

## RESEARCH

# Singled Out: Historical Performance of Individual Stocks

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## KEY TAKEAWAYS

- Single stocks have a wide range of returns. Only about a fifth of stocks survive and outperform the market over 20-year periods.
- They delist at a high rate, even those that have been around for a long time and have outperformed the market for 20 years.
- The chance of any single stock outperforming the market in the future is not meaningfully different when conditioning on its past performance.

Many investors end up holding large concentrated positions in single stocks, whether as the result of employee compensation or a handsomely rewarded stock selection. Familiarity with these stocks or a successful track record while holding them may discourage investors from diversifying. Unfortunately, this can lead to one of the most well-known cautionary tales in finance: tragic declines in wealth from losses in single securities. And data on the behavior of individual stocks suggests it's hardly rare for firms to underperform—or even go under—regardless of past performance.

## SHIFTING LANDSCAPE

Industry development and innovation are signs of a healthy economy. Financial markets reflect this dynamic through the birth and death of public companies. As shown in **Exhibit 1**, this translates to meaningful turnover among individual stocks. The average survivorship statistics over rolling periods imply a little over one in five US stocks available in the market at a given time delist within five years. The survival rate goes down over longer periods, with just under half of stocks on average still trading 20 years later.

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Not all delistings produce the same experience for investors. We categorize these delisting events as “good” or “bad” based on the circumstances for each stock. For example, a stock delisting due to a merger would be a good delist, as the shareholders of that stock would be compensated during the acquisition. On the other hand, a firm that delists due to its deteriorating financial condition would be a bad delist since it is an adverse outcome for investors. Over 20 years, about 18% of stocks went the bad-delist route on average.

Most of us yearn not just to survive but also to thrive. Looking at the last row of Exhibit 1, only a minority of stocks have achieved that. A little over a third of stocks on average survived and outperformed the broad US market over five years; this rate dwindled to a little more than one in five over 20 years.

### Exhibit 1 The Good, the Bad, and the Lucky

Average survivorship and outperformance rates for cross-sections of US stocks over rolling periods formed each month, January 1927–December 2020

	5 Years	10 Years	20 Years
Surviving	78.7%	64.7%	47.6%
Delisting	21.3%	35.3%	52.4%
Good Delists	12.8%	21.9%	34.3%
Bad Delists	8.5%	13.4%	18.1%
Surviving + Outperforming the Market	34.7%	28.8%	21.4%

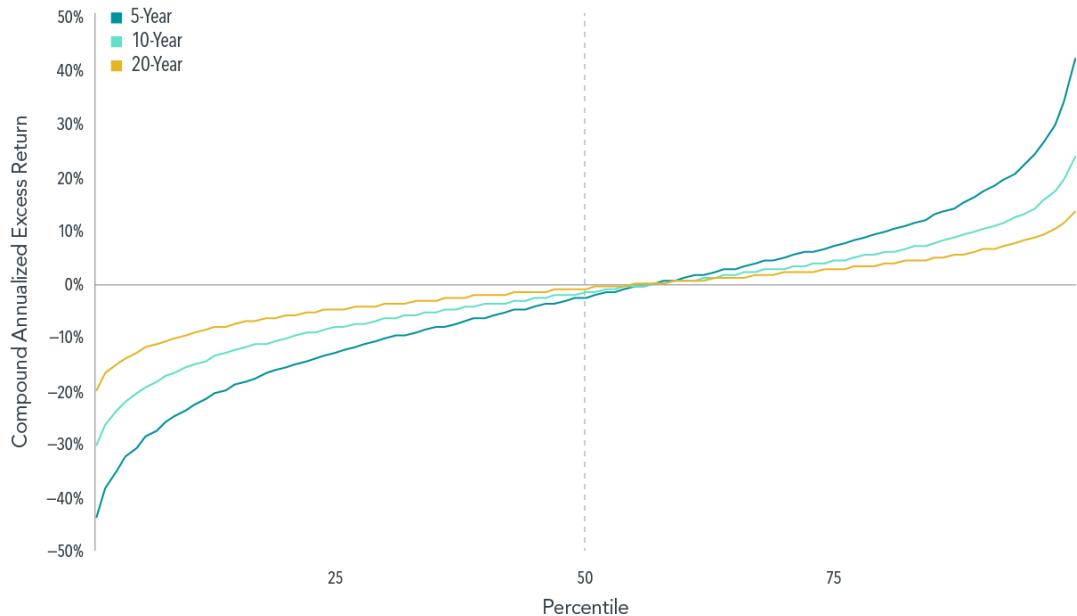
Past performance is not a guarantee of future results.

*Source: Dimensional, using data from CRSP and Compustat. The US market includes all US common stocks without gaps in monthly data for a given rolling period. Delisted stocks with delisting code between 200 and 399 are considered good delists; bad delists are 400 or greater. Outperformance defined relative to the value-weighted market at each cross-section. Statistics reported are averages computed across rolling multiyear periods formed monthly from the cross-section of stocks available at the start of that month.*

The range of returns for single stocks is vast, even among those surviving a long time. **Exhibit 2** shows distributions of excess returns for surviving stocks over rolling periods of five, 10, and 20 years formed using the average cumulative return in excess of the market at each percentile. The median stock underperforms the market across all three horizons. Not until we reach the 57th, 57th, and 56th percentiles at the 5-, 10-, and 20-year horizons, respectively, do we see positive excess returns relative to the market. Although the percentage of underperformers is similar across time horizons, the magnitudes of excess returns at the extremes are smaller at longer horizons.

## Exhibit 2 Hit Singles?

Average return in excess of the US market by percentile for the cross-section of surviving stocks over rolling periods, January 1927–December 2020



Past performance is not a guarantee of future results.

Source: Dimensional, using data from CRSP and Compustat. The US market includes all US common stocks without gaps in monthly data for a given rolling period. Excess return for each stock is the difference in annualized compound returns between the stock and the value-weighted market. Statistics reported are averages computed across rolling multiyear periods formed monthly from the cross-section of stocks available at the start of that month.

## WHY DIVERSIFICATION PAYS

For investors holding stocks with a long history of beating the market, diversification might seem like “worsification,” reducing expected returns relative to a more concentrated approach. In many cases, these stocks represent successful companies that investors believe will continue to prosper and buck the broad trend of adverse outcomes for single stocks. Unfortunately, a long-term track record of outperformance generally has not been an indicator of future outperformance. Take, for example, stocks that have outperformed the market over the previous 20 years. **Exhibit 3** shows that, on average, about 30% of these stocks continue to survive and outperform over the following 10 years. Of the stocks that have *underperformed* over the previous 20 years, the average subsequent outperformance rate is also 30%. In other words, winners have been no more likely than losers to beat the market in the future.

Outperformers do tend to experience a lower bad delist frequency than underperformers, which likely reflects the impact of strong performance on firm size. For example, looking at the same data set of US stocks from CRSP and Compustat, the median market cap of past winners was \$4.2 billion as of December 2020—compared to \$800 million for past losers. However, the bad delist rate is still 3.0% even for past outperformers; the bankruptcies of companies like Enron, Chesapeake Energy, and Circuit City remain fresh memories for many investors and former employees of those

firms.

### Exhibit 3

#### Repeat Customers?

Unconditional and conditional performance of individual stocks using 10-year rolling periods, January 1947–December 2020

	Average Number of Stocks	Percent Surviving and Outperforming over Next 10 Years	Percent with Bad Delists within Next 10 Years
All Stocks at Beginning of Window	3,537	24.3	15.0
Outperformers over Past 20 Years	276	30.2	3.0
Underperformers over Past 20 Years	335	30.3	9.1

### Past performance is not a guarantee of future results.

*Source: Dimensional, using data from CRSP and Compustat. Includes all US common stocks. Delisted stocks with delisting code between 200 and 399 are considered good delists; bad delists are 400 or greater. Stocks with complete prior 20-year monthly data classified as past outperformers and underperformers relative to the value-weighted market. 10-year survivorship and outperformance defined relative to the value-weighted market at each cross-section using stocks without gaps in the following 10-year monthly data. Survivorship and outperformance and bad delists are averages computed across rolling 10-year periods formed monthly from the cross-section of stocks available at the start of that month.*

A well-diversified portfolio can help investors reliably capture market returns, limit individual stock risk, and improve the ability to tilt toward segments of the market with higher expected returns. Even when accounting for capital gains taxes, transitioning from a concentrated portfolio to a broadly diversified one can deliver higher growth of wealth. The long-term benefits of diversification can outweigh the short-term costs associated with liquidating outside positions. Personalized vehicles can be used to further tailor investments, manage taxes, and suit individual considerations.

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