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The Investment Performance of Rare U.S. Coins

By Raymond E. Lombra, Ph.D.

An independent study of the investment performance of rare U.S. coins for the period January 1979 to December 2025.

Analysis by R L Associates, Penn State University, January 2026.

Raymond E. Lombra, Ph.D., Professor of Economics, Penn State University, has authored numerous economic and financial books, publications and periodicals. Professor Lombra has been a consultant to the House Banking Committee of the U.S. Congress, the Federal Reserve System, the Congressional Budget Office, the Joint Economic Committee, Morgan-Stanley, the International Monetary Fund and the U.S. Treasury. His many honors and awards include election to Who's Who in Economics.





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Overview

This study updates and extends my earlier studies, the first of which was prepared for the Joint Committee on Taxation of the U.S. House and Senate. It focuses on the longer run performance of gold and rare coins, both relative to each other and to the more typical array of assets comprising most portfolios—stocks, bonds, and money market instruments, specifically, Treasury bills.





Risk and Return on Broad Asset Classes

In collecting, arraying and analyzing the data, I assume that the typical investor has at least a one-year holding period or investment horizon; this assumption is reasonable in a study that takes as given that frequent trading by typical investors, particularly within their retirement accounts, will yield inferior returns, especially when transaction costs are factored in.

Table 1 shows the average annual rate of return on stocks, Treasury bonds (10-year maturity), gold and rare coins over the last 47 years (1979-2025 inclusive). While any specific sample period is somewhat arbitrary, I wanted a period long enough to cover several economic cycles. As can be seen, high-quality coins and stocks continue to have the highest returns over the past four and a half decades.

Table 1. Evaluating the Performance of Individual Asset Classes Over Time

Average Annual % Returns 1979-2025	
Stocks	13.2%
Treasury Bonds	6.7%
Gold Bullion	7.5%
Coins (all types – MS65)	9.0%
Coins (all types – MS63-65)	7.8%

Source: R L Associates, Penn State University





Volatility

Next, I extend the analysis of “performance” to include the historical fluctuation or volatility of the annual returns, typically measured by the standard deviation of the returns. I also provide a simple count of the number of years each asset type registered positive and negative returns; this calculation provides a sense of the challenges facing those who might think that timing the ups and downs in the returns on various assets is a viable investment strategy.

The data in Table 2 show that the returns on stocks, gold and coins were the most volatile, while, not surprisingly, those on Treasury bills were the least volatile.

Table 2. Investment Returns, Risk and Timing

A Long Term View: 47 Years, 1979-2025

	Average Annual % Return	Years Pos	Years Neg	Best Year % Return	Worst Year % Return	Standard Deviation
Gold	7.5	28	19	100.2	-28.9	15.6
Stocks	13.2	39	8	36.8	-37.3	12.6
3 Month T-bill	4.2	47	0	14.3	0.02	2.9
Treasury Bond	6.7	37	10	34.8	-17.7	7.9
Coins (all types MS65)	9.0	29	18	198.8	-40.6	17.0
Coins (gold type- MS63-65)	7.8	30	17	198.8	-42.7	16.1

Source: R L Associates, Penn State University





Market Timing

Over the last 47 years, the returns on stocks were positive in 39 years; however, the -37.3% for 2008 (Russell 3000), amidst the Great Recession, was the worst over the period. In comparison, annual gold returns were positive in 28 of the past 47 years and rare coin returns (MS63-65) were positive in 30 of the last 47 years. These data are again suggestive of both the difficulties of implementing a successful market timing strategy and of the possible benefits of investing in a diversified portfolio over the longer run.

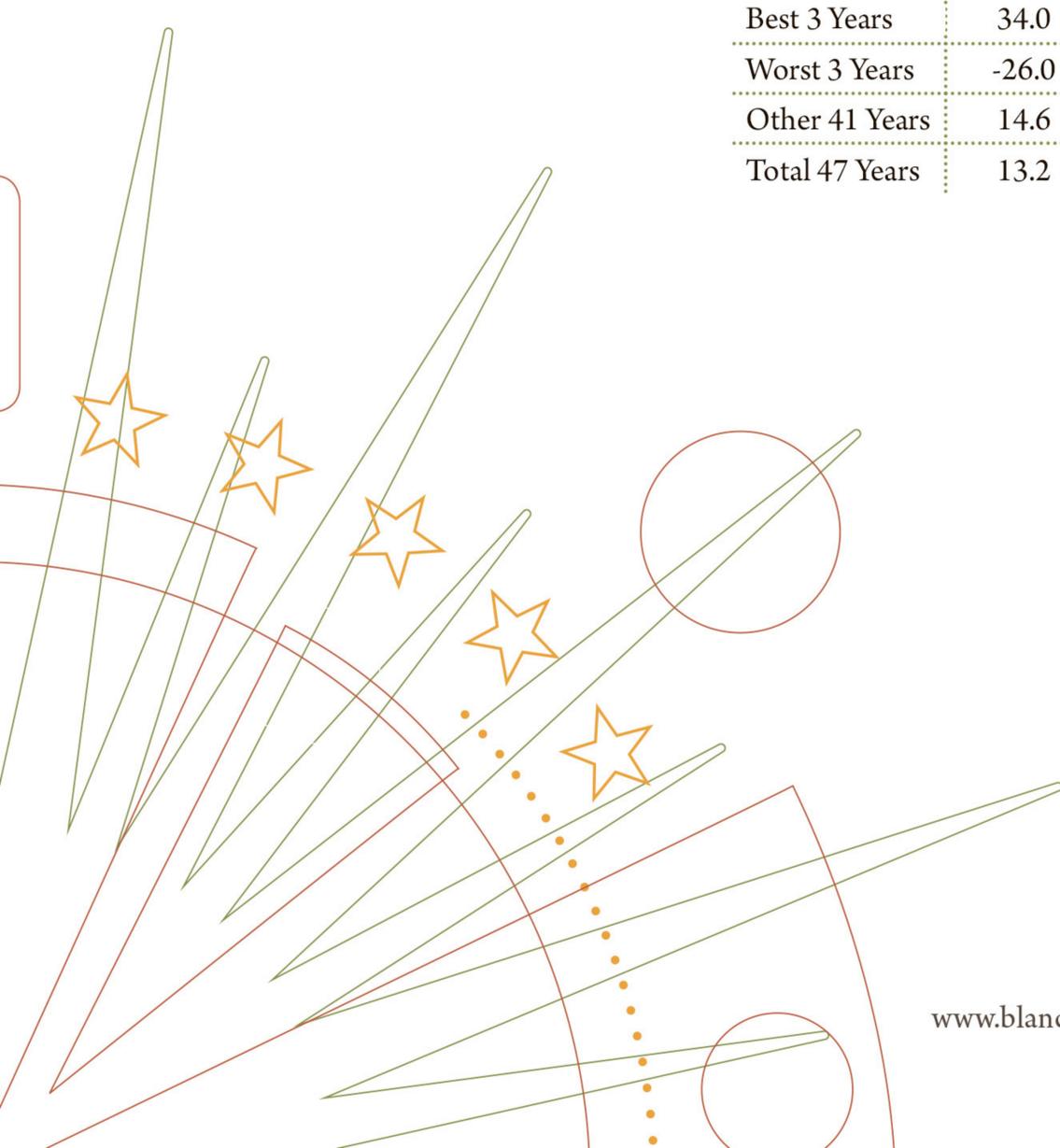
The data in Table 3 provide additional perspective on market timing. The best years for coins and gold were indeed very good, especially for coins, with average annual returns exceeding 100% for the best three years. In contrast, the worst three years for stocks, gold and coins were significantly negative, while the remaining 41-year returns were, on average, still positive for stocks, bonds, gold, and coins, even if adjusted for 3.4% inflation, on average, in those years.

Table 3. Market Timing

1979–2025, Average Rate of Return

	Stocks	Treasury Bonds	Coins MS65	Coins MS63-65	Gold Bullion
Best 3 Years	34.0	29.5	107.4	101.3	66.2
Worst 3 Years	-26.0	-11.8	-27.9	-34.7	-27.1
Other 41 Years	14.6	6.4	4.5	4.0	5.8
Total 47 Years	13.2	6.7	9.0	7.8	7.5

Source: R L Associates, Penn State University





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Too Risky?

Taken together, these data suggest that yearly returns on individual asset classes vary quite a lot over time. Is this sufficient to conclude that asset classes with large standard deviations and a non-trivial number of low or negative return years are “too risky” to be included in a typical investor’s portfolio? The simple answer, of course, is “no.”

The data presented so far show the performance of each asset in isolation from other assets and from the economic environment, particularly the rate of inflation.





The Economic Environment

Table 4 shows the correlation of asset returns with inflation over the period 1979-2025. The table clearly shows that gold is a better hedge against inflation than stocks and much better than Treasury bonds. But rare coins are an even better hedge against inflation than gold and, thus, much better than stocks and Treasury bonds. Thus, the contention that gold is a better hedge against inflation than, say, rare coins, is not supported by the data.

Looking ahead, with real interest rates in the US and across the globe still close to or below zero, and likely to remain so in 2026, the risk of inflation is on the horizon. More specifically, with the Federal Reserve, in effect, moving the inflation goalpost from 2% toward 3%, the risks going forward are asymmetrical. Given the considerable uncertainty about timing and duration, the longer-term relationships embedded in Table 4 are relevant for those with longer term investment horizons.

Table 4. Correlation with Inflation 1979-2025

A Long Term View

Stocks	.09
Treasury Bonds	-.17
Gold	.17
Coins	.57

NOTE: +1.00 is a "perfect" correlation, meaning moves exactly in tandem.
-1.00 is a "perfect negative" correlation, meaning moves exactly opposite.
To hedge against inflation, highest positive correlation best.

Source: R L Associates, Penn State University





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Rare Coins and Gold: Hedging against stock market fluctuations?

- Risk averse investors typically aim to arrange their portfolios in a manner that reduces volatility without giving up overall return. The volatility of the return on an asset relative to the volatility of the stock market is captured by the beta coefficient; if, for example, when the stock market is down 5%, the return on a particular asset is typically down 10%, the correlation is 1.0 but the beta is 2.0. In this case, the asset fluctuates more than the stock market and thus can increase the volatility of the return on a portfolio containing both stocks and such an asset. Conversely, the lower the beta, say 0.5 (return down only 2.5%), the more effective the particular asset will be in hedging, that is, improving a portfolio's overall performance--reducing volatility, ideally without sacrificing much return.
- Coins and gold both have low betas. Accordingly, over the turbulent 1987-2025 period, a stern test, covering the 1987 and 1989 "crashes," the dot-com collapse, 9/11 and the subsequent recession, the 2008 financial crisis, and the Covid-19 induced economic collapse, the volatility of the returns on rare coins and gold relative to stock market returns, was relatively low. At the same time, the 4.1% average annual return on rare coins, and 7.4% return on gold, means that both would have reduced the volatility of typical portfolios without sacrificing overall return. With the array of concerns about global growth, political instability, and inflationary forces, the low betas also imply coins and gold might well outperform equities, as was the case in 2022-23, going forward.





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Summary of Findings

- 1.** Over the last 47 years, gold, high quality coins and stocks had the highest average annual returns.
- 2.** At the same time, the annual returns on stocks, gold, and coins were the most volatile.
- 3.** Taken together, these findings suggest that holders of stocks and coins were “rewarded” for bearing the extra risk thought to be associated with larger fluctuations in annual returns.
- 4.** The correlation of the return on coins with inflation over the last 47 years is well above all other assets considered, and more than triple that of gold; thus, the data support the contention that rare coins are a better hedge against inflation than gold. More generally, sample portfolios containing stocks, Treasury bills and bonds, and a modest proportion of rare coins, typically perform somewhat better than those without coins or those with only a modest proportion of gold, over the past three to four decades and for various sub-periods. These findings also imply that when inflation reappears and or persists, as it did in 2021-23, the salutary response of coin prices could well continue to be quicker and larger than the returns on most other assets.
- 5.** The results continue to suggest that over the longer run including rare U.S. coins within an existing portfolio could improve investment performance. This is especially noteworthy given the balance of risks confronting global currency, bond and equity markets in 2026 and beyond.

