



# Market Cap to GDP: An Updated Look at the Buffett Valuation Indicator

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of Advisor Perspectives

**Note:** This update incorporates the Q3 GDP Advance Estimate. **Please note that this update follows GDP releases, which always lag.**

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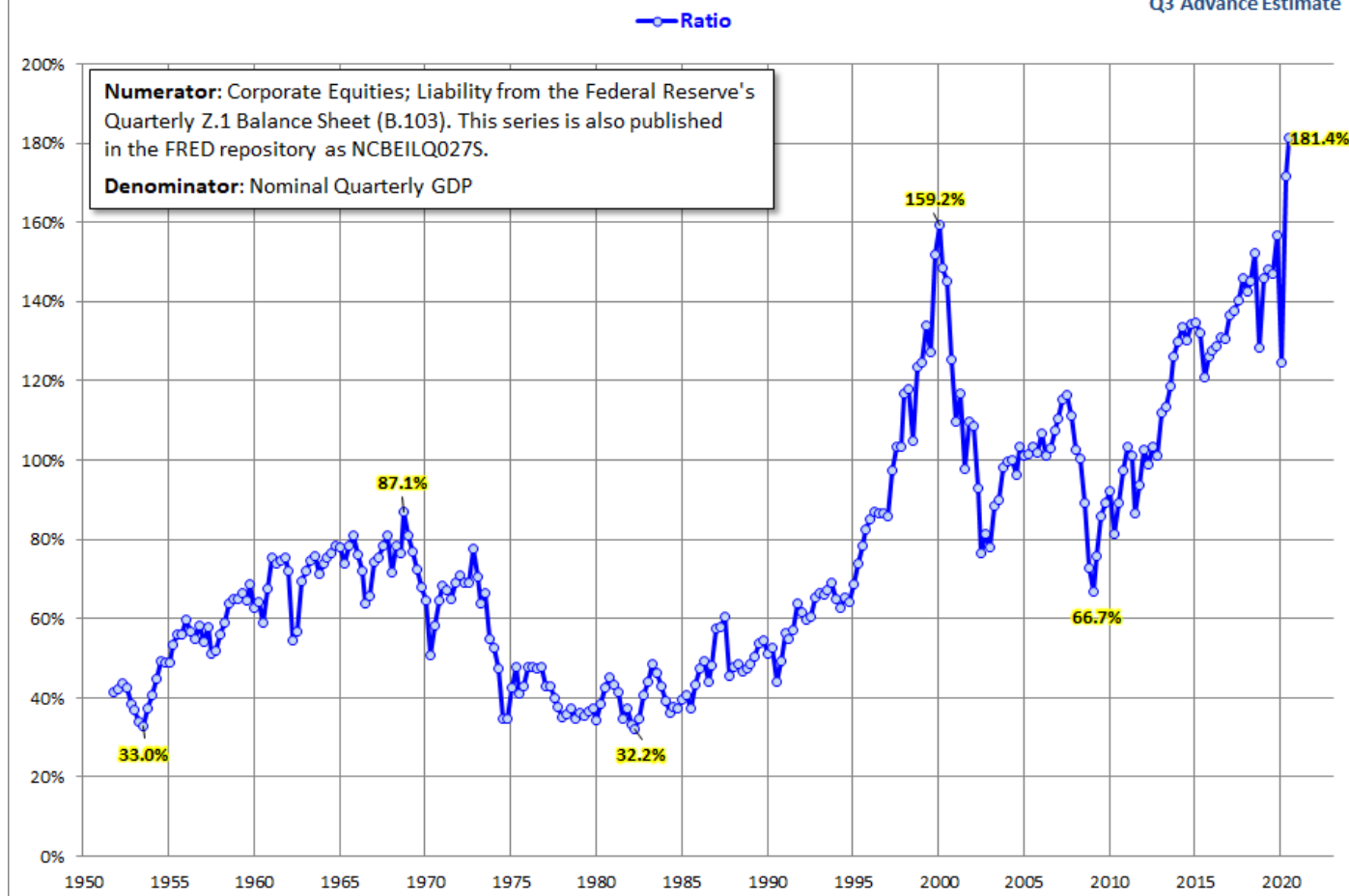
Market Cap to GDP is a long-term valuation indicator that has become popular in recent years, thanks to Warren Buffett. Back in 2001, he remarked in a *Fortune Magazine* interview that "it is probably the best single measure of where valuations stand at any given moment."

The four valuation indicators we track in our monthly valuation overview offer a long-term perspective of well over a century. The raw data for the "Buffett indicator" only goes back as far as the middle of the 20th century. Quarterly GDP dates from 1947, and the Fed's balance sheet has quarterly updates beginning in Q4 1951. With an acknowledgment of this abbreviated timeframe, let's take a look at the plain vanilla quarterly ratio with no effort to interpolate monthly data.

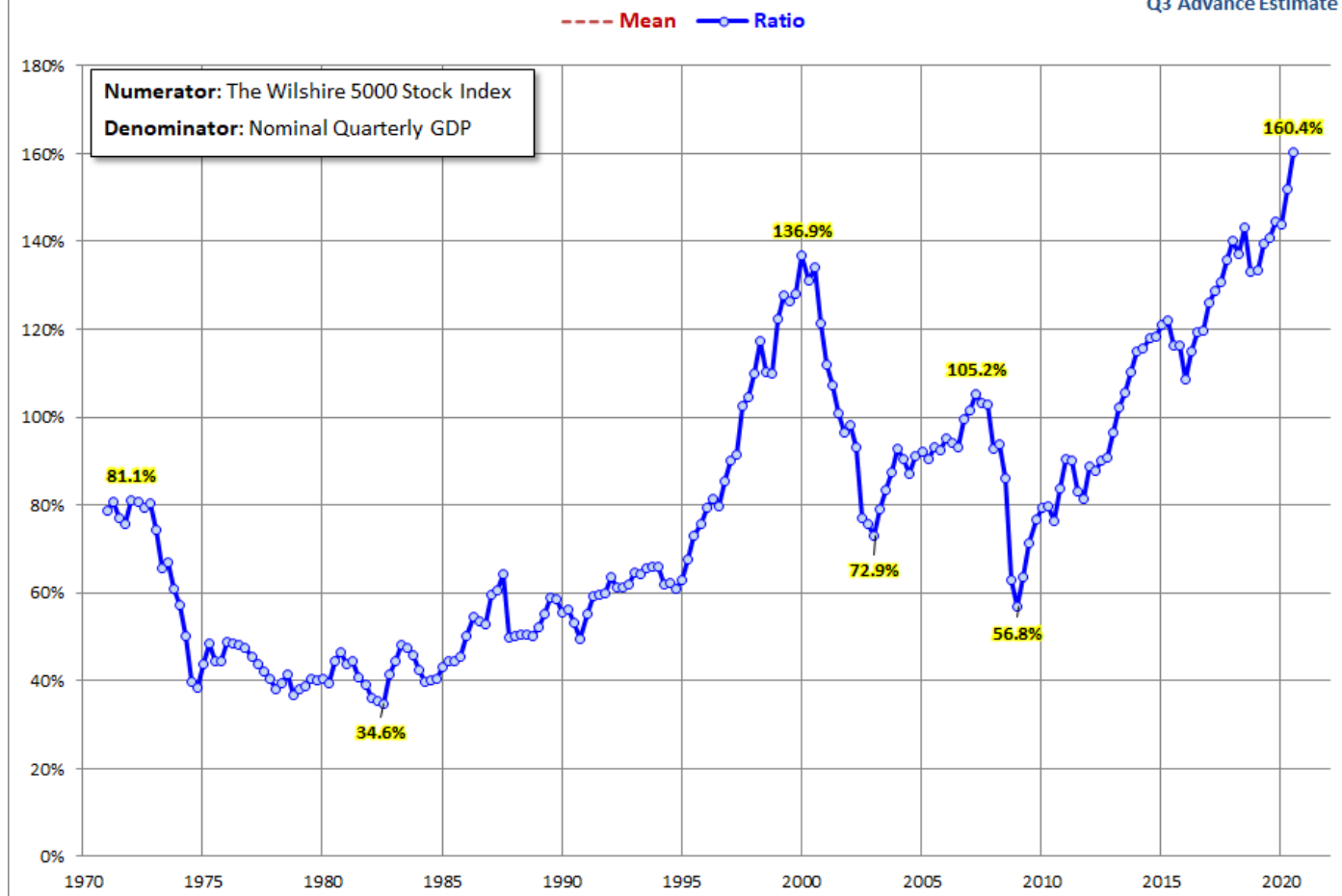
The strange numerator in the chart title, NCBEILQ027S, is the FRED designation for Line 62 in the F.103 balance sheet of Table S.5.q of the 'Integrated Macroeconomic Accounts for the United States' (Market Value of Equities Outstanding), available on the Federal Reserve website. Incidentally, the numerator is the same series used for a simple calculation of the Q Ratio valuation indicator.

## The Latest Data

With the Q3 GDP Advance Estimate, we now have an updated look at the popular "Buffett Indicator" -- the ratio of corporate equities to GDP. The current reading is 181.4%, up from 171.7% the previous quarter.



Here is a more transparent alternate snapshot over a shorter timeframe using the Wilshire 5000 Full Cap Price Index divided by GDP. We've used the St. Louis Federal Reserve's FRED repository as the source for the stock index numerator (WILL5000PRFC). The Wilshire Index is a more intuitive broad metric of the market than the Fed's rather esoteric "Nonfinancial corporate business; corporate equities; liability, Level". We've noticed some folks use lagging GDP figures to estimate the current Buffet indicator figures - in other words, people have used the current numerator and the lagging GDP figure in the calculation, which is not accurate. We have chosen to use data from the same time period (currently Q3 2020) for all series.

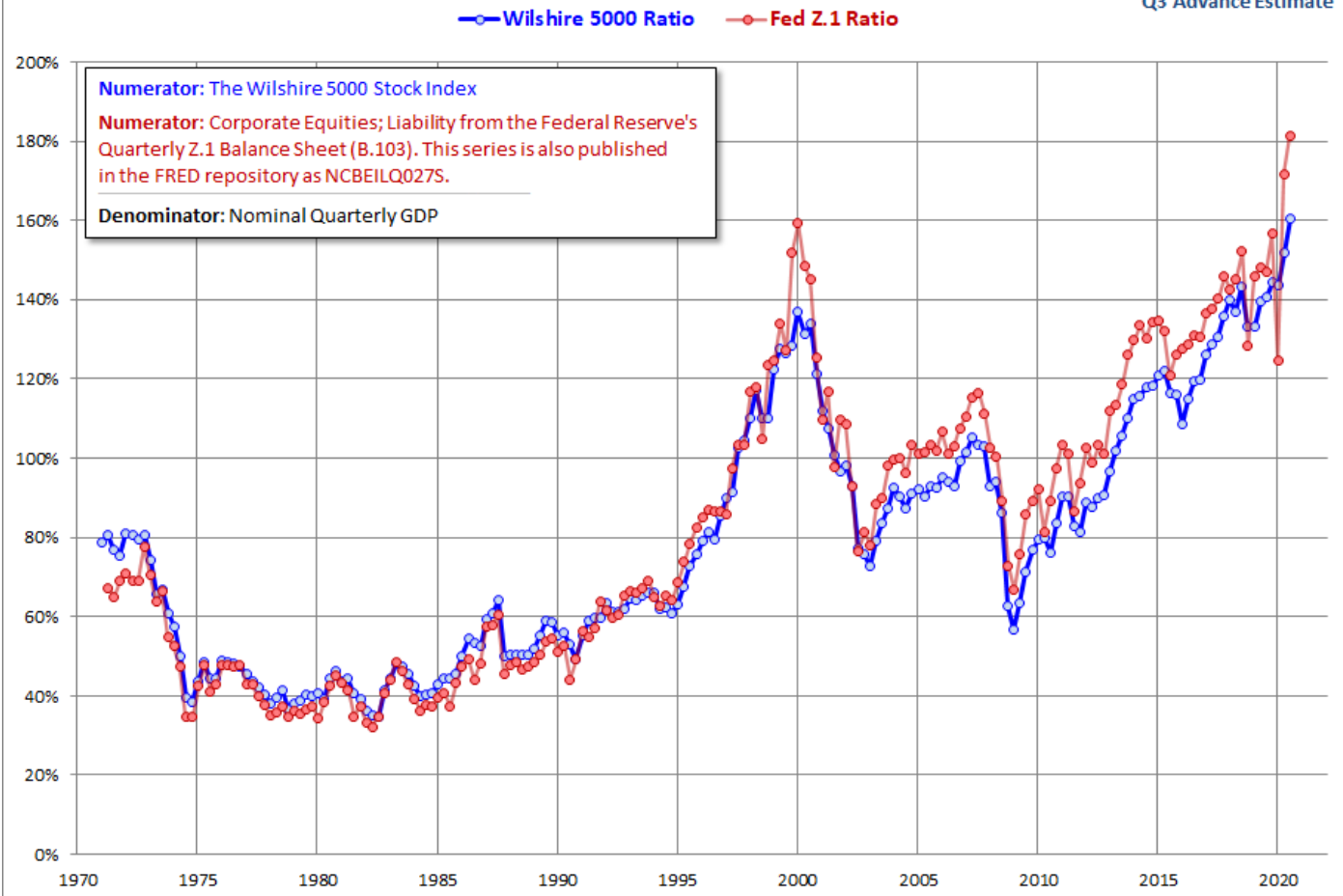


*A quick technical note:* To match the quarterly intervals of GDP, for the Wilshire data we've used the quarterly average of daily closes rather than quarterly closes (slightly smoothing the volatility) when the latest data is not yet available.

## How Well do the Two Views Match?

The first chart above uses Fed data back to the middle of the last century for the numerator, the second uses the Wilshire 5000, the data for which only goes back to 1971. The Wilshire is the more familiar numerator, but the Fed data gives us a longer timeframe. And those early decades, when the ratio was substantially lower, have definitely impacted the trend.

To illustrate the point, here is an overlay of the two versions over the same timeframe. The one with the Fed numerator has a tad more upside volatility, but they're singing pretty much in harmony.

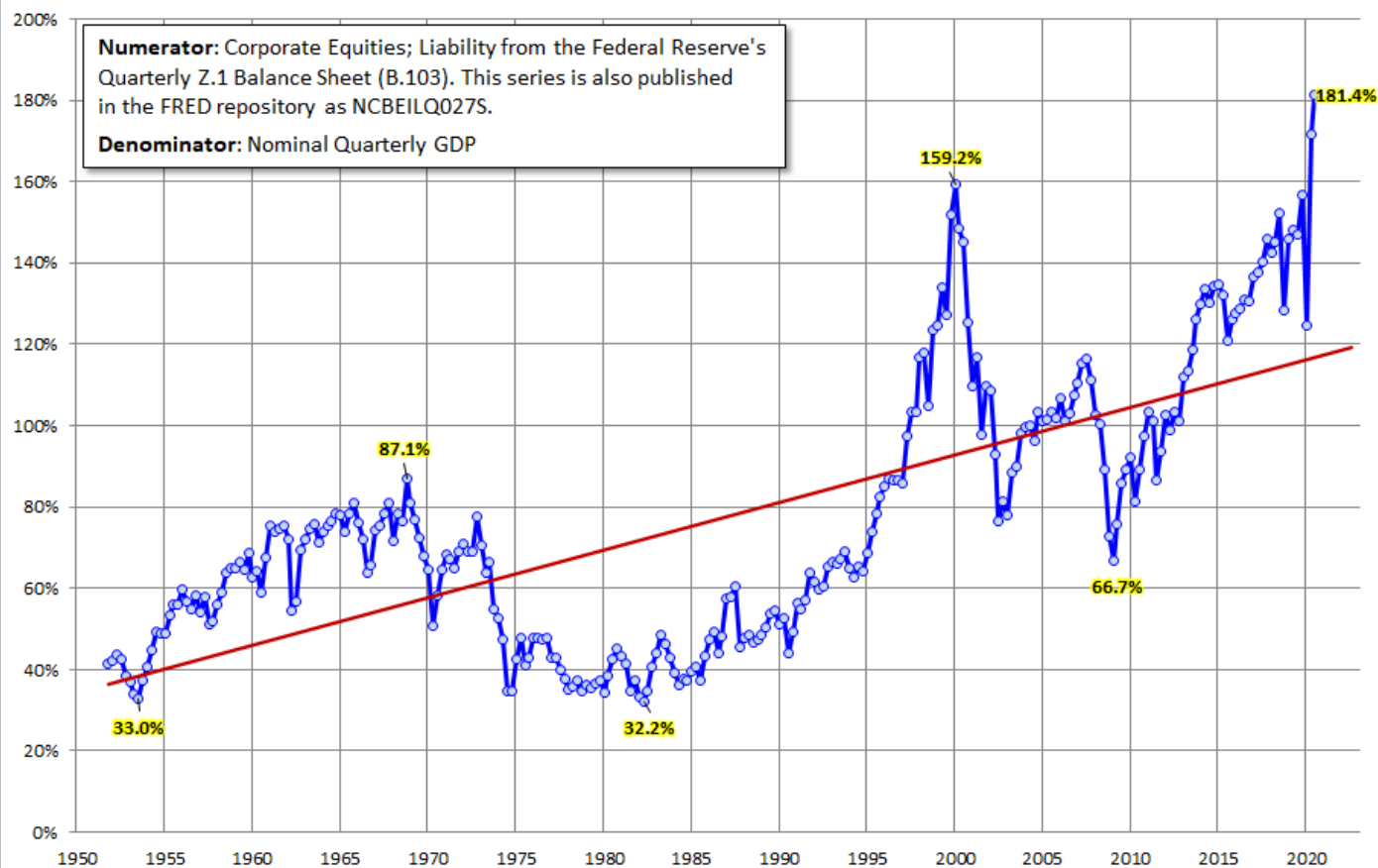


## Detrending the Data

A conspicuous feature of the Buffett indicator is the upward trend over the decades since the start of the data series. For a better sense of valuation over time, let's detrend the data by letting Excel draw a regression through the series and eliminating the upward trend. First, let's draw the regression through the series.

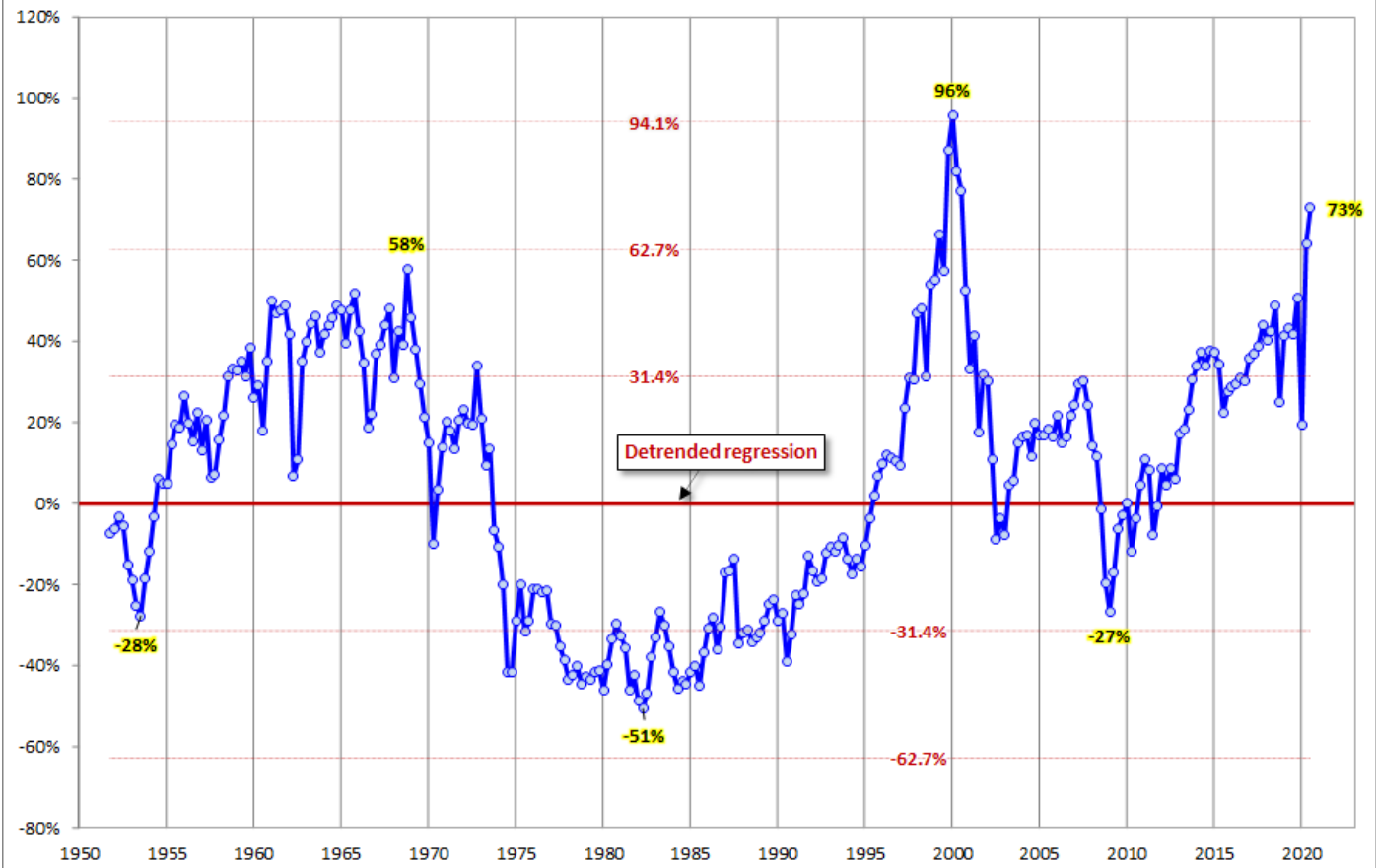
Log Scale

Ratio Exponential Regression



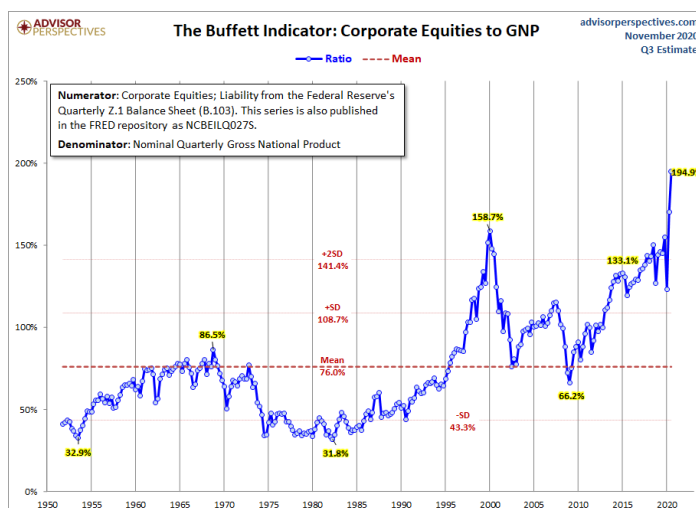
Now let's detrend and add standard deviations.

## The Buffett Indicator: Corporate Equities to GDP Detrended with Standard Deviations



### Wouldn't GNP Give a More Accurate Picture?

That is another question we've been asked many times. Here is the same calculation with Gross National Product as the denominator; the two versions differ very little from their Gross Domestic Product counterparts.



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Here is an overlay of the two GNP versions -- again, very similar.

[Click to View](#)

### What Do These Charts Tell Us?

A question we're repeatedly asked is why we don't include the "Buffett Indicator" in the overlay of the four valuation indicators updated monthly. We've not included it for various reasons: The timeframe is so much shorter, the overlapping timeframe tells the same story, and the four-version overlay is about as visually "busy" as we're comfortable graphing.

One final comment: While this indicator is a general gauge of market valuation, it's not useful for short-term market timing, as this overlay with the S&P 500 makes clear.

