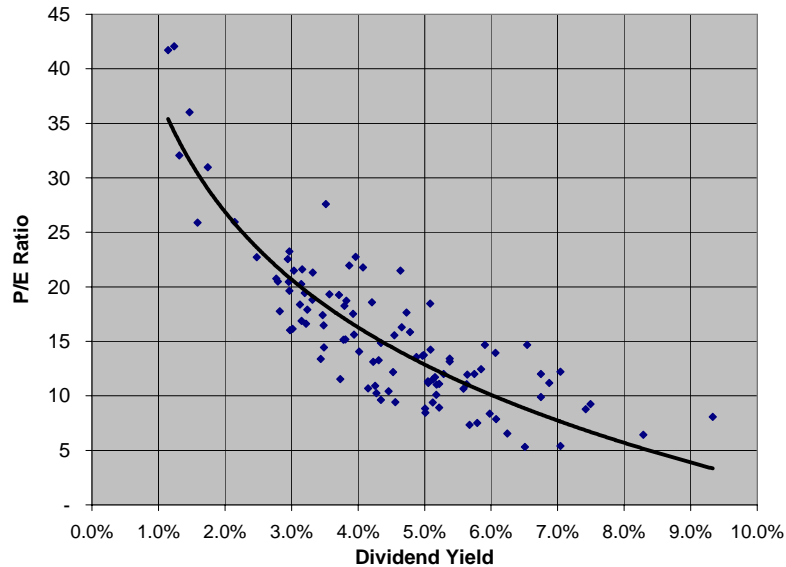


DISSECTING RETURNS THE FORMULA TO FUTURE STOCK MARKET RETURNS

S&P 500: Dividend Yield vs. P/E Ratio (1900-2002)



FINANCIAL PHYSICS AXIOMS (see www.CrestmontResearch.com)

- 1) GDP-Real: real growth in the economy has averaged close to 3% for most of the past century, especially the past 3 decades
THUS, GDP-R = 3%
- 2) GDP-N: nominal growth in the economy includes inflation
THUS, GDP-N = GDP-R + Inflation
- 3) EPS Growth: earnings per share of the larger, public companies in the S&P 500 have been slightly lower than overall GDP-N growth
THUS, keep this in mind for the chart below
[historically GDP-N = 6.5%; EPS = 5.9%; inflation = 3.5%]
- 4) P/E Ratio: this measure of stock market valuation is affected by the directional trend and level of inflation
THUS, if EPS growth is higher due to inflation, P/E ratios will decline to average or below average levels
- 5) REALISTIC EXPECTATIONS: Inflation is relatively low and stable; there are many factors currently containing inflation at near price stability
THUS, if GDP-R grows at historical levels (~3%) and inflation holds at ~1%+, EPS growth may only average 4%

TOTAL RETURN = (A) Dividends + (B) Market Price Change

(A) Dividends: readily known since its cash in your account

[Note above that the dividend yield is affected by the level of valuation (P/E). Dividends are paid from earnings, and have generally ranged from 35% to 60% of earnings. When stocks are priced high relative to earnings, the dividend yield will be lower. See the chart above.]

(B) Market Price Change = (Y) Earnings Change x (Z) P/E Ratio Change

(Y) Earnings (of the public companies) have grown at a rate slightly below economic growth (GDP-Nominal)

[see the Financial Physics presentation posted on the website]

(Z) P/E Ratios (level of valuation) are driven by inflation

[see the Financial Physics presentation posted on the website]

THEREFORE, we can develop a matrix of expected stock market returns over the rest of the decade based upon expected economic growth (and thus earnings growth) and expected future P/E ratios. As we know from the Financial Physics axioms, EPS growth will be dependent upon future inflation. As well, from Financial Physics, the P/E ratio depends upon inflation. See the chart to the right to assess the expected returns from stocks. Keep in mind that the average P/E ratio has been close to 15 and the average inflation rate has been near 3.5%.

GROSS PRE-TAX RETURN FROM THE STOCK MARKET

(annual return 2004-2010)

EST. DIVIDEND YIELD	2010 P/E Ratio	EPS GROWTH					Implied Inflation
		0%	2%	4%	6%	8%	
1.0%	40	8%	10%	12%	14%	17%	1%
1.1%	37	7%	9%	11%	13%	15%	1%
1.2%	35	6%	8%	10%	12%	15%	1%
1.4%	33	5%	8%	10%	12%	14%	1%
1.7%	30	4%	6%	8%	10%	13%	1%
2.0%	27	3%	5%	7%	9%	11%	1%
2.2%	25	2%	4%	6%	8%	10%	1%
2.5%	23	1%	3%	5%	7%	9%	1%
3.1%	20	0%	2%	4%	6%	8%	1%
3.8%	17	-2%	0%	2%	4%	6%	2%
4.3%	15	-3%	-1%	1%	3%	5%	4%
5.1%	13	-4%	-2%	0%	2%	3%	7%
6.0%	10	-6%	-5%	-3%	-1%	1%	12%
7.5%	7	-9%	-7%	-6%	-4%	-2%	15%
Implied Inflation		-3%	-1%	1%	3%	5%	

NOTE: Current P/E ratio, based upon S&P data and Crestmont's analysis, is 25x; base S&P 500 Index is 1,150; trailing 2003 'historically consistent' EPS is \$46. Important: transaction costs, fees, bid/ask spreads, etc. cost 2%+ annually