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▶ Volume 62, Issue 2 ▶ Facts and Fantasies about Commodity Futu

Financial Analysts Journal >

1,653 966

Volume 62, 2006 - Issue 2

Views CrossRef citations to date Altmetric

Derivative Instruments

Facts and Fantasies about Commodity **Futures**

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Pages 47-68 | Published online: 08 Apr 2019

https://doi.org/10.2469/faj.v62.n2.4083 **66** Cite this article

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I Accept ss, an Reject All ucted for Show Purpose y futures Although quities for equity f commodity sitively ation. e U.S. stock ated with the

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class is an investment in commodity futures.

Despite being an old asset class, commodity futures are not widely appreciated. Futures contracts are agreements to buy or sell a commodity at a future date at a price that is agreed upon today. Except for collateral requirements, futures contracts do not require a cash outlay for either buyers or sellers. The buyer of a futures contract is, on average, compensated by the seller of futures if the futures price is set below the expected spot price at the time of the expiration of the futures contract. The opposite is true when the futures price is set above the expected future spot price. In 1930, John Maynard Keynes postulated that sellers of futures (hedgers) would, on average, compensate the buyers of futures (speculators)—a situation he referred to as "normal backwardation." By examining the returns to futures over long periods, we indirectly tested this Keynesian prediction.

We constructed a dataset of returns on individual commodity futures going back as far as 1959. The dataset combines information about individual commodity futures prices obtained from the Commodity Research Bureau (covering, among other exchanges, the Chicago Board of Trade and Chicago Mercantile Exchange) and the London Metal Exchange. We computed investment returns by rolling positions in individual futures contracts forward over time. Commodity futures were combined into an equally weighted index, and much of the article is concerned with the behavior of this index.

We show that over a 45-year period, a diversified investment in collateralized

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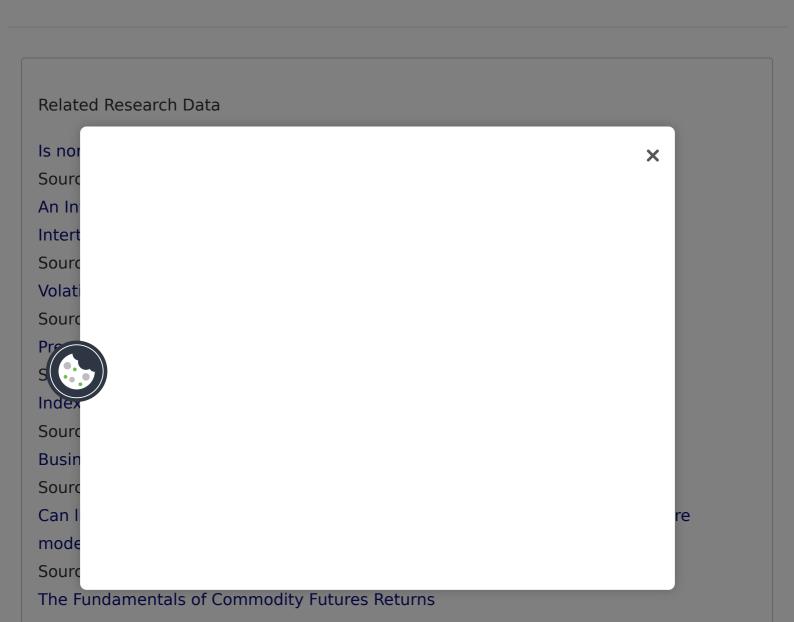
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Commodity futures are less risky by other standards. First, the distribution of commodity futures returns is skewed to the right, whereas equity return distributions are skewed to the left. In other words, relative to a normal bell-shaped curve, equities experience proportionally more crashes whereas the "crashes" in commodities most often occur on the upside, leading to positive returns to investors in commodity futures. Second, commodity futures have the ability to diversify portfolios of stocks and bonds. The sources of the diversification benefits are the ability of commodity futures to provide a (partial) hedge against inflation—stocks and bonds are poor hedges by comparison—and to partially offset the cyclical variation in the returns of stocks and bonds.

Finally, when we compared an investment in our index with a portfolio of stocks of commodity-producing companies, we found that these portfolios are not close substitutes: The stocks of commodity producers are more correlated with the broad stock market than with an index of commodity futures.



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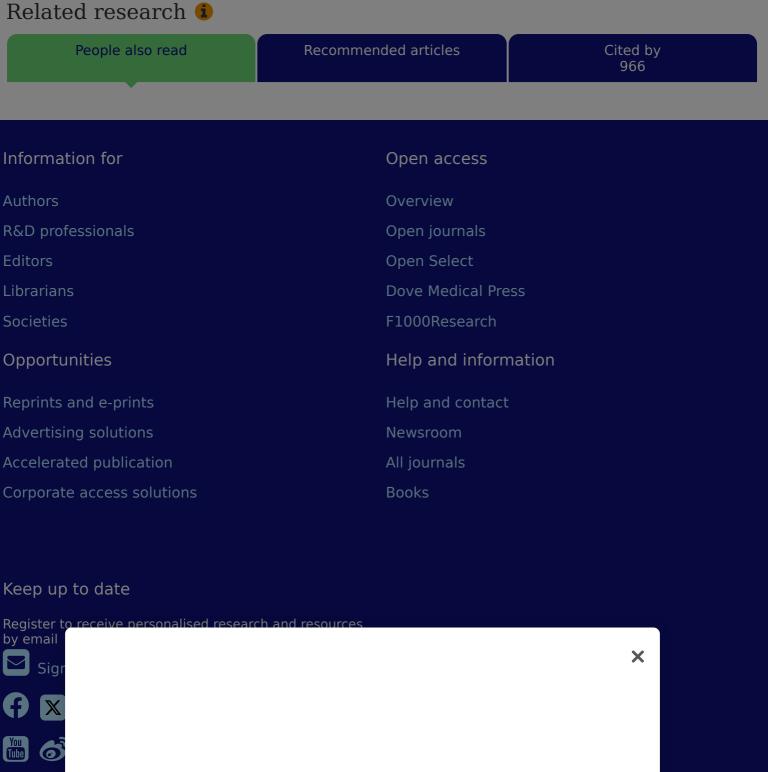
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