Is It Possible to Be Over-Diversified?

Avery Hayes

Diversification is one of the cornerstones of investing, often touted as the best way to reduce risk. The idea is simple: by spreading your investments across various assets, sectors, and geographies, you can mitigate the impact of any single investment's poor performance. However, while diversification is essential, there is a point where it can become counterproductive—what some call "over-diversification." In this article, we will explore the concept of over-diversification, the potential downsides, and how to strike the right balance in your investment portfolio.

The Importance of Diversification

Before diving into the potential pitfalls of over-diversification, it's crucial to understand why diversification is so widely recommended. The main idea is rooted in modern portfolio theory (MPT), which suggests that a diversified portfolio can achieve a higher return for a given level of risk, or alternatively, a lower level of risk for a given return.

Key Benefits of Diversification:

1. **Risk Reduction:** Diversification reduces the unsystematic risk (the risk specific to a particular company or industry) in your portfolio. While it cannot eliminate systemic risk (market risk), it can cushion the blow of individual assets underperforming.
2. **Smoother Returns:** A diversified portfolio tends to produce more consistent returns over time because the performance of well-diversified assets typically offsets one another, leading to a smoother overall performance.
3. **Exposure to Opportunities:** Diversification allows investors to participate in various growth opportunities across different sectors and markets.

When Diversification Goes Too Far

While diversification is beneficial, there is a point where adding more assets to a portfolio offers diminishing returns and could even harm performance. This is known as over-diversification or "diworsification."

1. Diminished Returns:

- The law of diminishing returns applies to diversification. Research shows that after a certain point, adding more stocks to a portfolio has a minimal impact on reducing risk. Studies by the CFA Institute suggest that most diversification benefits can be achieved with a portfolio of 20 to 30 stocks. Beyond this range, the risk reduction becomes marginal while the portfolio management becomes more complex.
- Once you reach a certain number of assets in a portfolio, the risk is no longer decreasing significantly, but the expected gain is diminishing. A study by Meir Statman in 1987 revealed that while adding stocks to a portfolio reduces risk, after around 20 to 30 stocks, the reduction in risk becomes minimal. The correlation between the stocks begins to rise, meaning that additional stocks may not offer significant diversification benefits. Moreover, research by the *Journal of Portfolio Management* suggests that the marginal benefits of diversification flatten after approximately 30 stocks.

2. Overlapping Risk Exposure:

- Over-diversification can lead to holding multiple assets that are highly correlated. For instance, owning several stocks across different industries, such as technology, healthcare, and defense, can reduce the correlation between assets and provide more effective diversification. However, if you inadvertently concentrate too much on sectors that move together, the risk of significant losses in those areas remains high, defeating the purpose of diversification.

3. Increased Costs and Complexity:

- More assets mean more transactions, which can increase costs in terms of trading fees, taxes, and management fees. Additionally, monitoring a vast array of investments can be time-consuming and confusing, potentially leading to poor decision-making.

4. Diluted Returns:

- Holding too many assets can dilute the returns of your best-performing investments. If you have a portfolio with 100 different stocks, the impact of any single stock's success is minimized. This can result in mediocre performance even if a few investments perform exceptionally well.

The Benefits of Concentration

While diversification is about spreading risk, concentration focuses on investing more heavily in fewer, high-quality investments. Concentrating on strong, fundamentally sound stocks that have the potential to outperform over the long term can lead to better portfolio performance.

Warren Buffett, one of the most successful investors of all time, is a proponent of this approach. He often emphasizes that it is better to put substantial investments into companies you thoroughly understand and believe in, rather than spreading your investments too thin.

Key Benefits of Concentration:

1. **Higher Returns:** Concentrating on a smaller number of high-quality stocks can lead to higher returns. A study by Morningstar showed that concentrated portfolios of high-quality stocks often outperform more diversified ones over extended periods.
2. **Better Understanding of Investments:** With fewer investments to manage, investors can focus on thoroughly understanding each company's business model, management, and market position. This deeper understanding can lead to better decision-making and more informed investment choices.
3. **Compounding Growth:** High-quality companies with strong fundamentals have the potential to compound returns over time. By holding these investments for the long term, investors can benefit from the power of compounding, which can significantly boost overall returns.

Striking the Right Balance

The key to effective diversification lies in finding the right balance. Here are some tips to avoid over-diversification:

1. Focus on Asset Allocation:

- Diversify across different asset classes (stocks, bonds, real estate, etc.) rather than overloading on one. Asset allocation is the primary determinant of a portfolio's risk and return profile, according to a study by Brinson, Hood, and Beebower (1986) which found that asset allocation decisions accounted for over 90% of the variation in a portfolio's returns.

2. Choose Non-Correlated Stocks:

- Ensure that the stocks in your portfolio are not highly correlated. This means selecting investments across various sectors, such as technology, healthcare, and defense, which tend to respond differently to market events. For example, tech stocks might thrive during

periods of innovation, while healthcare stocks could perform well during times of economic uncertainty.

3. Regular Portfolio Review:

- Regularly review and rebalance your portfolio to ensure it aligns with your financial goals and risk tolerance. This also helps in avoiding unintentional over-diversification. *Quality over quantity* should guide your review process; focus on strong, fundamentally sound investments that have the potential to outperform over the long term.

4. Concentrate in High-Quality Stocks:

- Instead of spreading your investments too thinly, consider concentrating on high-quality stocks that have a history of strong performance. Warren Buffett, one of the most successful investors of all time, advocates for concentration in strong businesses that can compound returns over the long term. Studies by Morningstar have shown that concentrated portfolios of high-quality stocks often outperform more diversified ones over extended periods. This strategy can lead to better long-term gains without exposing you to unnecessary risk.

5. Use ETFs and Mutual Funds Wisely:

- While ETFs and mutual funds are great for diversification, be mindful of overlap in their holdings. You might unknowingly invest in the same stocks through different funds, leading to unintended concentration.

Conclusion

Diversification is a critical tool for managing investment risk, but it must be used wisely. Over-diversification can lead to diminished returns, increased costs, and unnecessary complexity. By focusing on asset allocation, choosing non-correlated stocks, and maintaining a disciplined approach with a focus on quality over quantity, investors can strike the right balance. Concentrating on high-quality stocks with strong fundamentals and long-term growth potential can also enhance your portfolio's performance. Remember, successful investing is not about holding as many different investments as possible but about how those investments work together to achieve your desired risk and return profile.

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AVERY HAYES

Financial Advisor

Avery Hayes is a dedicated Financial Advisor at Hayes Advisory Group with a focus on strategic planning and education. With a passion for helping clients navigate the complexities of financial management, Avery specializes in creating and implementing comprehensive plans that encompass investment management, financial planning, and tax planning. Avery's approach is rooted in a deep understanding of the financial landscape and a commitment to educating clients, empowering them to make informed decisions about their financial future. Avery also helps with educational courses taught through employer classes, classes taught for Federal employees, and The Prepare Institute, a 501C 3 nonprofit educational institution.

765.452.7526 | Avery@hayesadvisorygroup.com | hayesadvisorygroup.com