

Strategist's Handbook: Chart Updates

Yardeni Research, Inc.

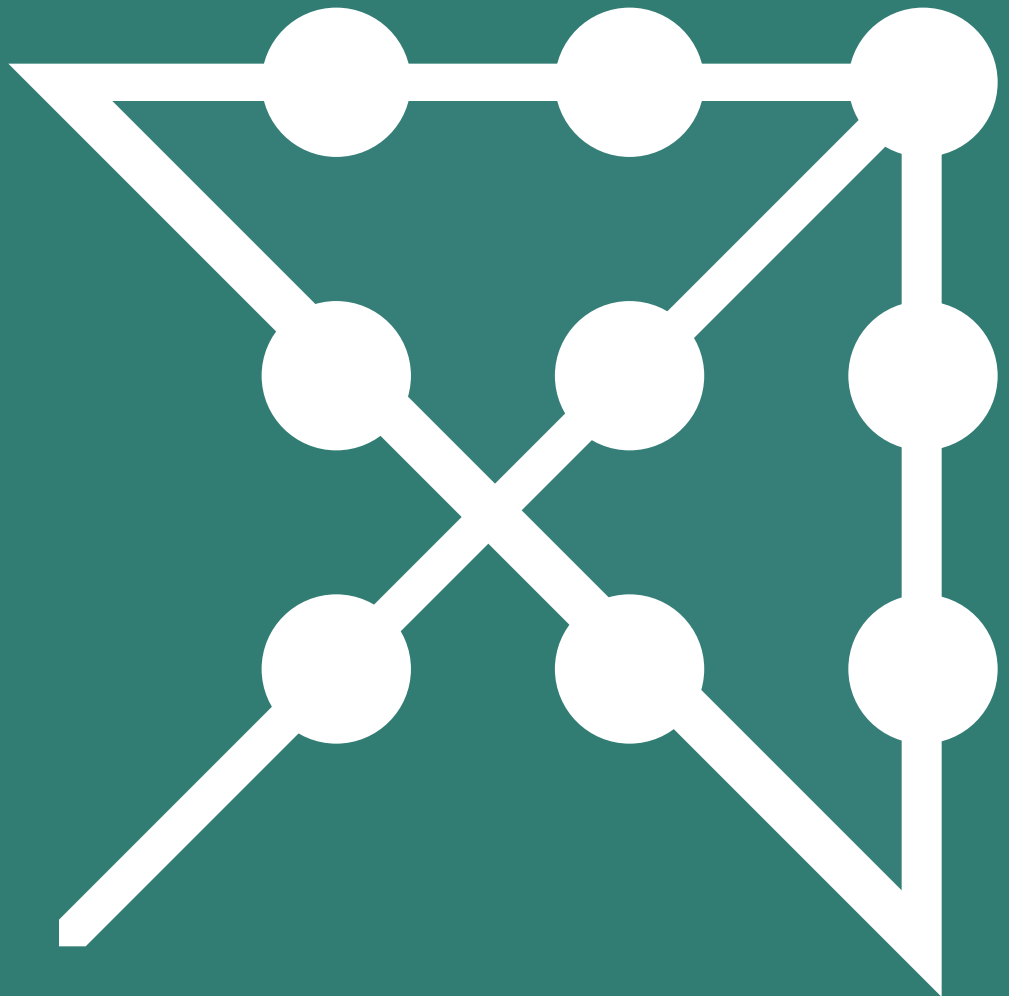
December 30, 2023

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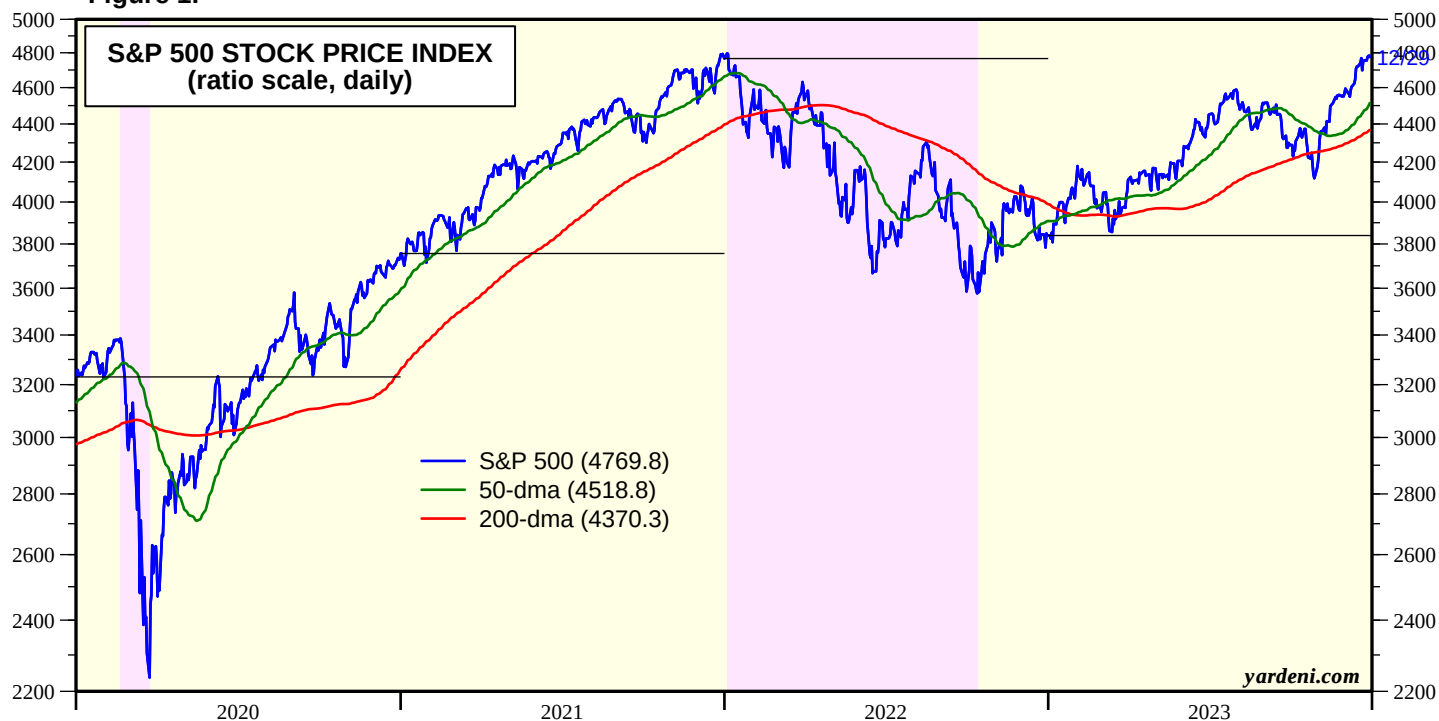
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thinking outside the box

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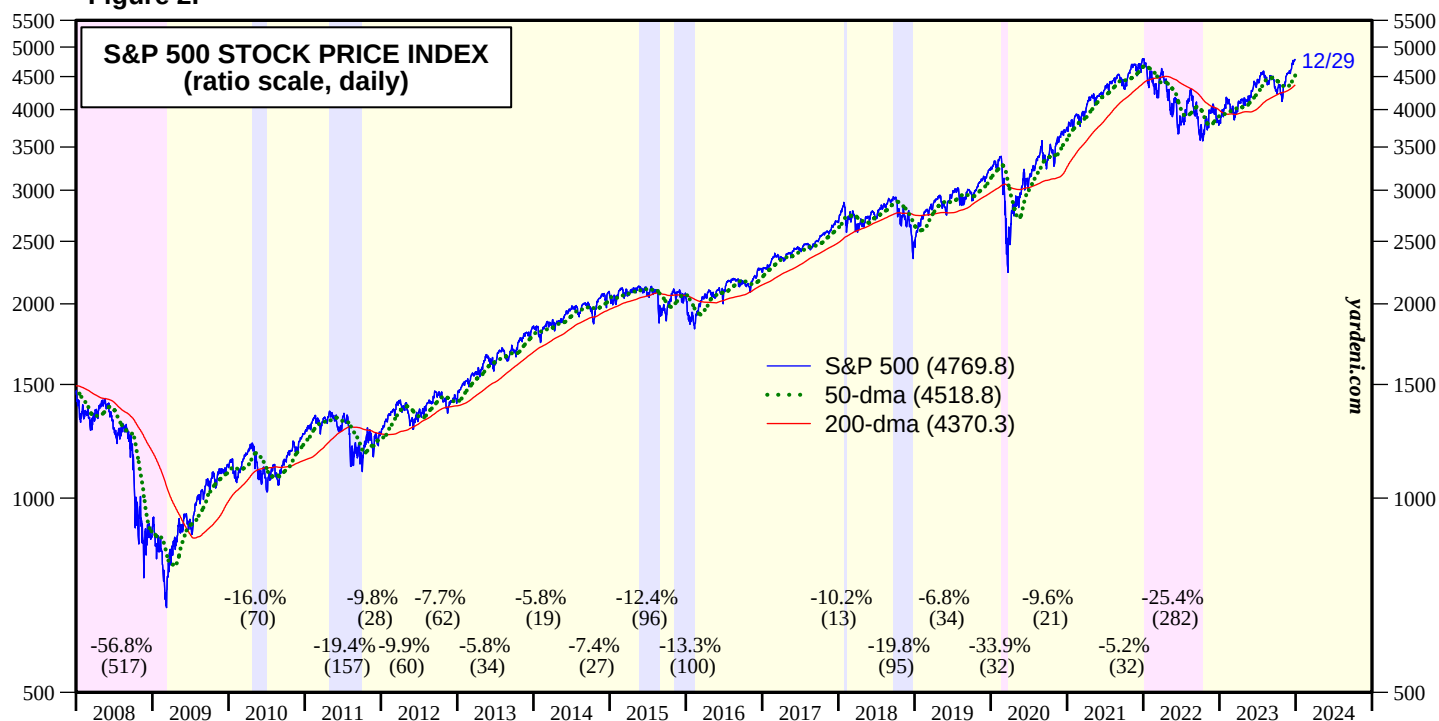


Note: Horizontal black lines are previous years' closing price index.

Note: Shaded red areas are S&P 500 bear market declines of 20% or more. Yellow areas show bull markets.

Source: Standard & Poor's.

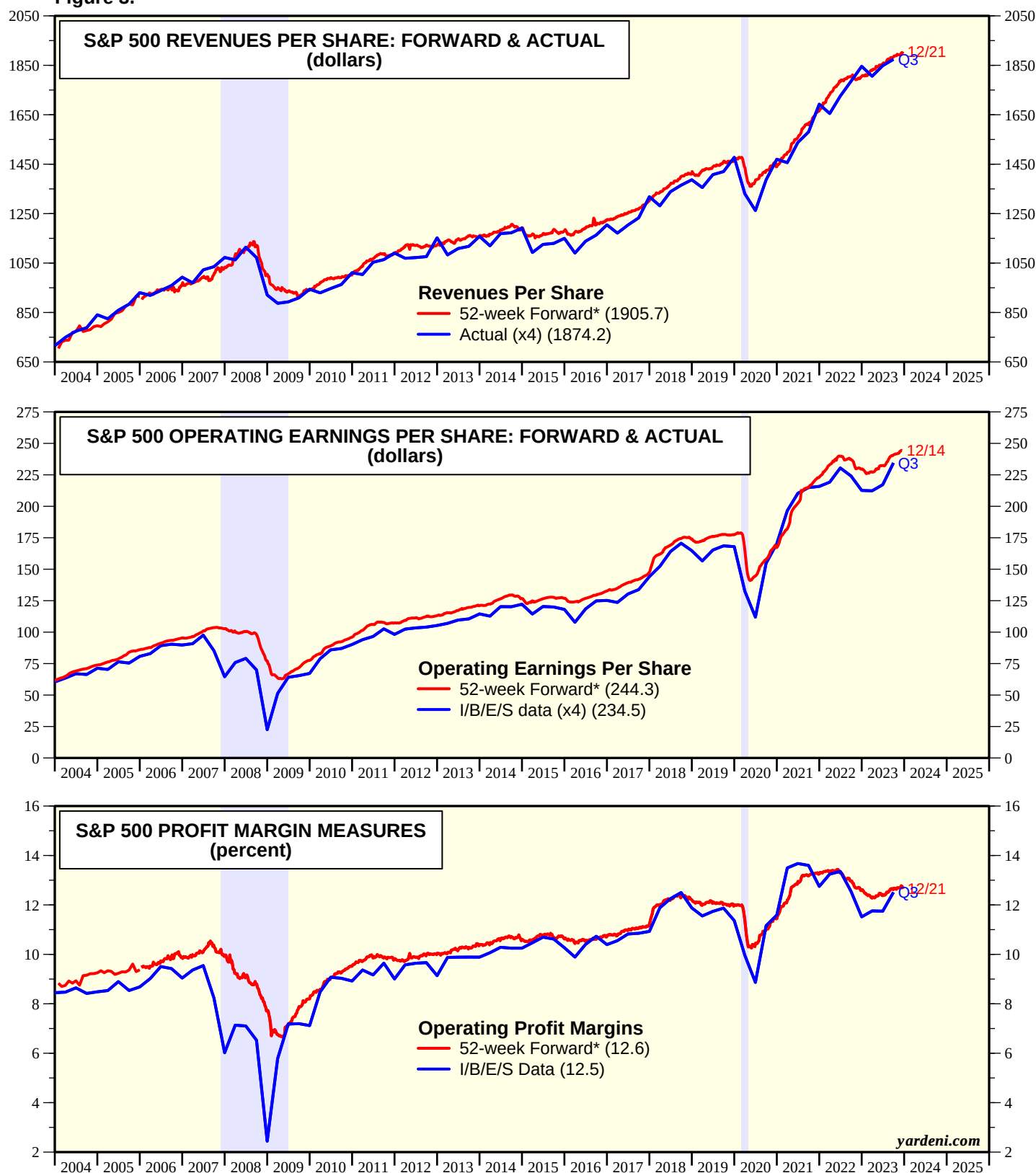
Figure 2.



Note: Corrections are declines of 10% or more, but less than 20%, while minor ones are 5%-10% (all in blue shades). Bear markets are declines of 20% or more (in red shades). Number of calendar days in parentheses.

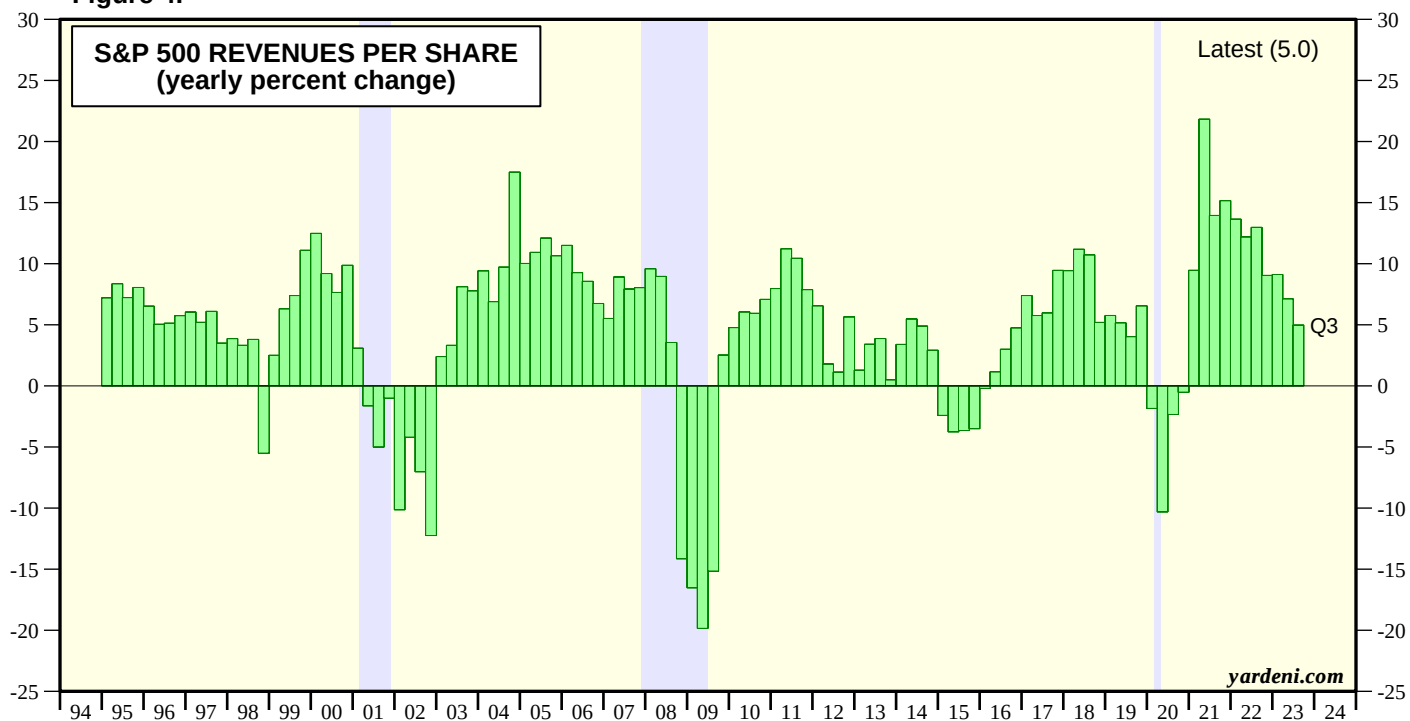
Source: Standard & Poor's.

Figure 3.



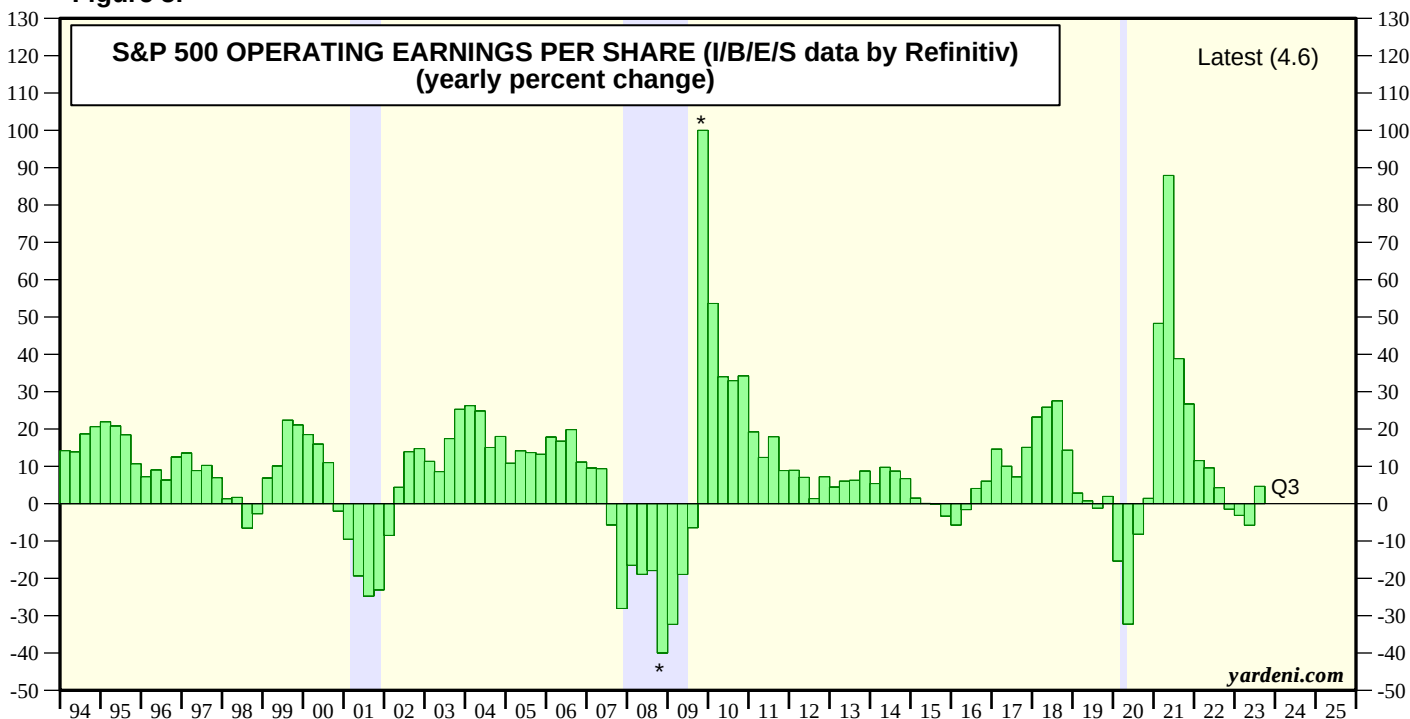
* Time-weighted average of consensus estimates for current and next years.
 Note: Shaded areas are recessions according to the National Bureau of Economic Research.
 Source: Standard & Poor's and I/B/E/S data by Refinitiv.

Figure 4.



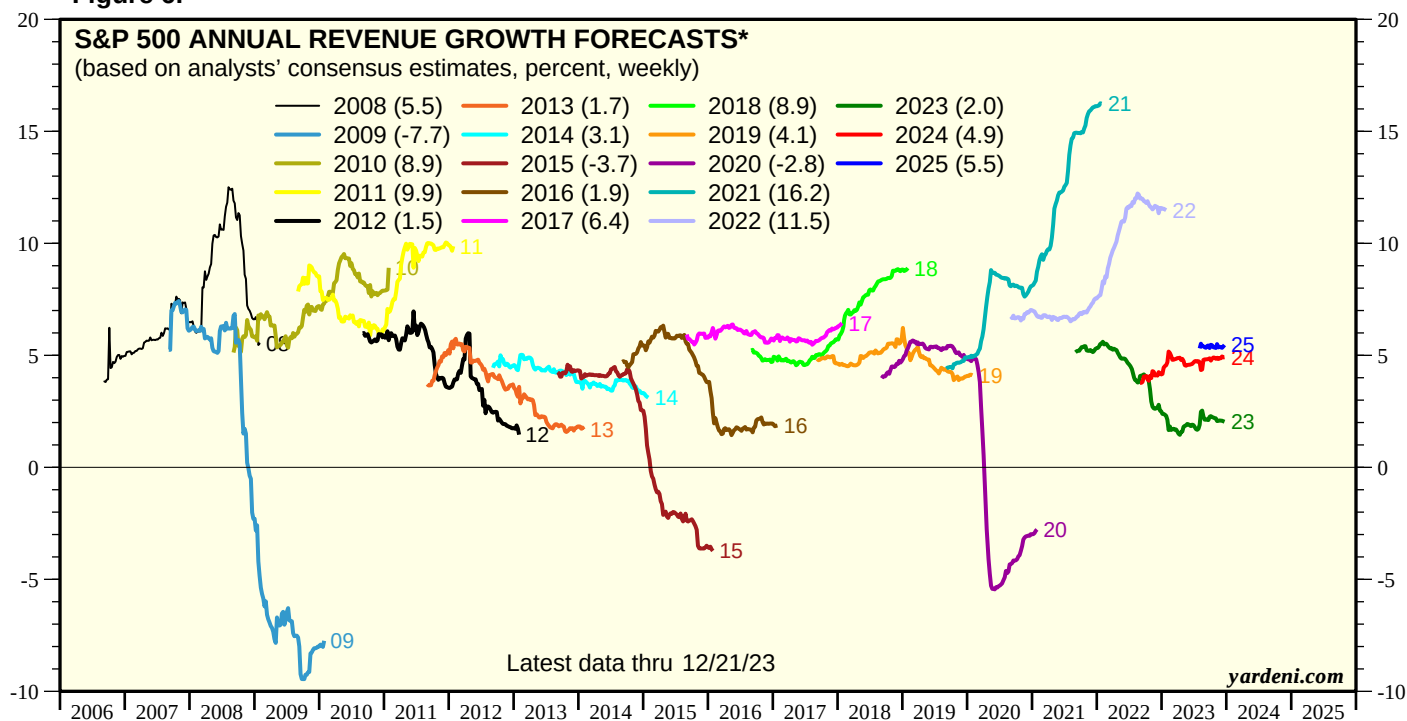
Note: Shaded areas are recessions according to the National Bureau of Economic Research.
Source: Standard & Poor's.

Figure 5.



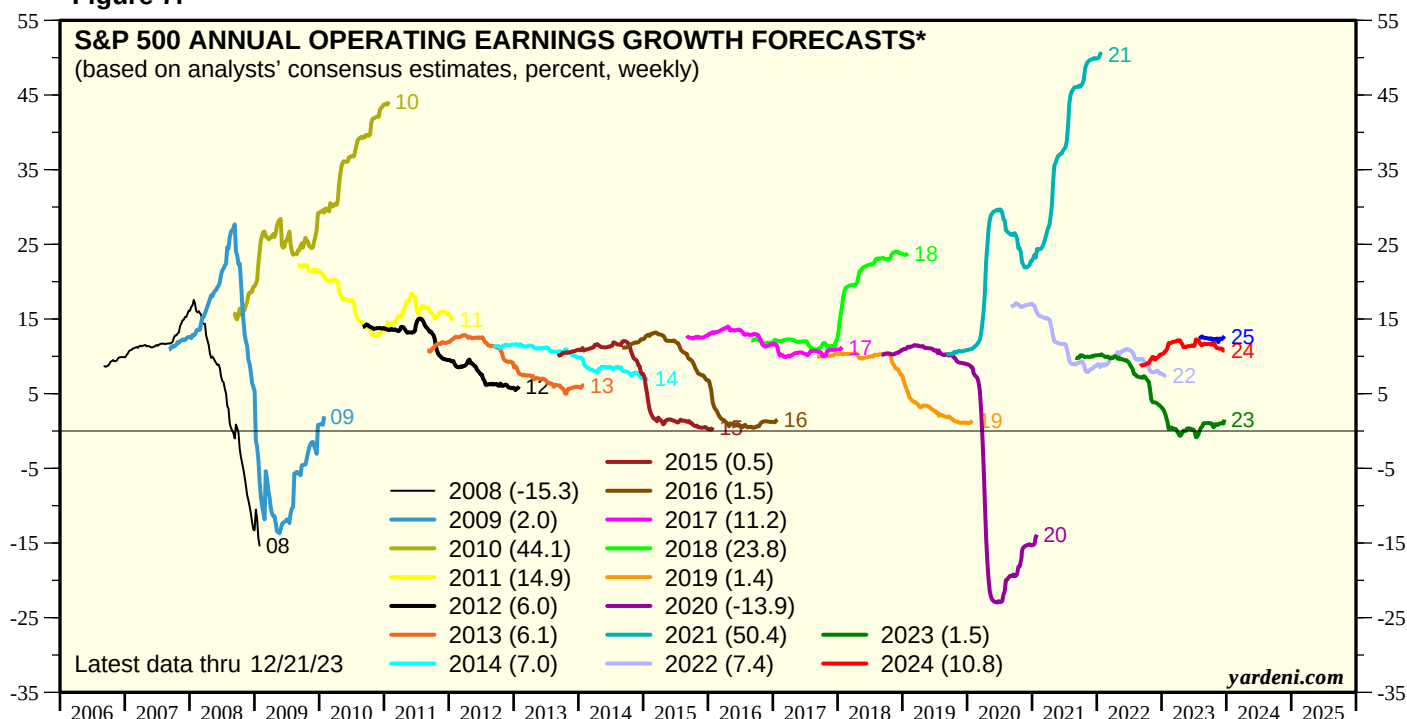
* Due to extreme values, Q4-2008's -65.2% is capped at -40%, Q4-2009's +198.9% is capped at 90%.
Note: Shaded areas are recessions according to the National Bureau of Economic Research.
Source: I/B/E/S data by Refinitiv.

Figure 6.



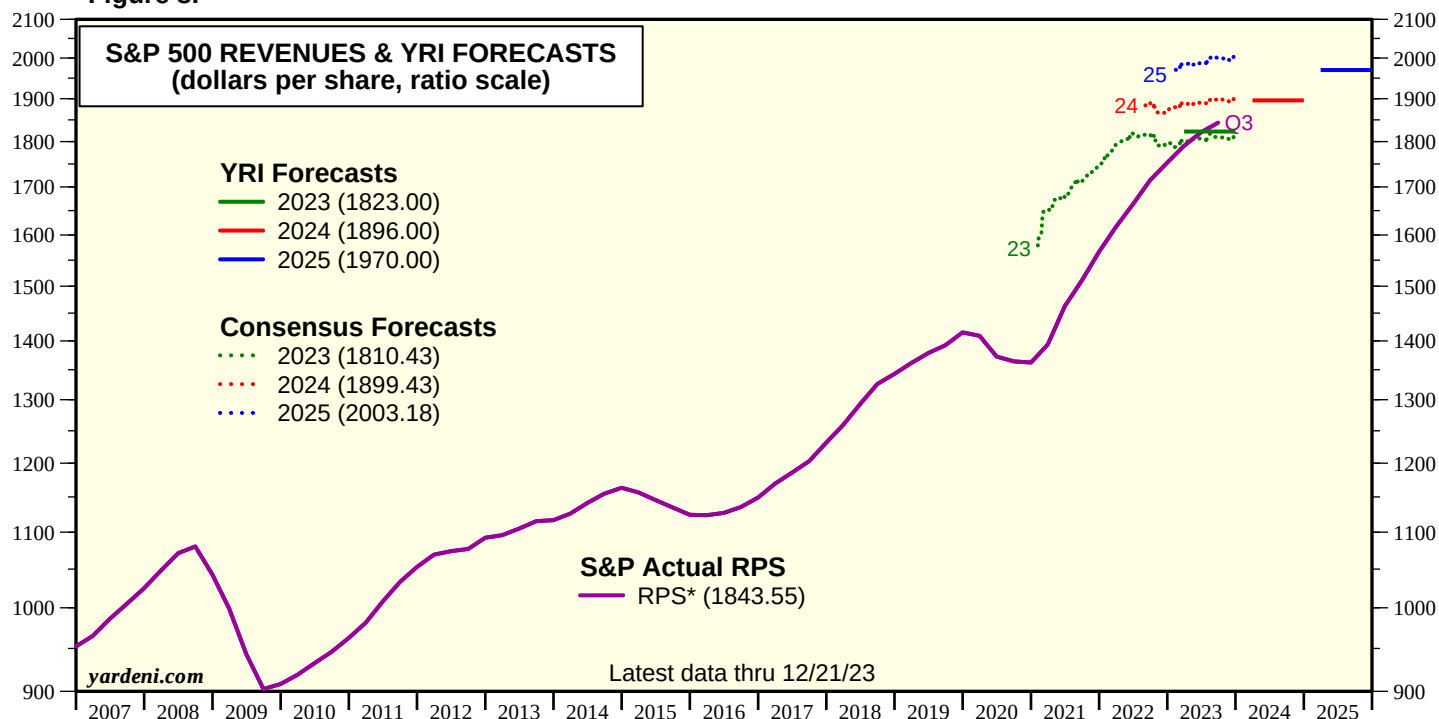
Source: I/B/E/S data by Refinitiv.

Figure 7.



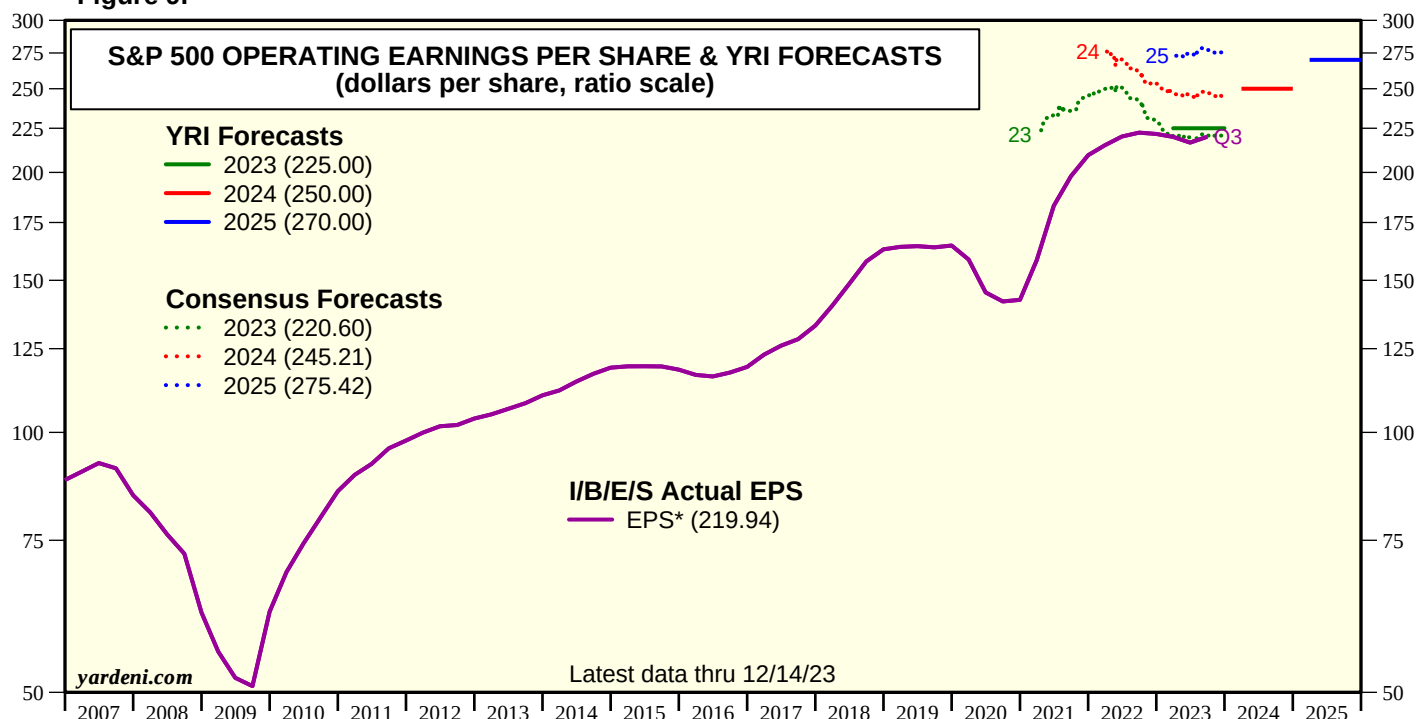
Source: I/B/E/S data by Refinitiv.

Figure 8.



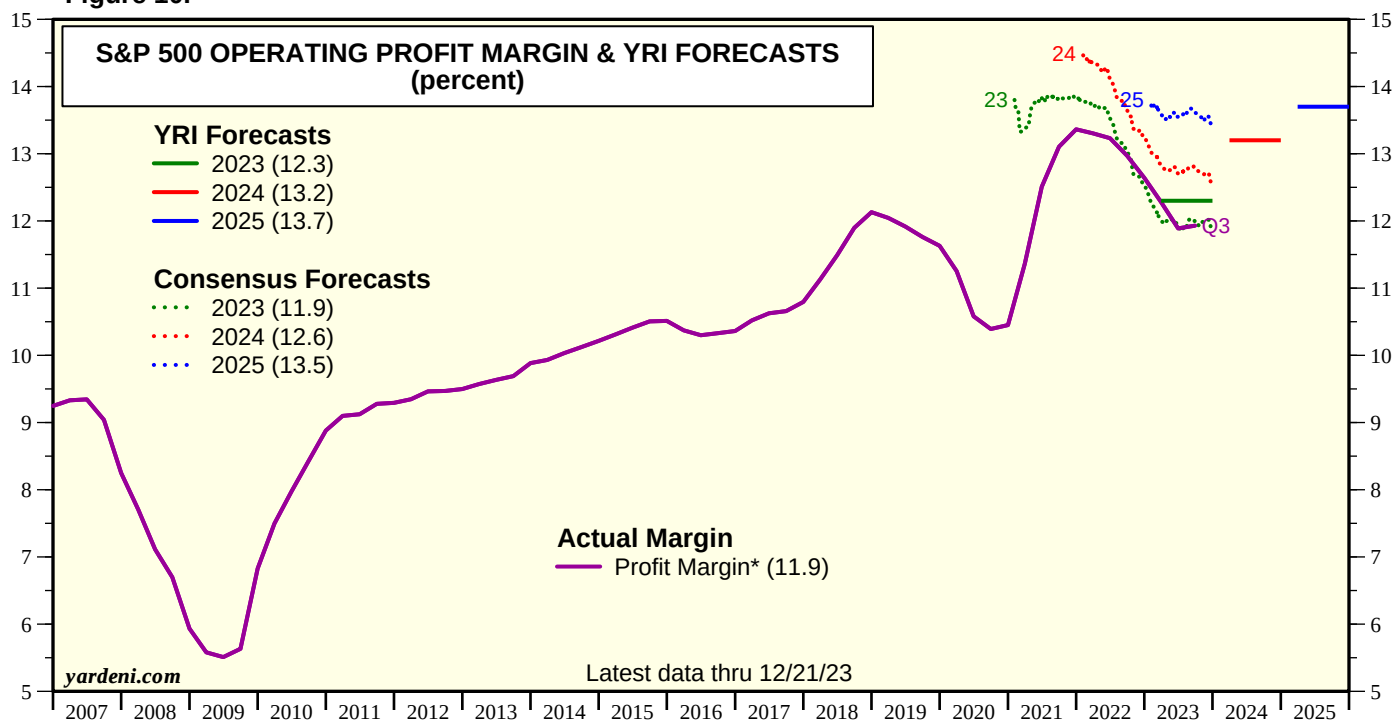
* Four-quarter trailing sum of revenues per share.
Source: I/B/E/S data by Refinitiv.

Figure 9.



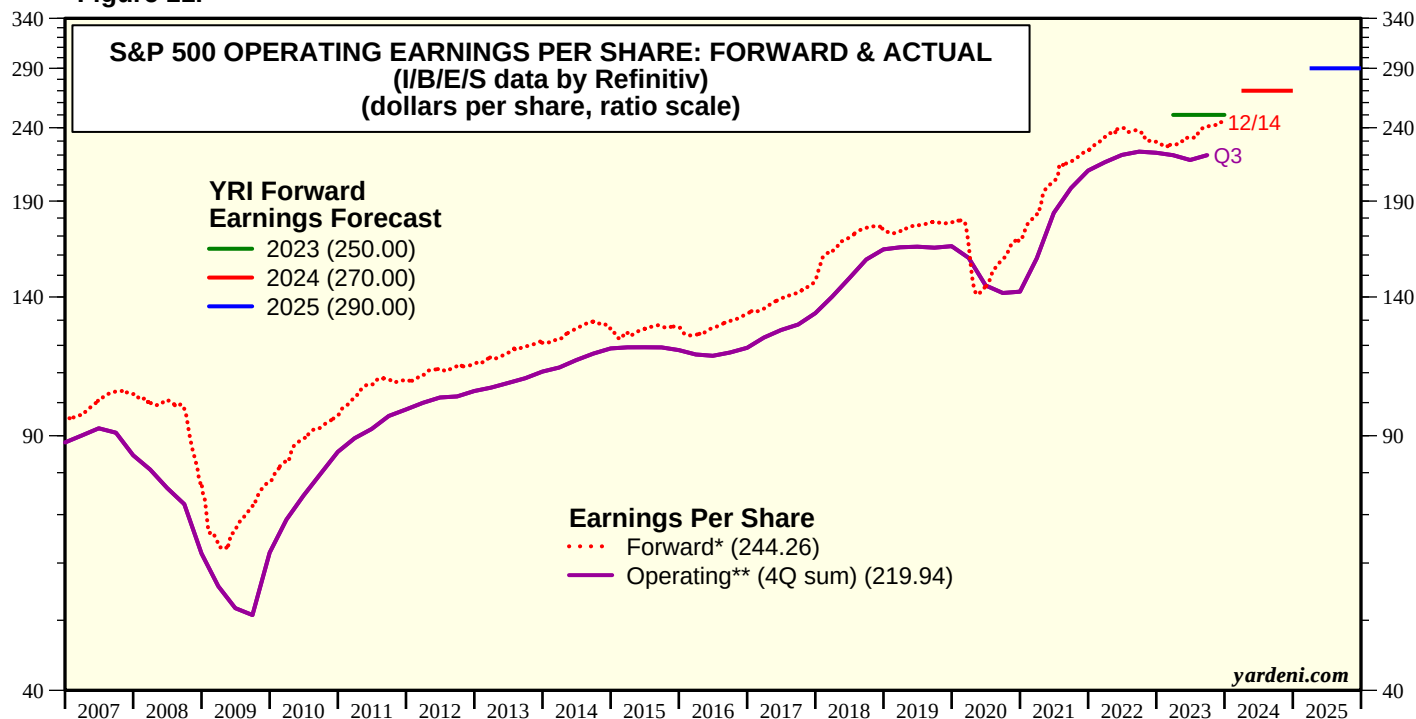
* Four-quarter trailing sum of operating earnings per share.
Source: I/B/E/S data by Refinitiv.

Figure 10.



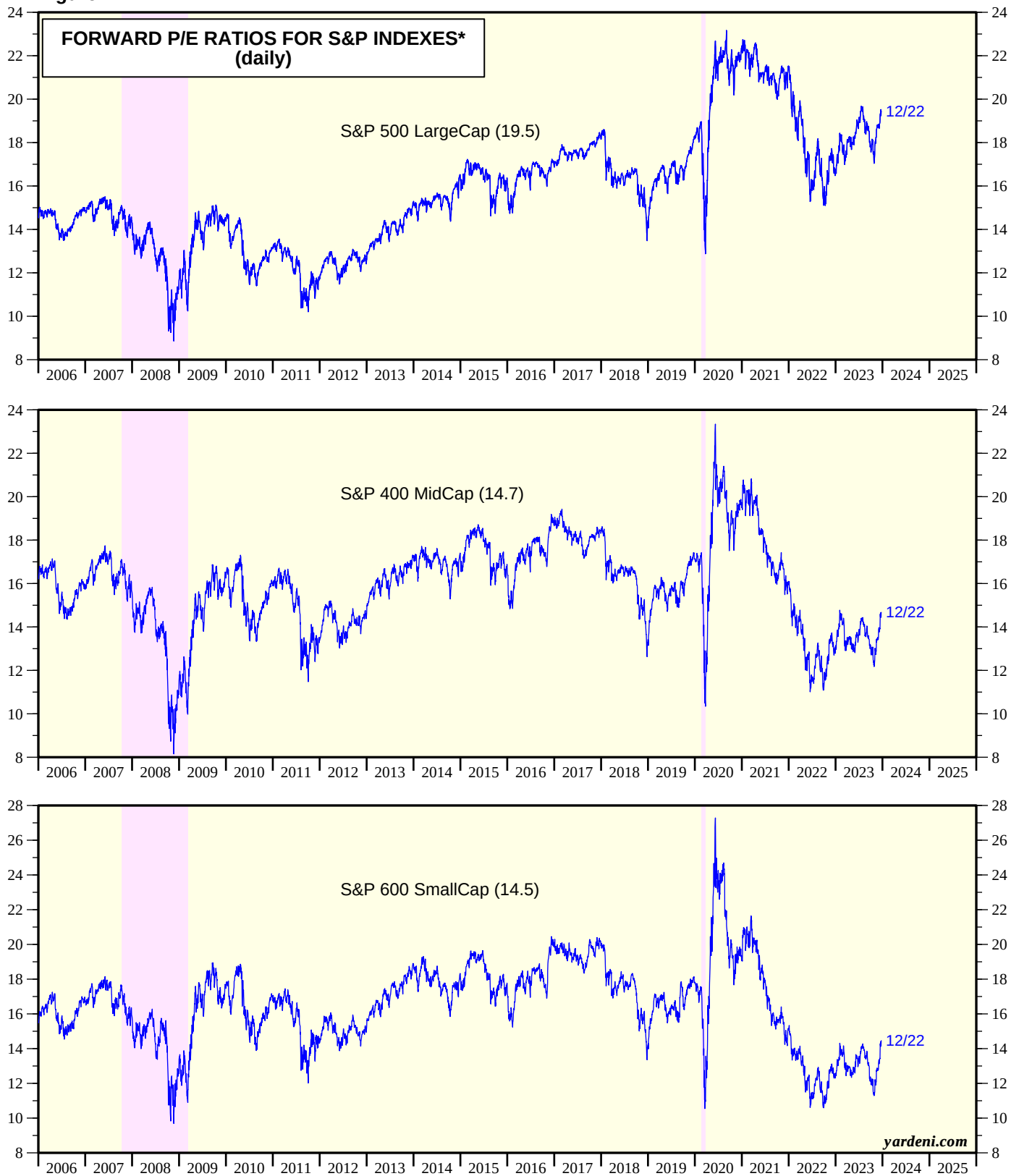
* Four-quarter trailing operating profit margin.
Source: I/B/E/S data by Refinitiv and Standard & Poor's.

Figure 11.



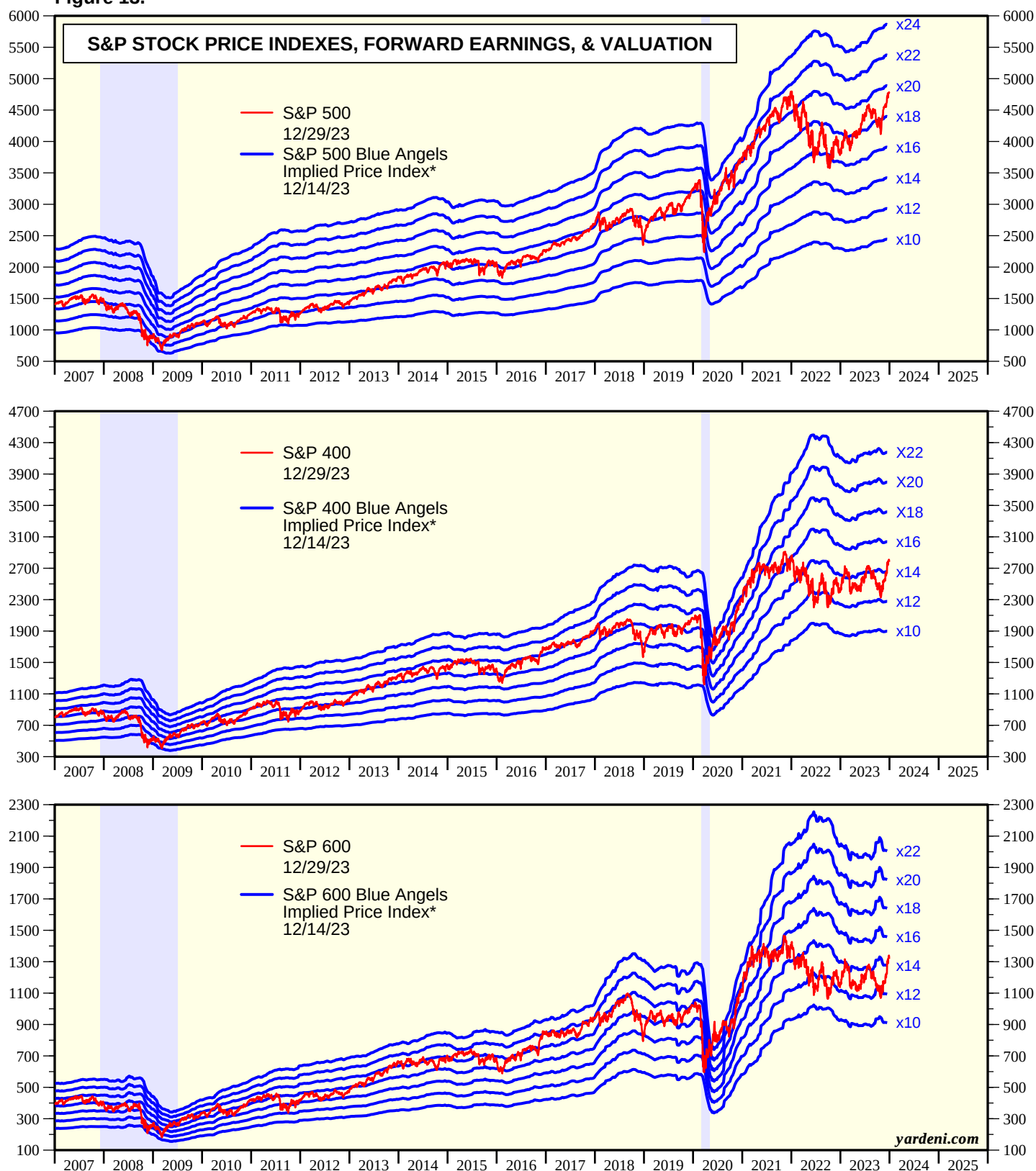
* Time-weighted average of consensus operating earnings estimates for current and next year. Monthly through March 1994, then weekly.
** From S&P until Q4-1993, then from I/B/E/S data by Refinitiv.
Source: I/B/E/S data by Refinitiv.

Figure 12.



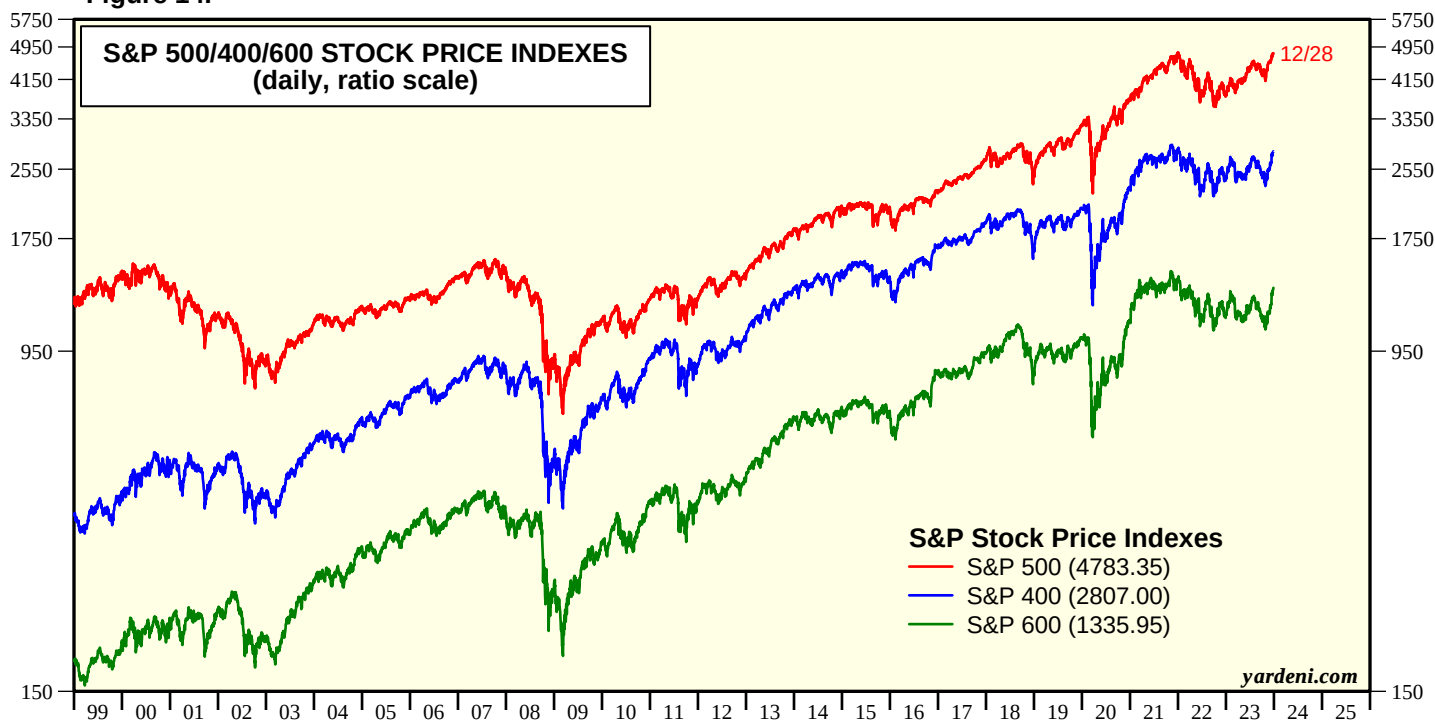
* Price divided by 52-week forward consensus expected operating earnings per share.
Source: I/B/E/S data by Refinitiv and Standard & Poor's.

Figure 13.



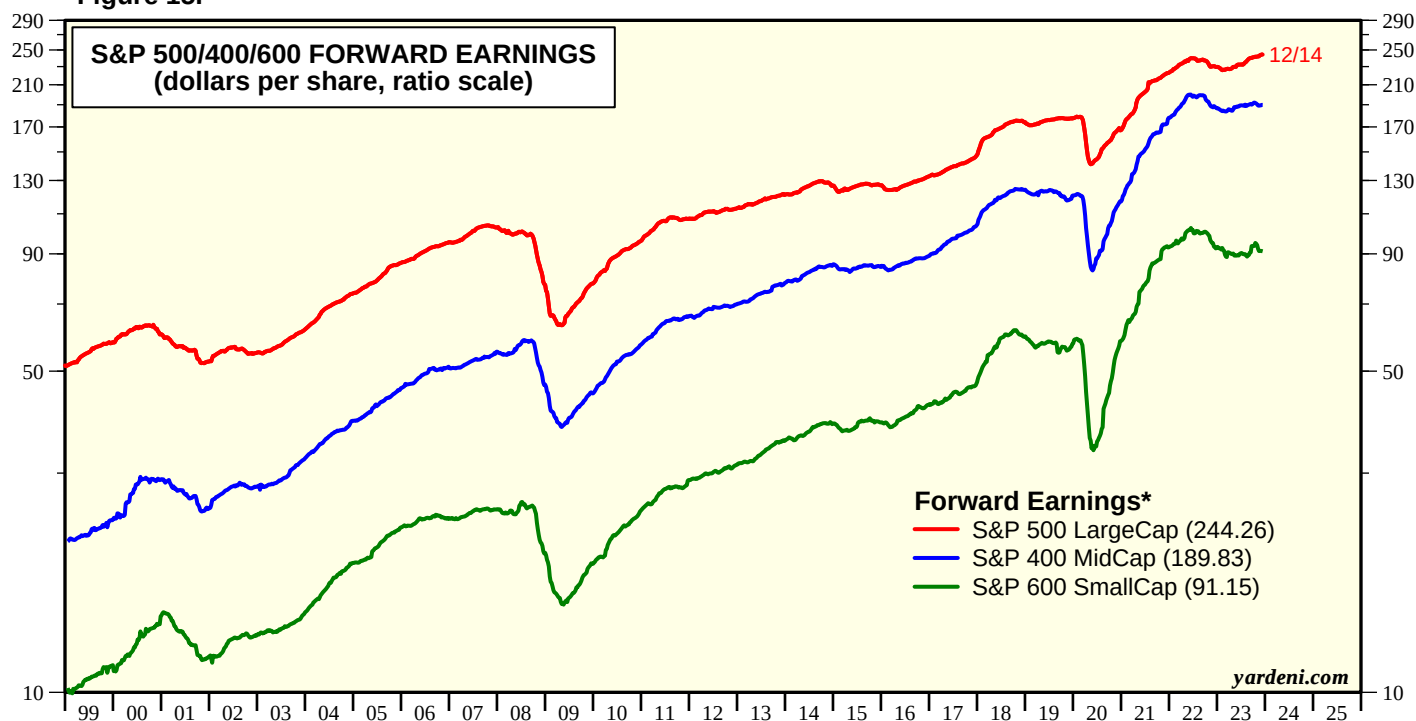
* Implied stock price index calculated using actual 52-week consensus expected forward earnings times hypothetical forward P/Es.
 Note: Shaded areas are recessions according to the National Bureau of Economic Research.
 Source: Standard & Poors and I/B/E/S data by Refinitiv.

Figure 14.



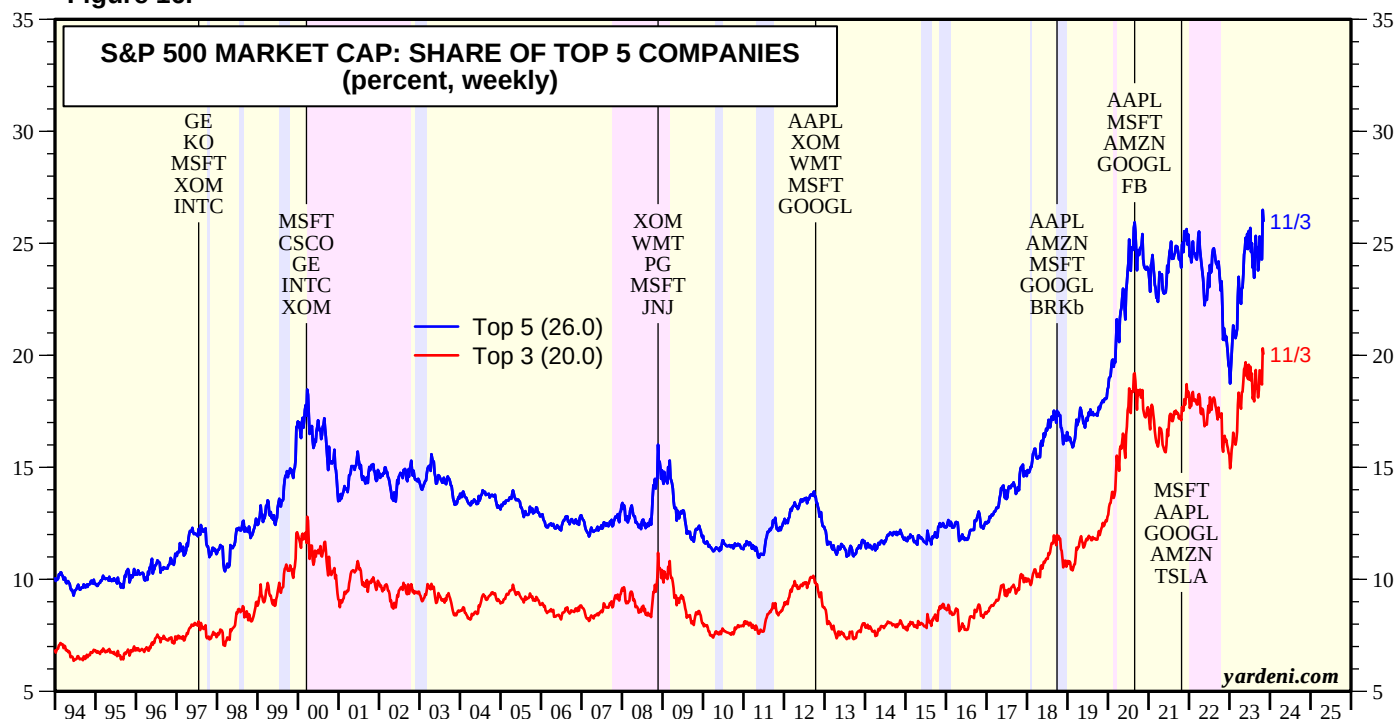
Source: Standard & Poor's.

Figure 15.



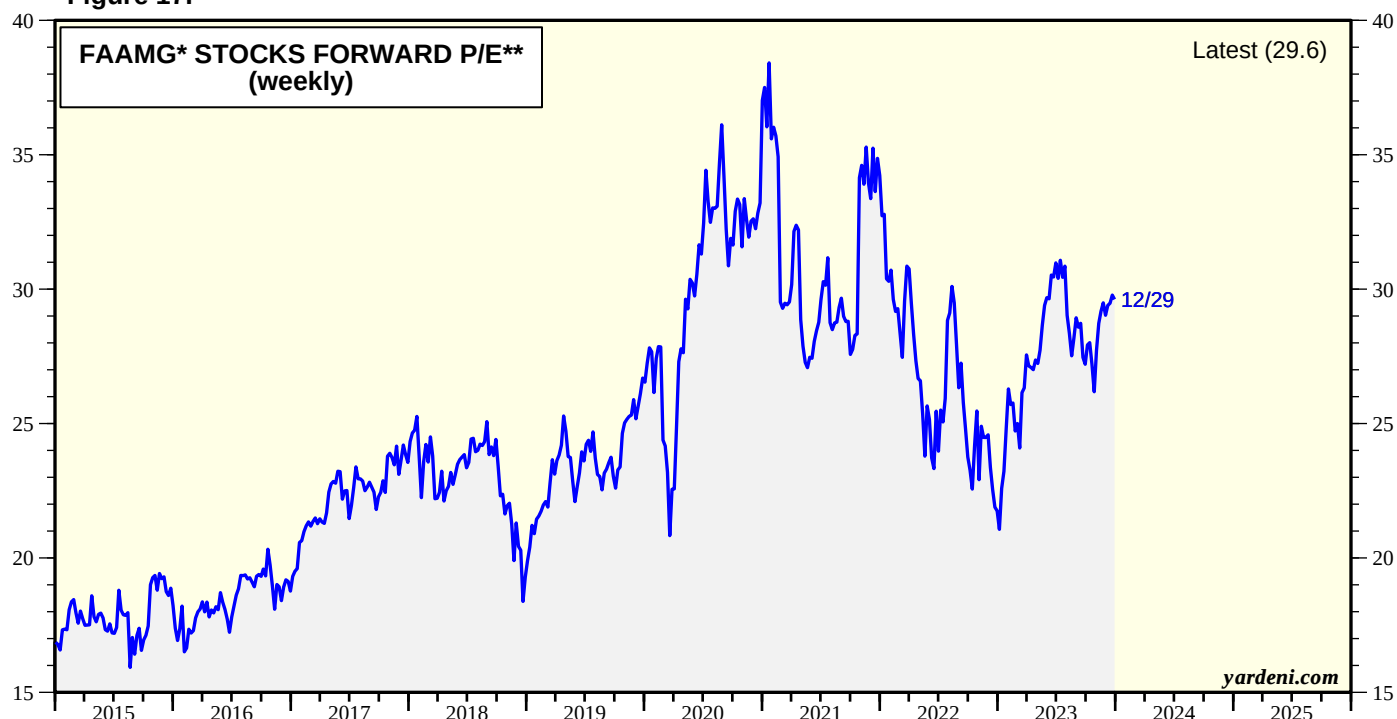
* Time-weighted average of consensus estimates for current year and next year.
Source: I/B/E/S data by Refinitiv.

Figure 16.



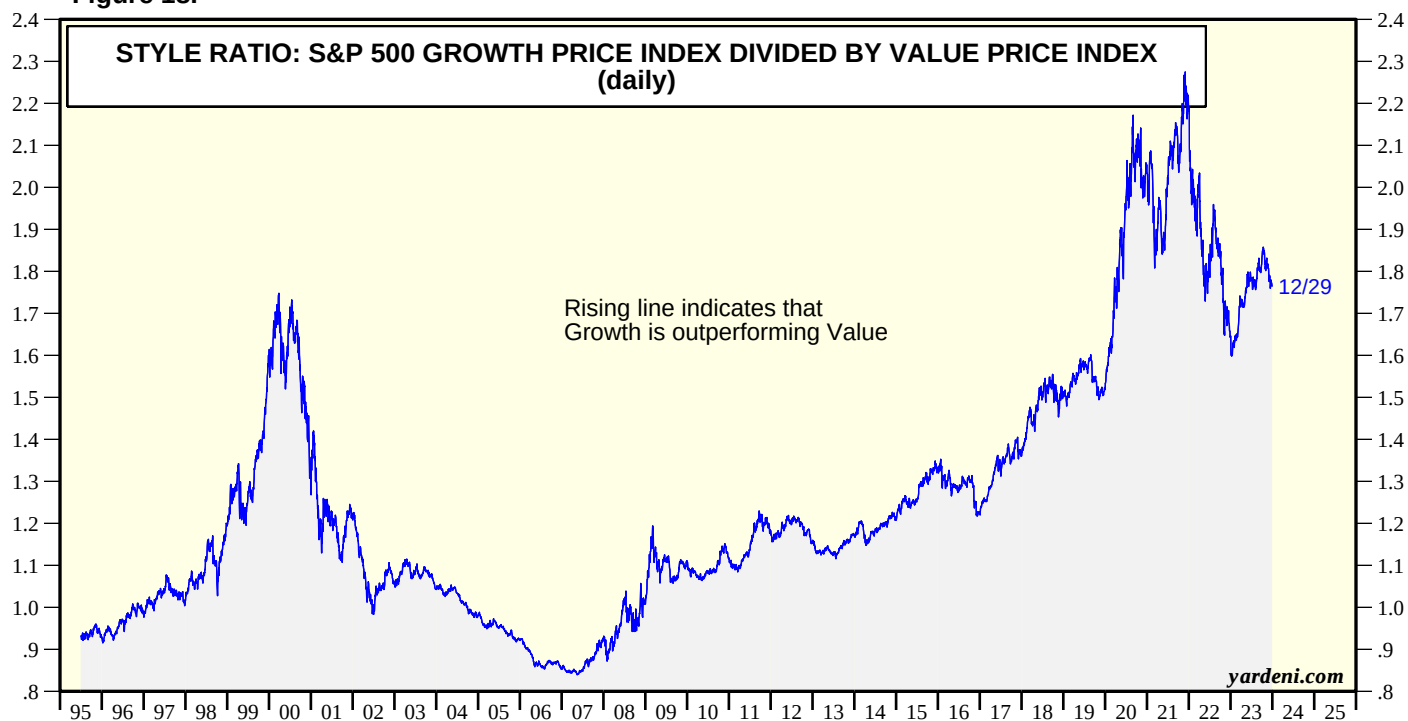
Note: Shaded red areas are S&P 500 bear market declines of 20% or more. Blue shaded areas are correction declines of 10% to less than 20%. Yellow areas are bull markets.
 Source: Yardeni Research using Standard & Poor's and I/B/E/S data by Refinitiv.

Figure 17.



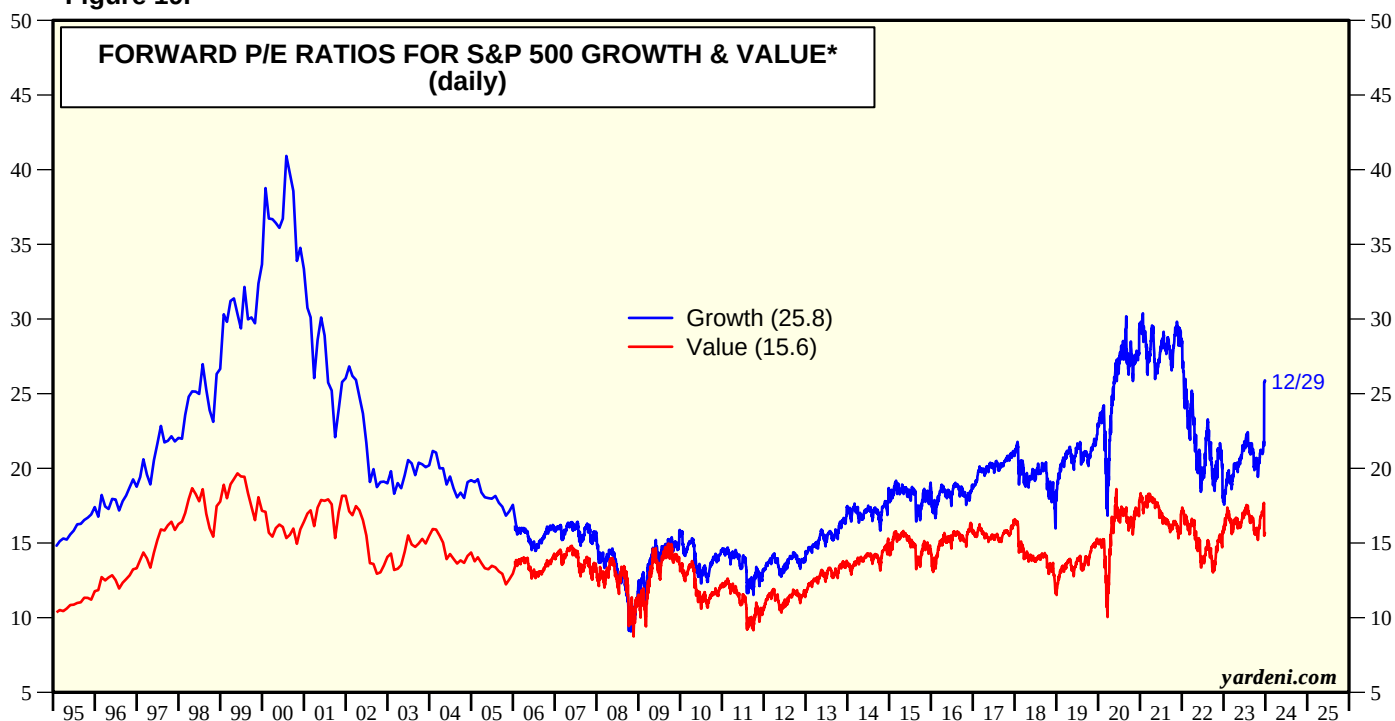
* FAAMG stocks include Facebook, Amazon, Apple, Microsoft, and Google (Alphabet). Both classes of Alphabet are included.
 ** Market cap divided by aggregate forward consensus expected operating earnings.
 Source: I/B/E/S data by Refinitiv.

Figure 18.



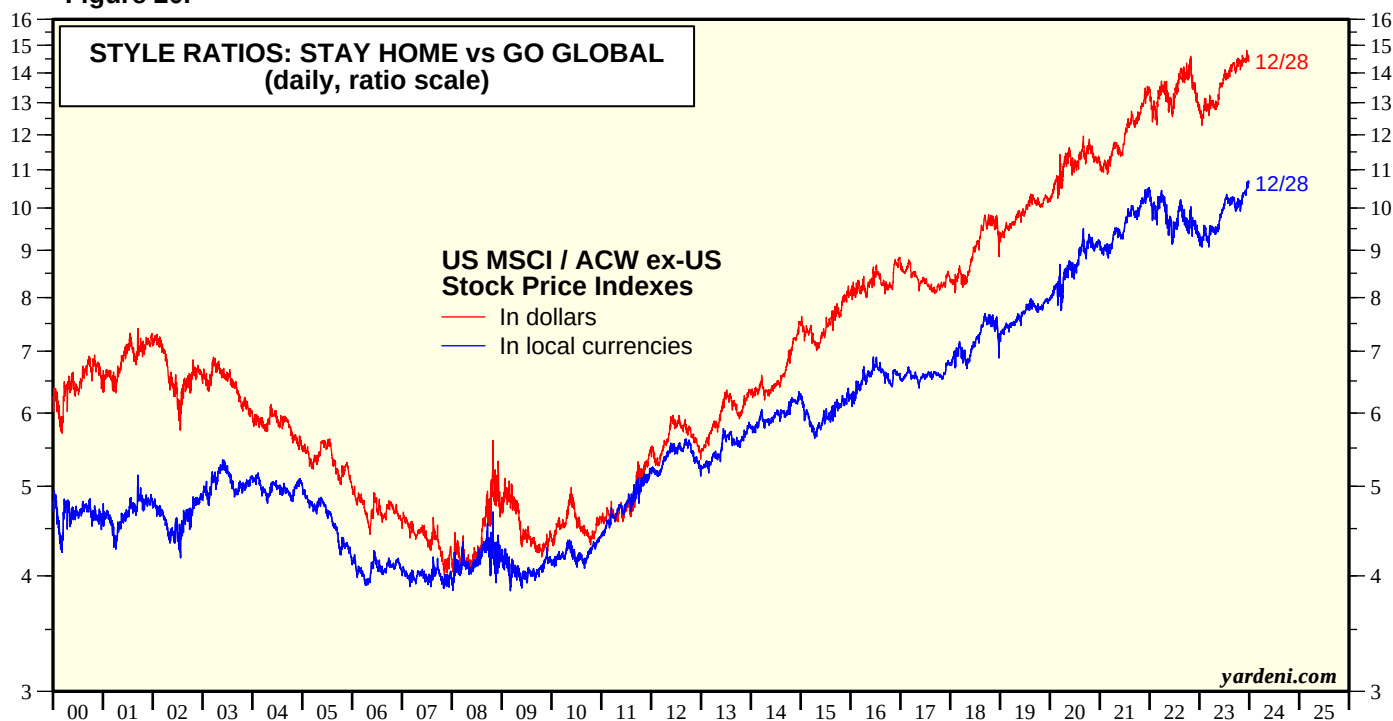
Source: Standard & Poor's and Haver Analytics.

Figure 19.



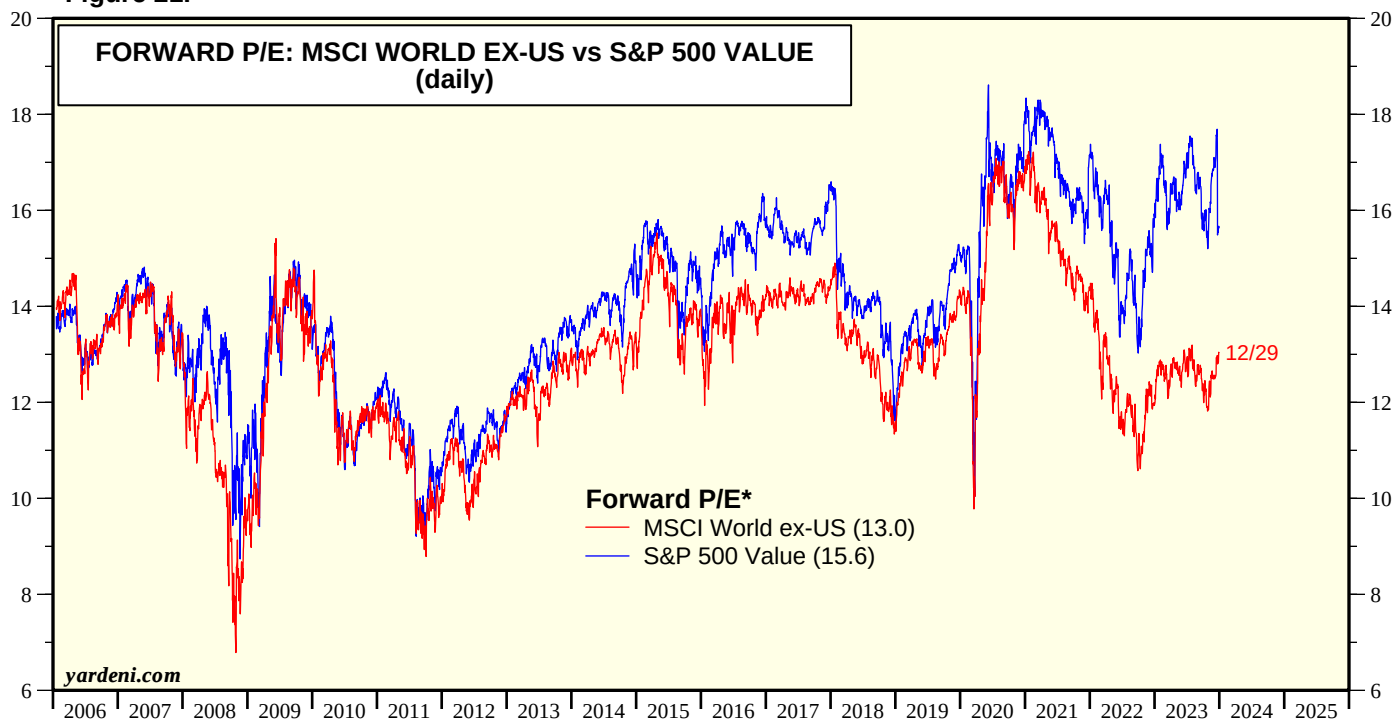
* Price divided by 12-month (52-week) forward consensus expected operating earnings per share. Monthly data through December 2005, then daily.
Source: I/B/E/S data by Refinitiv.

Figure 20.



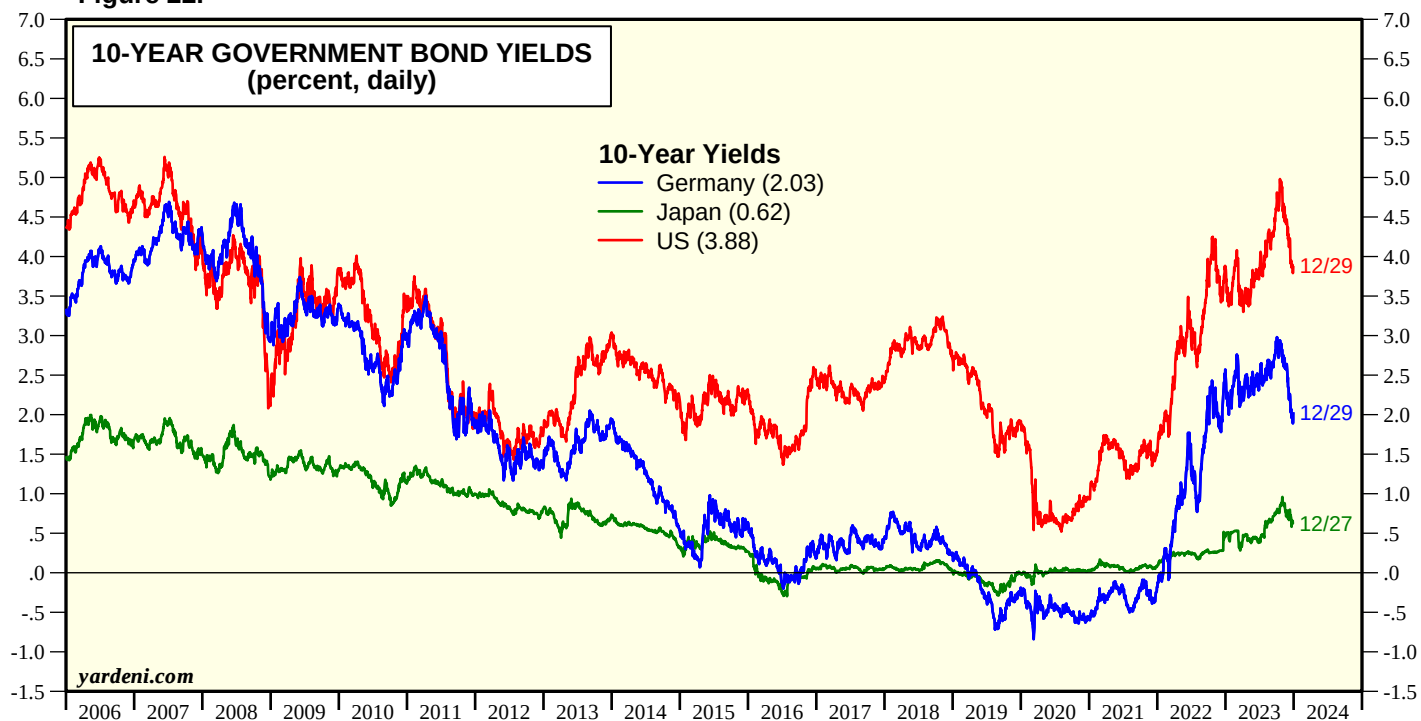
Source: MSCI.

Figure 21.



* Price divided by 12-month forward consensus expected operating earnings per share. Monthly through December 2005, weekly and daily thereafter.
Source: I/B/E/S data by Refinitiv and MSCI.

Figure 22.



Source: Haver Analytics.

Figure 23.

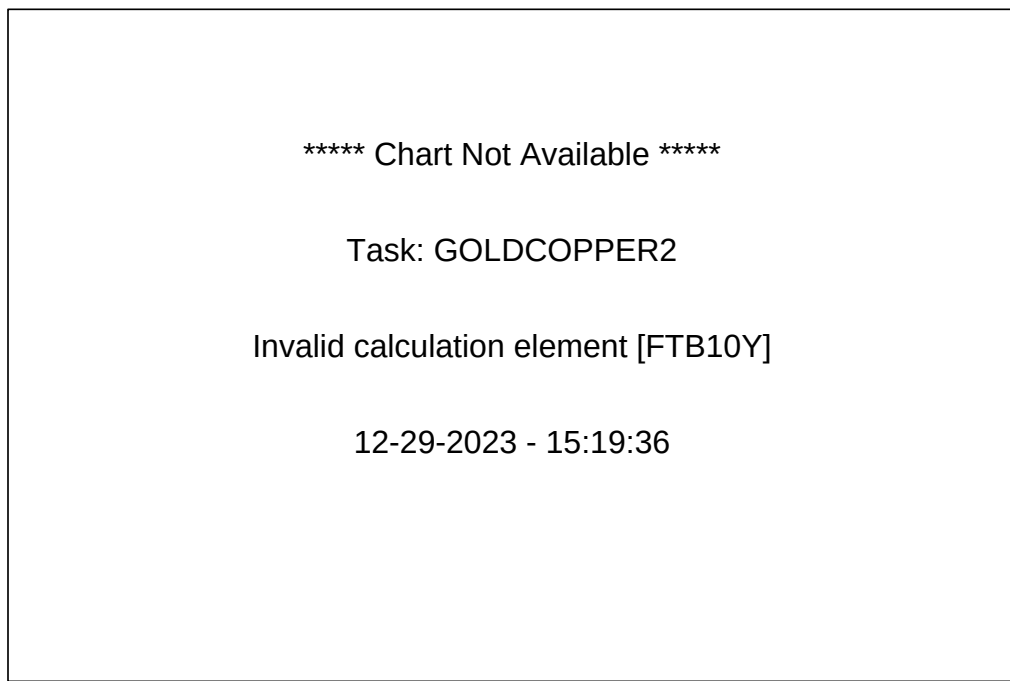
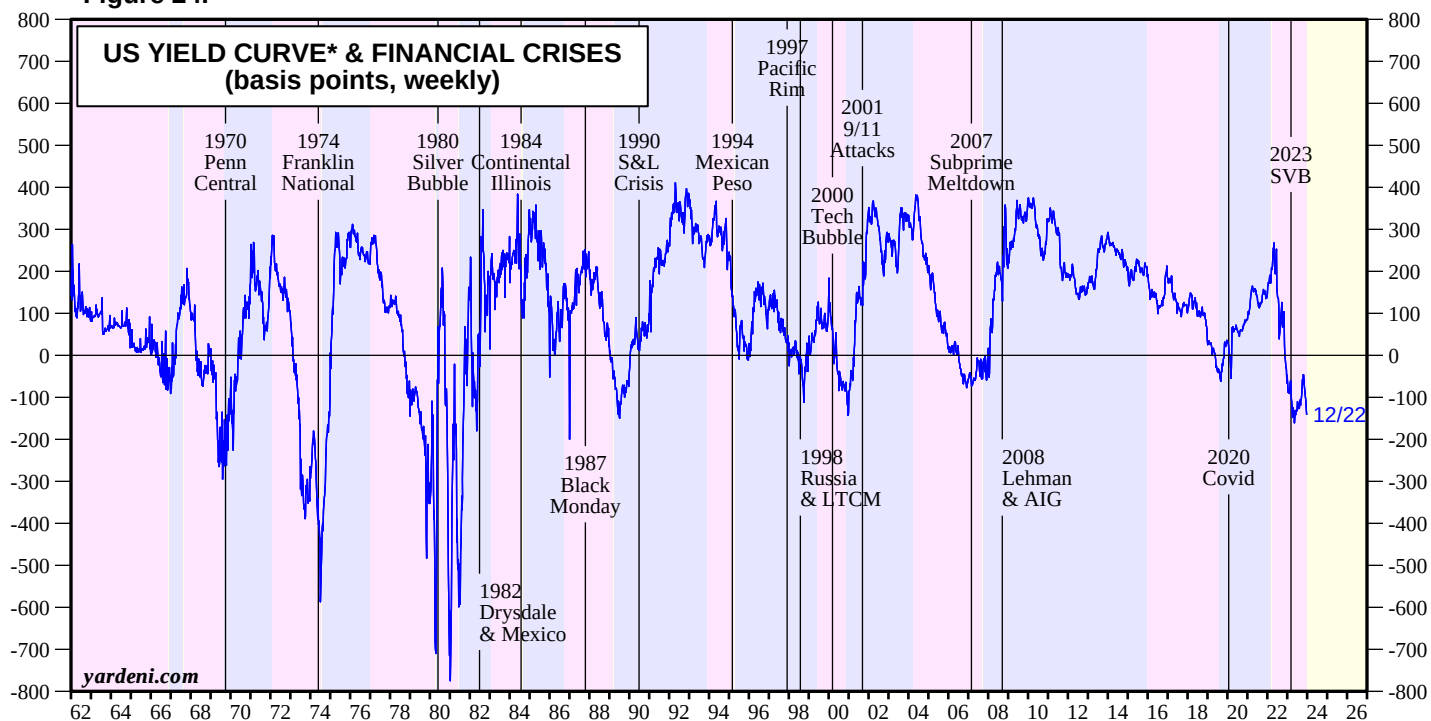


Figure 24.

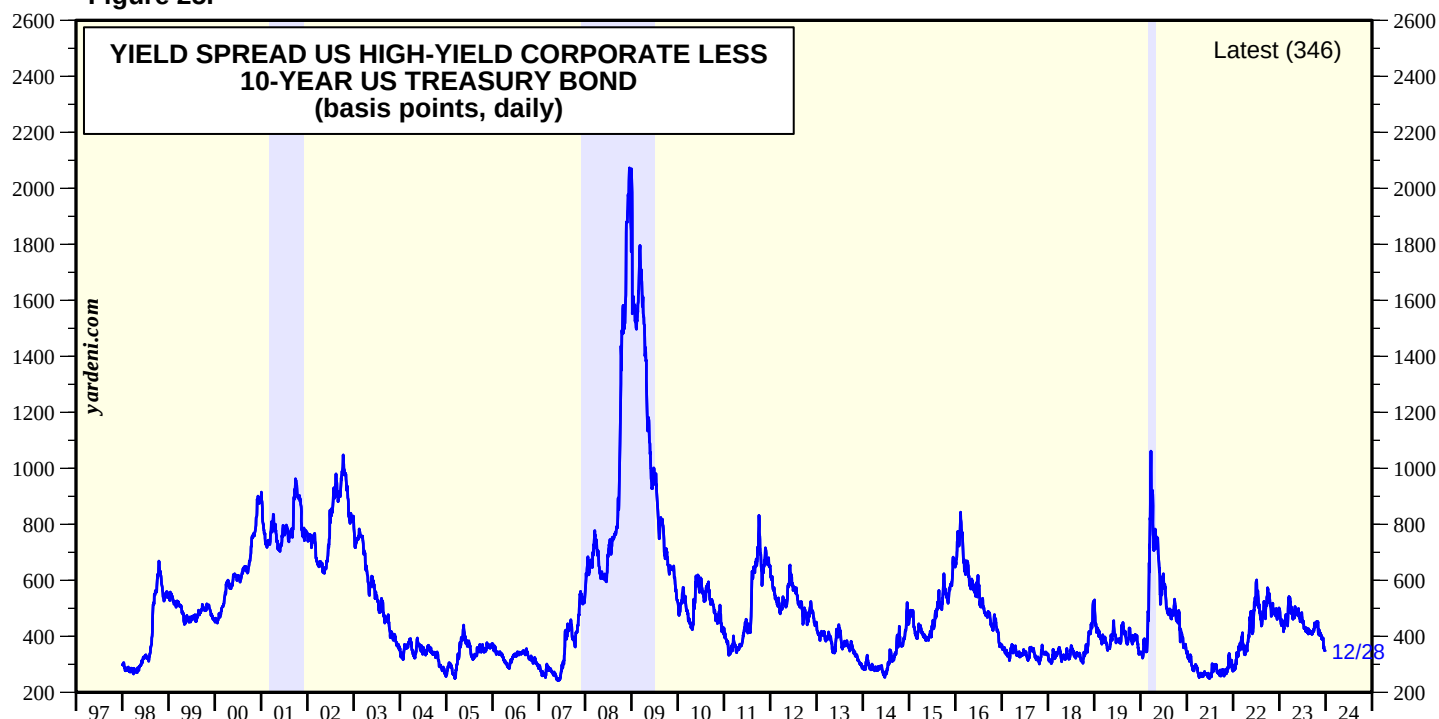


* 10-year US Treasury yield less federal funds rate.

Note: Blue shaded areas are periods of monetary easing between cyclical peaks and troughs in the federal funds rate. Red shaded areas are monetary tightening periods

Source: Federal Reserve Board.

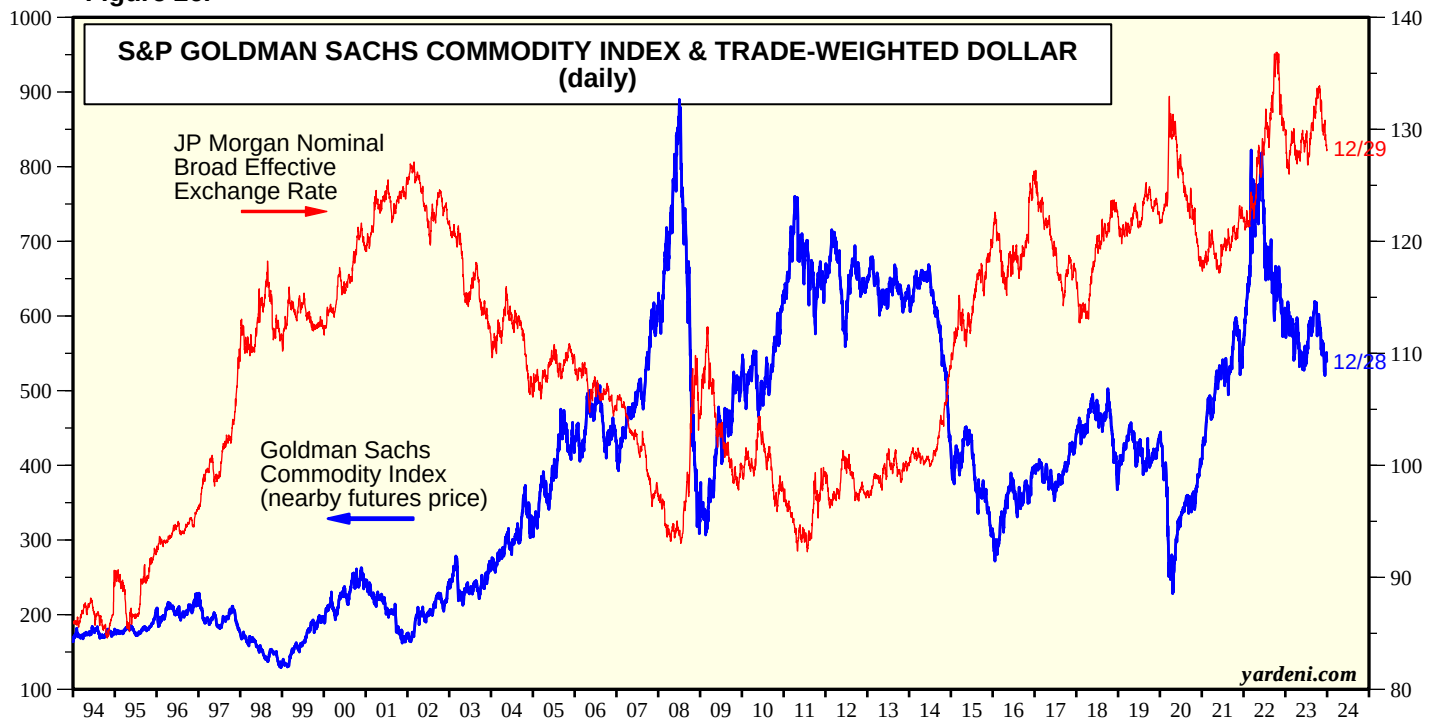
Figure 25.



Note: Shaded areas are recessions according to the National Bureau of Economic Research.

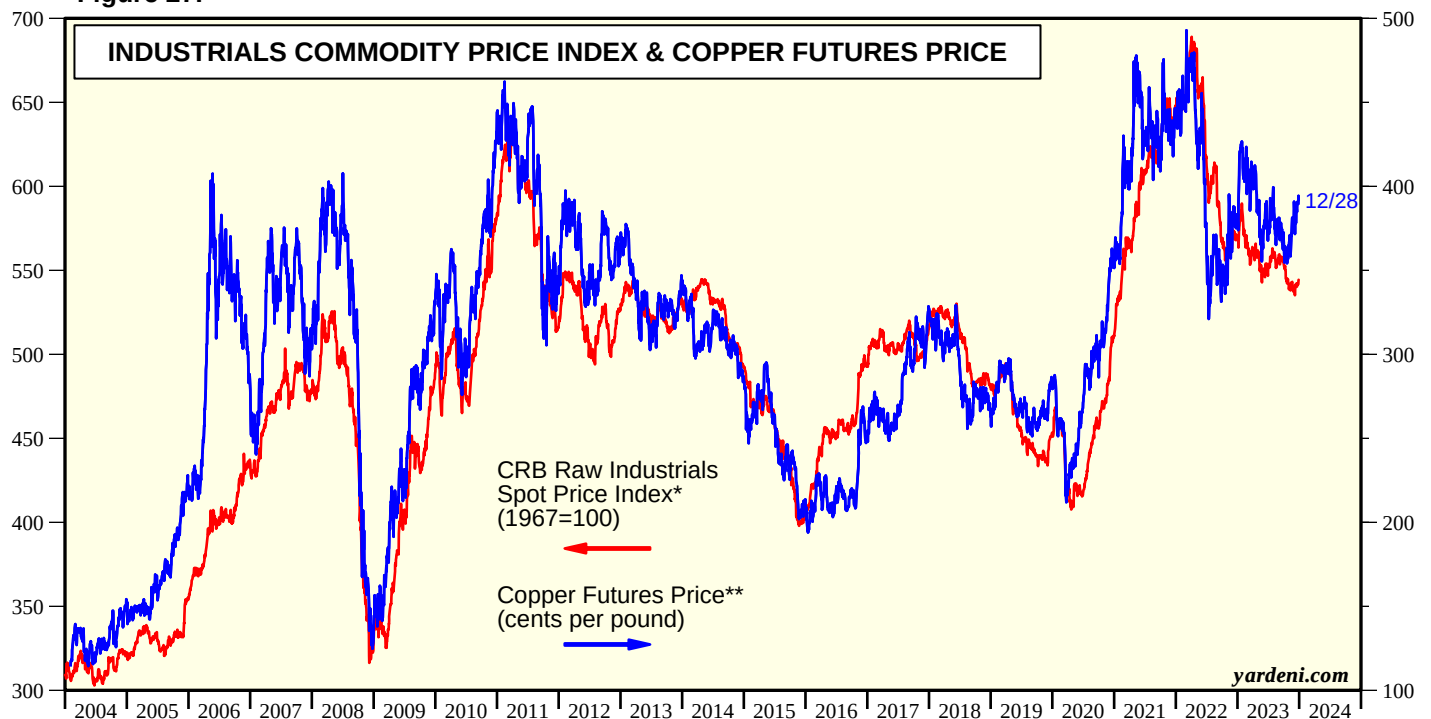
Source: Bank of America Merrill Lynch and Federal Reserve Board.

Figure 26.



Source: Standard & Poor's, JP Morgan, and Haver Analytics.

Figure 27.



* Includes copper scrap, lead scrap, steel scrap, tin, zinc, burlap, cotton, print cloth, wool tops, hides, rosin, rubber, and tallow.

** Nearby futures contract.

Source: Commodity Research Bureau and Haver Analytics.

Figure 28.

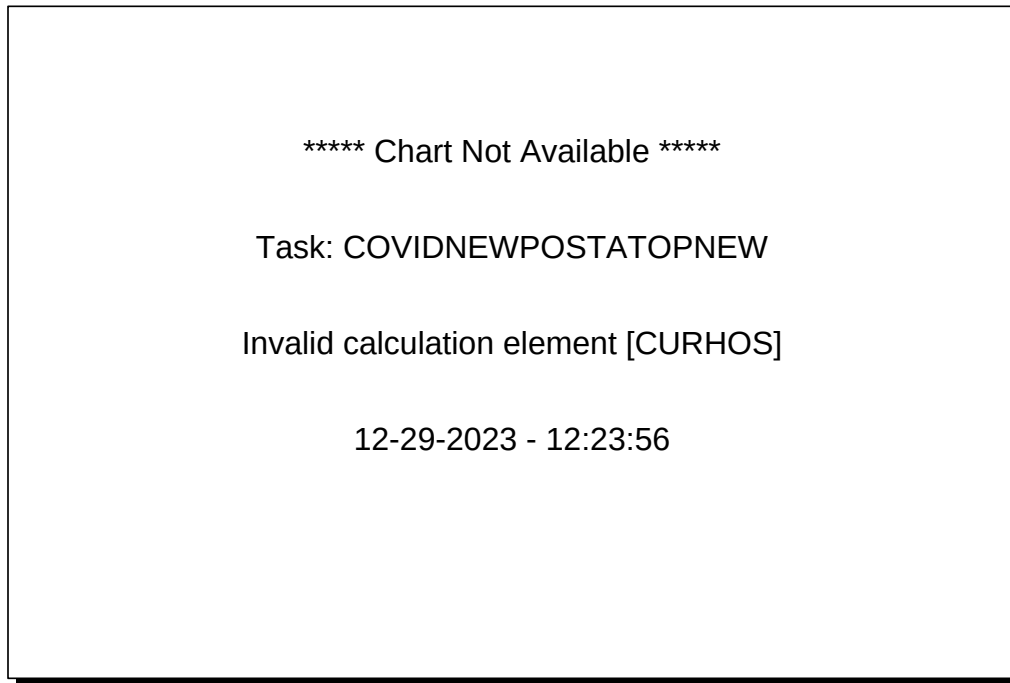
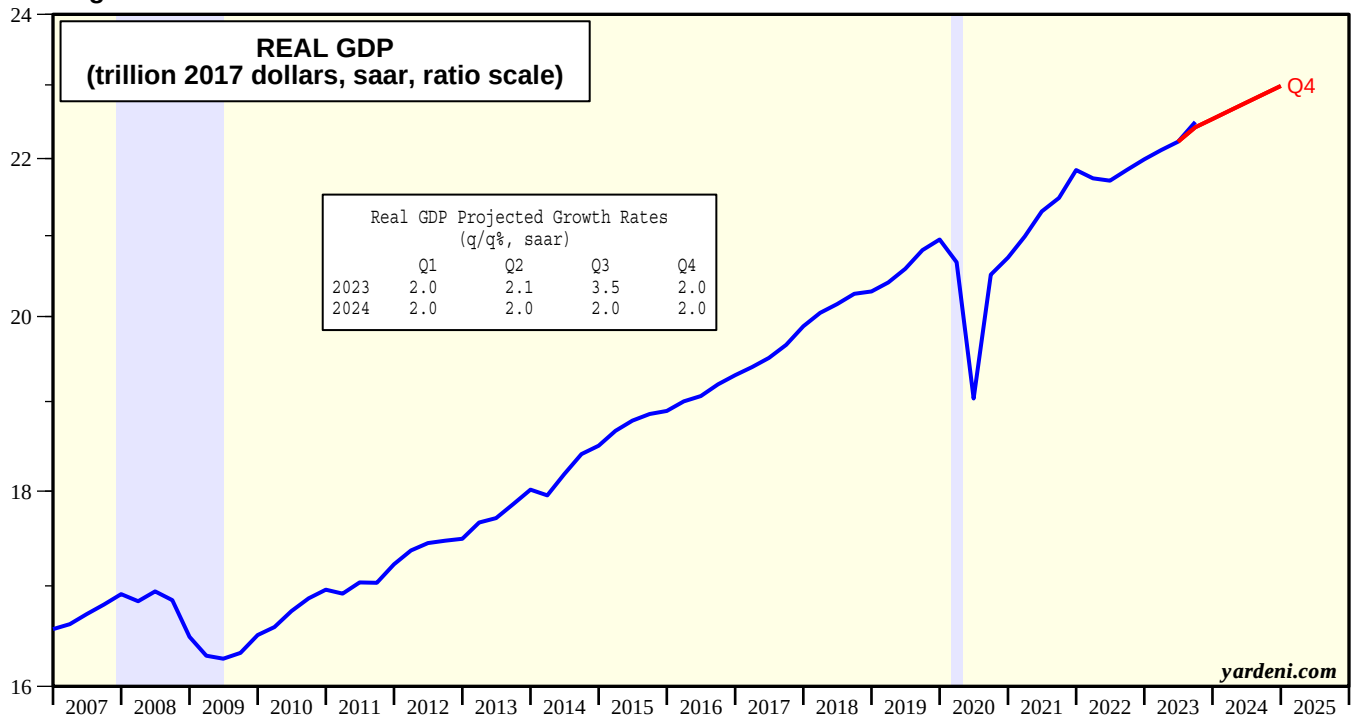
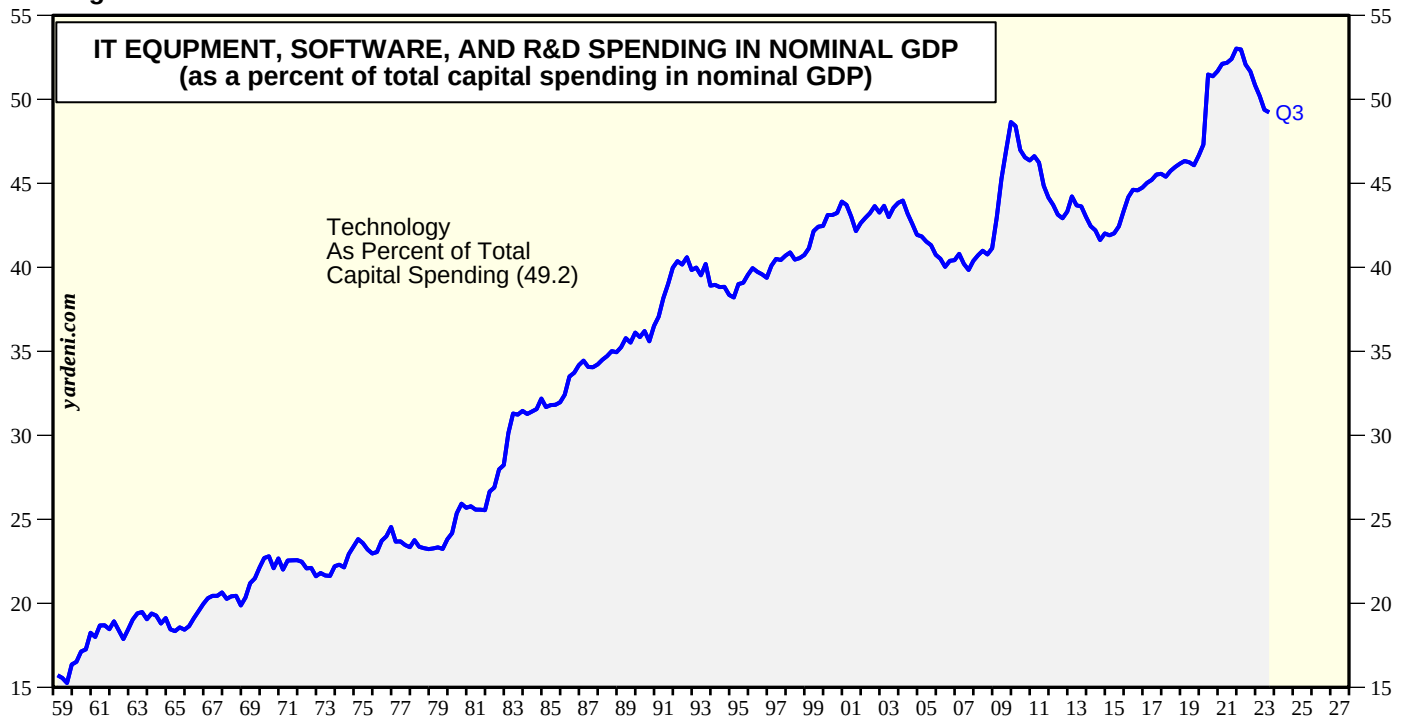


Figure 29.



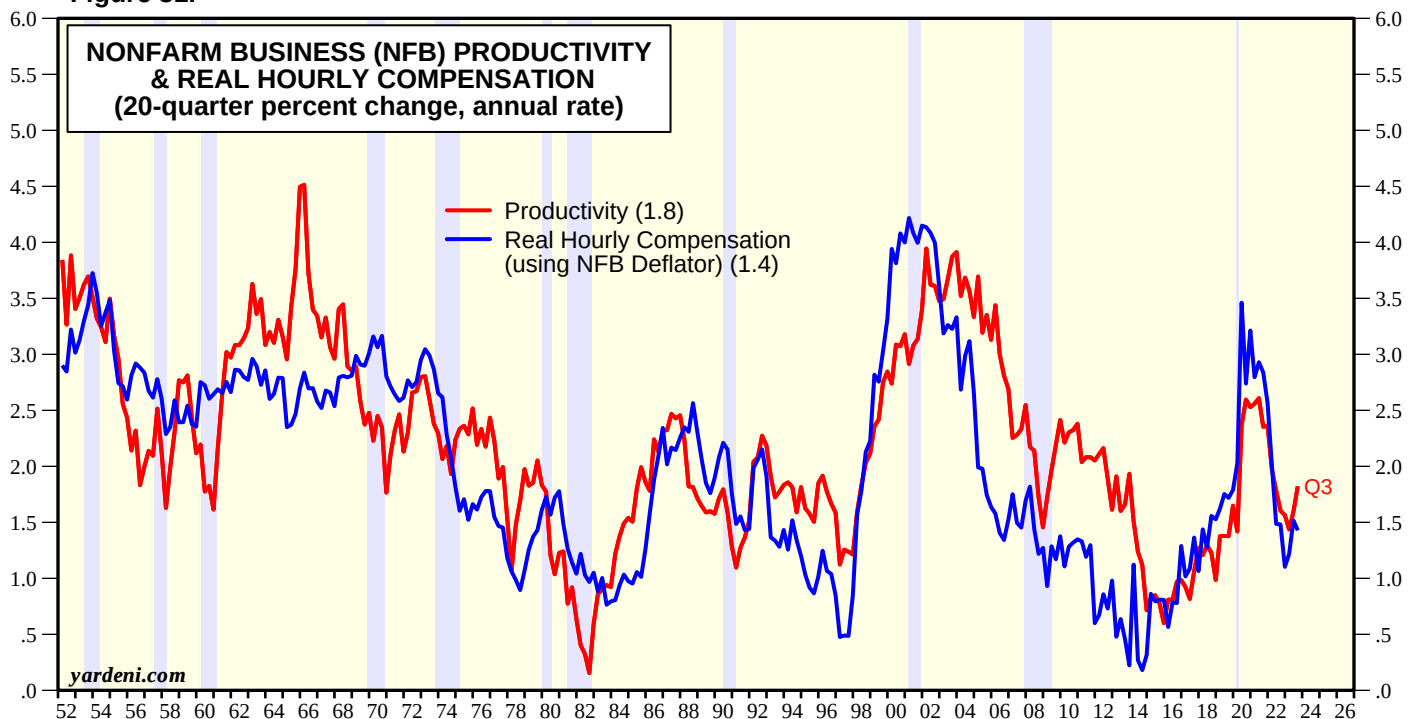
* Red line is YRI forecast for Q2-2022 through Q4-2023.
Note: Shaded areas are recessions according to the National Bureau of Economic Research.
Source: Bureau of Economic Analysis.

Figure 30.



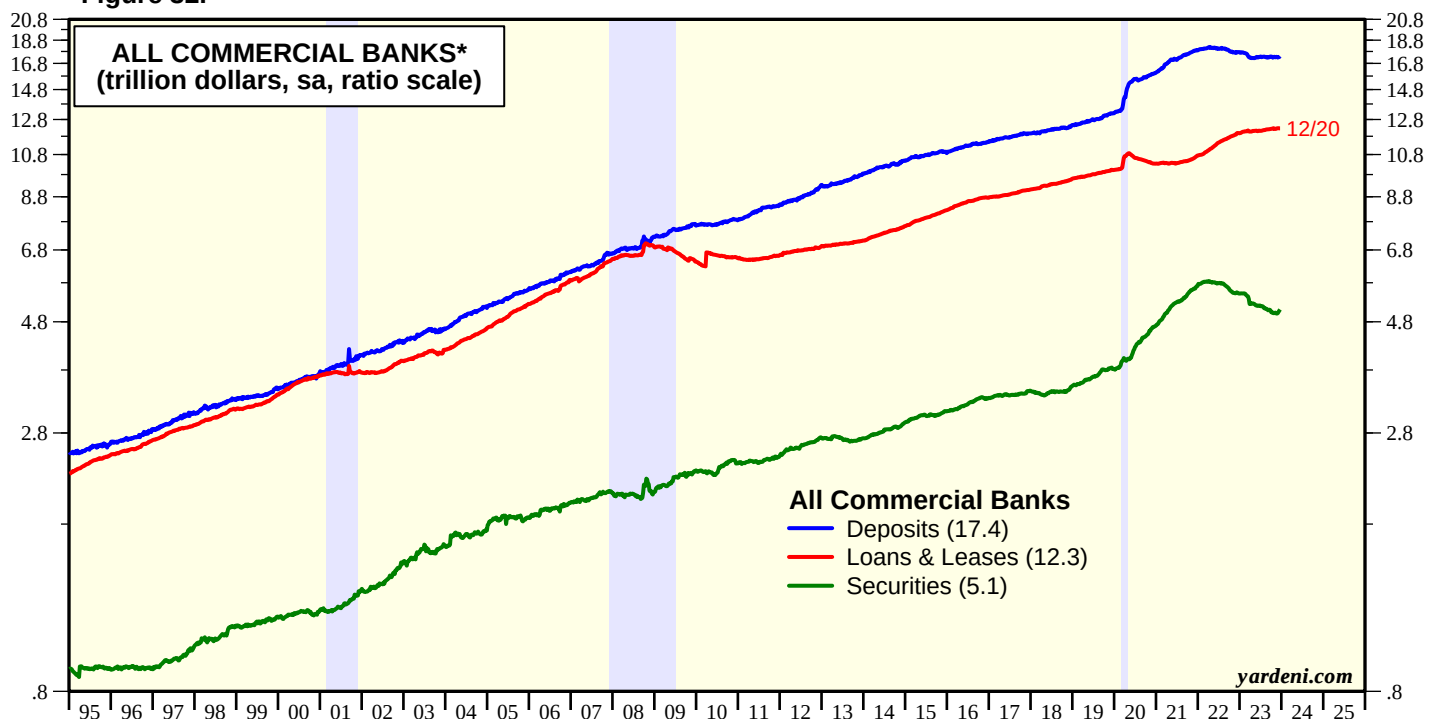
Source: Bureau of Economic Analysis.

Figure 31.



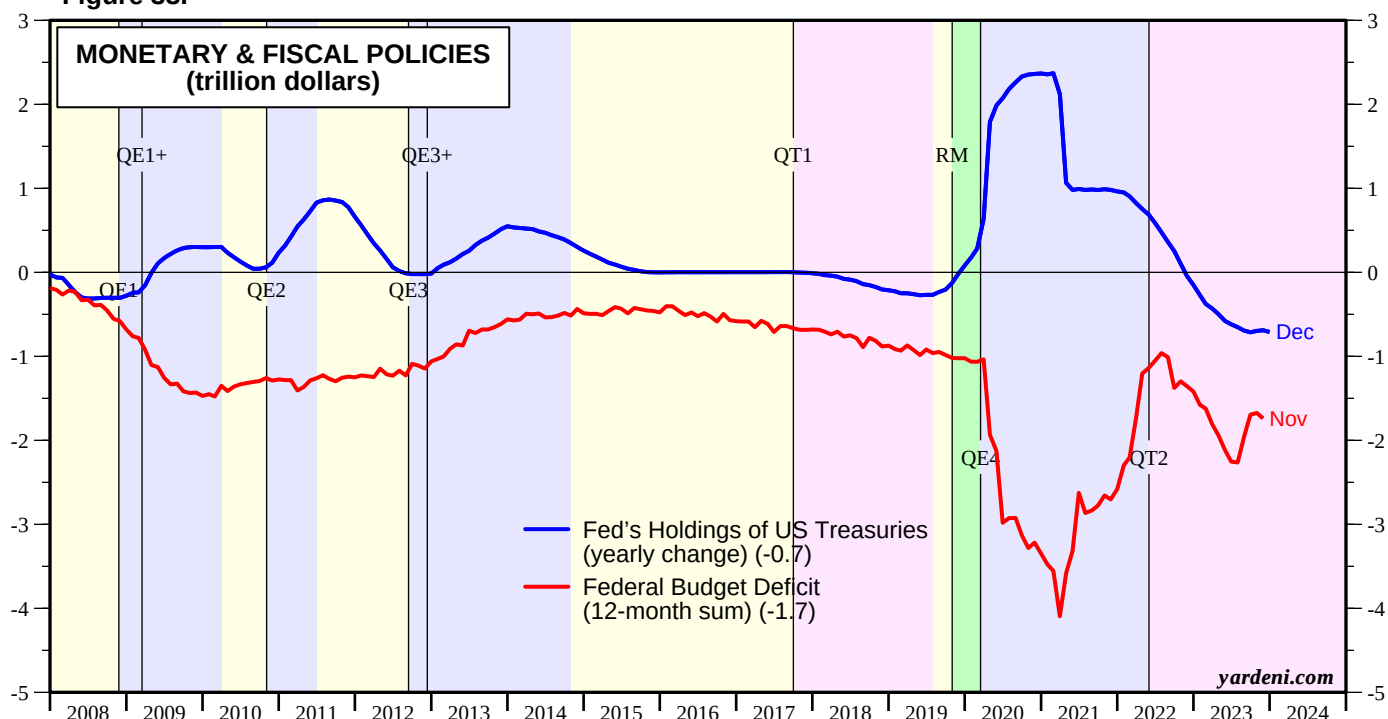
Note: Shaded areas are recessions according to the National Bureau of Economic Research.
Source: Bureau of Labor Statistics.

Figure 32.



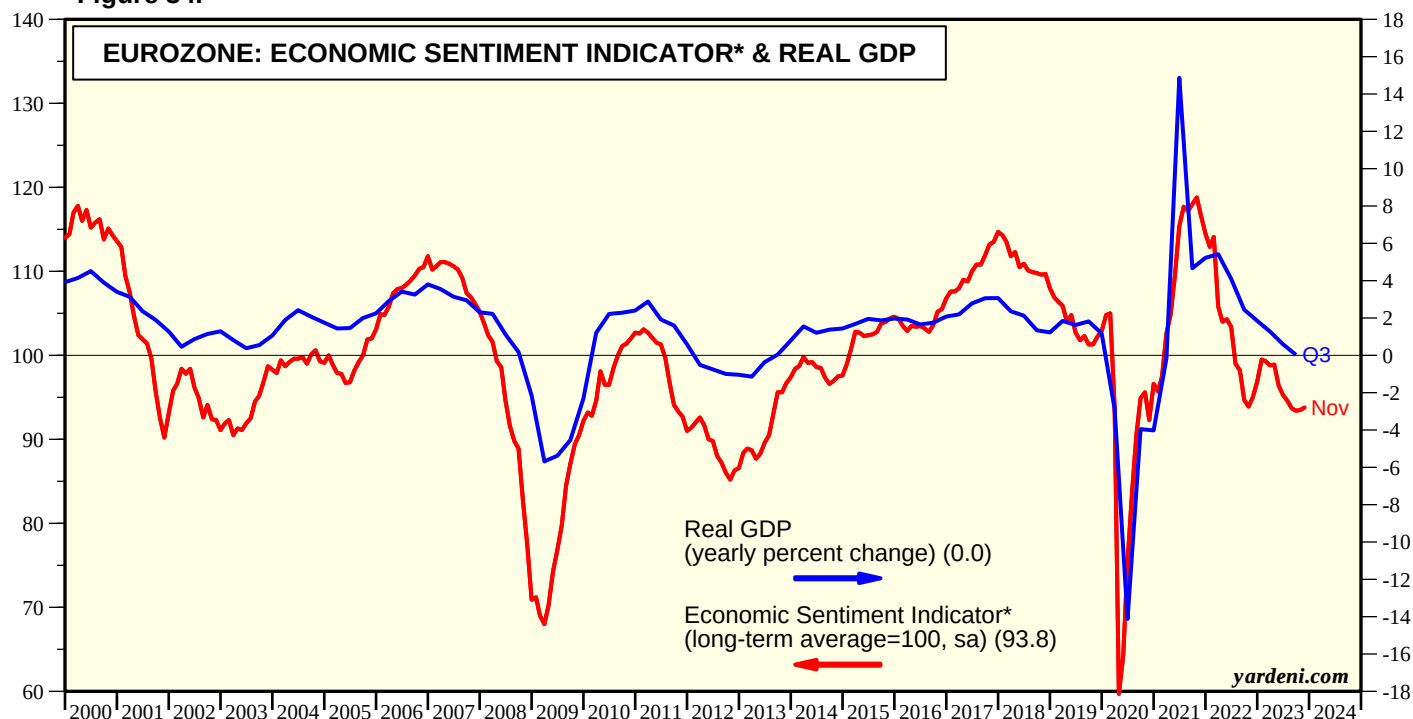
* Includes domestically chartered commercial banks and foreign-related ones.
Note: Shaded areas are recessions according to the National Bureau of Economic Research.
Source: Federal Reserve Board.

Figure 33.



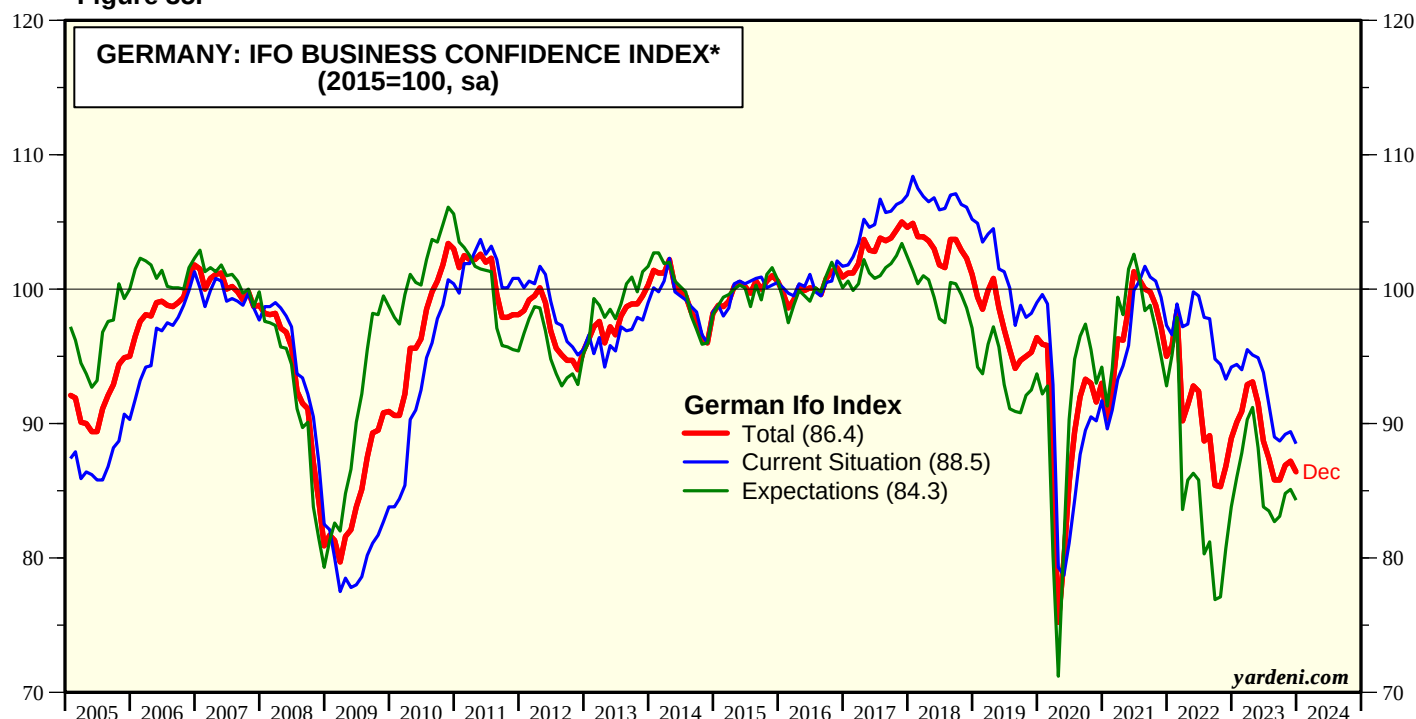
Note: QE1 (11/25/08-3/31/10) = \$1.24tn in mortgage securities; expanded (3/16/09-3/31/10) = \$300bn in Treasuries. QE2 (11/3/10-6/30/11) = \$600bn in Treasuries. QE3 (9/13/12-10/29/14) = \$40bn/month in mortgage securities (open ended); expanded (12/12/12-10/1/14) = \$45bn/month in Treasuries. QT1 (10/1/17-7/31/19) = balance sheet pared by \$675bn. RM (11/1/19-3/15/20) = reserve management, \$60bn/month in Treasury bills. QE4 (3/16/20-infinity). QT2 = balance sheet pared by \$95 billion per month. Source: Federal Reserve Board and US Treasury Department.

Figure 34.



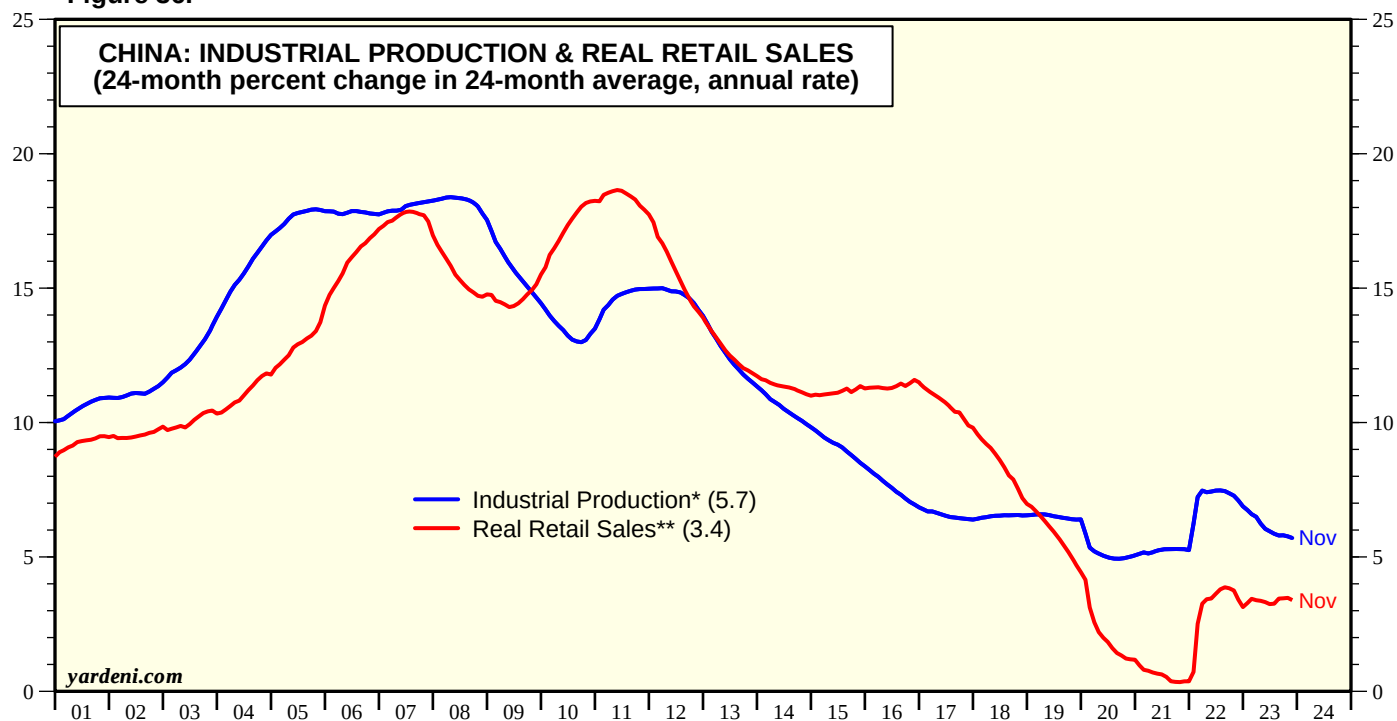
* The overall economic sentiment indicator (ESI) is derived from the industrial (weight 40%), service (30%), consumer (20%), construction (5%), and retail trade (5%) confidence indicators.
Source: European Commission and Haver Analytics.

Figure 35.



* Ifo introduced new series, which include services for the first time, drastically reducing the weight of the manufacturing sector within the measures.
Source: Ifo-Institut Fur Wirtschaftsforschung.

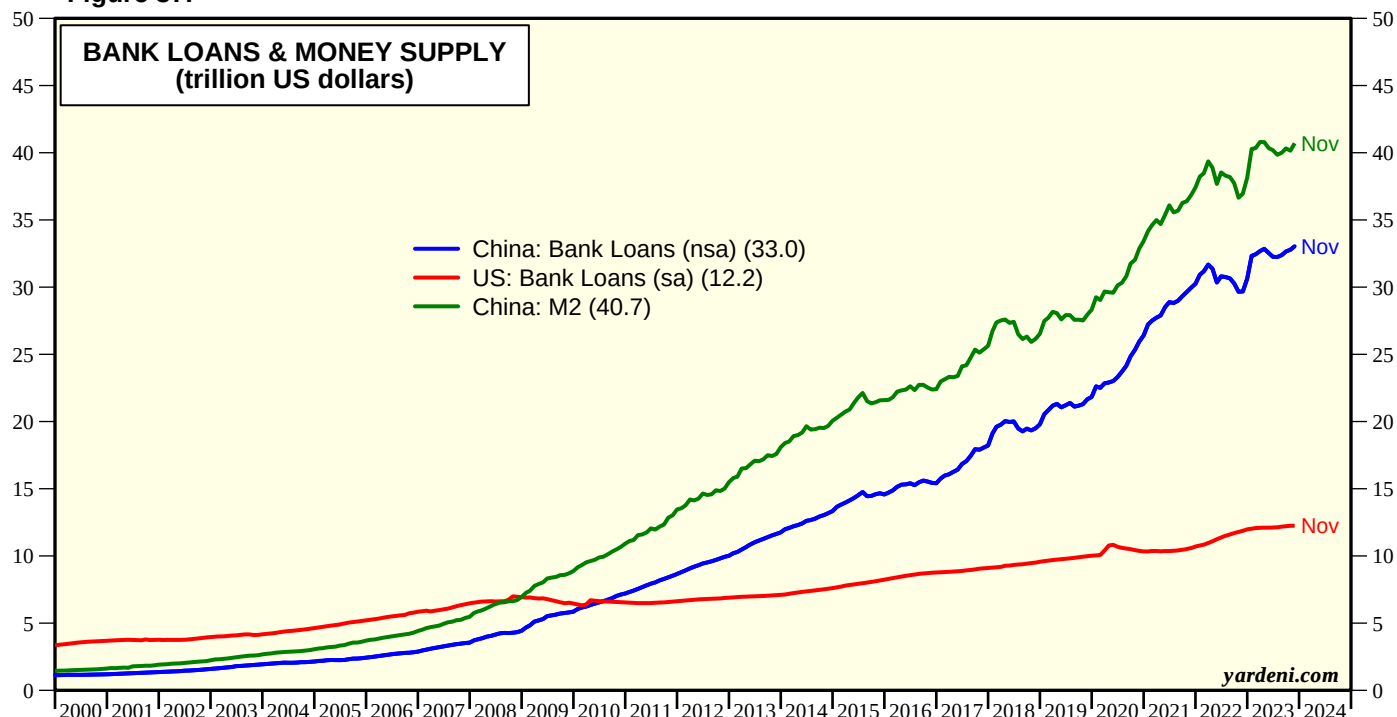
Figure 36.



* Value added basis.

** Using nominal retail sales divided by CPI.
 Source: China National Bureau of Statistics.

Figure 37.



Source: Federal Reserve Board and People's Bank of China.

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