Figure 1.

ECB OFFICIAL RATE & GERMAN 10-YEAR GOVERNMENT BOND YIELD (percent)

- ECB Deposit Facility Rate (-0.40)
- German 10-year Government Bond Yield (-0.70)

Source: European Central Bank and Haver Analytics.

Figure 2.

ECB ASSETS (trillion euros)

- ECB Assets
  - Total (4.7)
  - Securities of Euro Area Residents in Euro (2.8)


Source: European Central Bank.
**Figure 3.**

**EUROZONE: GOVERNMENT 10-YEAR BOND YIELDS**

(percent, daily)

- **France (-0.40)**
- **Germany (-0.70)**
- **Japan (-0.27)**
- **Sweden (-0.34)**
- **UK (0.34)**
- **US (1.50)**

Source: Haver Analytics.

**Figure 4.**

**S&P 500 DIVIDEND YIELD vs 10-YEAR BOND YIELD**

(percent)

- **10-Year US Treasury Yield (Aug=1.6)**
- **S&P 500 Dividend Yield* (Q2=1.9)**

* S&P 500 four-quarter trailing dividends per share divided by quarterly closing value of the S&P 500 index.

Source: Standard & Poor’s Corporation and Board of Governors of the Federal Reserve System.
S&P 500 DIVIDEND YIELD vs. S&P 500 FORWARD EARNINGS YIELD
(Percent)

- S&P 500 Forward Earnings Yield* (6.06)
- S&P 500 Dividend Yield** (1.91)

* S&P 500 four-quarter trailing dividends per share divided by quarterly closing value of the S&P 500 index.
** S&P 500 12-month forward consensus expected operating earnings divided by S&P 500 stock price index.
Source: Standard & Poor’s and Federal Reserve Board.

S&P 500 SECTORS PERFORMANCE: 2019
(Percent change ytd)

- Consumer Discretionary (20.3)
- Consumer Staples (19.0)
- Energy (-0.5)
- Financials (12.6)
- Health Care (4.6)
- Information Technology (28.0)
- Industrials (17.4)
- Materials (11.9)
- Real Estate (26.0)
- Communication Services (20.0)
- Utilities (17.6)

Latest data thru: 08/30/19
Source: Standard & Poor’s.
Figure 7.

S&P 500 FORWARD P/E RATIOS*

- S&P 500 Index (16.8)
- Consumer Discretionary (21.2)
- Consumer Staples (19.6)
- Financials (11.4)
- Health Care (14.8)
- Industrials (15.4)
- Information Technology (19.6)
- Materials (16.9)
- Communication Services (17.4)
- Utilities (19.4)

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

Figure 8.

REAL US BOND YIELD

* 10-year Treasury bond yield minus yearly percent change in CPI.
Source: US Department of Commerce, Federal Reserve Board, and Bureau of Economic Analysis.
**Figure 9.**

**S&P 500 REPORTED EARNINGS YIELD* MINUS CPI INFLATION RATE**

- **Latest (3.02)**
- **Average 3.3**

* S&P 500 reported earnings as a percent of quarterly average S&P 500 index. Q4-2008 dropped because of negative value.

** Year-over-year percent change in three-month average of each quarter.

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

Source: Standard & Poor’s and Bureau of Labor Statistics.

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**Figure 10.**

**REAL S&P 500 FORWARD EARNINGS YIELD vs REAL BOND YIELD**

- **Real S&P 500 Forward Earnings Yield* (4.03)**
- **Real 10-Year US Treasury Bond Yield** (0.25)

* S&P 500 12-month forward consensus expected operating earnings divided by S&P 500 stock price index minus CPI inflation rate (y/y).

** Bond yield minus CPI inflation rate (y/y).

Source: I/B/E/S data by Refinitiv and Federal Reserve Board.
Figure 11.

REAL GDP
(Yearly percent change)

- Eurozone (Q2=1.3)
- Japan (Q2=1.1)
- UK (Q2=1.2)
- US (Q2=2.3)

Australia (Q1=1.8)
Canada (Q2=1.6)

China (Q2=6.2)
India (Q2=5.0)
Indonesia (Q2=5.0)
Mexico (Q2=0.3)
Brazil (Q2=1.0)
South Korea (Q2=2.1)

Source: Haver Analytics.
Figure 12.

GLOBAL INDUSTRIAL PRODUCTION
(Yearly percent change)

Manufacturing
- US (Jul=-0.5)
- Eurozone (Jun=-2.8)
- Japan (Jul=0.7)

Source: International Monetary Fund (IMF) and Federal Reserve Board.

Figure 13.

US CRUDE OIL FIELD PRODUCTION
(Million barrels per day, weekly, sa)

Source: US Department of Energy and Haver Analytics.
Figure 14.
US NATURAL GAS
(trillion cubic feet, 12-month sum)

- Consumption (Jun=30.4)
- Production (Apr=34.0)

Source: Energy Information Administration, Monthly Energy Review.

Figure 15.
CORE CPI INFLATION RATES
(yearly percent change)

- Core CPI Inflation
  - US (Jul=2.2)
  - Eurozone (Aug=0.9)
  - Japan (Jul=0.4)

Source: Haver Analytics.
Figure 16.

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)

US MSCI / ACW ex-US

In dollars
In local currencies

Source: MSCI.

Figure 17.

MSCI FORWARD PROFIT MARGINS: WORLD
(using analysts’ average earnings and revenues forecasts)

Forward profit margin*
- All Country World (9.3)
- All Country World ex-US (7.8)
- US (11.7)


Source: Thomson Reuters I/B/E/S.
Figure 18.

MSCI FORWARD P/E
(weekly)

Forward P/E*
- Emerging Markets (11.7)
- EMU (12.8)
- Japan (12.4)
- UK (11.7)
- US (17.1)

Capped at 20

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