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**Stock Prices**

**Figure 1.**

RELATIVE GLOBAL PERFORMANCE OF US MSCI:
US MSCI (US$) DIVIDED BY ALL COUNTRY WORLD EX US MSCI
(in both US$ and in local currencies, daily)

Source: MSCI.

**Figure 2.**

(ratio scale)

Note: Corrections are declines of 10% or more, 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.
S&P 500 Earnings, Revenues, Margins

Figure 3.

S&P 500 REVENUES PER SHARE: ACTUAL (S&P quarterly data) & FORWARD (TR weekly data)
(dollars)

Revenues Per Share
52-week Forward*
Actual (x4)

S&P 500 EARNINGS PER SHARE: FORWARD & ACTUAL OPERATING EARNINGS
(dollars)

Operating Earnings Per Share
52-week Forward* (177.1)
I/B/E/S data (x4) (165.6)

S&P 500 PROFIT MARGIN MEASURES
(percent)

Operating Profit Margins
52-week Forward* (12.1)
I/B/E/S Data (11.8)

*yardeni.com

* Time-weighted average of consensus operating earnings estimates for current and next years.
Source: Standard & Poor’s and I/B/E/S data by Refinitiv.
Figure 4.

S&P 500 Revenues & Margins

S&P 500 Revenues

Aggregate* (2.9)

Per Share (5.0)

* S&P quarterly data, not per share. Revenues are derived by multiplying S&P 500 revenues per share by the S&P 500 divisor for each quarter. Source: Standard & Poor’s.

Figure 5.

S&P 500 Reported Profit Margin & After-Tax Corporate Profits Margin

Corporate Profits After Tax* (as a percent of nominal GDP) (8.5)

S&P 500 Profit Margin: Reported (percent) (9.9)

* After-tax profits as reported to IRS (without IVA and CCAdj).

Note: Shaded areas denote recessions according to the National Bureau of Economic Research. Q4-2008 not shown because of large negative value. Source: Standard & Poor’s, I/B/E/S data by Refinitiv, and Bureau of Economic Analysis.
Figure 6.

S&P 500 REVENUES & YRI FORECASTS
(dollars per share)

YRI Forecasts
- 2018 (1330.00)
- 2019 (1383.00)
- 2020 (1452.00)

Consensus Forecasts
- 2018 (1330.20)
- 2019 (1392.63)
- 2020 (1466.67)

S&P Actual
- Trailing 4-quarter
- Revenues per share (1374.18)

Latest data thru 08/22/19

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

Figure 7.

S&P 500 OPERATING EARNINGS & YRI FORECASTS
(dollars per share)

YRI Forecasts
- 2018 (163.00)
- 2019 (167.00)
- 2020 (176.00)

Consensus Forecasts
- 2018 (161.71)
- 2019 (164.85)
- 2020 (183.55)

I/B/E/S Actual
- Trailing 4-quarter
- operating EPS (164.39)

Latest data thru 08/22/19

Source: I/B/E/S data by Refinitiv.
S&P 500/400/600 Forward Earnings & Margins

Figure 8.

S&P 500/400/600 FORWARD EARNINGS
(dollars per share, ratio scale)

Forward Earnings*
- S&P 500 LargeCap (177.08)
- S&P 400 MidCap (123.06)
- S&P 600 SmallCap (57.72)

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

Figure 9.

S&P FORWARD PROFIT MARGINS*
(using analysts average earnings and sales forecasts, percent)

Forward Profit Margins*
- S&P 500 (12.1)
- S&P 400 (7.0)
- S&P 600 (5.1)

* Time-weighted average of the consensus estimates for current and next year using forward earnings divided by forward revenues.
Source: I/B/E/S data by Refinitiv and Standard & Poor’s.
Figure 10.

S&P 500, FORWARD EARNINGS, and VALUATION (weekly)

Blue Angels: S&P 500
- Actual 08/28/19
- Implied* 08/22/19

Source: Standard & Poor’s and I/B/E/S data by Refinitiv.

Figure 11.

ALL COUNTRY WORLD EX-US MSCI, FORWARD EARNINGS, & VALUATION

- All Country World Ex-US MSCI Index (In local currencies) 08/28/19
- Blue Angels Implied Price Index* 08/23/19

* Implied price index calculated using forward earnings times forward P/Es. Monthly through December 2005, weekly thereafter.
Source: Standard & Poor’s and I/B/E/S data by Refinitiv.
Figure 12.
S&P 500 REVENUES ANNUAL GROWTH FORECASTS*
(based on analysts' consensus estimates, percent, weekly)

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

Figure 13.
S&P 500 OPERATING EARNINGS ANNUAL GROWTH FORECASTS*
(based on analysts' consensus estimates, percent, weekly)

Source: I/B/E/S data by Refinitiv.
ALL COUNTRY WORLD EX-US MSCI ANNUAL REVENUE GROWTH FORECASTS
(based on analysts' consensus estimates, percent, weekly)

2011 (7.5)
2012 (3.8)
2013 (3.4)
2014 (1.5)
2015 (-2.2)
2016 (-0.6)
2017 (8.0)
2018 (7.4)
2019 (3.2)
2020 (4.4)

Latest data thru 08/22/19

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

ALL COUNTRY WORLD EX-US MSCI ANNUAL EARNINGS GROWTH FORECASTS
(based on analysts' consensus estimates, percent, weekly)

2011 (4.8)
2012 (0.3)
2013 (6.2)
2014 (3.4)
2015 (-1.7)
2016 (2.7)
2017 (18.1)
2018 (6.6)
2019 (1.9)
2020 (9.9)

Latest data thru 08/22/19

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

* Price divided by 12-month forward consensus expected operating earnings per share.
Source: I/B/E/S data by Refinitiv.
Growth vs Value

Figure 18.

S&P 500 GROWTH & VALUE RELATIVE TO S&P 500

Relative to S&P 500*

- Red line: Growth
- Blue line: Value

* Rising (falling) line indicates that the index is outperforming (underperforming) the S&P 500.

Source: Standard & Poor’s and Haver Analytics.

Figure 19.

S&P 500 GROWTH vs VALUE SPREAD
(yearly percent change spread, basis points)

S&P 500 Growth Outperforms S&P 500 Value

S&P 500 Growth Underperforms S&P 500 Value

Source: Standard & Poor’s and Haver Analytics.
Figure 20.

US TREASURY 10-YEAR & 2-YEAR YIELDS & FED FUNDS RATE
(percent)

10-Year Yield (1.47)
2-Year Yield (1.50)
Fed Funds Target Rate (2.13)

Source: Federal Reserve Board.

Figure 21.

US YIELD CURVE* & FINANCIAL CRISES (basis points, weekly)

1970 Penn Central
1974 Franklin National
1980 Silver Bubble
1984 Continental Illinois
1990 S&L Crisis
1994 Mexican Peso
1997 Pacific Rim
1998 Russia & LTCM
2001 9/11 Attacks
2000 Tech Bubble
2007 Subprime Muddle
2008 Lehman & AIG
2000

* 10-year US Treasury yield less federal funds rate.
Note: Blue shaded areas denote periods of monetary easing between cyclical peaks and troughs in the federal funds rate. Red shaded areas denote monetary tightening periods.
Source: Federal Reserve Board.
Equity Flows

Figure 22.

S&P 500 DIVIDENDS & BUYBACKS
(trillion dollars, annualized)

- Buybacks
- Dividends
- S&P 500 Index

Source: Standard & Poor's.

Figure 23.

EQUITY ETFs*
(yearly net inflows, billion dollars)

* Net share issuance by equity ETFs.
S&P GOLDMAN SACHS COMMODITY INDEX & TRADE-WEIGHTED DOLLAR
(daily)

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

BRENT CRUDE OIL PRICE & TRADE-WEIGHTED DOLLAR

* Nearby futures price.
** Argentina, Australia, Brazil, Bulgaria, Canada, Chile, China, Colombia, Croatia, Czech Republic, Denmark, Ecuador, Egypt, France, Germany, Hong Kong, Hungary, Japan, India, Indonesia, Israel, Italy, Korea, Kuwait, Malaysia, Mexico, Morocco, New Zealand, Nigeria, Norway, Pakistan, Panama, Peru, Philippines, Poland, Romania, Russia Saudi Arabia, Singapore, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Kingdom, Ukraine, Uruguay, Venezuela, Vietnam, and United States. Source: JP Morgan and Haver Analytics.
Figure 26.

S&P 500 INDEX & BOOM-BUST BAROMETER*

* CRB raw industrials spot price index (weekly average) divided by weekly initial unemployment claims, showing four-week moving average.

Figure 27.

EMERGING MARKETS MSCI STOCK PRICE INDEX (in dollars) & INDUSTRIALS COMMODITY PRICE INDEX (daily)

* Includes copper scrap, lead scrap, steel scrap, tin, zinc, burlap, cotton, print cloth, wool tops, hides, rosin, rubber, and tallow.
Figure 28.

CONSUMER PRICE INDEX*: 1800-1947

- War of 1812 (1812-1815)
- Civil War (1861-1865)
- World War I (1914-1918)
- World War II (1939-1945)

* Annual data. Base index from 1800 to 1947 is 1967 = 100.
** 1982-84=100.
Source: Census Bureau, Historical Statistics of the United States

Figure 29.

PRODUCTIVITY: NONFARM BUSINESS

- Percent change annual rate
  - 10-year spans (40 quarters) (1.3)
  - 5-year spans (20 quarters) (1.2)

Note: Shaded areas denote recessions according to the National Bureau of Economic Research.
Figure 30.
ATA TRUCK TONNAGE INDEX
(2015=100, sa)

Source: American Trucking Association.

Figure 31.
COINCIDENT ECONOMIC INDICATORS: RECOVERIES & EXPANSIONS*
(2016=100, sa, ratio scale)

* Red horizontal lines span cyclical peaks through subsequent cyclical recoveries. Green horizontal lines are expansion periods following recoveries.
Source: Conference Board, Haver Analytics, and YRI calculations.
Figure 32.

REAL AVERAGE HOURLY EARNINGS
PRODUCTION & NONSUPERVISORY WORKERS*
(2012 dollars per hour, ratio scale)

* Average hourly earnings deflated by personal consumption expenditures deflator.

Figure 33.

MANUFACTURING PRODUCTION & CAPACITY
(2012 = 100, ratio scale)

Note: C = China joined WTO on December 11, 2001. Shaded areas denote recessions according to the National Bureau of Economic Research.
Source: Federal Reserve Board.
China

Figure 34.

CHINA RETAIL SALES & CPI
(yearly percent change)

* Yearly percent change in retail sales minus yearly percent change in CPI.
Source: China National Bureau of Statistics.

Figure 35.

BANK LOANS & MONEY SUPPLY
(trillion US dollars)

Source: Federal Reserve Board and People’s Bank of China.
Figure 36.
EUROZONE: INDUSTRIAL PRODUCTION EXCLUDING CONSTRUCTION
(January 2006=100)

Source: Haver Analytics.

Figure 37.
EUROZONE: ECONOMIC SENTIMENT INDICATOR* & REAL GDP

* 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: Statistical Office of the European Communities, European Commission, and Haver Analytics.
**Global**

**Figure 38.**

**IMPLIED WORLD EX-US CAPITAL FLOWS & TRADE-WEIGHTED DOLLAR**

- JP Morgan Nominal
- Broad Effective
- Exchange Rate
  (inverted scale, yearly percent change)

Implied World Ex-US Capital Flows*
(trillion dollars)

* 12-month change in non-gold international reserves minus 12-month sum of the merchandise trade surplus (deficit). US trade deficit multiplied by -1.0.

Source: International Monetary Fund and JP Morgan.

**Figure 39.**

**S&P 500 & ASSETS OF MAJOR CENTRAL BANKS**

- S&P 500 Index
- Total Assets of Fed, ECB, BOJ
  (in dollars)


Source: Federal Reserve Board, Standard & Poor’s and Haver Analytics.