

# MERK® | RESEARCH

## U.S. Business Cycle Report

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## Quote

Quotes or book excerpts that I find particularly insightful...

"We had a huge problem we had to deal with to prevent a run on the money market funds... the average American thought the money that they put into money market funds was money good, equivalent to a savings deposit. But the fact was those funds provided short term commercial paper funding for a big part of corporate America, to fund their basic operations. Plain as day I saw this so quickly moving from Wall Street to Main Street. If big companies can't fund their short-term operations, then the smaller companies who are their suppliers have to cut back and you get this vicious cycle as this thing ripples through middle America...

Looking back one of the things I am proudest of is that we got Congress to do some pretty extraordinary things before the system collapsed... The American people hated TARP. We don't like bailouts in this country, if you take risk and make money that's good, but if you take risk and then the government has to save you that's not good... It is hard to save the banks and punish them at the same time, and so I tilted towards stability because I didn't want the system to collapse...

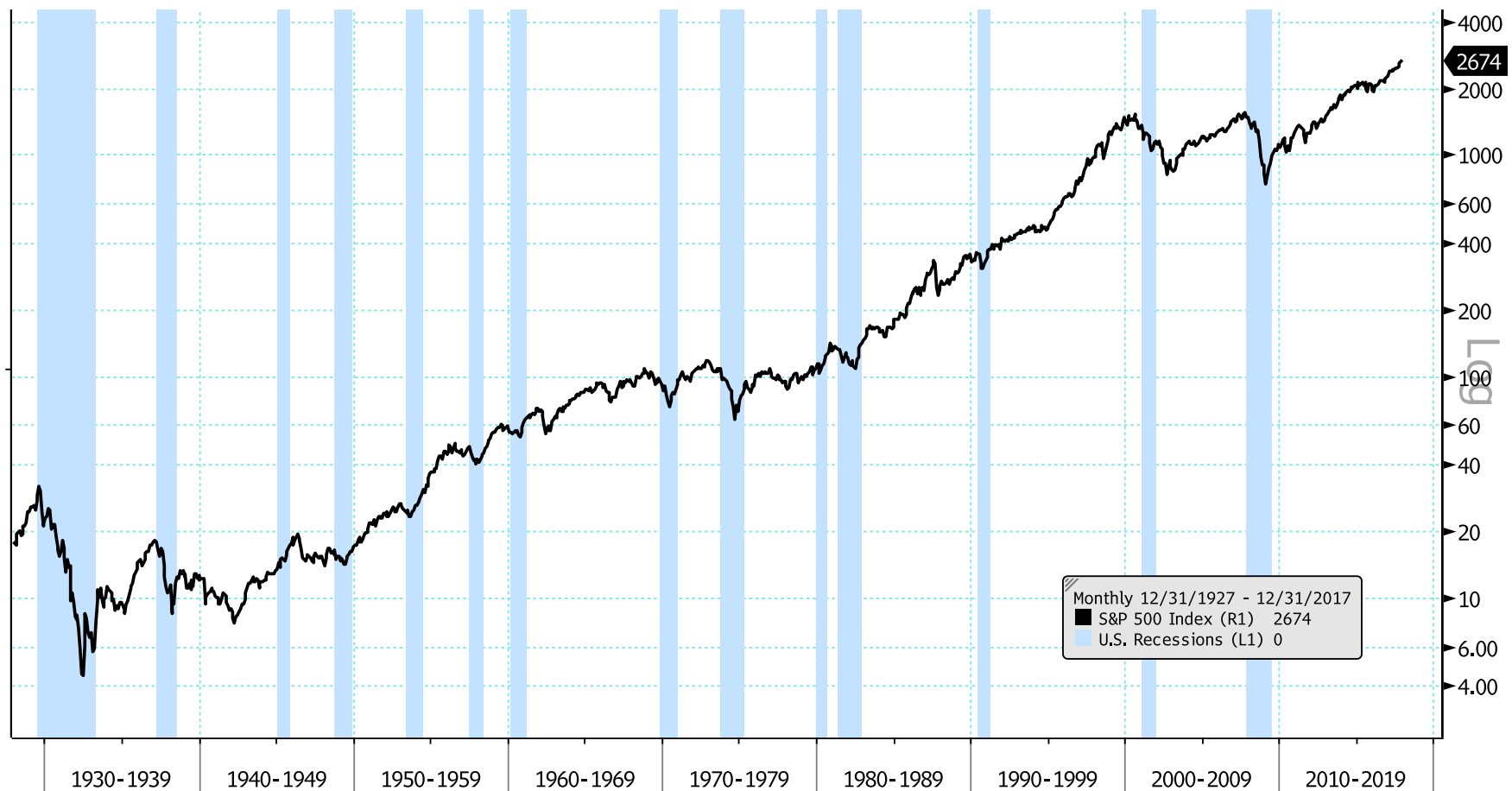
Looking back at criticisms and things I could have done better, the first thing that I could have done better was that I was never able to convince the American people that TARP was not for the banks, it was for them, it was to save Main Street, it was to save our economy from a catastrophe. I was genuinely worried that there were going to be food lines and job lines reminiscent and worse of the Great Depression. The specter of that on my watch was horrifying. The worst case is that I was Andrew Mellon, Treasury Secretary during the Great Depression, and the best reasonable case was that I will be remembered as "Mr. Bailout," even though the measures we took prevented a far worse disaster...

Another financial crisis is a certainty. As long as we have markets and banks, no matter what the regulatory system is there will be flawed government policies, those policies will create bubbles, they will manifest themselves in the financial system, no matter how it's structured or how it's regulated. The key thing is to have the tools and the political will to act forcefully to limit the crisis... I tend to look forward... the whole reason I'm doing this [documentary] is not to look back, but because I think it is important that there be a historical record for those that come after me."

-Hank Paulson, former Treasury Secretary in *Hank: Five Years from the Brink* (2013 documentary film)

## Why is the Business Cycle Important?

S&P 500 (log scale) and official National Bureau of Economic Research (NBER) U.S. Recessions

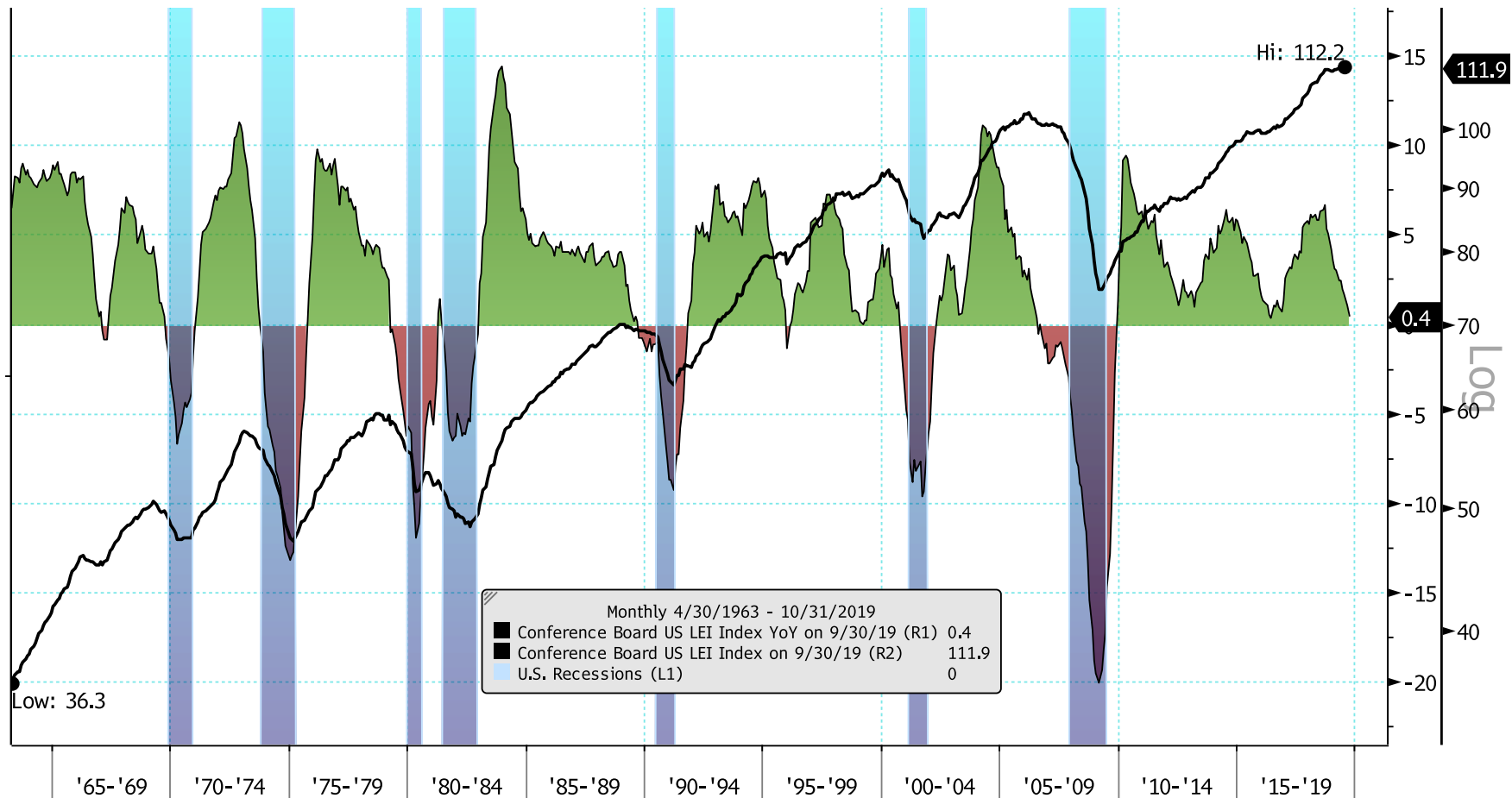


Source: © Merk Investments, Bloomberg

*Analysis: Over the 90 years between 1927 and 2017, the average S&P 500 monthly return during expansions was +0.89% (889 months), compared to an average S&P 500 monthly return during recessions of -0.71% (191 months). In terms of proportions of time: expansion months account for about 80% and recession months about 20%. The business cycle also has important implications for Fed policy. \*Note that recessions are not announced by the NBER until well after their start dates\**

# U.S. Leading Economic Indicators (LEIs) Index

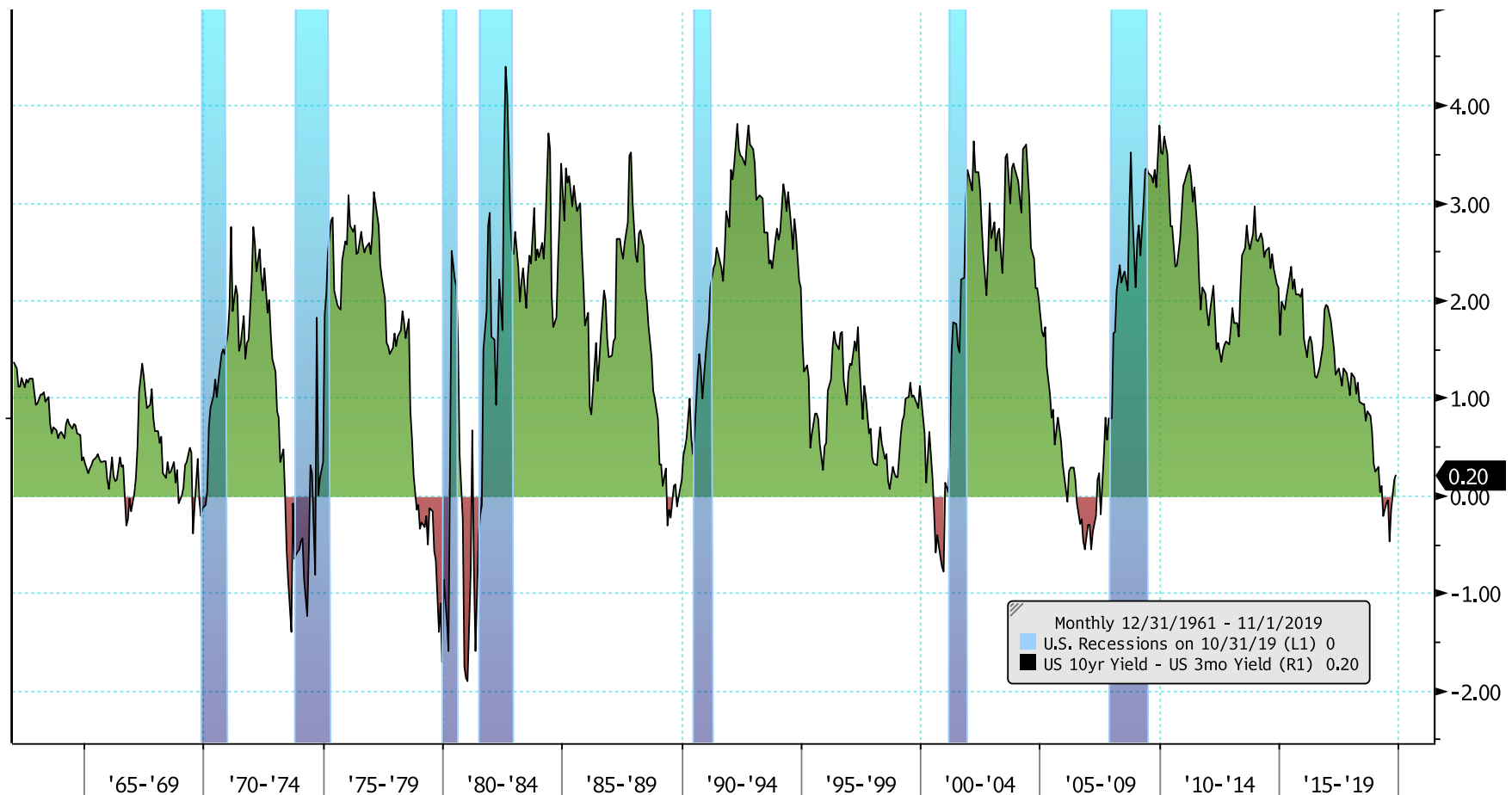
Conference Board's LEI Index and YoY Rate of Change



Source: © Merk Investments, Bloomberg

*Analysis: Since last month's report the LEI YoY rate of change fell to 0.4% and the index level is now slightly below its cycle high. Over the past several months positive momentum has slowed, but given that the YoY rate of change remains positive, history suggests a recession is unlikely to start within the next six months. This picture keeps me generally positive on the outlook for the U.S. economy. Chart Framework: I'd get incrementally negative on the business cycle outlook if the LEI YoY went negative.*

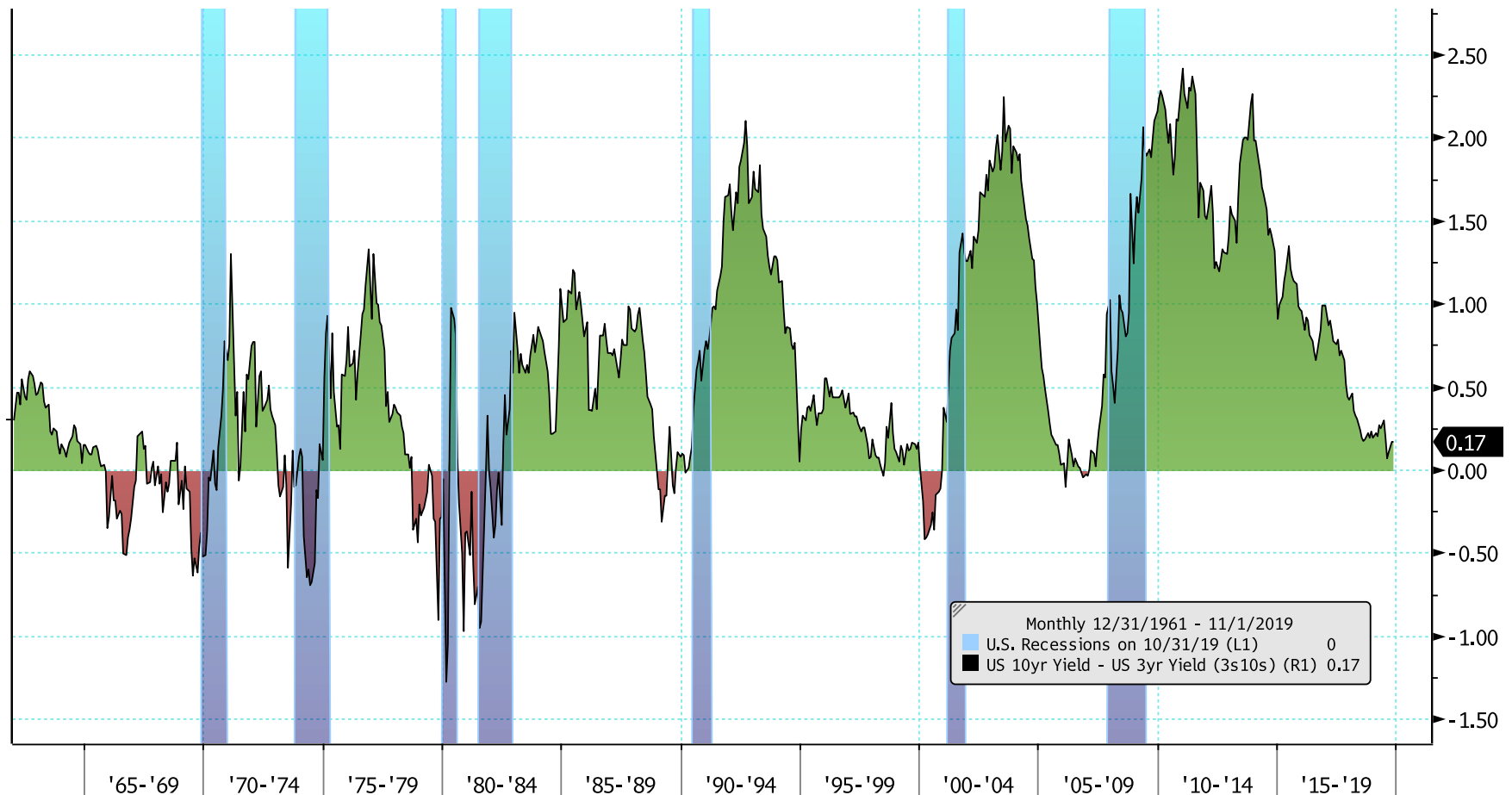
## U.S. Yield Curve Steepness (10yr yield – 3mo yield)



Source: © Merk Investments, Bloomberg

*Analysis: The 10yr-3m yield curve had been inverted (meaning the 3-month yield is higher than the 10-year yield) since May, but recently uninverted and is at 20 bps steep. 10yr-3m inversion has historically been a strong recession indicator (with recessions historically starting 6-18 months after initial inversion). I'm currently still neutral/negative on this picture. Chart Framework: I'd get incrementally positive on this picture if the yield curve uninverted while other macroeconomic data (e.g., U.S. Mfg PMI) also improved. \*It may be worth noting that the 10yr-3yr (shown on the next page) has always inverted prior to recessions and still has not (yet) inverted.*

## U.S. Yield Curve Steepness (10yr yield – 3yr yield)

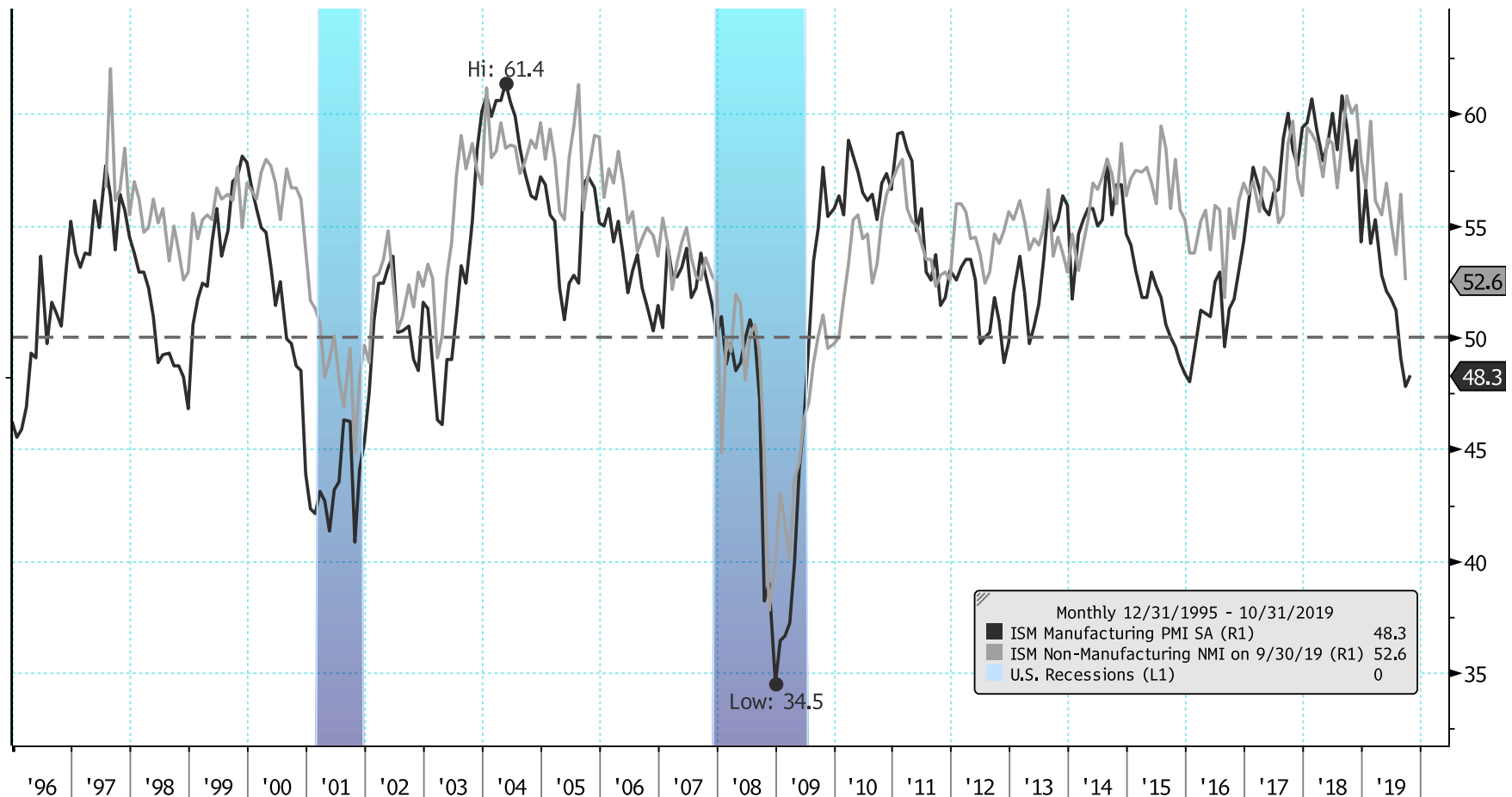


Source: © Merk Investments, Bloomberg

*Analysis: A cross reference to the 10yr-3yr shows a yield curve that has remained positively sloped (meaning the 10yr yield is higher than the 3yr yield). The yield curve is slightly steeper since last month's report, but the bigger picture flattening trend has continued. The 10yr-3yr curve may invert in the coming quarters. Chart Framework: I'd get incrementally negative on the medium-term business cycle outlook if the yield curve inverted (i.e., 3yr yield > 10yr yield).*

## U.S. PMIs

Manufacturing and Non-manufacturing (aka Services) PMIs (Purchasing Managers Index)

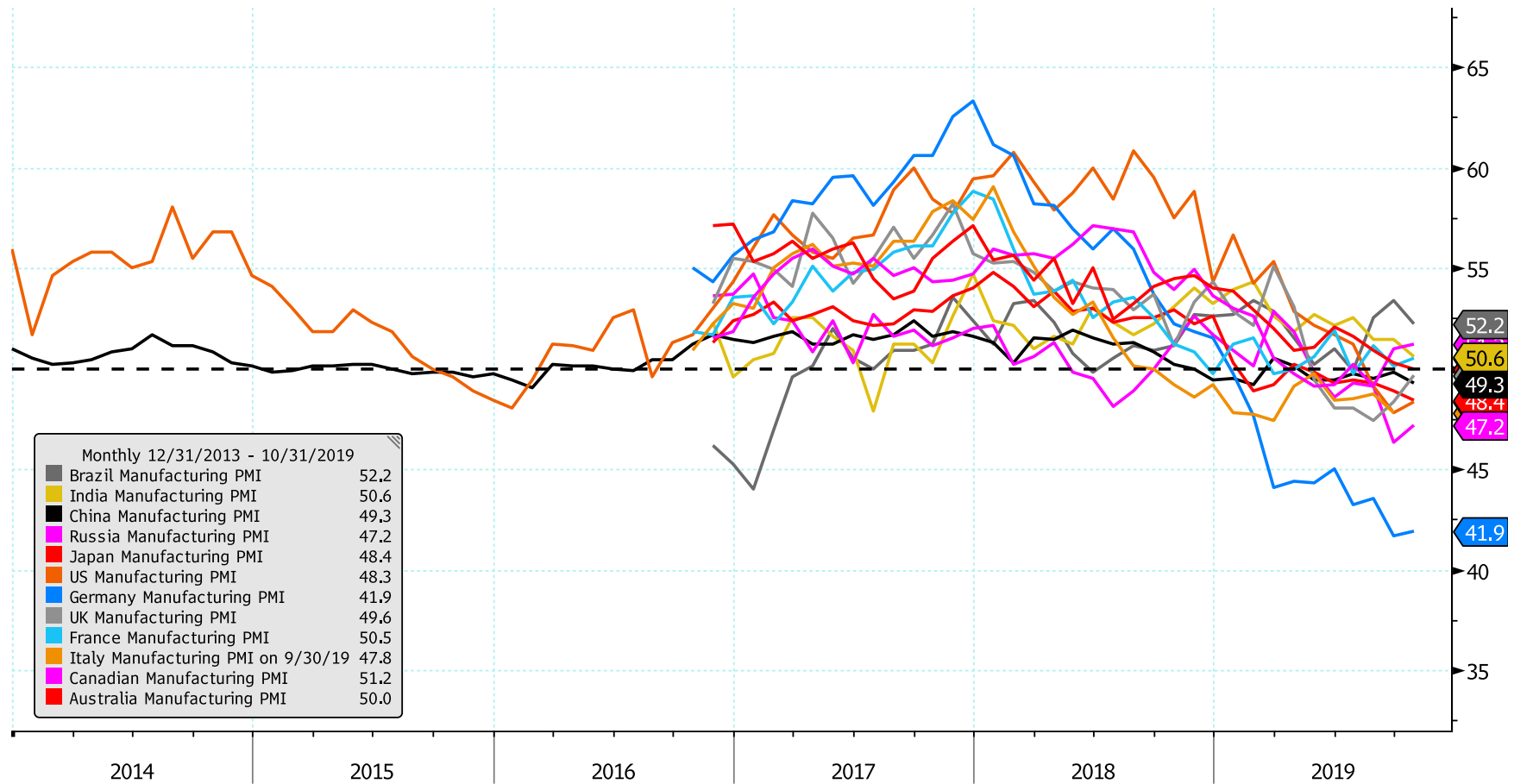


Source: © Merk Investments, Bloomberg

*Analysis: Manufacturing PMI ticked up slightly over the past month, from 47.8 to 48.3, remaining below 50 and suggesting economic contraction. I'm currently negative on this picture. Chart Framework: I'd get incrementally positive on the business cycle outlook if the manufacturing PMI rose above 50.*

## Global Manufacturing PMIs

Largest twelve global economies' Manufacturing PMIs (Purchasing Managers Index)



Source: © Merk Investments, Bloomberg

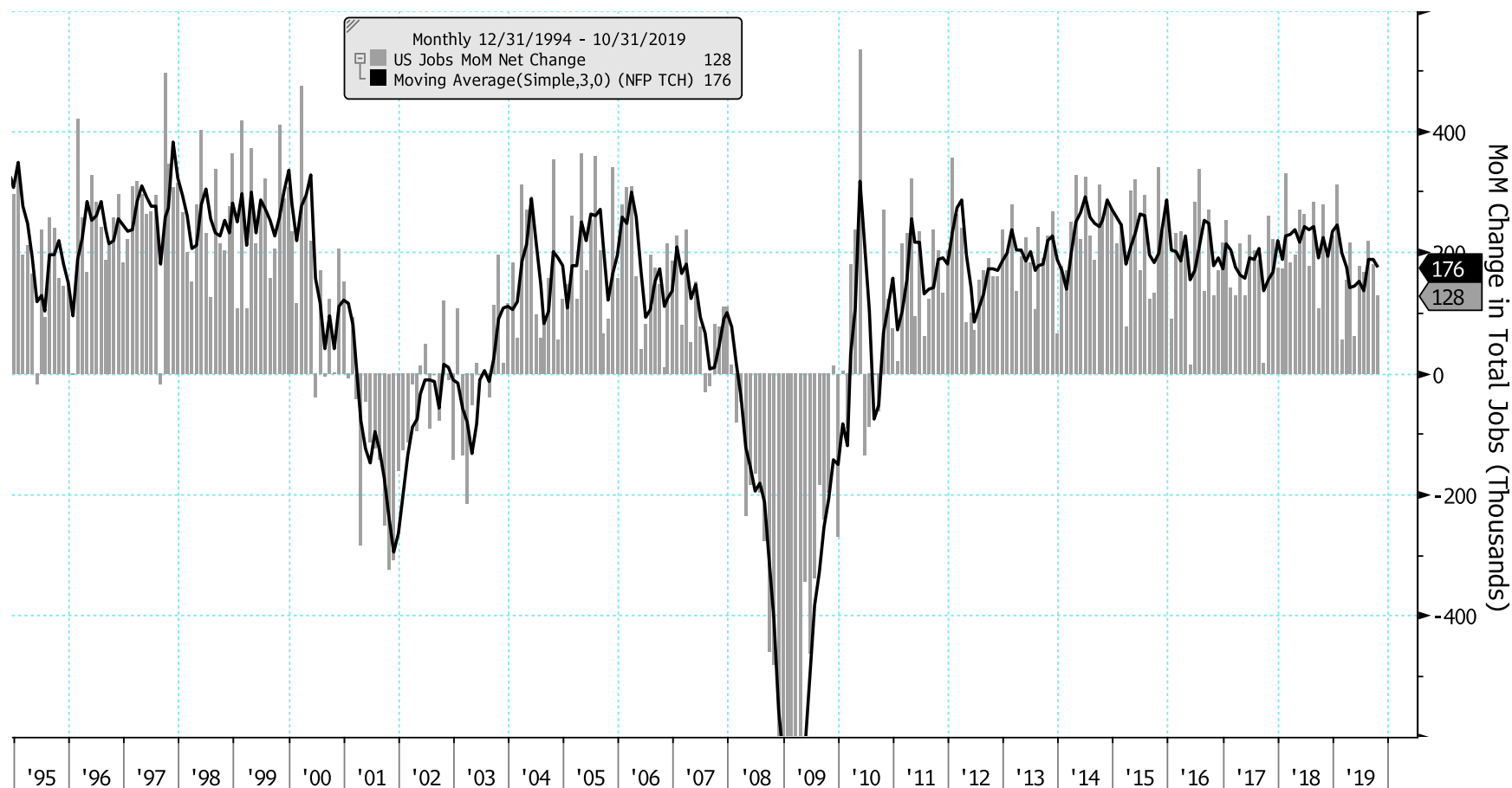
*Analysis: Global economic momentum as measured by manufacturing PMIs was mixed over the past month. Seven out of the twelve readings remain below 50, i.e., in contractionary territory. Given my framework I'm negative on this picture.*

*Chart Framework: I'd get positive on this picture if the majority of Mfg PMIs were above 50.*



## Job Gains

The Net Monthly Change in Non-farm Payrolls (grey) with 3-month Moving Average (black)

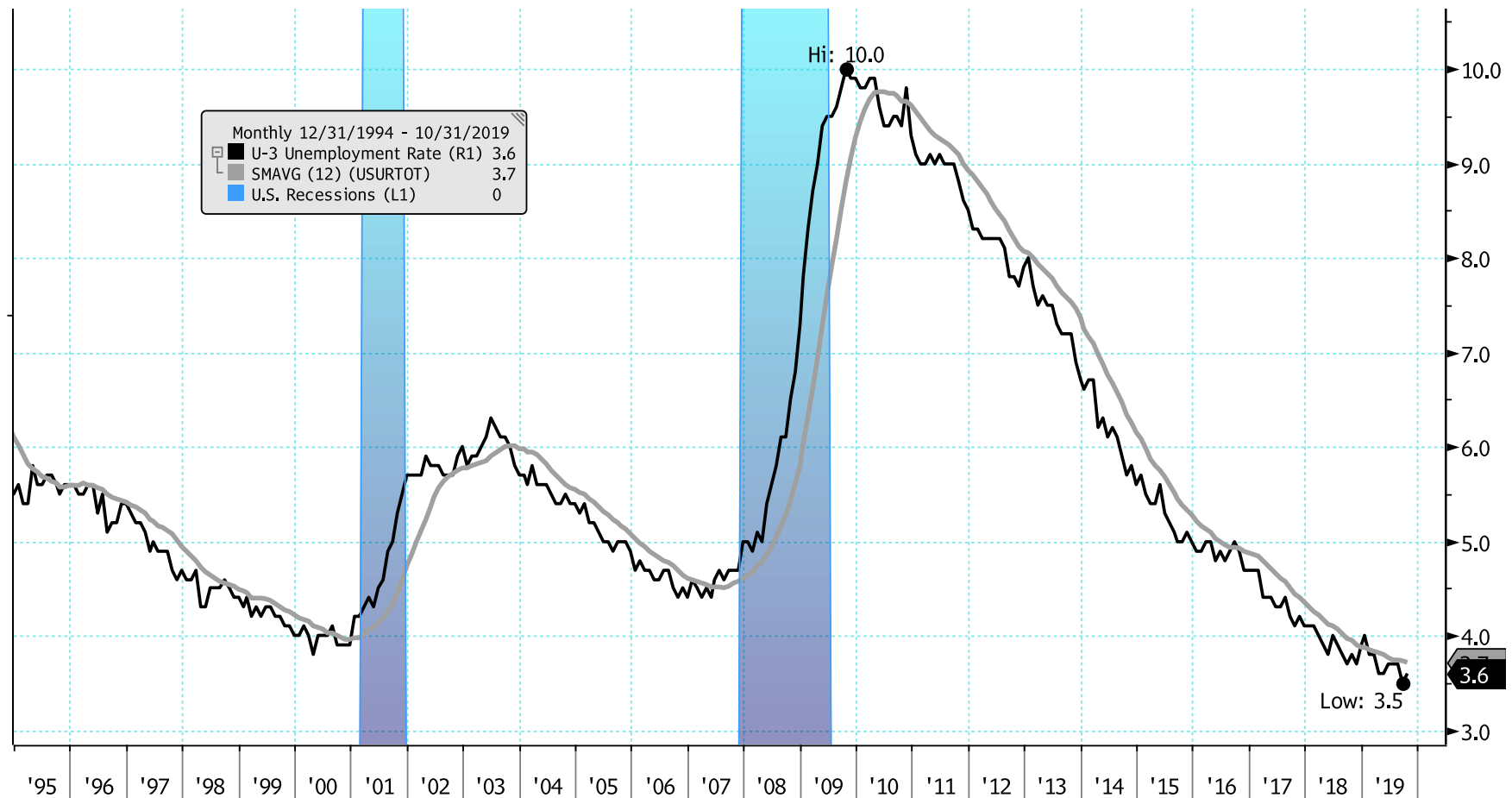


Source: Bloomberg, © Merk Investments LLC

*Analysis: The 3-month moving average of job gains is 176k, still a relatively strong level.  
Framework: I'd get incrementally negative on this picture if the 3-month average for job gains fell below 135k.*

## U.S. Unemployment Momentum

U-3 Rate and U-3 12 month Moving Average

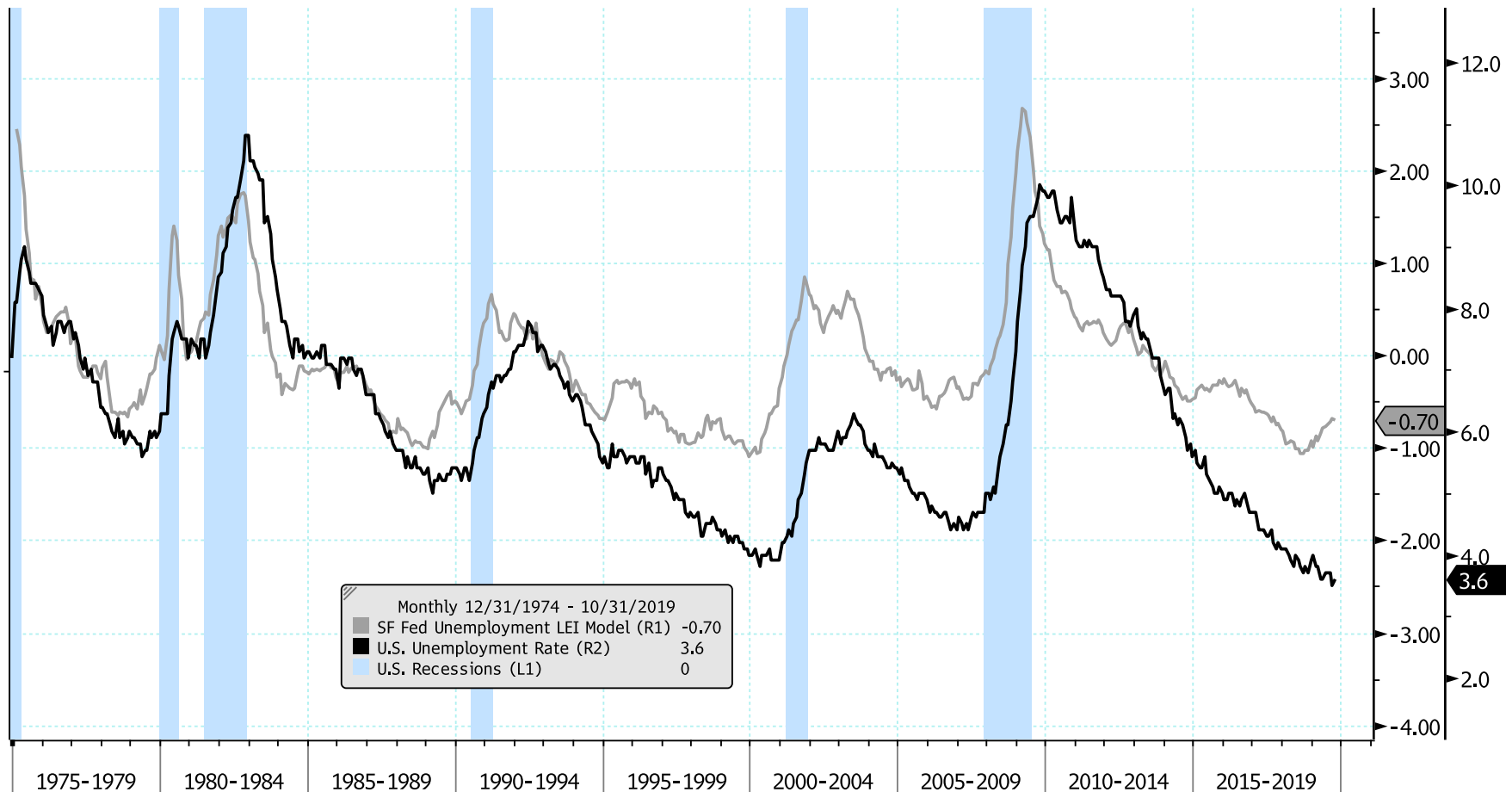


Source: © Merk Investments, Bloomberg

*Analysis: The unemployment rate ticked up to 3.6% but remains below its 12-month moving average (and the labor force participation rate ticked up to a multi-year high— not shown). Chart Framework: I'd get incrementally negative on the business cycle outlook if the unemployment rate moved above its 12m MA while the labor force participation rate trended lower.*

## SF Fed Leading Unemployment Rate (U-3) Model

Replica of San Francisco Fed Model (grey) and U-3 Unemployment Rate (black)



Source: © Merk Investments, Bloomberg

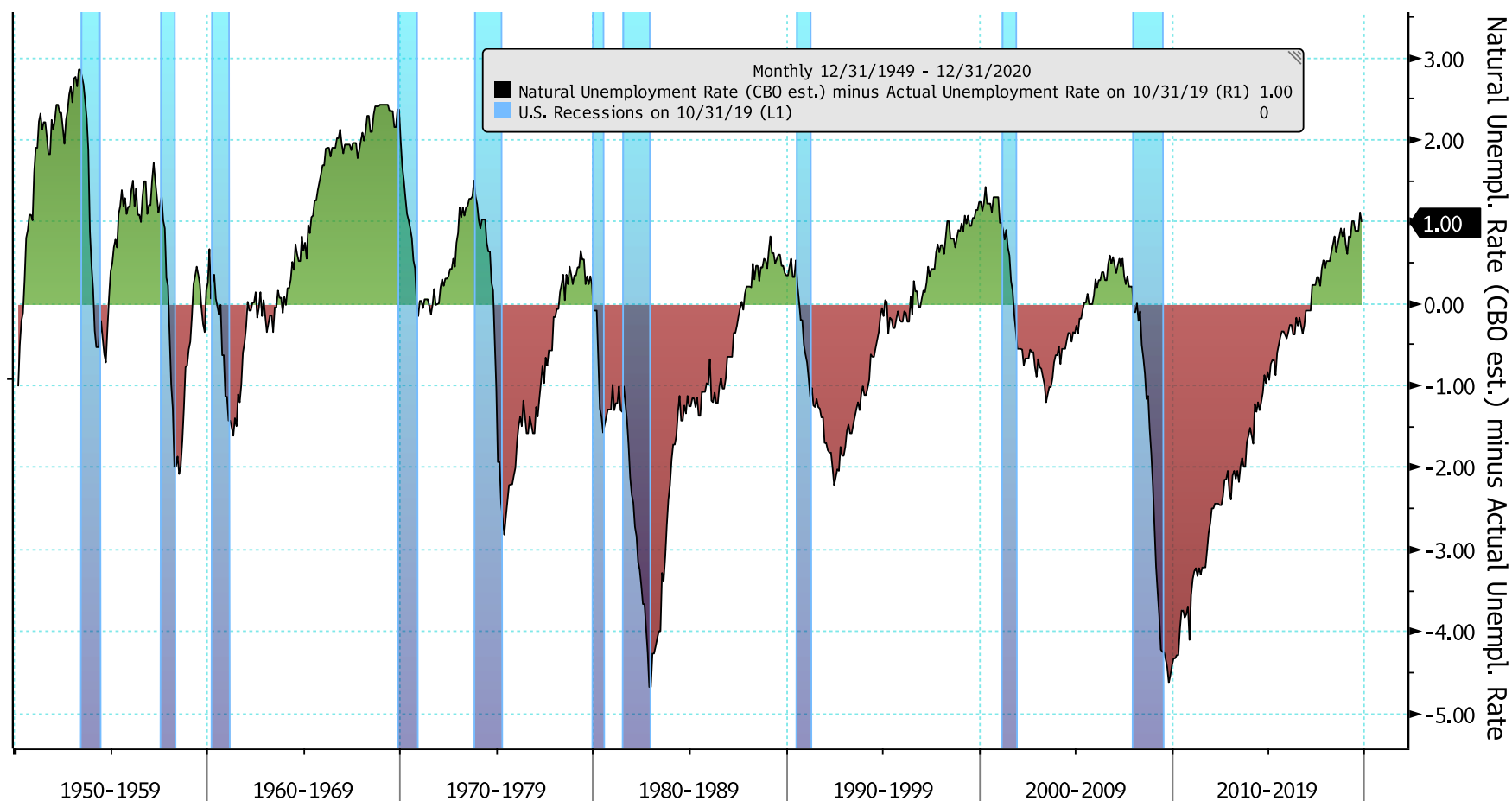
*Analysis: The SF Fed unemployment rate model (grey line) has continued to move higher in recent months, which warrants caution as it might signal that a cyclical turning point in the labor market is coming. Given my chart framework I'm currently negative on this picture. Chart*

*Framework: I'd get incrementally positive on the business cycle outlook if the SF Fed model line started trending lower again on a YoY basis.*

*For reference: [the San Francisco Fed Paper](#)*

## U.S. Labor Market Capacity Utilization

Natural Rate of Unemployment (CBO est.) – Actual Rate of Unemployment

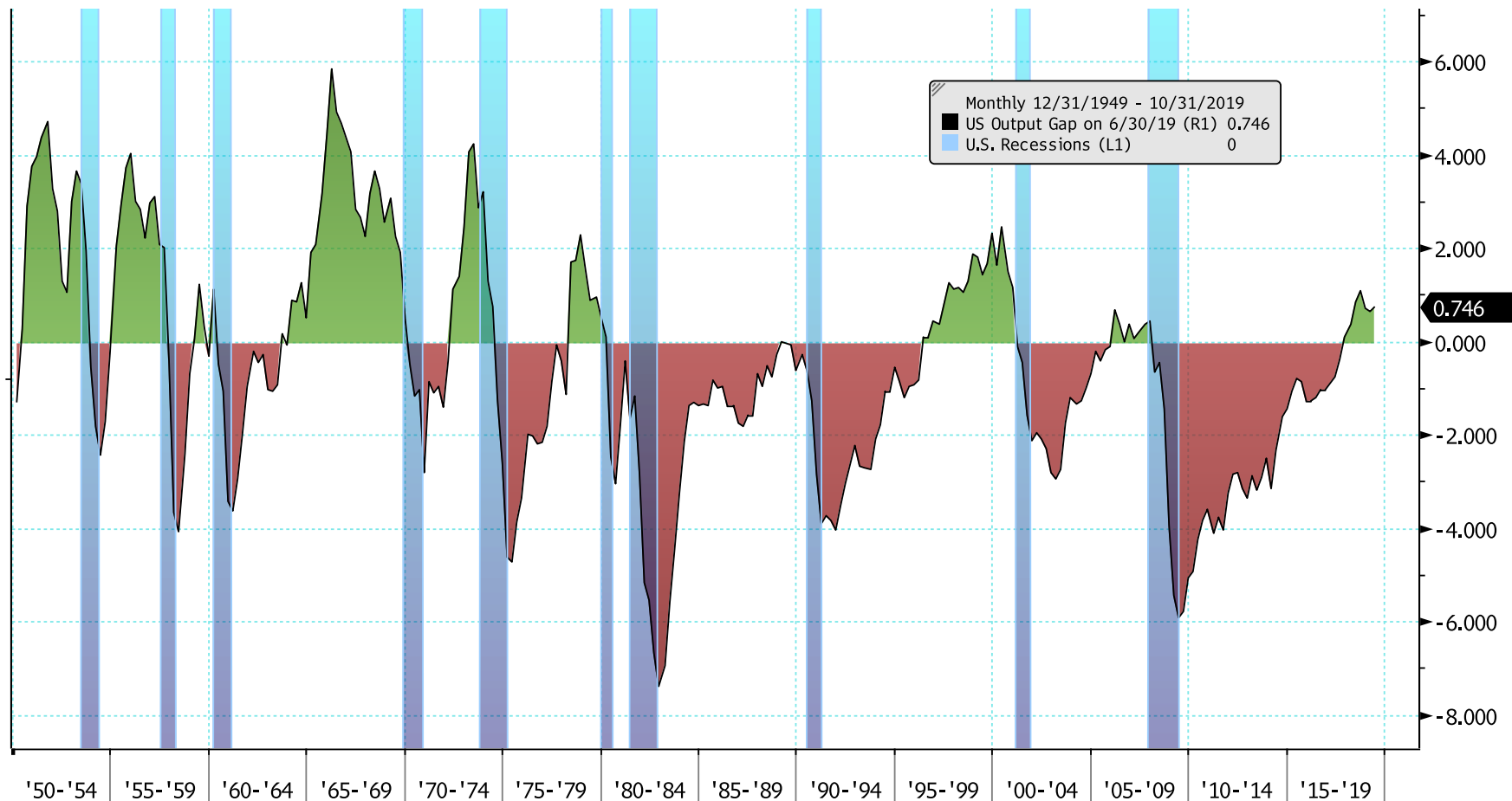


Source: © Merk Investments, Bloomberg

*Analysis: The estimated natural rate of unemployment is higher than the current unemployment rate (4.6% estimate – 3.6% current reading), meaning the U.S. economy is potentially running above capacity, which likely increases the risk of a recession roughly 1-5 years out. It is worth noting that the estimate of the natural rate of unemployment is debated, and some think it is lower than the 4.6% estimated by the CBO. Chart Framework: I'm currently incrementally negative on the business cycle outlook medium/longer term based on this picture, I'd get incrementally positive medium/longer term around -1.00 on the chart, which would likely only be during or after a recession. It's worth noting that despite the current picture above many other metrics seem to indicate that some slack remains in the labor market.*

## U.S. GDP Output Gap

Actual GDP minus Potential GDP (CBO est.)

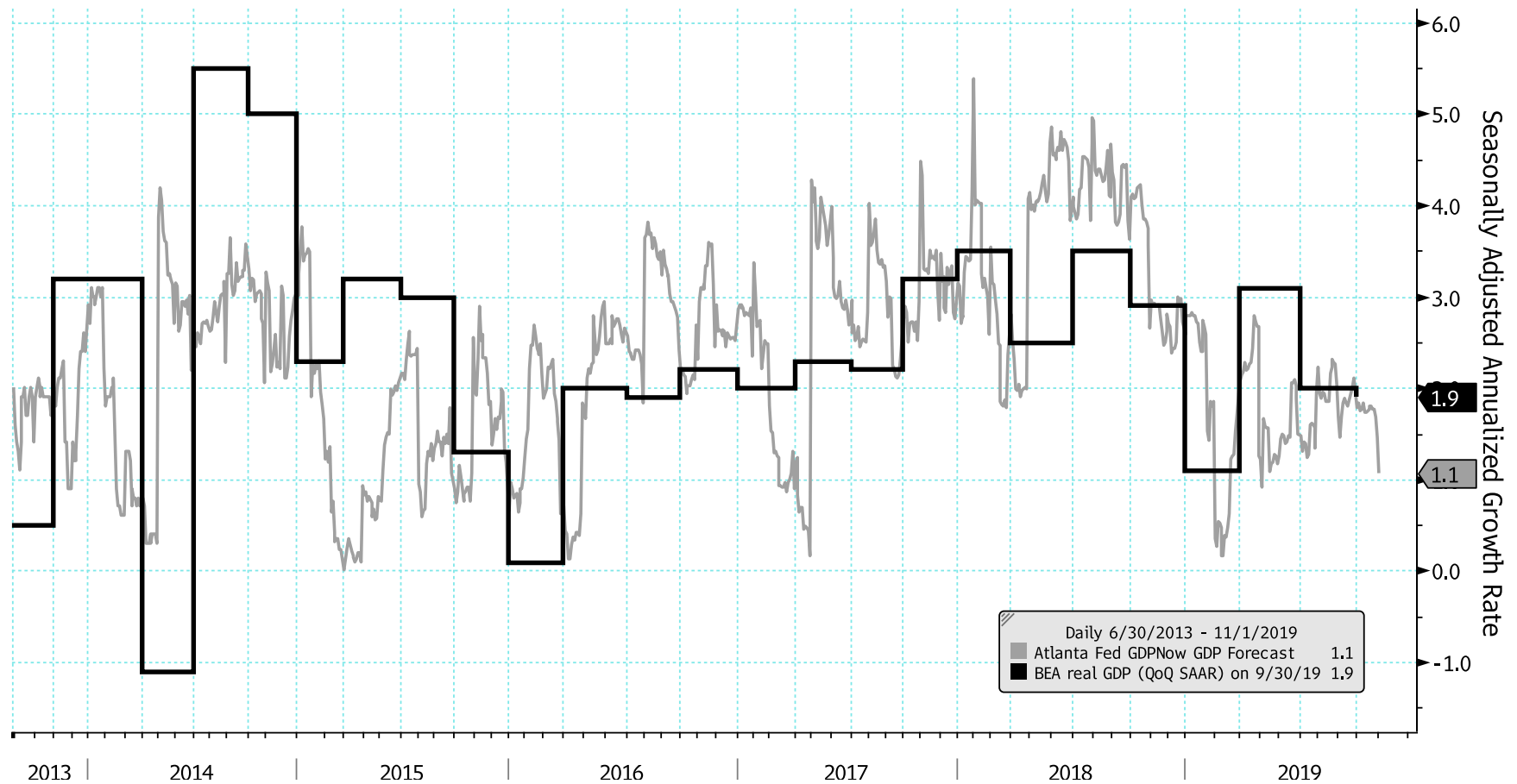


Source: © Merk Investments, Bloomberg

*Analysis: Actual GDP is more than potential GDP (as estimated by the CBO), which suggests the expansion may be in its late stages. As with the unemployment rate on the previous page, there is debate about what potential GDP should be. I'm currently incrementally negative on the business cycle outlook medium/longer term based on this picture. Chart Framework: I'd get incrementally positive medium/longer term around -2.0 on the chart, which would likely only be during or after a recession.*

# Atlanta Fed GDPNow GDP Forecast

GDPNow Forecast and the official QoQ SAAR from BEA

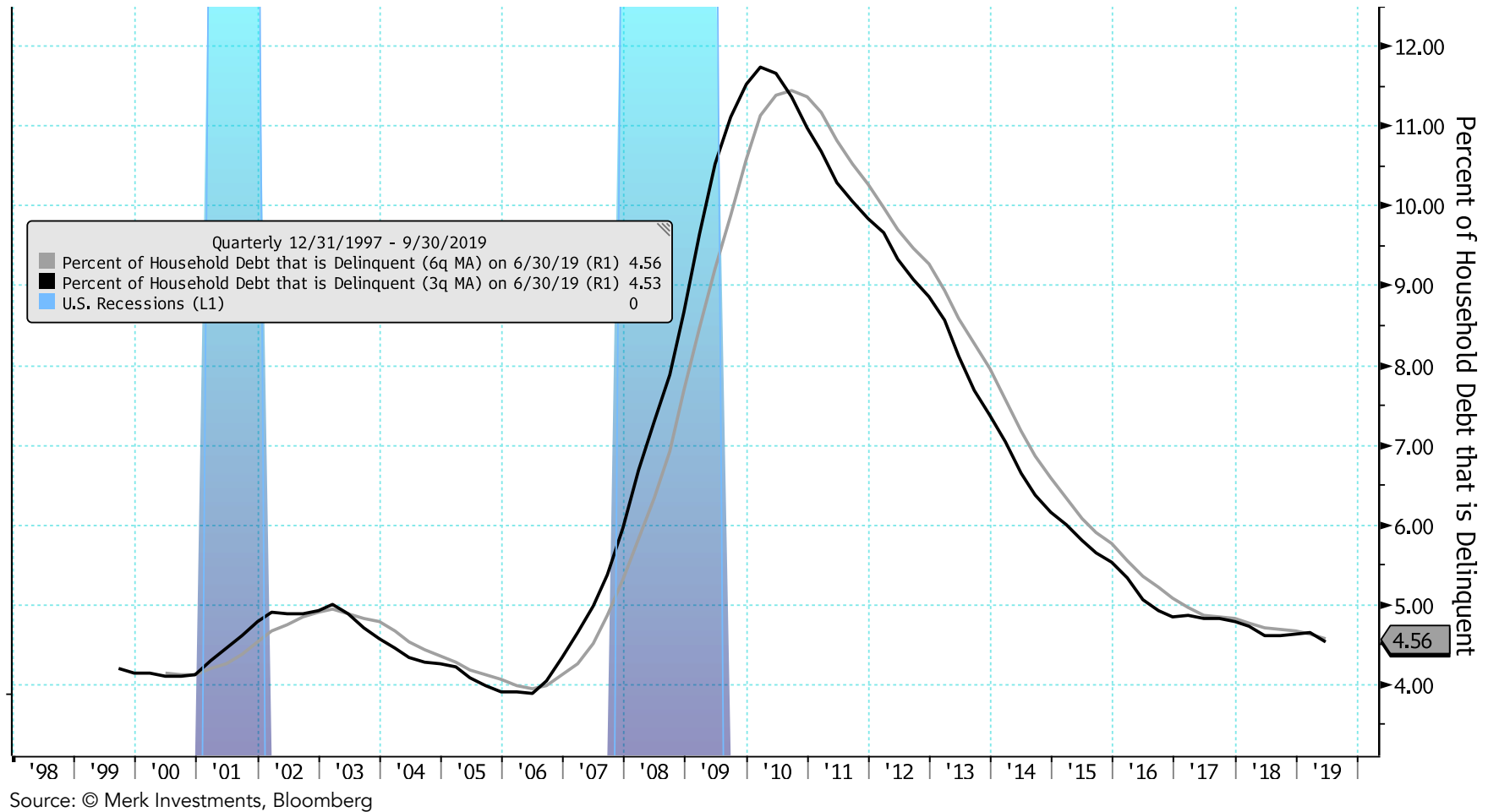


Source: © Merk Investments, Bloomberg

*Analysis: The Q3 2019 GDP initial reading (black line) came in at 1.9%, the current forecast for Q4 2019 GDP is around 1.1%. Chart Framework: I'd get incrementally negative on the business cycle outlook if the Atlanta Fed GDP indicator fell below zero.*

# U.S. Household Credit Cycle

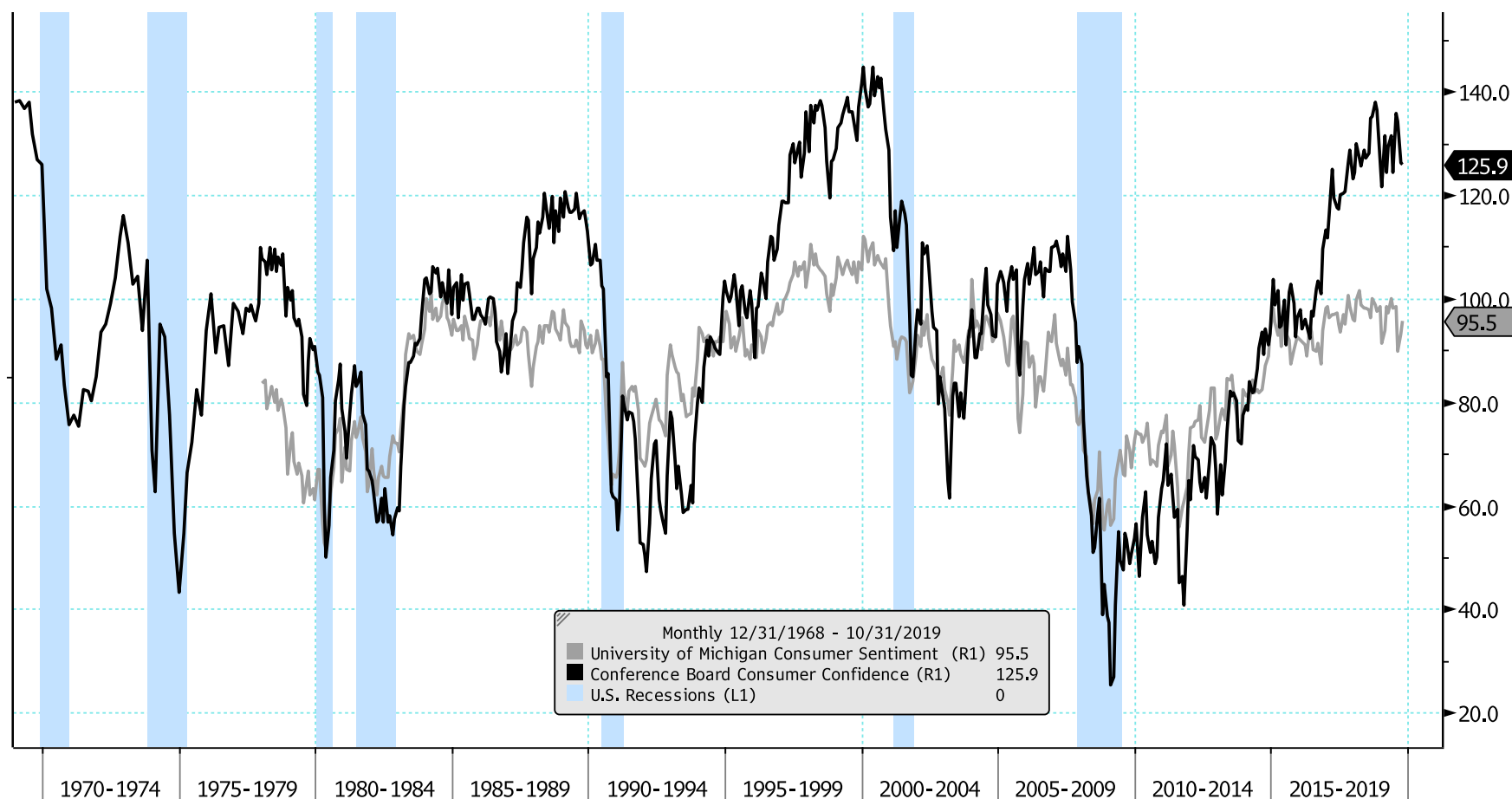
Percent of Household Debt that is Delinquent (3 quarter and 6 quarter moving averages)



*Analysis: The Q2 2019 data showed another downtick in the household delinquency rate (generally a positive sign for the economy); and the 3-quarter moving average (black) moved back below the 6-quarter moving average (grey). Given my chart framework I'm currently positive on this picture. Chart Framework: I'd get incrementally negative if the 3q MA rose above the 6q MA. The Q3 2019 data comes out in late November.*

## U.S. Consumer Confidence

Michigan Consumer Sentiment and Conference Board Consumer Confidence



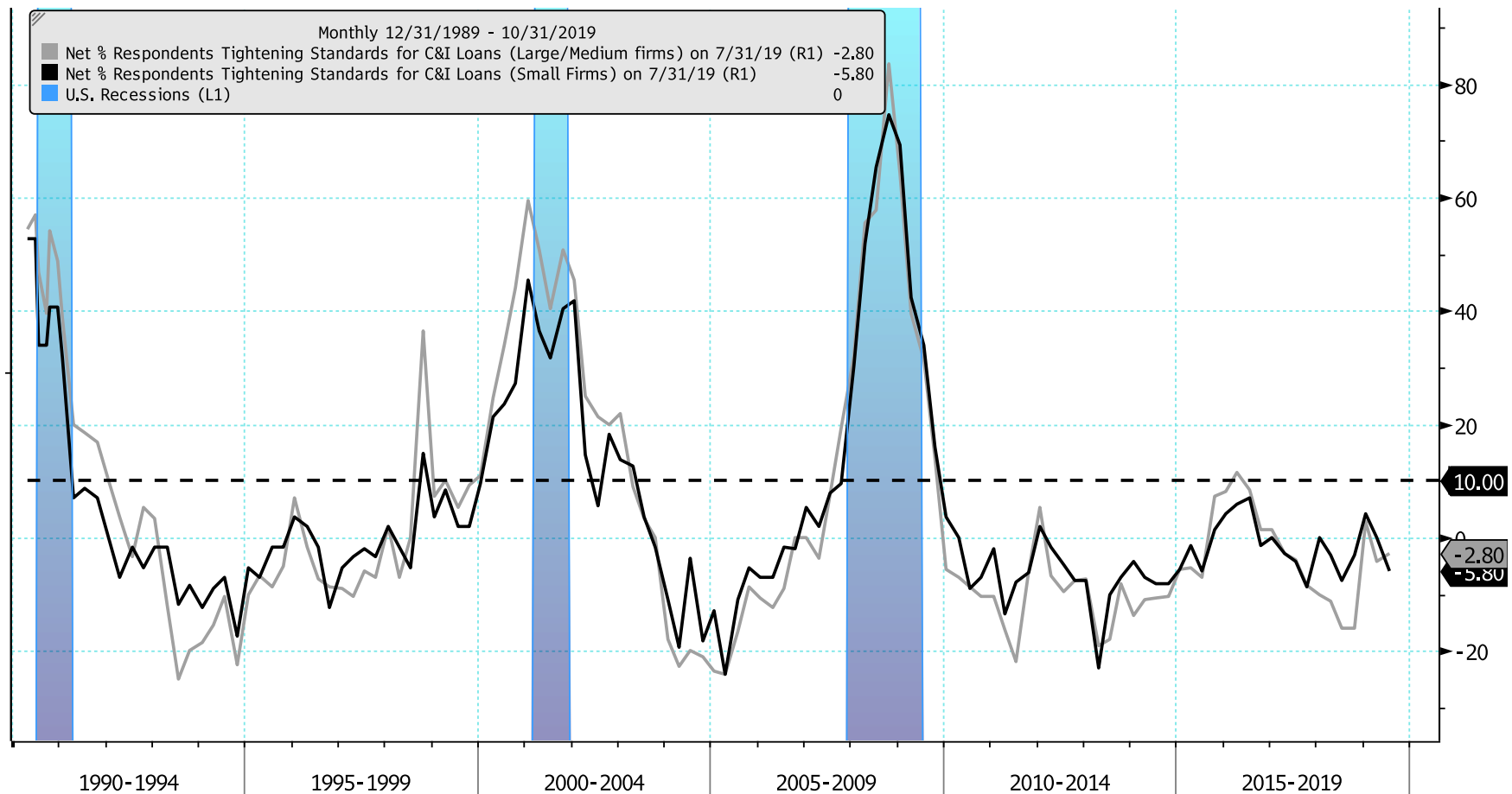
Source: © Merk Investments, Bloomberg

*Analysis: The consumer confidence indexes are now both trending lower, from elevated levels, which is consistent with late cycle patterns. Given my framework, I'm currently negative on this picture. Chart Framework: I'd get incrementally positive if one or both measures are trending higher on a YoY basis.*



# Bank Lending Standards

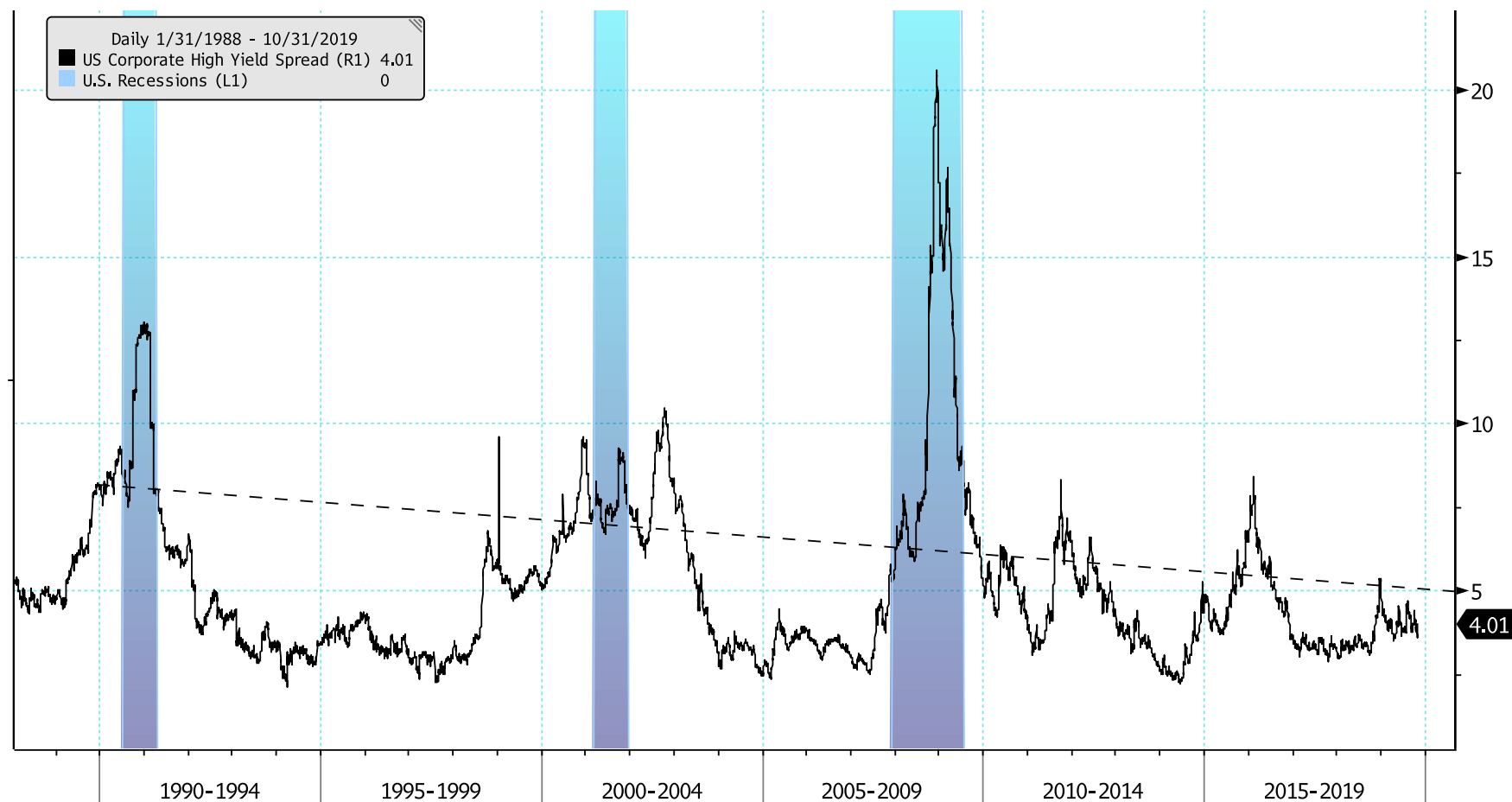
Senior Loan Officer Opinion Survey (SLOOS): Net % of Respondents that are Tightening Lending Standards for Commercial and Industrial (C&I) Loans



Source: © Merk Investments, Bloomberg

*Analysis: Data from the Fed's Senior Loan Officer Opinion Survey suggest bank lending standards generally continue to be supportive of economic activity. Chart Framework: I'd get incrementally negative on the business cycle outlook if 10% of respondents report tightening lending standards. It's worth noting that this data only comes out quarterly, and with a lag.*

# High Yield Spread US High Yield Spread with Trend Line

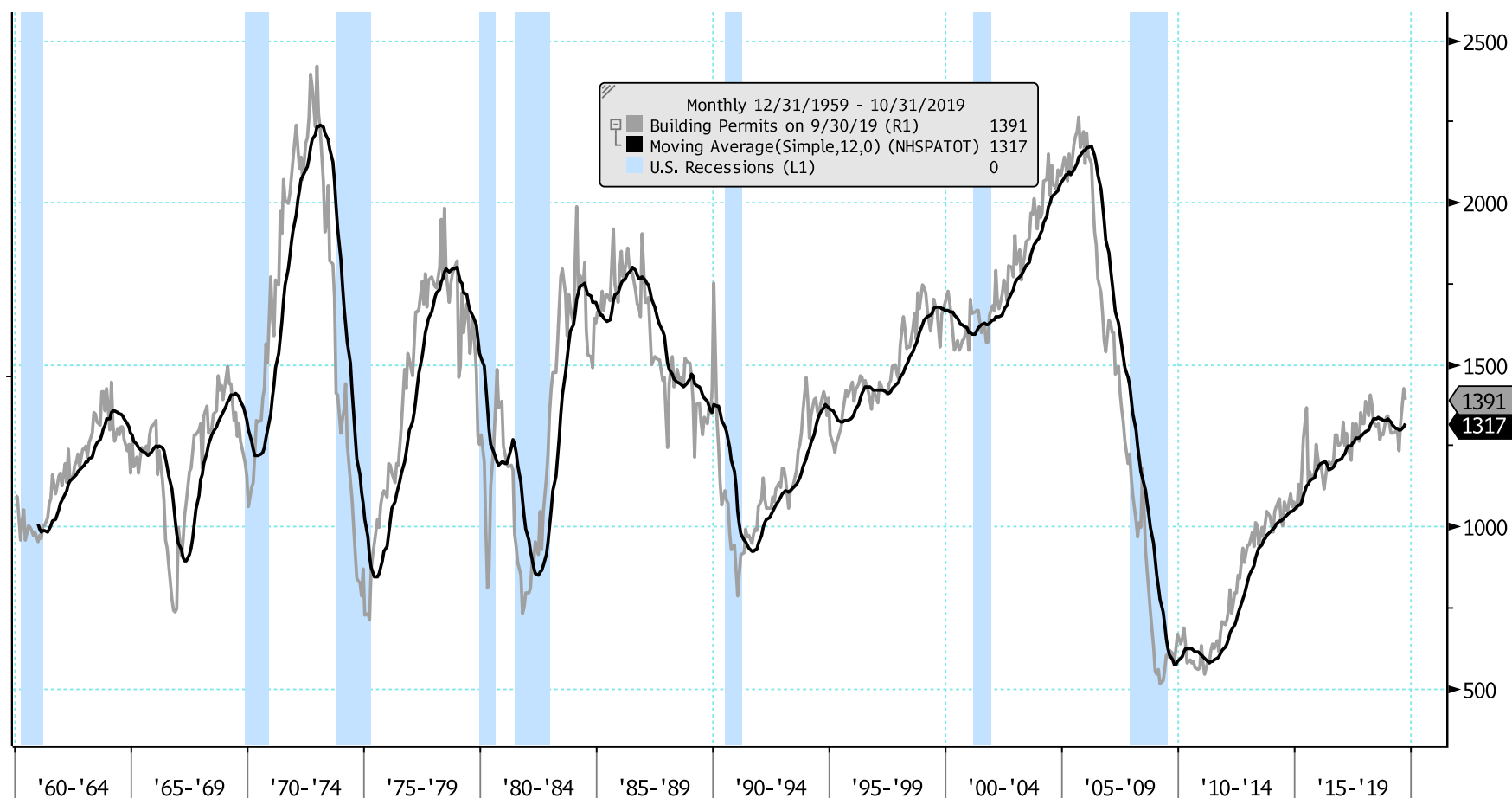


Source: © Merk Investments, Bloomberg

*Analysis: The high yield credit spread remains below what I consider to be the warning level, although it has been trending higher and bears watching. Chart Framework: I'd get incrementally negative on the business cycle outlook if the spread moves above 5.*

## U.S. Building Permits

U.S. Building Permits and 12-month Moving Average



Source: © Merk Investments, Bloomberg

*Analysis: Building permits, historically a long leading indicator, are near cycle highs. I'm currently positive on this picture.  
Framework: I would get negative if the 12-month moving average started trending lower again.*

## Checklist

Chart	Time Horizon	Per Framework Outlook on Business Cycle
LEIs	Short/Medium Term	Positive
Yield Curve	Medium Term	Neutral/Negative
U.S. PMIs	Short/Medium Term	Negative
Global PMIs	Short/Medium Term	Negative
Job Gains	Medium Term	Positive
U-3 v 12m MA	Medium Term	Positive
SF Fed U-3	Medium Term	Negative
Labor Force Capacity Util.	Medium/Longer Term	Neutral/Negative
Output Gap	Medium/Longer Term	Neutral/Negative
GDP Forecast	Short Term	Positive
Household Credit	Medium Term	Positive
U.S. Consumer Confidence	Short/Medium Term	Negative
Lending Standards	Medium Term	Positive
High Yield Spread	Short/Medium Term	Positive
U.S. Building Permits	Medium/Longer Term	Positive
Time Horizon		Overall Outlook on Business Cycle
	Short Term (<6 months)	Neutral/Positive with high uncertainty
	Medium/Longer Term (6m - 5 years)	Neutral/Negative with high uncertainty

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## Conclusion/Thoughts

At the risk of sounding like a broken record, this continues to be an extremely challenging economic environment to analyze, with mixed signals. I would estimate the probability of a recession starting in the coming six months to be around 30-45%. While my base-case view remains that the U.S. economic expansion will likely continue over the next several months, and in general until further notice, the trend in much of the data is concerning and the data probably needs to start improving soon if the U.S. economy is going to weather the current soft patch.

Of greatest concern are the depth and duration of yield curve inversion (10yr-3m) and the weakness in the U.S. manufacturing PMI (now below 50 for three consecutive months). The yield curve (10yr-3m) has recently uninverted, but the jury is still out as to whether this is good or bad, as steepening after inversion is historically consistent with imminent recession. On the positive side: we had an uptick (barely) in manufacturing PMI, recent housing market data looks strong, the LEI index continues (barely) to trend higher YoY, and financial conditions continue to be generally supportive of the expansion. And even given some of the late cycle indications, some slack seems to remain in the labor market, which may further suggest that the economic cycle can continue for a while longer. Also, historically U.S. business cycles have ended with an “overheating” and an overshoot of inflation- the U.S. economy has not (yet) “overheated” and there seems to be an absence of obvious excesses.

Much of the weakness in global manufacturing is likely attributable to uncertainty over global trade policy, an issue that the current U.S. administration seems to have a fair amount of unilateral influence over. A “Phase One” U.S./China trade deal appears to be in the works and in my view the administration will likely continue to move toward resolution as the re-election campaign approaches. De-escalation of trade tensions and tariff reduction may be a catalyst for a global economic rebound. The more time passes before a resolution, however, the more likely a resolution could be too little too late with regards to avoiding recession. Another factor affecting global manufacturing seems to be a perfect storm in the global car market: including new emissions regulations, saturated markets, ride hailing/sharing, and weak demographics, all in addition to trade policy issues.

While uncertainty around the outlook has increased greatly, based on my checklist approach I think the U.S. business cycle picture near-term is overall still slightly more positive than negative. On balance, based on the charts and frameworks presented (which inevitably may not capture all possible risk factors in real-time), it seems more likely than not that the U.S. economic expansion continues in the coming several months. The longer-term outlook remains negative as we are likely in the late part of this economic expansion. All of the presented charts and concepts are somewhat inter-related, as is the economy in general, so the idea is to have some different data points to cross-reference. In my view no one indicator can be looked at in isolation.

-Nick Reece, CFA

## About the Author



**Nick Reece, CFA:** Nick is a Senior Analyst and Portfolio Manager at Merk Investments. He focuses on macroeconomic research and private wealth management, regularly publishing reports on the U.S. business cycle and equity market. Prior to joining Merk in 2012, Nick gained experience working on capital markets deals with Paul Hastings in Hong Kong, and with Atlantis Investment Management. Mr. Reece holds a B.A. in Economics from Trinity College and is a Chartered Financial Analyst (CFA) charterholder. Nick lives in New York City. Outside of work, he is an avid reader and volunteer high school math tutor. You can follow Nick on Twitter @nicholastreece.

**Disclosure**

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