 4: Significant Forecasts Using Various d/p, e/p, and d/e Ratios

Refer to Table 1 for basic explanations. The table reports only those combinations of d/p e/p and d/e that were found to predict equity premia significantly in-sample. This table presents statistics on forecast errors in-sample (IS) and out-of-sample (OOS) for excess stock return forecasts at various frequencies. All Δ RMSE numbers are in percent per frequency corresponding to the column entitled 'Freq'. The 'Freq' column also gives the first year of forecast. A star next to OOS- \overline{R}^2 is based on the MSE-F-statistic by McCracken (2004), which tests for equal MSE of the unconditional forecast and the conditional forecast. Significance levels at 90%, 95%, and 99% are denoted by one, two, and three stars, respectively.

					IS		OS
	Variable	Data]	Freq	\overline{R}^2	\overline{R}^2	ΔRMSE
e/p	Earning(1Y) Price Ratio	1927-2013	M	1965–	0.33**	-1.63	-0.03
e^3/p	Earning(3Y) Price Ratio	1927 – 2013	\mathbf{M}	1965 -	0.19^*	-0.43	-0.01
\mathbf{e}^5/\mathbf{p}	Earning(5Y) Price Ratio	1927 – 2013		1965-	0.28^{**}	-0.57	-0.01
e^{10}/p	Earning(10Y) Price Ratio	1927 – 2013		1965-	$\boldsymbol{0.48}^{**}$	-0.66	-0.01
d_{2}^{3}/p	Dividend(3Y) Price Ratio	1927 - 2013		1965-	0.19^*	-0.16^{**}	+0.00
d^5/p	Dividend(5Y) Price Ratio	1927 - 2013		1965-	0.28^{**}	-0.22	-0.00
d^{10}/p	Dividend(10Y) Price Ratio	1927–2013	Μ	1965–	$\boldsymbol{0.23}^*$	-0.17	-0.00
e^3/p	Earning(3Y) Price Ratio	1882-2013	A	1902-	$\boldsymbol{2.35}^{**}$	-0.98	-0.01
e^5/p	Earning(5Y) Price Ratio	1882 – 2013	A	1902 -	2.60^{**}	-0.60**	+0.03
	Earning(10Y) Price Ratio	1882 – 2013	A	1902 -	4.82^{***}	2.19^{**}	+0.30
d^3/p	Dividend(3Y) Price Ratio	1882 – 2013	A	1902 -	$\boldsymbol{1.53}^*$	-1.78	-0.08
d^5/p	Dividend(5Y) Price Ratio	1882 – 2013	A	1902 -	2.15^*	-0.83***	+0.01
d^{10}/p	Dividend(10Y) Price Ratio	1882-2013	A	1902-	$\boldsymbol{1.84}^*$	-1.28	-0.04
e^3/p	Earning(3Y) Price Ratio	1882-2013	A	1965-	2.35^{**}	-2.75	-0.05
e^5/p	Earning(5Y) Price Ratio	1882 - 2013	A	1965 -	2.60^{**}	-4.35	-0.18
, -	Earning(10Y) Price Ratio	1882-2013	A	1965 -	4.82^{***}	-8.16	-0.48
d^3/p	Dividend(3Y) Price Ratio	1882 - 2013	A	1965 -	$\boldsymbol{1.53}^*$	-6.43	-0.35
d^5/p	Dividend(5Y) Price Ratio	1882 – 2013	A	1965 -	2.15^*	-8.02	-0.47
d^{10}/p	Dividend(10Y) Price Ratio	1882 – 2013	A	1965–	$\boldsymbol{1.84}^*$	-7.62	-0.44
e/p	Earning(1Y) Price Ratio	1882-2013	5Y	1902-	4.22^*	-0.88***	* +0.01
e ³ /p	Earning(3Y) Price Ratio	1882-2013			12.14^{***}	4.81***	
e^5/p	Earning(5Y) Price Ratio	1882-2013			17.11***	6.28***	
e^{10}/p	Earning(10Y) Price Ratio	1882-2013			17.06^{***}	-1.46	-0.11
d/p	Dividend(1Y) Price Ratio	1882 - 2013	5Y	1902 -	$\boldsymbol{12.21}^{***}$	-0.51**	+0.08
d^3/p	Dividend(3Y) Price Ratio	1882 - 2013	5Y	1902 -	13.04^{***}	-1.71	-0.16
d^5/p	Dividend(5Y) Price Ratio	1882 – 2013	5Y	1902 -	13.53^{***}	-3.52	-0.51
d^{10}/p	Dividend(10Y) Price Ratio	1882 – 2013	5Y	1902 -	9.62^{***}	-15.02	-2.67
d/e	Dividend(1Y) Earning(1Y) Ratio	1882 – 2013	5Y	1902-	3.40^{**}	-6.64	-1.11
e/p	Earning(1Y) Price Ratio	1882-2013	5Y	1965–	4.22^*	-12.06	-1.57
e^3/p	Earning(3Y) Price Ratio	1882-2013			12.14^{***}	-5.37	-0.52
e^5/p	Earning(5Y) Price Ratio	1882-2013			17.11***	-11.71	-1.52
	Earning(10Y) Price Ratio	1882-2013			17.06^{***}	-17.85	-2.45
d/p	Dividend(1Y) Price Ratio	1882-2013			12.21^{***}	-24.41	-3.43
d^3/p	Dividend(3Y) Price Ratio	1882-2013			13.04^{***}	-23.19	-3.25
d^5/p	Dividend(5Y) Price Ratio	1882-2013			13.53^{***}	-25.75	-3.62
	Dividend(10Y) Price Ratio	1882-2013			9.62^{***}	-17.55	-2.41
d/e	Dividend(1Y) Earning(1Y) Ratio				3.40^{**}	6.85^{**}	

Table 5: Forecasts at Monthly Frequency with Alternative Procedures and Total Returns

Refer to Table 1 for basic explanations. Columns under the heading 'OLS' are unadjusted betas, columns under the heading 'Stambaugh' correct for betas following Stambaugh (1999), and columns under the heading 'Lewellen' correct for betas following Lewellen (2004). ρ under the column OLS gives the autoregressive coefficient of the variable over the entire sample period (the variables are sorted in descending order of ρ).

				IO	OLS	Stam	Stambaugh	Lew	Lewellen
				$^{\mathrm{IS}}$	SOO	\mathbf{SI}	SOO	\mathbf{SI}	SOO
	Variable	Data	θ			R	~		
 <u> </u>	Long Term Yield	192701–201312	0.9961	0.02	-0.88		-1.33	0.02	-0.79
tbl	T-Bill Rate	192701 - 201312	0.9933	0.13	-0.11***	0.13	-0.24	0.13	-0.19
d/p	Dividend Price Ratio	192701 - 201312	0.9929	0.11	-0.22	0.02	-0.27	-0.19	-0.83
d/y	Dividend Yield	192701 – 201312	0.9929	0.22^*	-0.40	0.22^*	- 1	0.22^*	-0.27
d/e	Dividend Payout Ratio	192701 - 201312	0.9919	-0.06	-2.03	-0.06	-2.14	-0.06	-1.88
e/p	Earning Price Ratio	192701 - 201312	0.9865	0.33^{**}	-1.63	0.30^{**}	-0.85	-0.07	-1.16
b/m	Book to Market	192701 - 201312	0.9856	0.35^*	$0.35^{**} -2.12$	0.31^{**}	-1.39	-0.13	-0.26
csb	Cross-Sectional Prem	193705 - 200212	0.9788		$0.92^{***} 0.70^{***}$	0.92^{**}	$3.92^{***} 0.70^{***}$		* 0.71
dfy	Default Yield Spread	192701 - 201312	0.9751		-0.21	-0.08	-0.34		-0.59
ntis	Net Equity Expansion	192701 - 201312	0.9741	0.34^{**}	-1.22	0.34^{**}	-1.24	0.33^{**}	-1.34
tms	Term Spread	192701 - 201312	0.9613	0.05	-0.03**		-0.05		-0.05**
svar	Stock Variance	192701 - 201312	0.6332	0.07	0.02^{***}	0.07	0.04^{***}	-1.58	0.79^{***}
infl	Inflation	192701 - 201312	0.5668	-0.02	-0.14**	-0.02	-0.14**	-0.04	-0.18
<u>t</u>	Long Term Return	192701 - 201312	0.0446	0.07	-0.40	0.07	-0.40	-0.63	-5.88
dfr	Default Beturn Spread	192701-201312	-0.1262	0.15	-0.04**	0.15	-0.04**	-2.58	-2.99

Table 6: Encompassing Tests

(2008). All numbers are in percent per frequency corresponding to the panel. λ gives the ex-post weight on the conditional forecast for the optimal forecast that minimizes the MSE. ENC is the test statistic proposed by Clark and McCracken (2001) for a test of forecast encompassing. One-sided critical values of This table presents statistics on encompassing tests for excess stock return forecasts at various frequencies. Variables are explained in Goyal and Welch ENC statistic are obtained from Clark and McCracken (2001). cayp uses ex-post information. $\Delta RMSE^*$ is the RMSE difference between the unconditional forecast and the optimal forecast for the same sample/forecast period. $\Delta RMSE^{*r}$ is the RMSE difference between the unconditional forecast and the optimal forecast for the same sample/forecast period using rolling estimates of λ . Significance levels at 90%, 95%, and 99% are denoted by one, two, and three stars, respectively.

Panel A: Annual Data

		Estimation: OOS Forecast:			All After	All Data After 20 years				All Data After 1965)ata 1965				Afte Afte	After 1927 After 1965	
		Data	\overline{R}^2	~	ENC '	$\Delta ext{RMSE}^*$	$\Delta ext{RMSE}^{*r}$	~	ENC	$\Delta ext{RMSE}^*$		$\Delta ext{RMSE}^{*r}$	\overline{R}^2	~	ENC 2	$\Delta ext{RMSE}^*$	$\Delta ext{RMSE}^{*r}$
d/p	Dividend Price Ratio	1872–2013	0.37	0.19	0.49		-0.2501	0.33			435	-0.4497	1.55	l	2.16^{**}		-0.3126
d/y	Dividend Yield	1872 - 2013	0.50	0.33	1.78^*	+0.0457	-0.5396	0.23	0.94^*	* +0.0380		-0.4801	1.97 0.37		2.90^{**}	- 1	
e/p	Earning Price Ratio	1872 - 2013	0.45	0.04	0.08		-0.2440	0.31				-0.6204	1.67		1.68^*		
d/e	Dividend Payout Ratio	1872 - 2013	-0.70	-1.82	-1.53		+0.1114	-7.32			·	+0.3015	-1.15		-1.28		
svar	Stock Variance	1885 - 2013		-0.40	-4.42		-0.5420	4.16				-0.2064	-0.86		0.08		
p/m	Book to Market	1921 - 2013	2.92^*		4.02^{**}		-0.0596	0.21				-0.6490	3.54^*		1.60^*		-0.4089
ntis	Net Equity Expansion	1927 - 2013	5.90 ** -0.00	0.00	-0.01		-0.6038	-0.04				-1.0616	5.90^*		-0.18		
eqis	Pct Equity Issuing	1927 - 2013	5.74^{**}	0.44	2.81^{**}		-0.2512	0.31				-0.7538	5.74^{*}		1.61^*		
tbl	T-Bill Rate	1920-2013	99.0	0.46	2.39^*		-0.9366	0.48				-1.0121	0.58		2.96^{**}		
<u>t</u>	Long Term Yield	1919-2013	-0.43	0.30	2.62^{**}		-0.5898	0.30				-0.7562	-0.71		2.35^{**}		
ᆂ	Long Term Return	1926 - 2013	0.77	0.32	4.36^{**}		-0.1124	0.24				-6.9019	0.72		2.30^{**}		
tms	Term Spread	1920-2013	0.50	0.53	1.26		-0.8513	09.0				-0.6187	1.32		2.32^{**}		
dfy	Default Yield Spread	1919-2013	-0.90	-2.32	-0.38		-0.8644	-5.64			·	+0.0457	-0.99		-0.13		
dfr	Default Return Spread	1926 - 2013	-0.91	-0.10	-0.22		-0.3970	-0.14				-0.4908	-0.94		-0.30		
infl	Inflation	1919-2013	-0.73		-0.51		-0.4683	-0.10				-11.7385	-1.08		-0.86		
<u>.</u>	Invstmnt Capital Ratio	1947 - 2013	8.65 *** 0.68		4.45^{**}	$^*+0.5328$	+0.1126	0.68		*	·	+0.1126	8.65^*		4.45^{**}	*	
caya	Cnsmptn, Wlth, Incme	1945-2013	I	0.43	3.03^{**}	+0.2333	-0.2588	0.43				-0.2588	I		3.03^{**}		
cayp	Chsmptn, Wlth, Incme	1945-2013	6.37^{**}	1.00	3.74^{**}		-0.0903	1.00		- 1	159	-0.0903	6.37^{**}	1.00	3.74^{**}		
all	Kitchen Sink	1927 - 2013	9.84^{*}	0.08	3.31	+0.0671	-0.0585	-0.15		+0.129	297	-0.2818	9.84^*	-0.15	-2.67	+0.1297	-0.2818

Panel B: Monthly Data

		OOS Forecast:	c	After	After 194701			Afte	After 196501	
		Data	\overline{R}^2 λ		ENC ARMSE* 2	$\Delta ext{RMSE}^{*r}$	~	ENC Δ	ENC ARMSE*	$\Delta ext{RMSE}^{*r}$
d/p	Dividend Price Ratio	192701–201312	0.11 0.4		+0.0053	-0.0121	0.48	2.73^{**}	+0.0049	2600.0-
d/y		192701 - 201312	0.22* 0.4			-0.0100	0.43	4.13^{***}	+0.0067	-0.0071
e/p		192701 - 201312	0.33**0.3	8.64***		-0.0141	0.19	$\boldsymbol{2.64^{**}}$	+0.0019	-0.0180
d/e		192701 - 201312	-0.06 -0.0			-0.0131	-1.08	-3.65	+0.0151	+0.0007
svar	Stock Variance	192701 - 201312	0.07 1.9	0.63		-0.0420	2.47	0.72	+0.0066	-0.0487
csb		193705 - 200212	$0.92^{***}0.3$	7 6.21***	+0.0092	-0.0138	0.82	5.51^{***}	+0.0219	-0.0007
b/m	Book to Market	192701 - 201312	$0.35^{**} 0.1$.8 3.09 **		-0.0361	0.07	0.99	+0.0003	-0.0218
ntis	Net Equity Expansion	192701 - 201312	$0.34^{**} 0.1$	8 1.44		-0.0199	0.06	0.38	+0.0001	-0.0215
tbl	T-Bill Rate	192701 - 201312	0.13 0.5	5.59**		-0.0185	0.52	5.02^{***}	+0.0098	-0.0173
I	Long Term Yield	192701 - 201312	0.02 0.5	6 7.57***		-0.0069	0.37	5.56^{**}	+0.0077	-0.0129
It	Long Term Return	192701 - 201312	0.07 -0.0	8 -0.44		-0.0120	0.33	1.30^*	+0.0016	-0.0198
tms	Term Spread	192701 - 201312	0.05 0.5	$9 2.33^*$		-0.0292	0.62	2.22^{**}	+0.0052	-0.0480
dfy	Default Yield Spread	192701 - 201312	-0.08 -2.0	0 - 0.53		-0.0045	-0.43	-0.04	+0.0001	-0.0183
dfr	Default Return Spread	192701 - 201312	0.15 0.26	0.53		-0.0237	0.76	1.13^*	+0.0032	-0.0366
infl		192701 - 201312	-0.02 0.5	9 0.46	+0.0007	-0.0120	0.70	0.40	+0.0010	-0.0395
all	Kitchen Sink	192701 - 201312	1.78 ***0.(+0.0015	-0.0156	0.15	7.97^{**}	+0.0048	-0.0377

Explanation for Figures

These figures plot the IS and OOS performance of annual predictive regressions. Specifically, these are the cumulative squared prediction errors of the NULL minus the cumulative squared prediction error of the ALTERNATIVE. The ALTERNATIVE is a model that relies on predictive variables noted in each graph. The NULL is the prevailing equity premium mean for the OOS graph, and the full-period equity premium mean for the IS graph. The IS prediction relative performance is dotted (and usually above), the OOS prediction relative performance is solid. An increase in a line indicates better performance of the named model; a decrease in a line indicates better performance of the NULL. The blue band is the equivalent of 95% two-sided levels, based on MSE-T critical values from McCracken (2004). (MSE-T is the Diebold and Mariano (1995) t-statistic modified by Harvey, Leybourne, and Newbold (1998)). The right axis shifts the zero point to 1965. The Oil Shock is marked by a red vertical line.





































