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PORTFOLIO MANAGEMENT

# Asset Allocation with Inflation-Protected Bonds

S.P. Kothari & Jay Shanken

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In the asset allocation analysis, we examined the weights on indexed bonds, conventional Treasury bonds, and a value-weighted stock market index in a mean-variance efficient portfolio (i.e., a portfolio that maximizes expected return for a given level of risk) when a riskless asset is available. The investment horizon was one year. The hypothetical indexed bond returns were combined with the historical returns on conventional bonds and stocks to estimate return standard deviations and correlations. Interestingly, using real returns, we found no role for conventional bonds unless the inflation risk premium exceeds 55 bps.

We also analyzed actual indexed bond data for 1997 through July 2003 to see whether the initial U.S. experience has been anything like our model-based predictions. The recent data confirm the suggestion of substantial diversification benefits to be had from adding TIPS. The volatility of TIPS returns has, in fact, been much lower than that observed in our historical simulation. Using the recent data to estimate risks and correlations, we again found that an efficient portfolio should give considerable weight to indexed bonds. This conclusion held for a wide range of scenarios for expected returns.

Indexed bonds dominated the efficient “tangency” portfolio in the absence of any inflation risk premium, and even with a risk premium of 50 bps, the allocation to indexed bonds exceeded that of conventional bonds. Although we do not recommend that an investor hold only indexed bonds, we do think indexed bonds should be a significant part of a diversified portfolio.

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