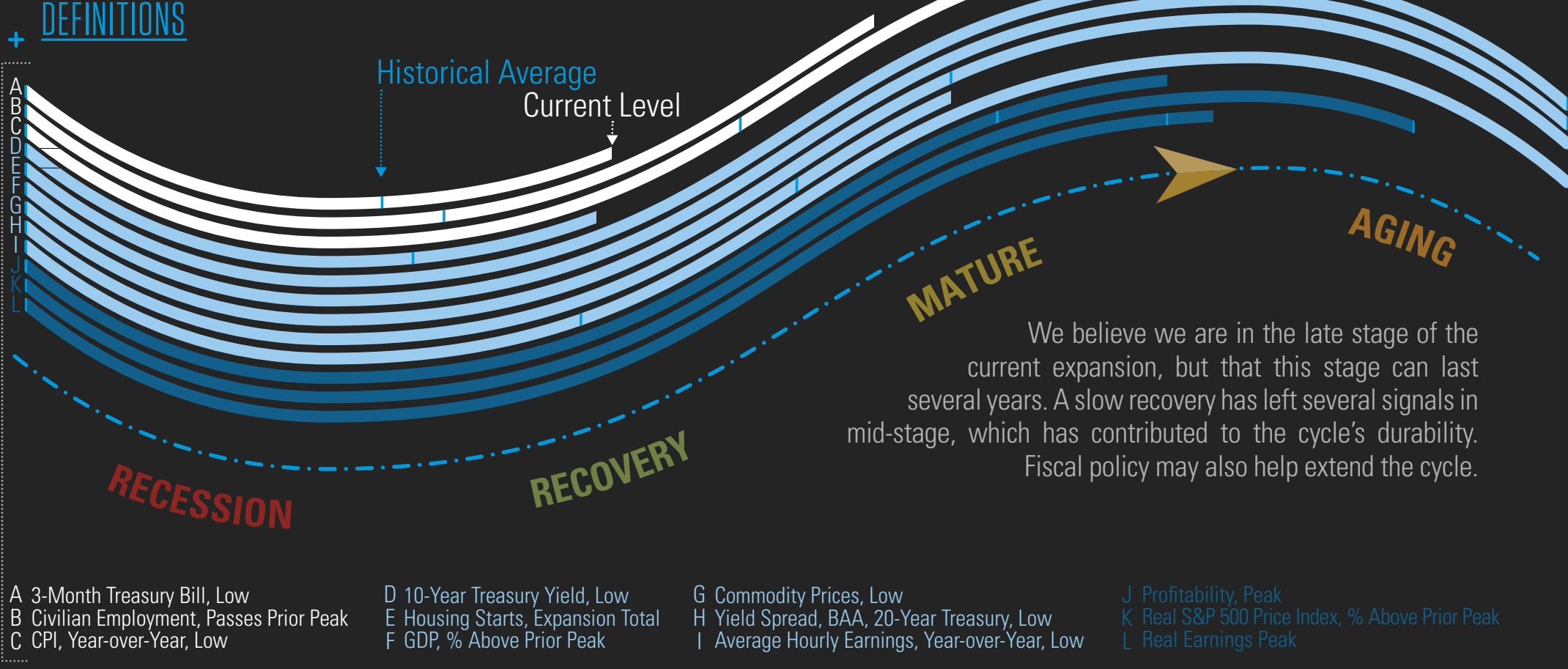


RECESSION WATCH January 2020

Our Recession Watch Dashboard is showing a modest risk of recession starting within the next year.

Because data for the components of this dashboard are available with varying frequencies, some will be more current than others. In all cases, we have used the latest data available.



Data for all series is as of December 31, 2019. Starting point for all series is June 1954 except housing starts (March 1961), hourly earnings (December 1970), and commodity prices (December 1970). Real prices and real earnings determined using the Consumer Price Index for all urban consumers (CPI-U). Commodity prices are based on the GSCI Total Return Index. Profitability is based on real profit per unit value added for non-financial corporate business based on current production as calculated by the BEA.

The 10-year Treasury yield hit a new low for the current cycle in July 2016 (based on the daily average), shifting us to earlier in the cycle by that metric.

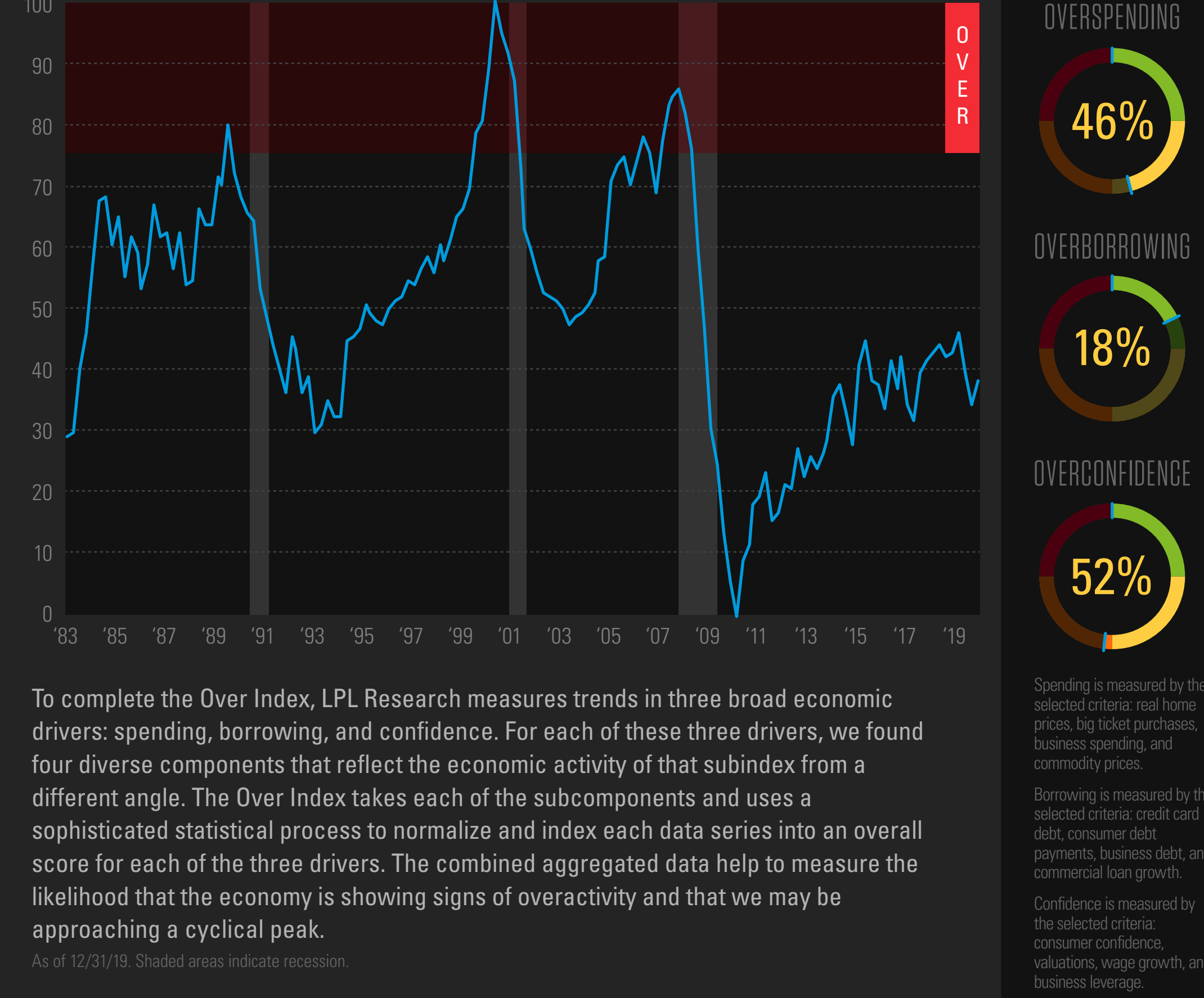
Sources: LPL Research, Federal Reserve, U.S. Bureau of Economic Analysis, U.S. Bureau of Labor Statistics, U.S. Bureau of the Census, Standard and Poor's, Robert Shiller, National Bureau of Economic Research, Haver Analytics, Thomson Reuters

The opinions voiced in this material are for general information only and are not intended to provide or be construed as providing specific investment advice or recommendations for your clients.

Any economic forecasts set forth in the presentation may not develop as predicted and there can be no guarantee that strategies promoted will be successful. All indexes are unmanaged and cannot be invested into directly.

For more details on any of the components of this dashboard, please see the links embedded within the graphic (marked with a + symbol).

THE OVER INDEX



5 FORECASTERS:
LATE CYCLE WARNING?

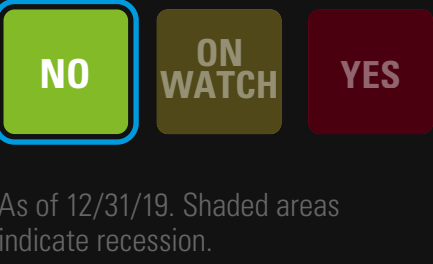
There is no magic formula for predicting recessions and bear markets — every cycle is different. But we believe the Five Forecasters cover a variety of perspectives and help capture a more complete view of the economic and market environment. They are meant to be considered collectively, not individually.

The PE ratio (price-to-earnings ratio) is a valuation ratio of a company's current share price compared with its per-share earnings. A high PE suggests that investors are expecting high earnings growth in the future, compared with companies with a lower PE.

The Standard & Poor's 500 Index is a capitalization-weighted index of 500 stocks designed to measure performance of the broad domestic economy through changes in the aggregate market value of 500 stocks representing all major industries.

The Purchasing Managers' Index (PMI) is an indicator of the economic health of the manufacturing sector. The PMI is based on five major indicators: new orders, inventory levels, production, supplier deliveries, and the employment environment.

TREASURY YIELD CURVE



LEADING ECONOMIC INDICATORS



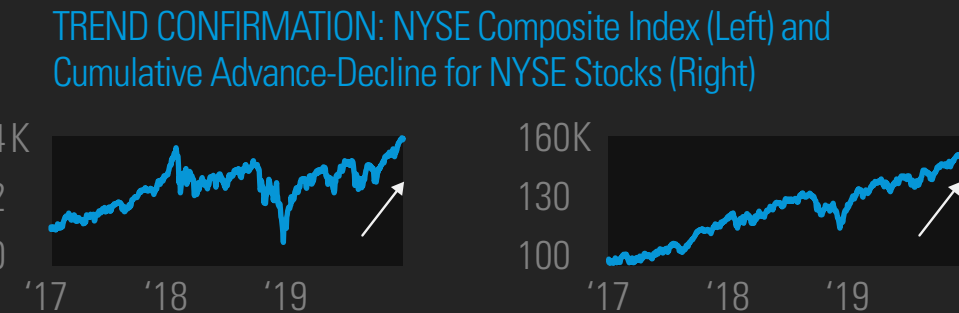
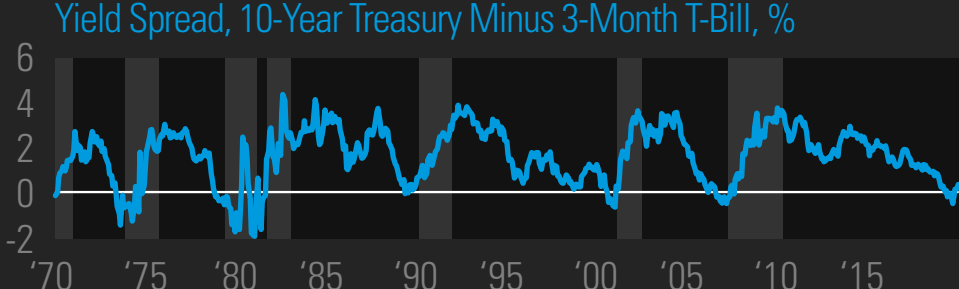
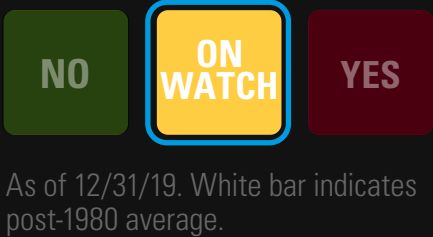
MARKET BREADTH



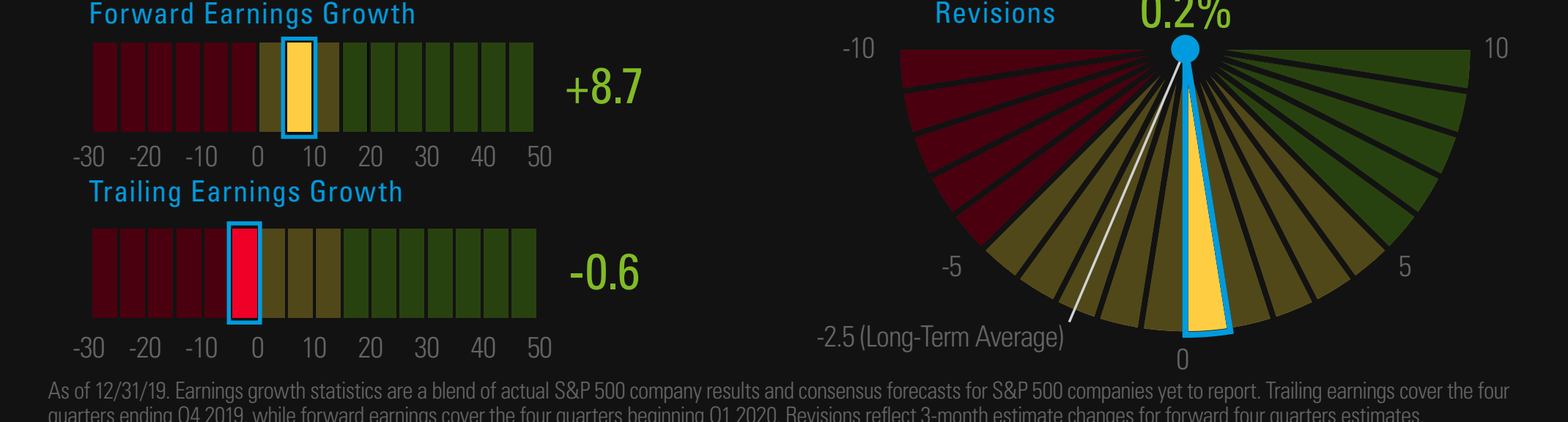
PURCHASING MANAGERS' SENTIMENT (PMI)



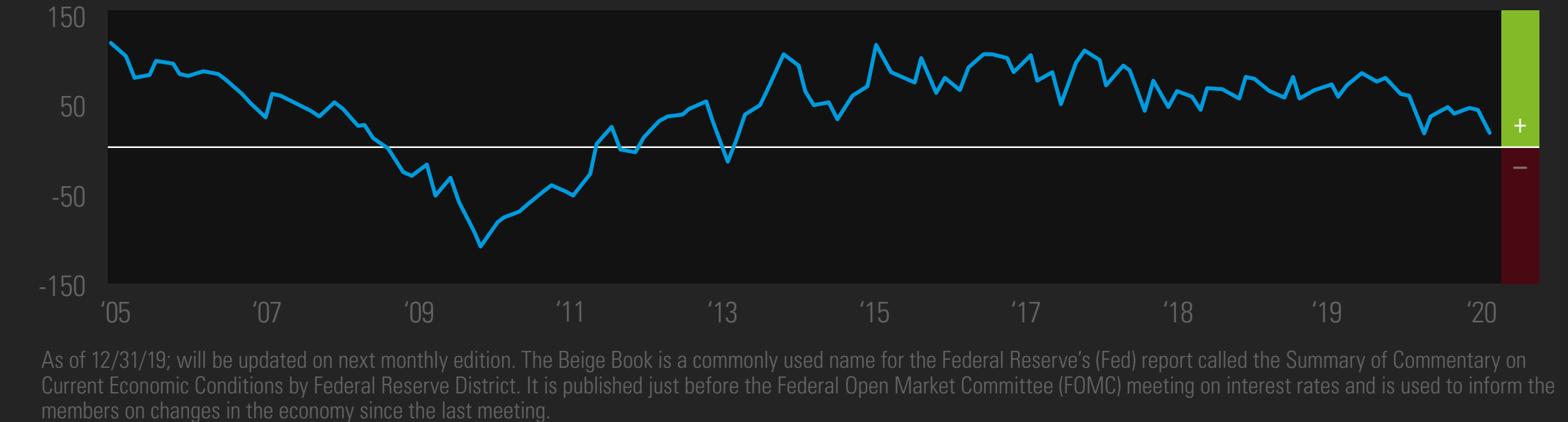
MARKET VALUATION



EARNINGS BAROMETER



BEIGE BOOK BAROMETER Mentions of "Strong" and Variations Minus "Weak" and Variations



As of 12/31/19; will be updated on next monthly edition. The Beige Book is a commonly used name for the Federal Reserve's (Fed) report called the Summary of Commentary on Current Economic Conditions by Federal Reserve District. It is published just before the Federal Open Market Committee (FOMC) meeting on interest rates and is used to inform the members on changes in the economy since the last meeting.