

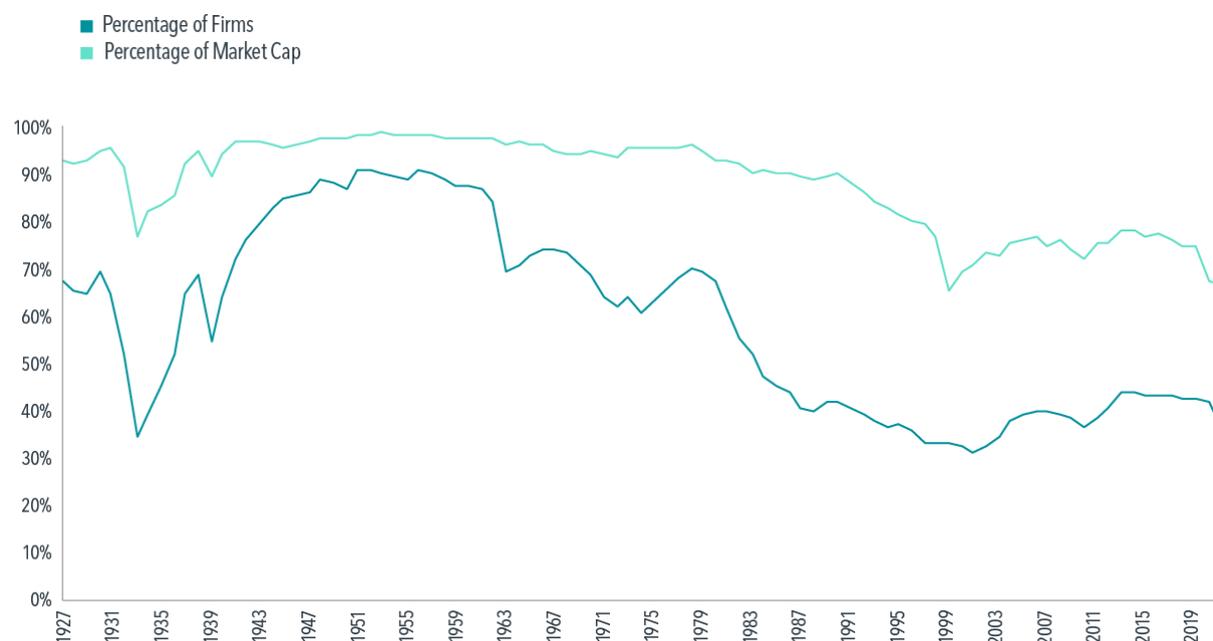
Should You Chase Dividend Stocks to Combat Inflation and Rate Hikes?

Inflation in the US has surged to the highest level in nearly 40 years, reaching 7.9% in February 2022.^{1,2} This, coupled with the US Federal Reserve's decision to raise interest rates, has alarmed many investors.³ Some are turning to dividend-paying stocks, hoping to receive more income protection and higher returns.⁴ Will it work?

Before diving into the performance of dividend-paying stocks, it's important to note that the percentage of firms paying dividends has declined globally.⁵ As shown below, 68% of US companies were paying dividends in 1927, while only 38% of firms paid in 2021. By focusing only on dividend-paying stocks, we will be sacrificing diversification. In addition, a dividend-focused strategy does not necessarily provide stable income. In fact, changes in dividend policy are common, especially during times of higher uncertainty. For example, many dividend payers cut their dividends during the pandemic—in the first three quarters of 2020, dividends from each dollar invested in US markets decreased by 22% compared to the same period in 2019.⁶

Diversification Down

Annual percentage of firms and market cap that paid dividends in US, 1927-2021



Source: Fama/French US Portfolios Formed on Dividend Yield. See the Index Description for more information regarding the indices shown.

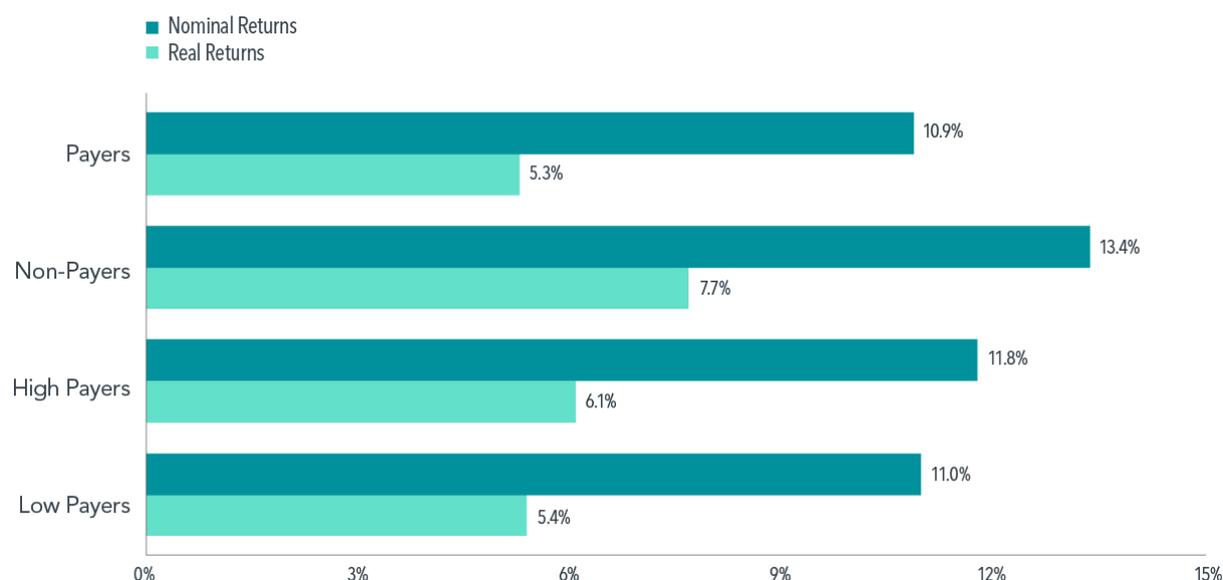
DO DIVIDENDS HELP COMBAT HIGH INFLATION?

To answer this question, we need to look at the performance of the Fama/French US portfolios formed on dividend yield from 1928 to 2021.⁷ At the end of June each year, all US companies are divided into two groups, payers and non-payers, based on whether they paid a dividend during the previous 12 months. Then, within the payers, high payers are defined as the 30% of firms with the highest dividend yields, and the low payers are the bottom 30%. As of December 2021, the weighted average dividend yield is 1.8%, 0.7%, and 3.7% for payers, low payers, and high payers, respectively.

The following table shows that all four dividend portfolios had positive nominal and real average returns in high-inflation years, when inflation was on average 5.5% per year.^{8,9} So outpacing high inflation over the long term is not a unique advantage of dividend-paying stocks. In addition, the return differences between payers vs. non-payers and high payers vs. low payers are not reliably different from zero. Therefore, we don't see strong evidence that dividend-paying stocks deliver superior inflation-adjusted performance during high inflation periods.

No Special Delivery

Average annual returns of dividend portfolios in high-inflation years, 1928-2021



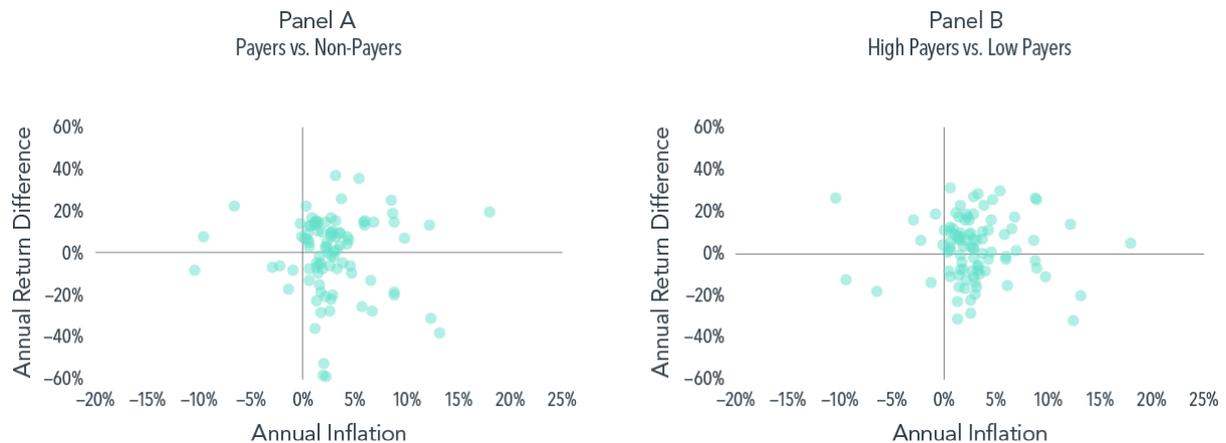
Past performance is no guarantee of future results

Source: Fama/French US Portfolios Formed on Dividend Yield. See the Index Description for more information regarding the indices shown.

Next, we take a closer look at inflation and the relative performance of dividend paying stocks each year. The scatterplot charts reveal no clear pattern between the level of inflation and the difference in performance between payers and non-payers (Panel A) or between high payers and low payers (Panel B) in the same year. The lack of relation is also apparent when we look at the performance of dividend portfolios against contemporaneous changes in annual inflation in **the second table**. These results suggest that even a crystal ball on annual inflation levels or inflation changes tells us little about how dividend-paying stocks would fare. As a result, chasing dividends during, or in anticipation of, high inflation periods may be unlikely to lead to better investment outcomes.

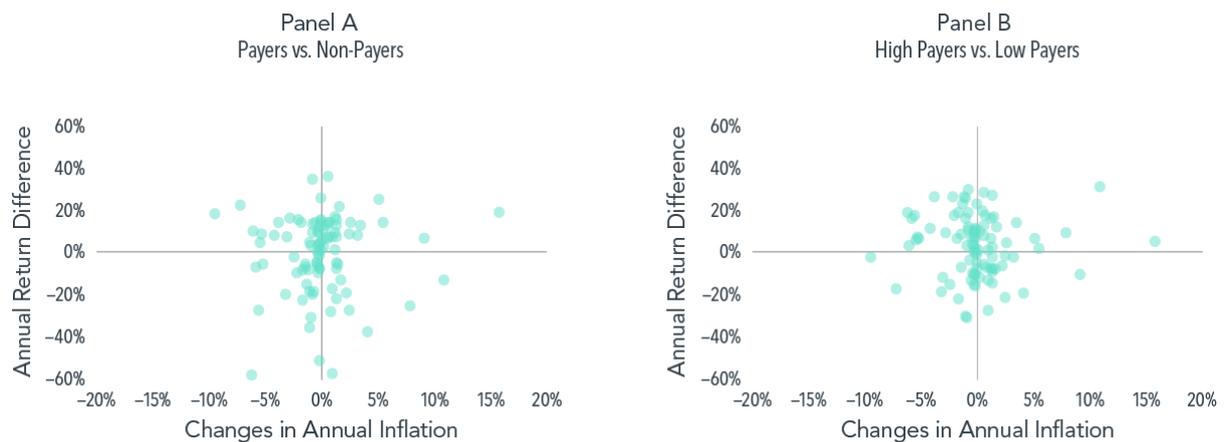
Scattershot

Inflation level and relative performance of dividend portfolios in same year, 1928-2021



Fuzzy Relation

Change in annual inflation and relative performance of dividend portfolios in same year, 1928-2021



Past performance is no guarantee of future results

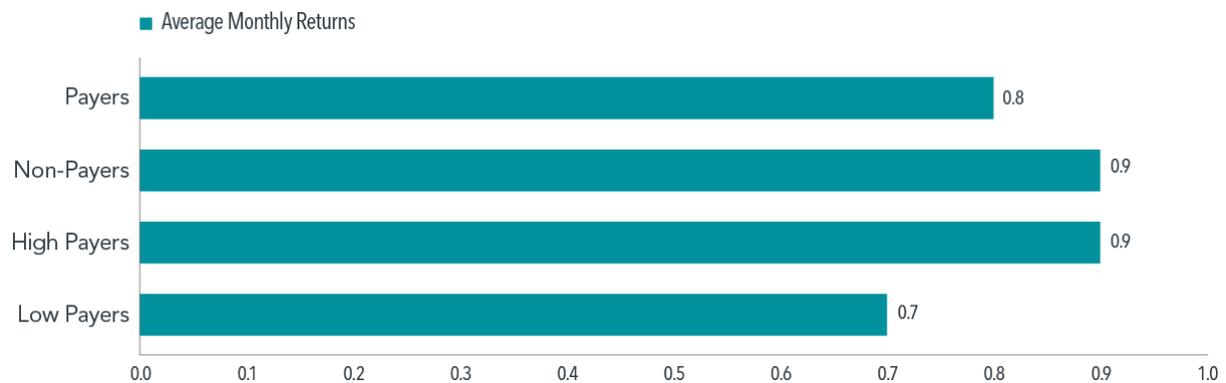
Source: Fama/French US Portfolios Formed on Dividend Yield. See the Index Description for more information regarding the indices shown.

WHAT ABOUT RISING INTEREST RATES?

We first look at the average monthly returns for different dividend portfolios in months with rising 3-month Treasury yields. **The table below** shows that dividend payers, non-payers, high payers, and lower payers had similar average monthly returns from March 1934 to December 2021. The conclusions are similar using the effective federal funds rate and 10-Year Treasury yields.¹⁰

Unconvincing

Average monthly returns of dividend portfolios in months with rising 3-month Treasury yields, March 1934-December 2021



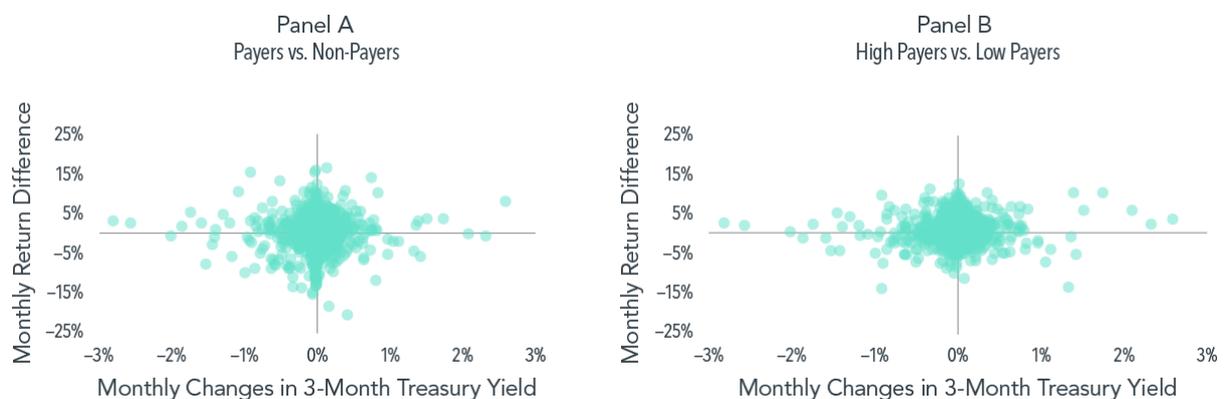
Past performance is no guarantee of future results

Source: Fama/French US Portfolios Formed on Dividend Yield. See the Index Description for more information regarding the indices shown. Treasury yield data are obtained from the Federal Reserve Bank of St. Louis.

Changes in interest rates are largely unpredictable, even with Fed signals.¹¹ Still, we ask what perfect foresight on interest rate changes each month can do for investors. The answer is not much. There is no discernible relationship between interest rate movements and the relative performance of dividend payers over nonpayers or high payers over low payers in the same month, see Panel A & B. Again, the results are similar when we use other interest rates, such as the effective federal funds rate and 10-Year Treasury yields.

Lumped Together

Monthly changes in 3-month Treasury yields and relative performance of dividend portfolios in same month, March 1934-December 2021



Past performance is no guarantee of future results

Source: Fama/French US Portfolios Formed on Dividend Yield. See the Index Description for more information regarding the indices shown. Treasury yield data are obtained from the Federal Reserve Bank of St. Louis.

WHAT SHOULD INVESTORS DO?

It is natural to be concerned about the potential impact of high inflation and rising interest rates on portfolios. However, we believe this analysis shows there is no reason to expect dividend-paying stocks or high dividend payers to offer more protection and higher returns during these periods. Market prices reflect the aggregate expectations of all market participants, including expectations about inflation and interest rates. Staying disciplined and broadly diversified, instead of chasing dividend stocks, may put investors in a better position to achieve their investment goals.

FOOTNOTES

1. "Consumer Price Index - February 2022," Bureau of Labor Statistics, US Department of Labor, March 10, 2022.
2. US inflation is measured as the annual rate of change in the Consumer Price Index for All Urban Consumers (CPI-U, not seasonally adjusted) from the Bureau of Labor Statistics.
3. Nick Timiraos, "Fed Raises Interest Rates for First Time Since 2018," *Wall Street Journal*, March 17, 2022.
4. Hardika Singh and Michael Wursthorn, "Investors Gobble Up Dividend Stocks During Market Turbulence," *Wall Street Journal*, February 8, 2022.
5. Stanley Black, "Global Dividend-Paying Stocks: A Recent History" (white paper, Dimensional Fund Advisors, March 2013).
6. "Dividends in the Time of COVID-19," Insights (blog), Dimensional Fund Advisors, November 30, 2020.
7. See the Index Description for more information regarding Fama/French Portfolios formed on Dividend Yield.
8. High-inflation years are defined as having inflation greater than the full sample median, 2.68%, from 1928 to 2021.
9. Real returns are calculated using the following method: $[(1 + \text{nominal annual return}) / (1 + \text{inflation rate})] - 1$.
10. "Federal Funds Effective Rate (FEDFUNDS)," Federal Reserve Bank of St. Louis (Percent, Monthly, Not Seasonally Adjusted).
11. Sooyeon Mirda, "Reading Fed Tea Leaves? Watch Market Prices Instead," Insights (blog), Dimensional Fund Advisors, September 24, 2022.

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