## Table 1: $\quad$ The Distribution of Coverage Ratios Across Asset Allocations, U.S., 1872-2021

This table shows, for 11 asset allocations with different proportions of stocks $(S)$ and bonds ( $100-S$ ), over 121 rolling 30 -year retirement periods beginning with 1872-1901 and ending with 1992-2021, summary statistics for the distributions of coverage ratios for the U.S. market. The analysis is based on a $\$ 1,000$ retirement portfolio, a $4 \%$ initial withdrawal rate, 30 annual withdrawals adjusted by inflation, and annual rebalancing. For each distribution, the statistics include the mean, the median, cutoff points for six percentiles, and the proportion of periods in which the coverage ratio is lower than $1\left(P_{c<1}\right)$. $S$ and $P_{c<1}$ expressed in $\%$. The data is described in Table A 1 in the appendix.

| $S \rightarrow$ | 100\% | 90\% | 80\% | 70\% | 60\% | 50\% | 40\% | 30\% | 20\% | 10\% | 0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1\% | 0.77 | 0.80 | 0.83 | 0.87 | 0.87 | 0.83 | 0.83 | 0.80 | 0.77 | 0.67 | 0.60 |
| 5\% | 1.16 | 1.30 | 1.25 | 1.20 | 1.11 | 1.04 | 0.97 | 0.90 | 0.80 | 0.77 | 0.67 |
| 10\% | 1.46 | 1.42 | 1.43 | 1.41 | 1.33 | 1.23 | 1.14 | 0.97 | 0.90 | 0.80 | 0.73 |
| Median | 3.22 | 2.97 | 2.77 | 2.38 | 2.02 | 1.78 | 1.57 | 1.37 | 1.22 | 1.08 | 0.97 |
| Mean | 3.76 | 3.43 | 3.11 | 2.81 | 2.53 | 2.27 | 2.03 | 1.82 | 1.63 | 1.46 | 1.32 |
| 90\% | 6.34 | 5.79 | 5.35 | 4.84 | 4.57 | 4.20 | 3.86 | 3.50 | 3.10 | 2.74 | 2.42 |
| 95\% | 7.58 | 6.71 | 5.81 | 5.27 | 4.98 | 4.67 | 4.37 | 4.06 | 3.69 | 3.35 | 3.02 |
| 99\% | 9.85 | 7.52 | 6.21 | 5.82 | 5.64 | 5.47 | 5.26 | 5.01 | 4.73 | 4.42 | 4.11 |
| $\mathrm{P}_{\mathrm{C}<1}$ | 2.5\% | 2.5\% | 2.5\% | 3.3\% | 3.3\% | 3.3\% | 5.8\% | 10.7\% | 24.0\% | 43.0\% | 52.1\% |

