



# SEQUENCE OF RETURNS RISK

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How Can it Affect Your Retirement?



# WHAT IS SEQUENCE OF RETURNS?

Sequence of returns refers to the order of gains and losses a portfolio experiences. While this sequence is less consequential before retirement, it becomes significantly important during retirement. A negative sequence of returns early in retirement can substantially risk the longevity of your portfolio.

Beginning to withdraw funds from your investment portfolio when the market is in a downturn can accelerate the depletion of your assets. Simply put, sequence of return risks can have a profound impact on your retirement; because it's not how much your investments go up or down, it's when the ups and downs occur.

## HOW DOES SEQUENCE OF RETURNS WORK?

During the 'accumulation phase' before retirement, the sequence of returns your portfolio experiences is less critical than during the 'distribution phase,' when you withdraw money each year for retirement. For clarity, compare Table 1 and Table 2.

Table 1 presents a sequence of S&P 500 returns on a \$1 million portfolio. In contrast, the portfolio on the right reflects an inverted sequence of returns, effectively reversing the order of returns.

Table 1: The Accumulation Phase

| Age | Return  | End of Year | Age | Inverted Return | End of Year |
|-----|---------|-------------|-----|-----------------|-------------|
|     |         | \$1,000,000 |     |                 | \$1,000,000 |
| 40  | -8.89%  | \$911,100   | 40  | 28.66%          | \$1,286,600 |
| 41  | -12.98% | \$792,839   | 41  | -7.07%          | \$1,195,637 |
| 42  | -24.26% | \$600,496   | 42  | 19.43%          | \$1,427,950 |
| 43  | 26.18%  | \$757,706   | 43  | 9.27%           | \$1,560,321 |
| 44  | 9.36%   | \$828,628   | 44  | -1.03%          | \$1,544,249 |
| 45  | 3.37%   | \$856,552   | 45  | 13.00%          | \$1,745,002 |
| 46  | 13.58%  | \$972,872   | 46  | 31.39%          | \$2,292,758 |
| 47  | 3.55%   | \$1,007,409 | 47  | 11.06%          | \$2,546,337 |
| 48  | -39.63% | \$608,173   | 48  | 0.48%           | \$2,558,559 |
| 49  | 26.50%  | \$769,339   | 49  | 11.55%          | \$2,854,073 |
| 50  | 11.55%  | \$858,197   | 50  | 26.50%          | \$3,610,402 |
| 51  | 0.48%   | \$862,317   | 51  | -39.63%         | \$2,179,600 |
| 52  | 11.06%  | \$957,689   | 52  | 3.55%           | \$2,256,976 |
| 53  | 31.39%  | \$1,258,308 | 53  | 13.58%          | \$2,563,473 |
| 54  | 13.00%  | \$1,421,888 | 54  | 3.37%           | \$2,649,862 |
| 55  | -1.03%  | \$1,407,242 | 55  | 9.36%           | \$2,897,889 |
| 56  | 9.27%   | \$1,537,693 | 56  | 26.18%          | \$3,656,556 |
| 57  | 19.43%  | \$1,836,467 | 57  | -24.26%         | \$2,769,476 |
| 58  | -7.07%  | \$1,706,629 | 58  | -12.98%         | \$2,409,998 |
| 59  | 28.66%  | \$2,195,749 | 59  | -8.89%          | \$2,195,749 |

## Table 2: The Distribution Phase

Table 2 shows the same comparison of inverted returns, but with \$50,000 of annual distributions pulled in the beginning of each year.

| Age | Return  | Income    | End of Year | Age | Return  | Income    | End of Year |
|-----|---------|-----------|-------------|-----|---------|-----------|-------------|
|     |         |           | \$1,000,000 |     |         |           | \$1,000,000 |
| 60  | -8.89%  | -\$50,000 | \$865,545   | 60  | 28.66%  | -\$50,000 | \$1,222,270 |
| 61  | -12.98% | -\$50,000 | \$709,687   | 61  | -7.07%  | -\$50,000 | \$1,089,391 |
| 62  | -24.26% | -\$50,000 | \$499,647   | 62  | 19.43%  | -\$50,000 | \$1,241,344 |
| 63  | 26.18%  | -\$50,000 | \$567,365   | 63  | 9.27%   | -\$50,000 | \$1,301,782 |
| 64  | 9.36%   | -\$50,000 | \$565,790   | 64  | -1.03%  | -\$50,000 | \$1,238,888 |
| 65  | 3.37%   | -\$50,000 | \$533,172   | 65  | 13.00%  | -\$50,000 | \$1,343,444 |
| 66  | 13.58%  | -\$50,000 | \$548,787   | 66  | 31.39%  | -\$50,000 | \$1,699,456 |
| 67  | 3.55%   | -\$50,000 | \$516,494   | 67  | 11.06%  | -\$50,000 | \$1,831,886 |
| 68  | -39.63% | -\$50,000 | \$281,622   | 68  | 0.48%   | -\$50,000 | \$1,790,439 |
| 69  | 26.50%  | -\$50,000 | \$293,002   | 69  | 11.55%  | -\$50,000 | \$1,941,459 |
| 70  | 11.55%  | -\$50,000 | \$271,069   | 70  | 26.50%  | -\$50,000 | \$2,392,696 |
| 71  | 0.48%   | -\$50,000 | \$222,130   | 71  | -39.63% | -\$50,000 | \$1,414,286 |
| 72  | 11.06%  | -\$50,000 | \$191,168   | 72  | 3.55%   | -\$50,000 | \$1,412,718 |
| 73  | 31.39%  | -\$50,000 | \$185,480   | 73  | 13.58%  | -\$50,000 | \$1,547,775 |
| 74  | 13.00%  | -\$50,000 | \$153,093   | 74  | 3.37%   | -\$50,000 | \$1,548,250 |
| 75  | -1.03%  | -\$50,000 | \$102,031   | 75  | 9.36%   | -\$50,000 | \$1,638,486 |
| 76  | 9.27%   | -\$50,000 | \$56,854    | 76  | 26.18%  | -\$50,000 | \$2,004,352 |
| 77  | 19.43%  | -\$50,000 | \$8,186     | 77  | -24.26% | -\$50,000 | \$1,480,226 |
| 78  | -7.07%  | \$0       | \$0         | 78  | -12.98% | -\$50,000 | \$1,244,583 |
| 79  | 28.66%  | \$0       | \$0         | 79  | -8.89%  | -\$50,000 | \$1,088,384 |

In conclusion, the two tables highlight the critical importance of investment strategy phases. During the accumulation years, the uninterrupted growth of a portfolio demonstrates resilience against the sequence of returns. However, as retirement approaches, the situation changes: the stark contrast in portfolio balances—when income withdrawals are made—underscores the necessity of evolving our investment mindset. Engaging with a financial professional who specializes in distribution planning for retirement is not just prudent; it's essential. While we cannot predict market returns or their timing, thorough planning can help manage risk and potentially contribute to a more secure financial future in retirement.



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## SOURCES

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