

Stock Market Briefing: Valuation Models Misery Index & Rule of 20

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thinking outside the box

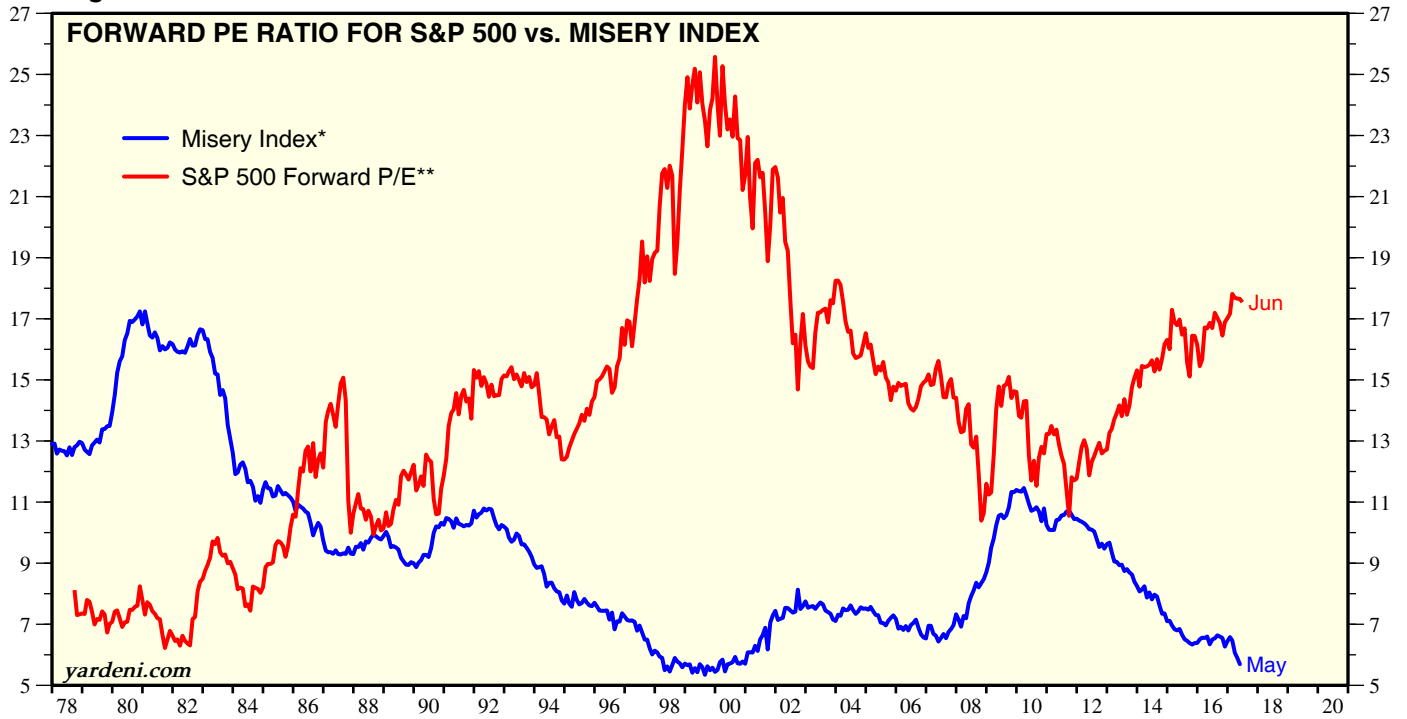
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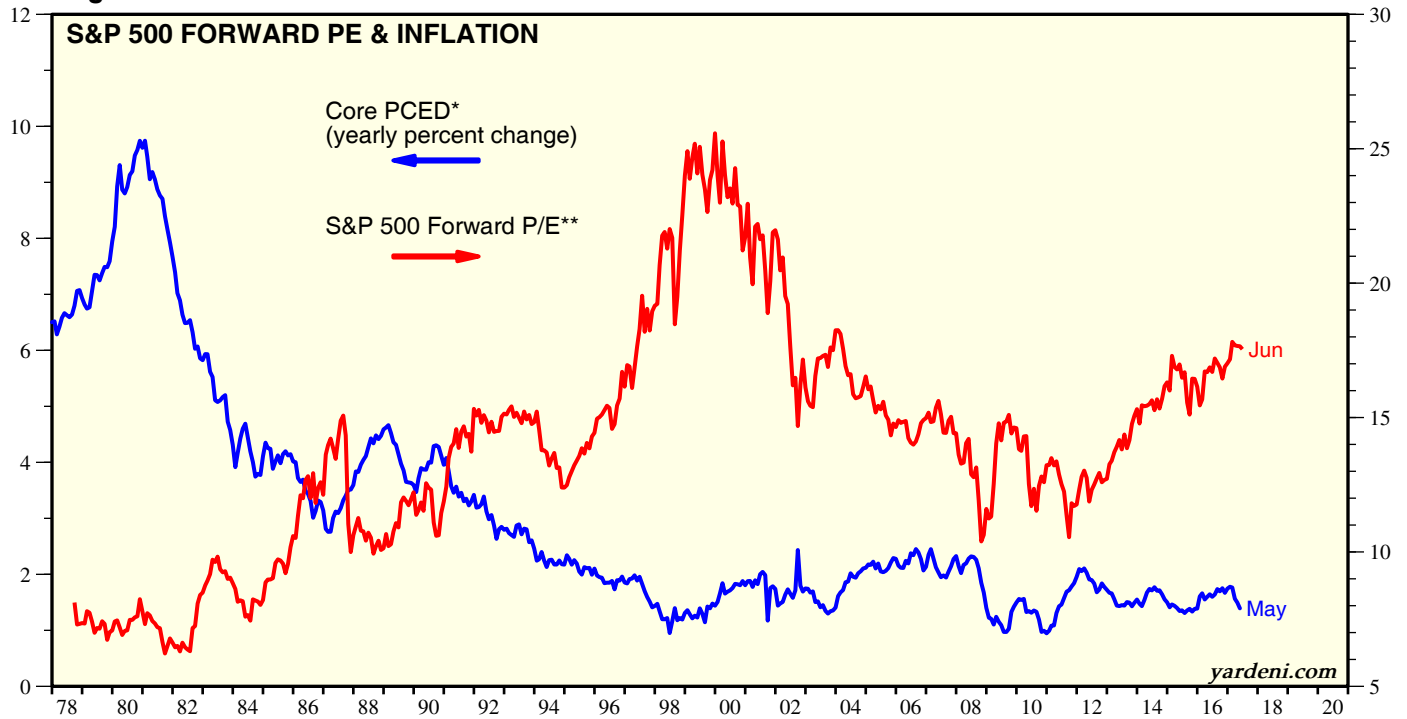
Misery Index

Figure 1.



* Yearly percent change in core personal consumption expenditures deflator plus unemployment rate.
 ** Price divided by 12-month forward consensus expected operating earnings per share.
 Source: Bureau of Economic Analysis, Bureau of Labor Statistics, and Thomson Reuters I/B/E/S.

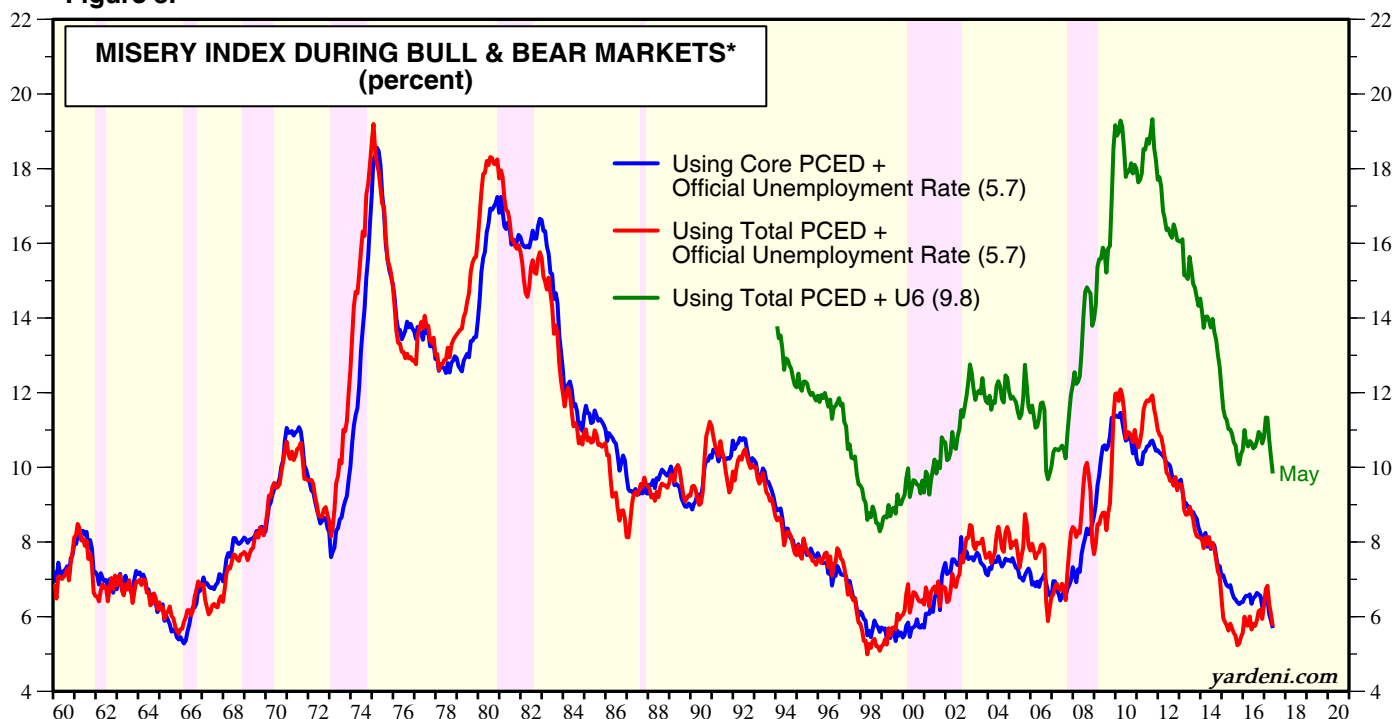
Figure 2.



* Personal consumption expenditures deflator excluding food & energy.
 ** Price divided by 12-month forward consensus expected operating earnings per share.
 Source: US Department of Commerce, Bureau of Economic Analysis and US Department of Labor, Bureau of Labor Statistics, and Thomson Reuters I/B/E/S.

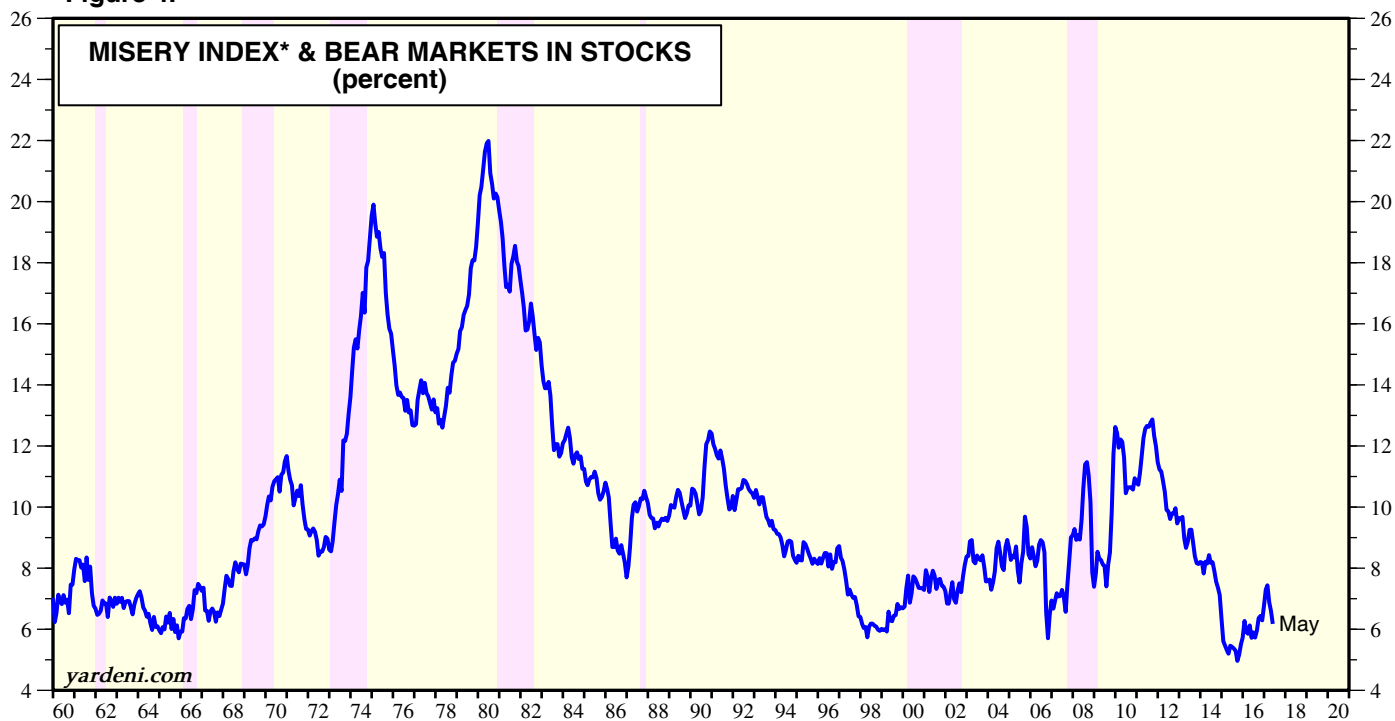
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Figure 3.



* Unemployment rate plus yearly percent change in personal consumption expenditures deflators.
 Note: Shaded red areas denote S&P 500 bear market declines of 20% or more. Yellow areas show bull markets.
 Source: US Department of Commerce, Bureau of Economic Analysis and US Department of Labor, Bureau of Labor Statistics.

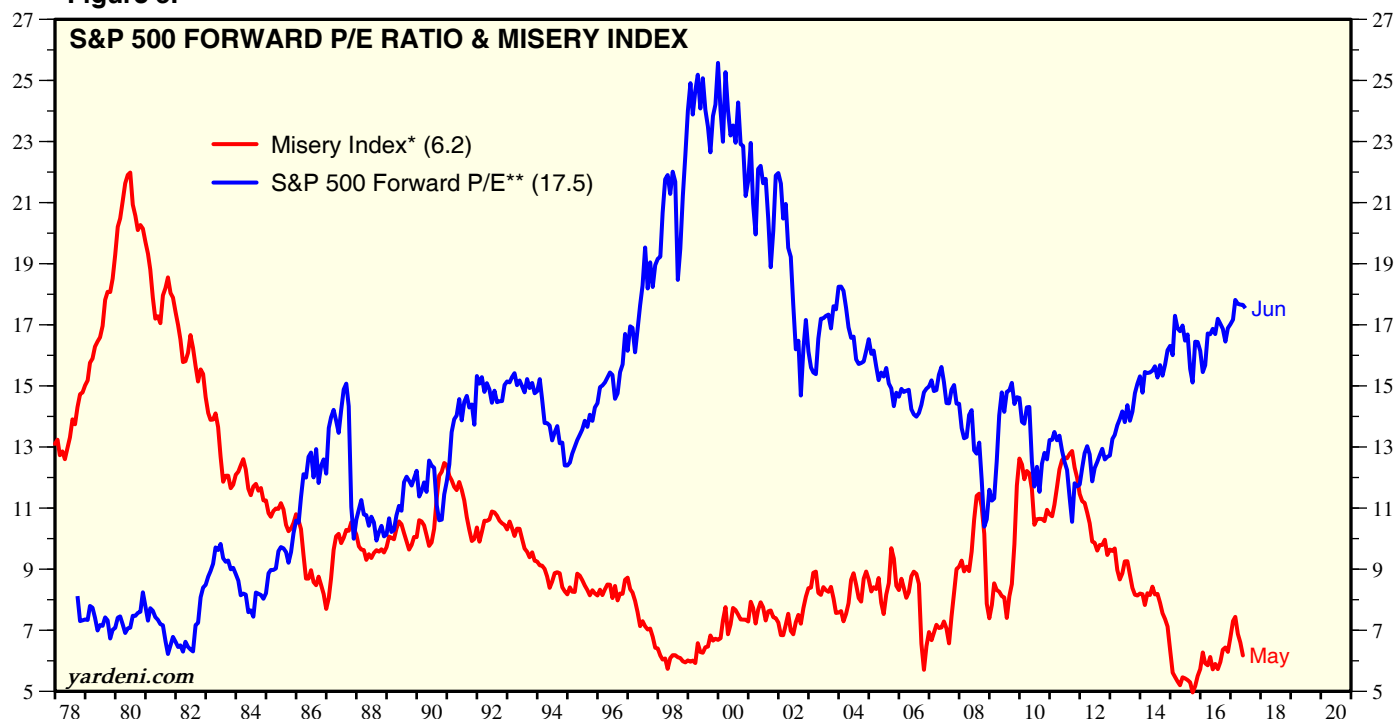
Figure 4.



* Unemployment rate plus yearly percent change in consumer price index.
 Note: Shaded red areas denote S&P 500 bear market declines of 20% or more. Yellow areas show bull markets.
 Source: US Department of Commerce, Bureau of Economic Analysis and US Department of Labor, Bureau of Labor Statistics.

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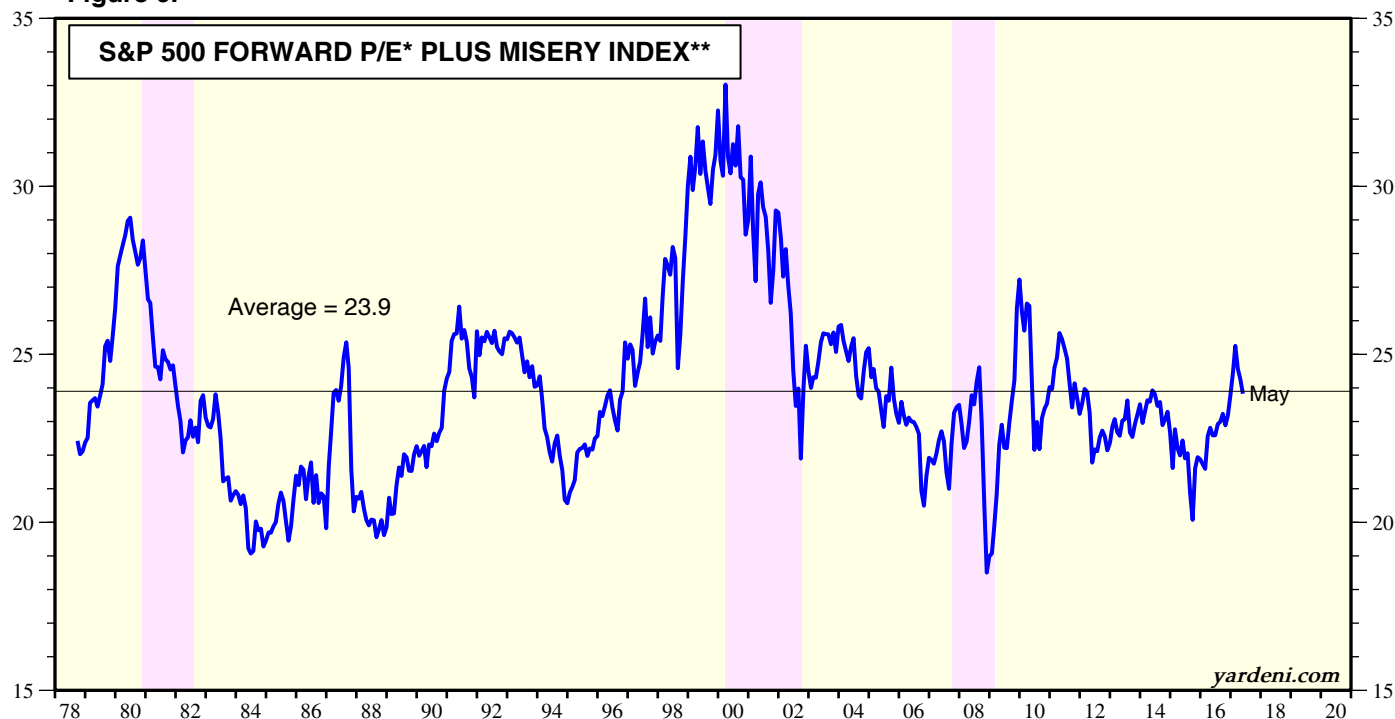
Figure 5.



* Unemployment rate plus yearly percent change in consumer price index.

** Average monthly S&P 500 stock price index divided by S&P 500 12-month forward consensus expected operating earnings per share.
Source: Bureau of Economic Analysis, Bureau of Labor Statistics, and Thomson Reuters I/B/E/S.

Figure 6.



* Average monthly S&P 500 stock price index divided by S&P 500 12-month forward consensus expected operating earnings per share.

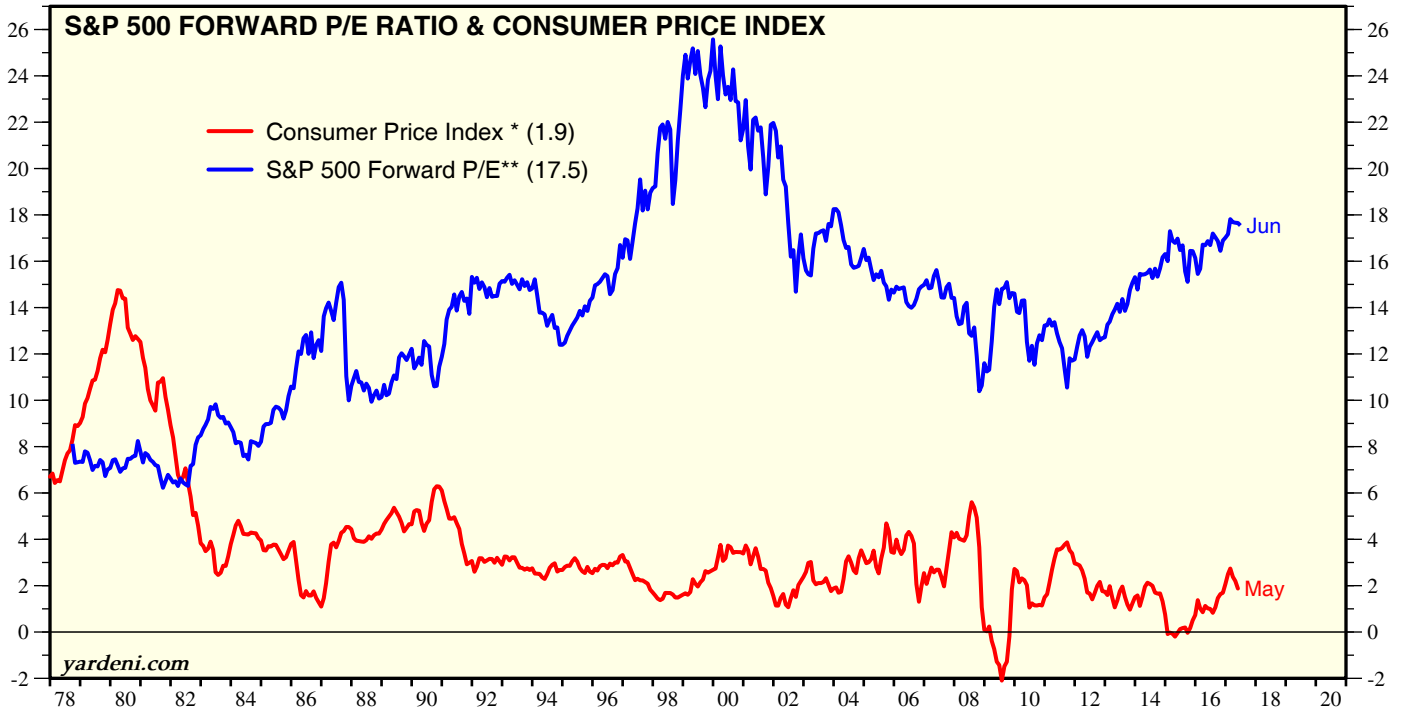
** Unemployment rate plus yearly percent change in consumer price index.

Note: Bear markets are declines of 20% or more (in red shades).

Source: Bureau of Economic Analysis, Bureau of Labor Statistics, and Thomson Reuters I/B/E/S.

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Figure 7.

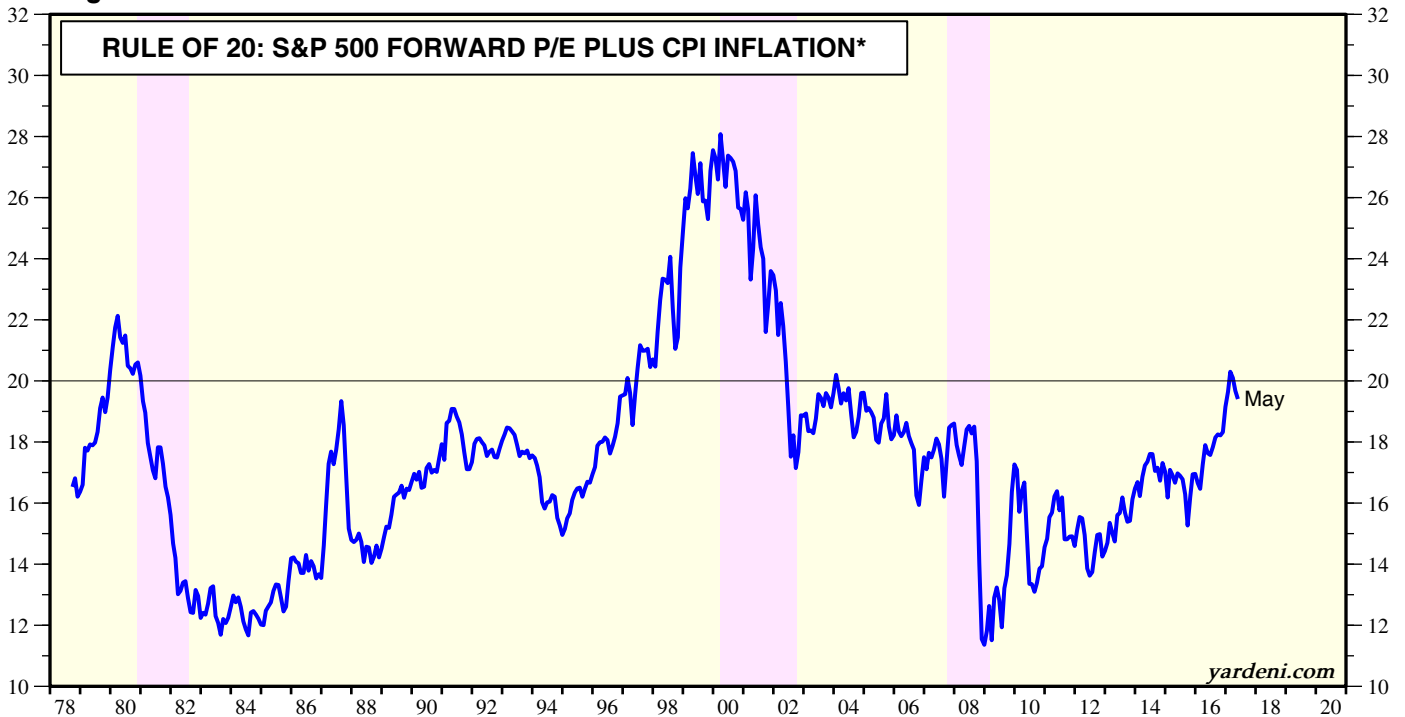


* yearly percent change.

** Average monthly S&P 500 stock price index divided by S&P 500 12-month forward consensus expected operating earnings per share.

Source: Bureau of Economic Analysis, Bureau of Labor Statistics, and Thomson Reuters I/B/E/S.

Figure 8.



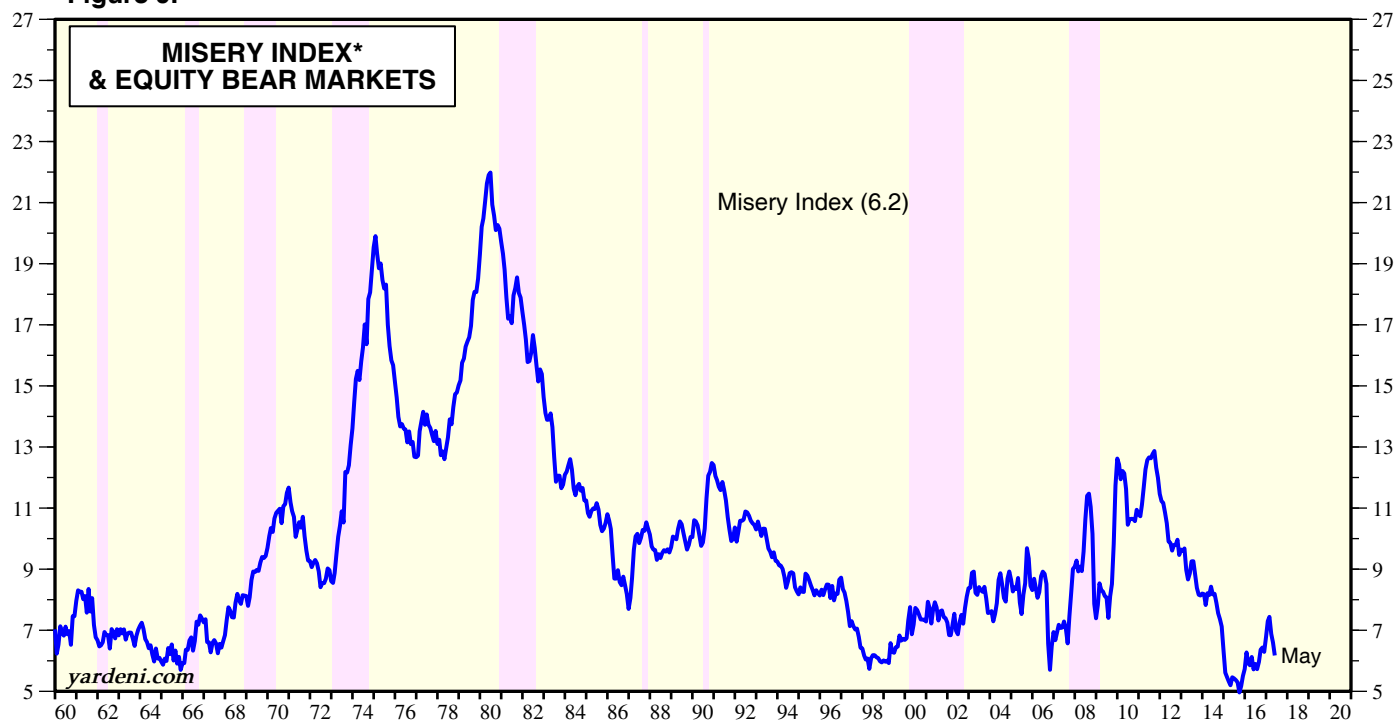
* Using forward P/E monthly and yearly percent change in CPI for inflation.

Note: Bear markets are declines of 20% or more (in red shades).

Source: Thomson Reuters I/B/E/S and Standard & Poor's.

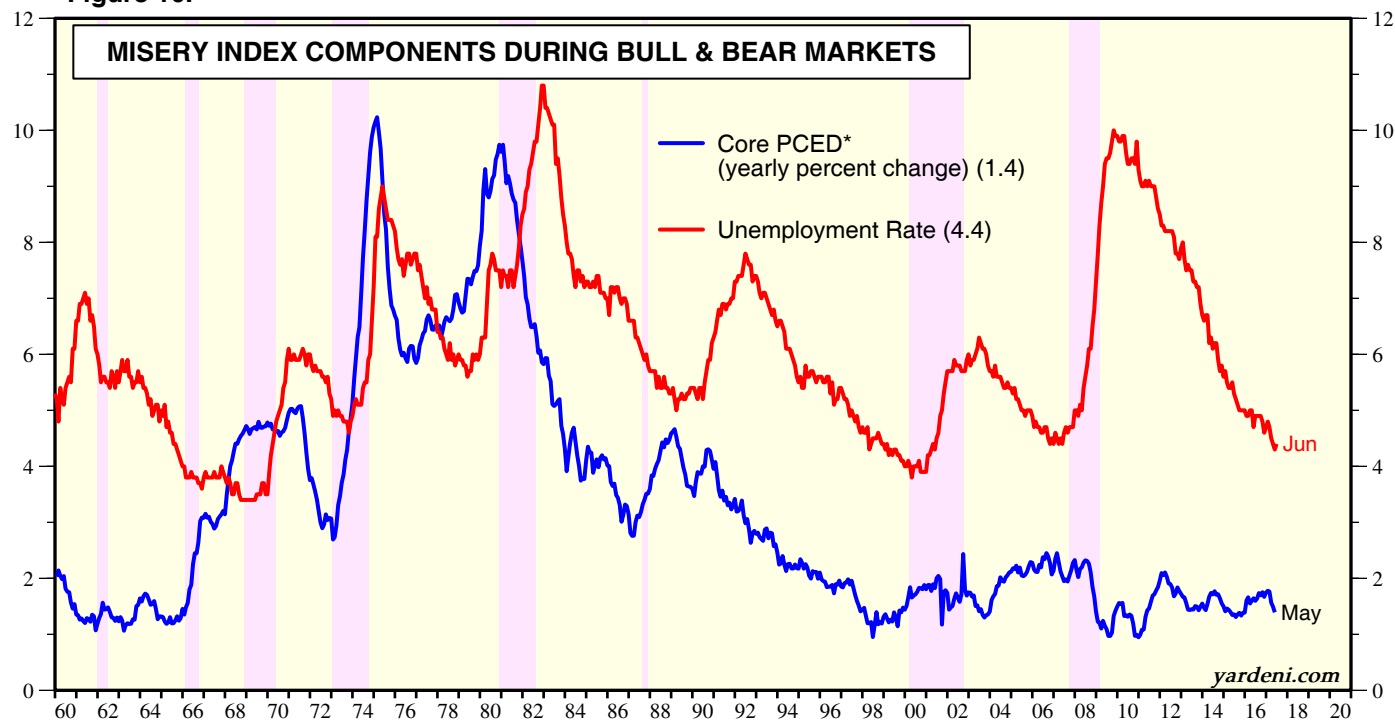
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Figure 9.



* Unemployment rate plus yearly percent change in CPI.
 Note: Shaded red areas denote S&P 500 bear market declines of 20% or more. Yellow areas show bull markets.
 Source: US Department of Commerce, Bureau of Economic Analysis and US Department of Labor, Bureau of Labor Statistics.

Figure 10.



* Personal consumption expenditures deflator excluding food & energy.
 Note: Shaded red areas denote S&P 500 bear market declines of 20% or more. Yellow areas show bull markets.
 Source: US Department of Commerce, Bureau of Economic Analysis and US Department of Labor, Bureau of Labor Statistics.

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