

CAPITAL MARKETS REVIEW

4th Quarter 2018

Reviewing the quarter ended September 30, 2018



YANKE FINANCIAL

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Themes this Quarter

- **Economic update**
- Interest rate update/expectations
- Equity market assumptions
- What should investors do?

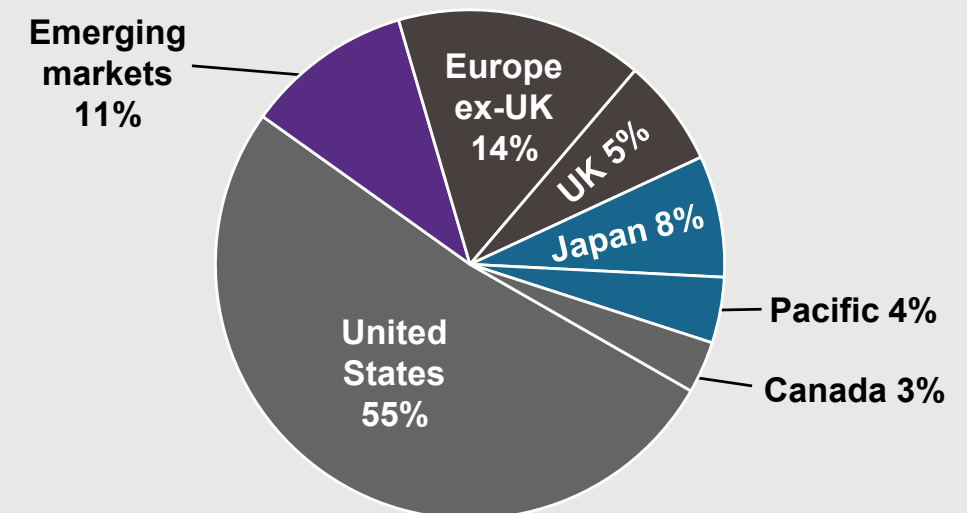
Global equity markets

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Returns	2018 YTD		2017		15-years	
	Local	USD	Local	USD	Ann.	Beta
Regions						
U.S. (S&P 500)	-	10.6	-	21.8	9.9	0.85
AC World ex-U.S.	0.7	-2.7	18.8	27.8	9.2	1.12
EAFE	1.8	-1.0	15.8	25.6	8.6	1.08
Europe ex-UK	1.4	-1.6	14.5	27.8	9.4	1.24
Emerging markets	-2.6	-7.4	31.0	37.8	12.7	1.29
Selected Countries						
United Kingdom	1.0	-2.6	11.8	22.4	7.1	1.03
France	7.1	3.6	14.1	29.9	8.8	1.26
Germany	-4.2	-7.3	12.9	28.5	11.5	1.39
Japan	2.7	1.9	20.1	24.4	7.2	0.74
China	-8.8	-9.0	55.3	54.3	16.2	1.25
India	2.7	-9.6	30.5	38.8	14.9	1.38
Brazil	5.9	-12.1	26.9	24.5	15.8	1.61
Russia	22.8	9.8	1.2	6.1	8.8	1.57

Weights in MSCI All Country World Index

% global market capitalization, float adjusted



Global equity market correlations

Rolling 1-year correlations, 30 countries



Source: FactSet, MSCI, Standard & Poor's, J.P. Morgan Asset Management.

All return values are MSCI Gross Index (official) data. 15-year history based on U.S. dollar returns. 15-year return and beta figures are calculated for the time period 12/31/02-12/31/17. Beta is for monthly returns relative to the MSCI AC World Index. Chart is for illustrative purposes only. Please see disclosure page for index definitions. Countries included in global correlations include Argentina, Australia, Austria, Brazil, Canada, China, Colombia, Denmark, Finland, France, Germany, Hong Kong, India, Italy, Japan, Korea, Malaysia, Mexico, Netherlands, New Zealand, Peru, Philippines, Portugal, Spain, South Africa, Taiwan, Thailand, Turkey, UK and the U.S. Past performance is not a reliable indicator of current and future results. *Guide to the Markets – U.S.* Data are as of September 30, 2018.

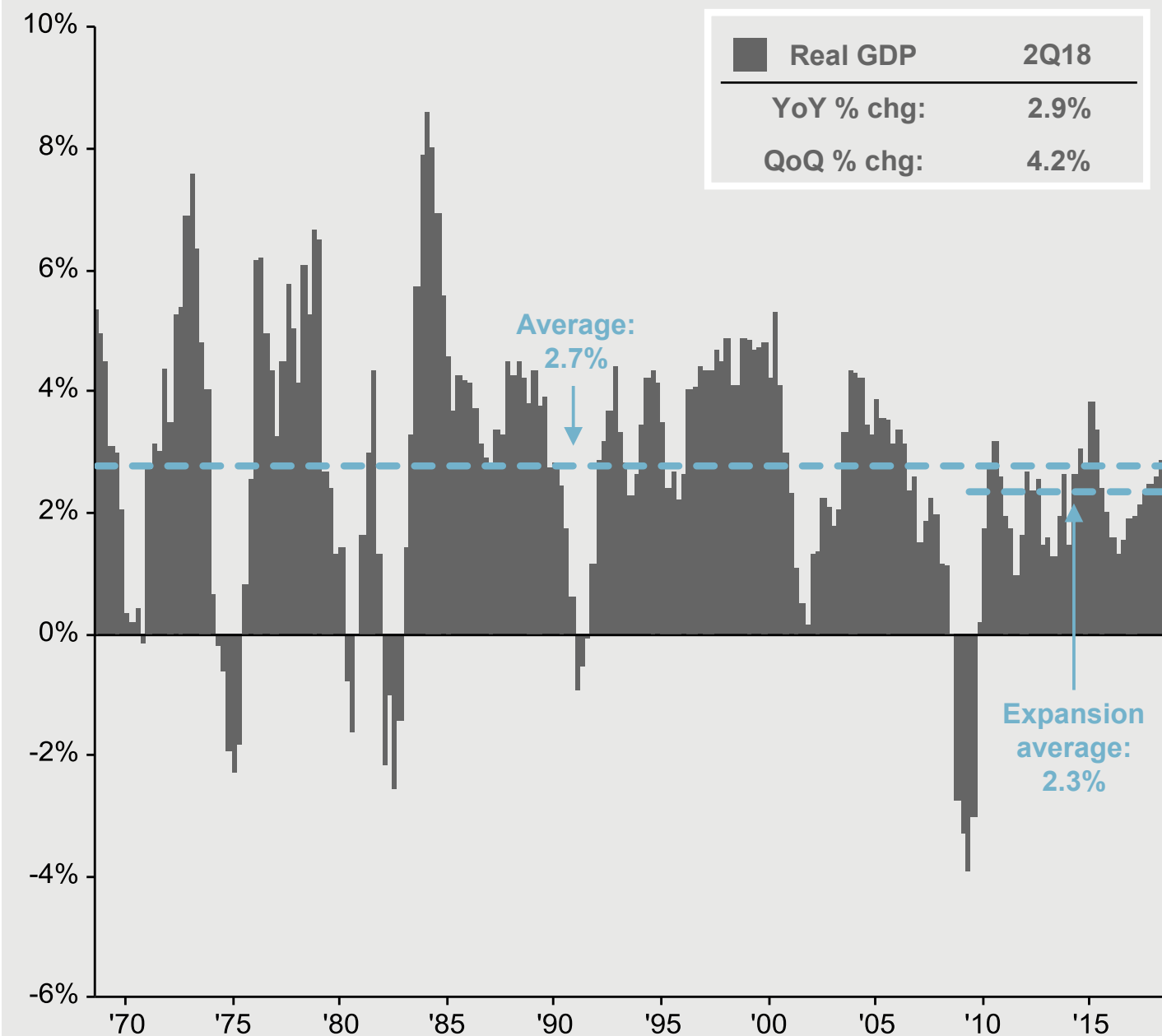
Economic growth and the composition of GDP

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Economy

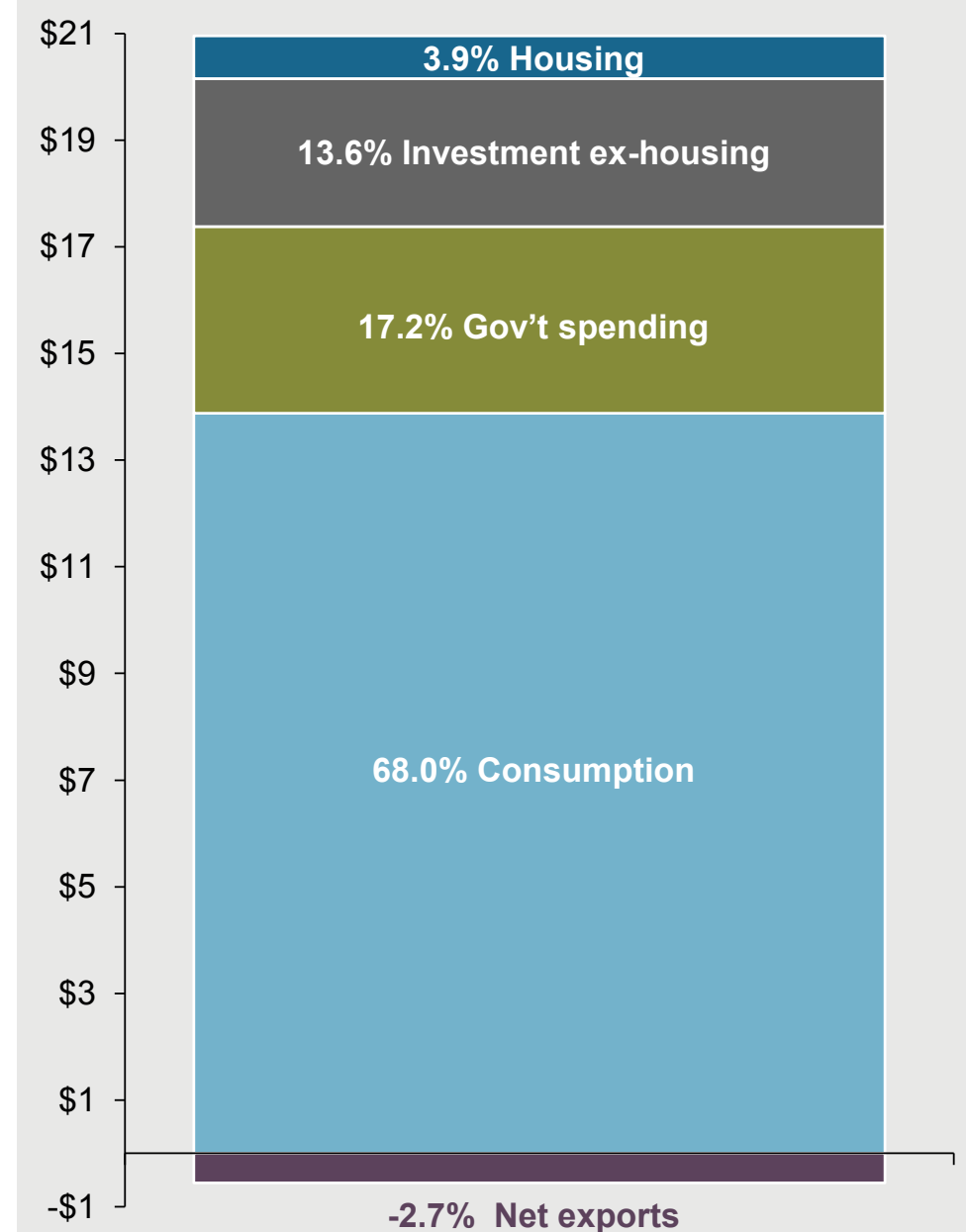
Real GDP

Year-over-year % change



Components of GDP

2Q18 nominal GDP, USD trillions



Source: BEA, FactSet, J.P. Morgan Asset Management.

Values may not sum to 100% due to rounding. Quarter-over-quarter percent changes are at an annualized rate. Average represents the annualized growth rate for the full period. Expansion average refers to the period starting in the third quarter of 2009.

Guide to the Markets – U.S. Data are as of September 30, 2018.

Oil markets

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Economy

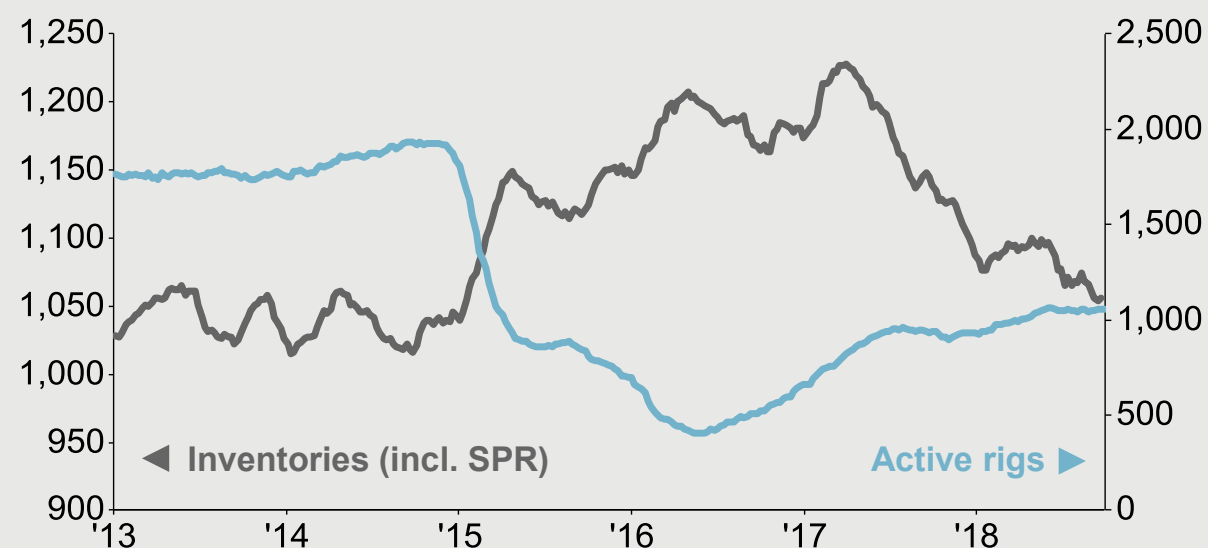
Change in production and consumption of liquid fuels

Production, consumption and inventories, millions of barrels per day

Production	2015	2016	2017	2018*	2019*	Growth since '15
U.S.	15.1	14.8	15.7	17.5	18.8	24.2%
OPEC	38.4	39.4	39.3	39.0	39.0	1.5%
Russia	11.0	11.2	11.2	11.3	11.4	3.6%
Global	96.6	97.0	97.7	99.7	101.6	5.2%
Consumption						
U.S.	19.5	19.7	20.0	20.4	20.7	5.9%
China	12.4	12.8	13.3	13.7	14.2	14.8%
Global	95.5	97.0	98.5	100.1	101.6	6.4%
Inventory Change	1.1	0.0	-0.8	-0.4	0.1	

U.S. crude oil inventories and rig count**

Million barrels, number of active rigs



Price of oil

WTI crude, nominal prices, USD/barrel



Source: J.P. Morgan Asset Management; (Top and bottom left) EIA; (Right) FactSet; (Bottom left) Baker Hughes.

*Forecasts are from the September 2018 EIA Short-Term Energy Outlook and start in 2018. **U.S. crude oil inventories include the Strategic Petroleum Reserve (SPR). Active rig count includes both natural gas and oil rigs. WTI crude prices are monthly averages in USD using continuous contract NYM prices.

Guide to the Markets – U.S. Data are as of September 30, 2018.

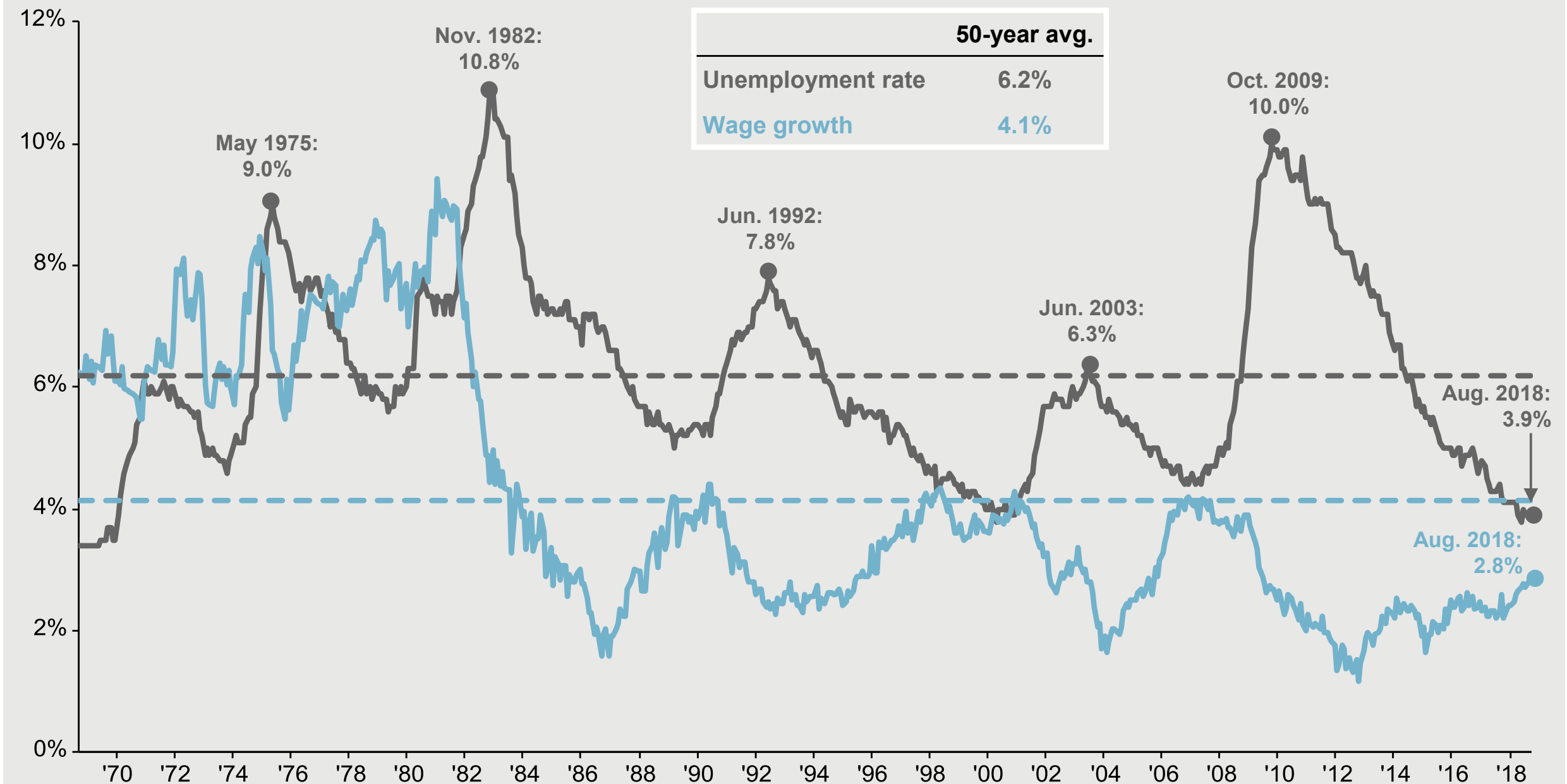
Unemployment and wages

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Economy

Civilian unemployment rate and year-over-year wage growth for private production and non-supervisory workers

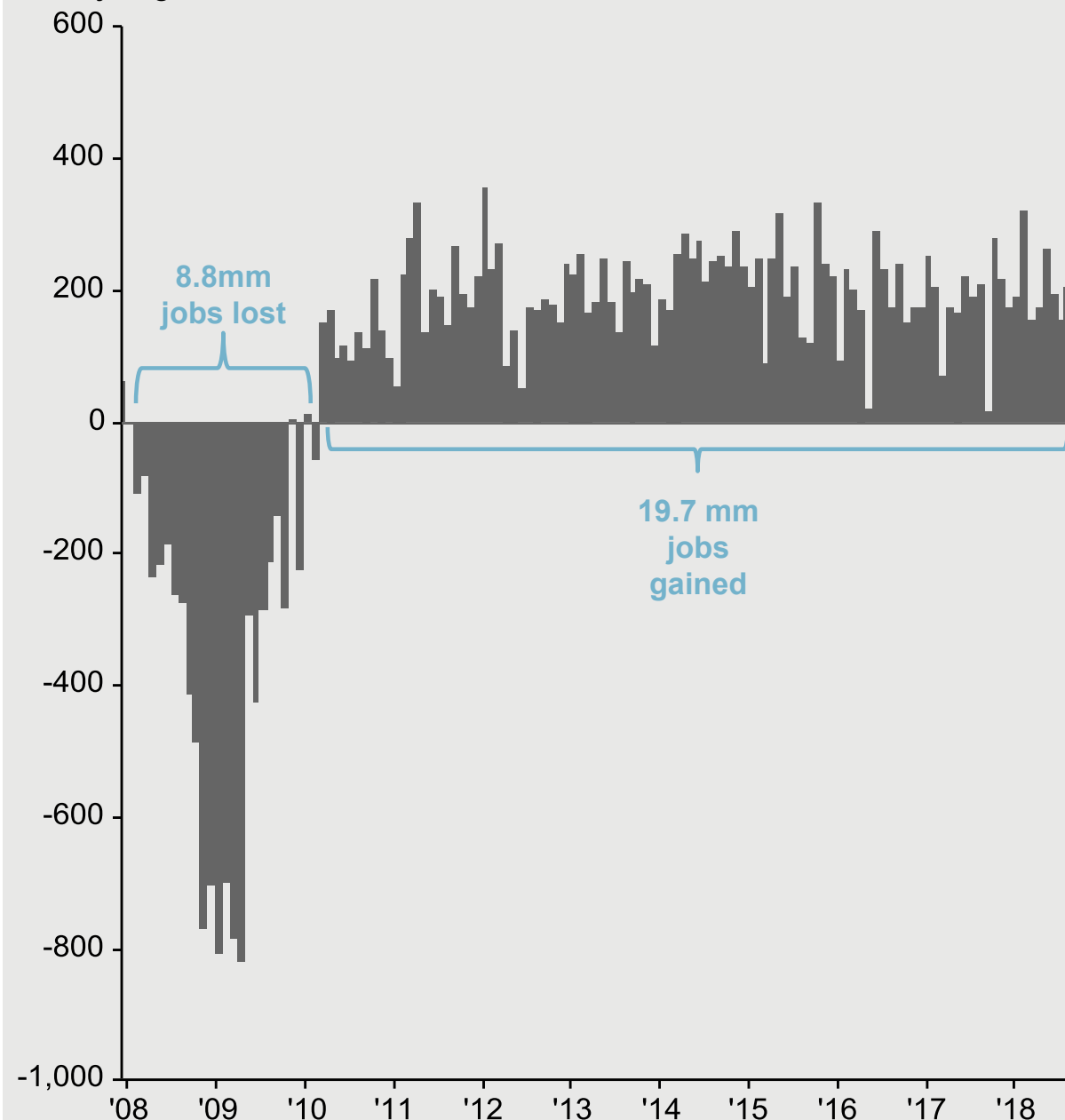
Seasonally adjusted, percent



Source: BLS, FactSet, J.P. Morgan Asset Management.
Guide to the Markets – U.S. Data are as of September 30, 2018.

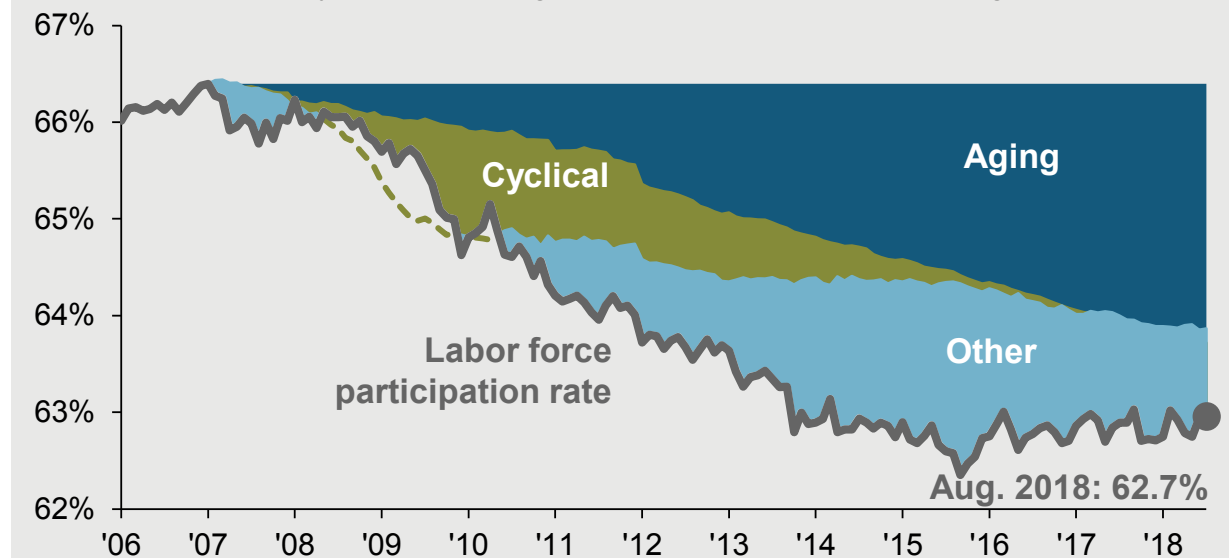
Employment – Total private payroll

Total job gain/loss, thousands



Labor force participation rate decline since 2007 peak*

Population employed or looking for work as a % of total, ages 16+



Net job creation since February 2010

Millions of jobs



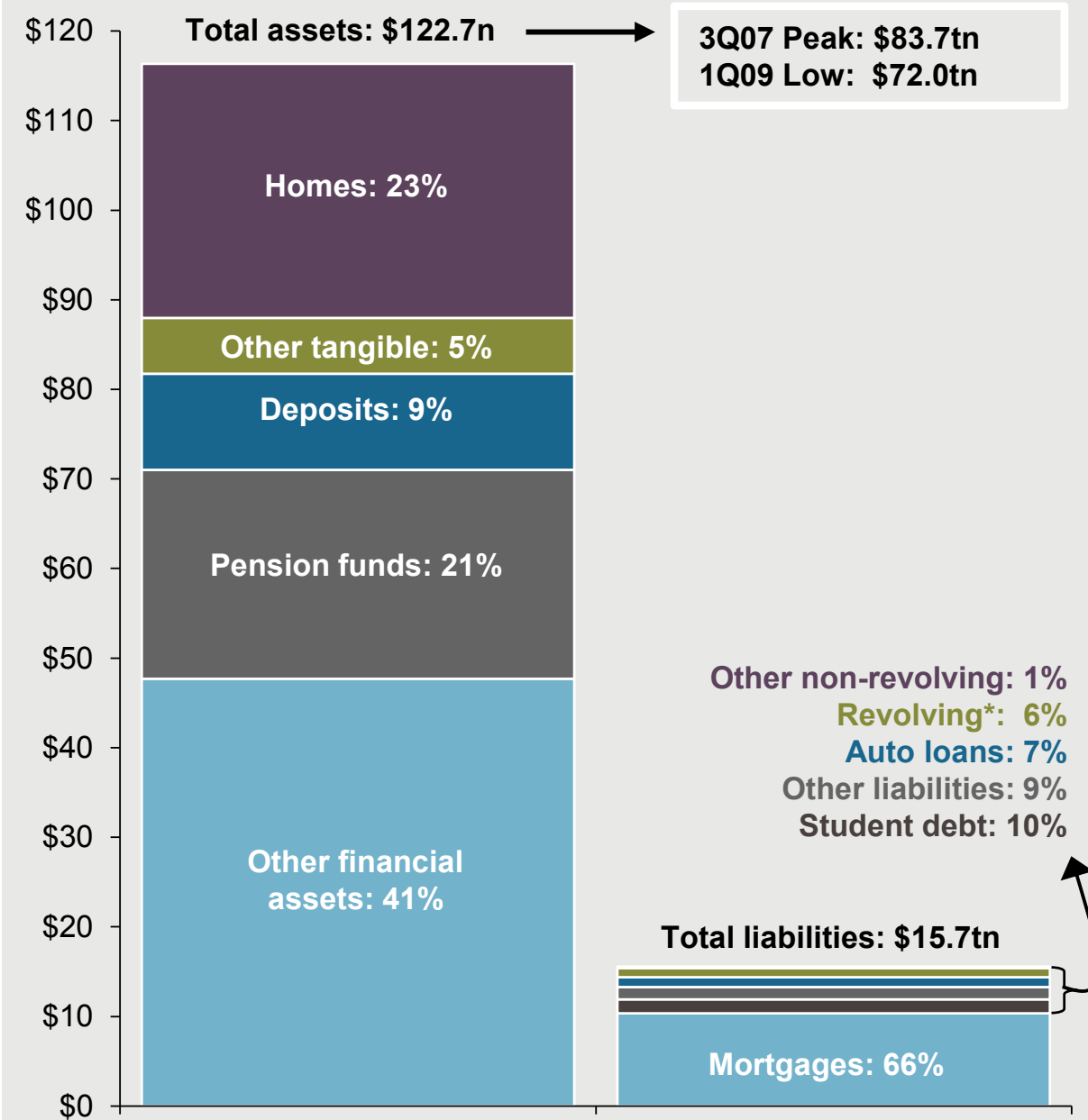
Source: BLS, FactSet, J.P. Morgan Asset Management. (Bottom right) Info. fin. & bus. svcs. = Information, financial activities and professional and business services; Mfg. trade & trans. = Manufacturing, trade, transportation and utilities; Leisure, hospt. & other svcs. = Leisure, hospitality and other services; Educ. & health svcs. = Education & health services; Mining & construct = Natural resources mining and construction; Gov't = Government.

*Aging effect on the labor force participation rate is the estimated number of people who are no longer employed or looking for work because they are retired. Cyclical effect is the estimated number of people who lose their jobs and stop looking for work or do not look for work because of the economic conditions. Other represents the drop in labor force participation from the prior expansion peak that cannot be explained by age or cyclical effects. Estimates for reason of decline in labor force participation rate are made by J.P. Morgan Asset Management.

Guide to the Markets – U.S. Data are as of September 30, 2018.

Consumer balance sheet

2Q18, trillions of dollars outstanding, not seasonally adjusted



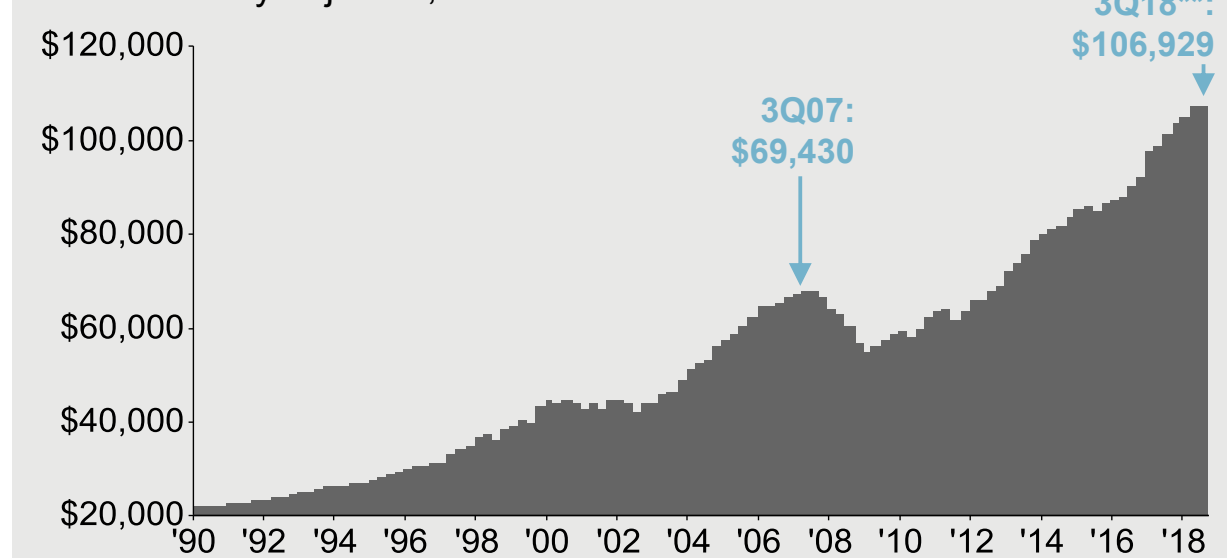
Household debt service ratio

Debt payments as % of disposable personal income, SA



Household net worth

Not seasonally adjusted, USD billions

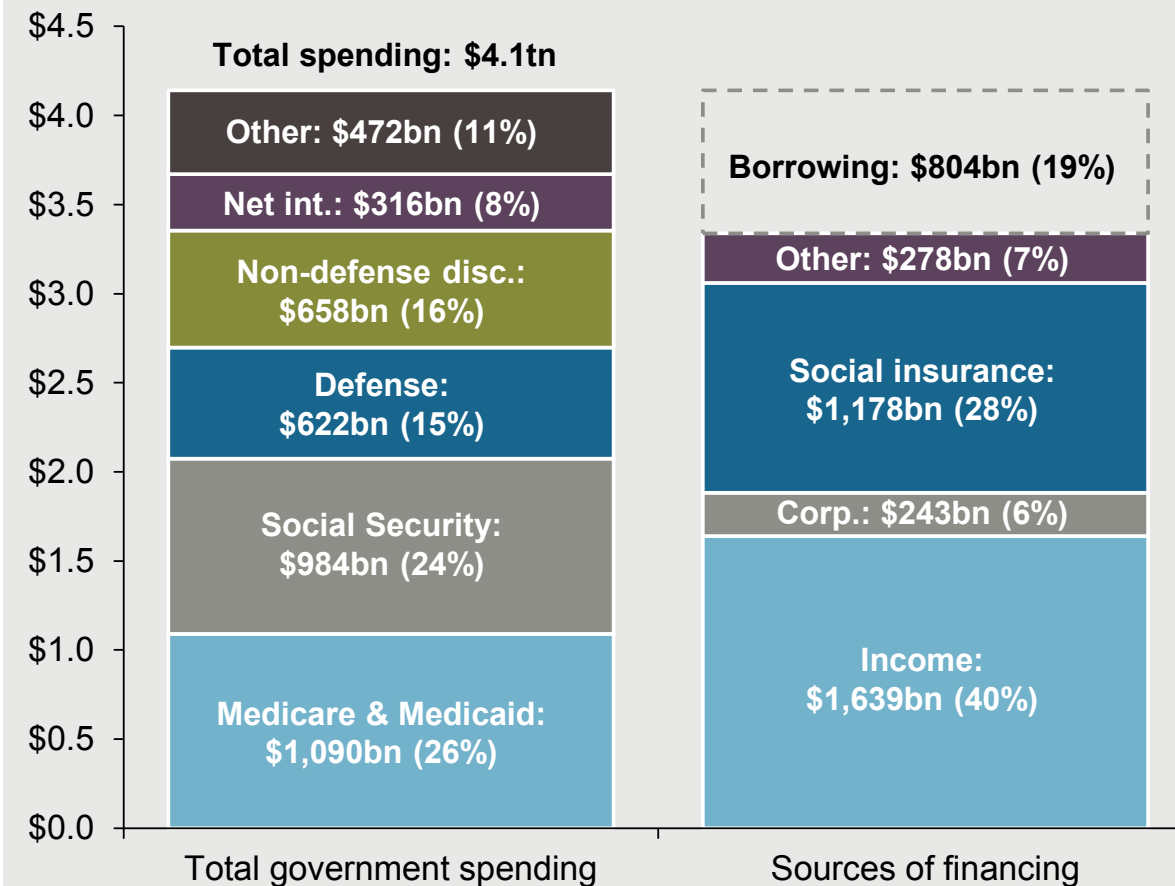


Source: FactSet, FRB, J.P. Morgan Asset Management; (Top and bottom right) BEA. Data include households and nonprofit organizations. SA – seasonally adjusted. *Revolving includes credit cards. Values may not sum to 100% due to rounding. **2Q18 figure for debt service ratio and 3Q18 figures for debt service ratio and household net worth are J.P. Morgan Asset Management estimates.

Guide to the Markets – U.S. Data are as of September 30, 2018.

The 2018 federal budget

CBO Baseline forecast, USD trillions



CBO's Baseline assumptions

	2018	'19-'20	'21-'22	'23-'28
Real GDP growth	2.9%	2.6%	1.6%	1.7%
10-year Treasury	2.8%	3.7%	4.0%	3.7%
Headline inflation (CPI)	2.4%	2.4%	2.5%	2.4%
Unemployment	4.0%	3.5%	4.3%	4.8%

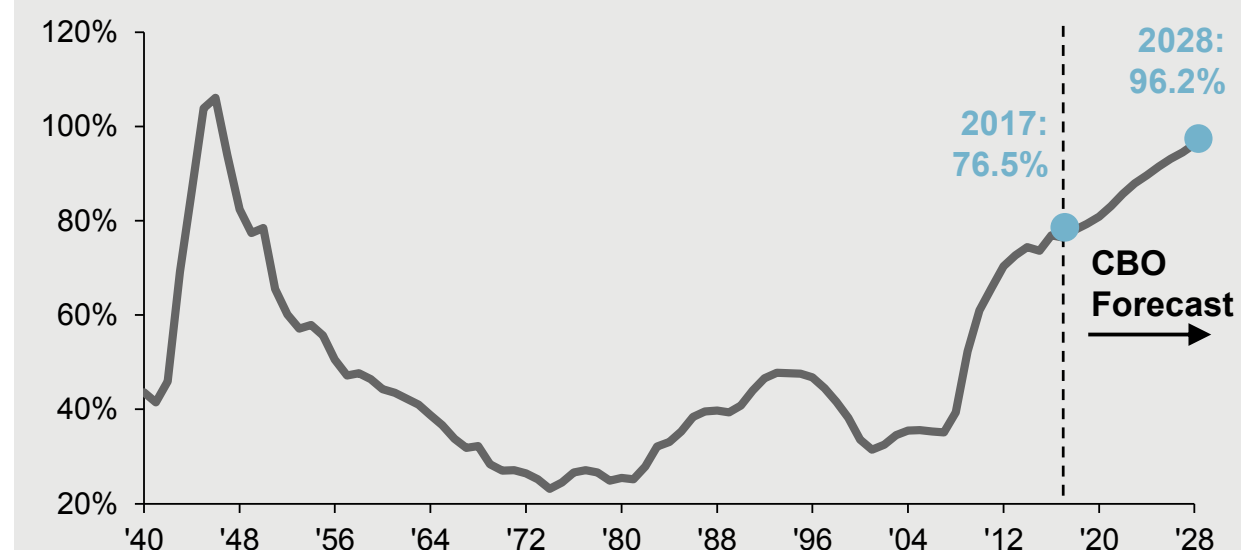
Federal budget surplus/deficit

% of GDP, 1990 – 2028, 2018 CBO Baseline



Federal net debt (accumulated deficits)

% of GDP, 1940 – 2028, 2018 CBO Baseline, end of fiscal year



Source: CBO, J.P. Morgan Asset Management; (Top and bottom right) BEA, Treasury Department.

2018 Federal Budget is based on the Congressional Budget Office (CBO) April 2018 Baseline Budget Forecast. CBO Baseline is based on the Congressional Budget Office (CBO) August 2018 Update to Economic Outlook. Other spending includes, but is not limited to, health insurance subsidies, income security and federal civilian and military retirement. Note: Years shown are fiscal years (Oct. 1 through Sep. 30).

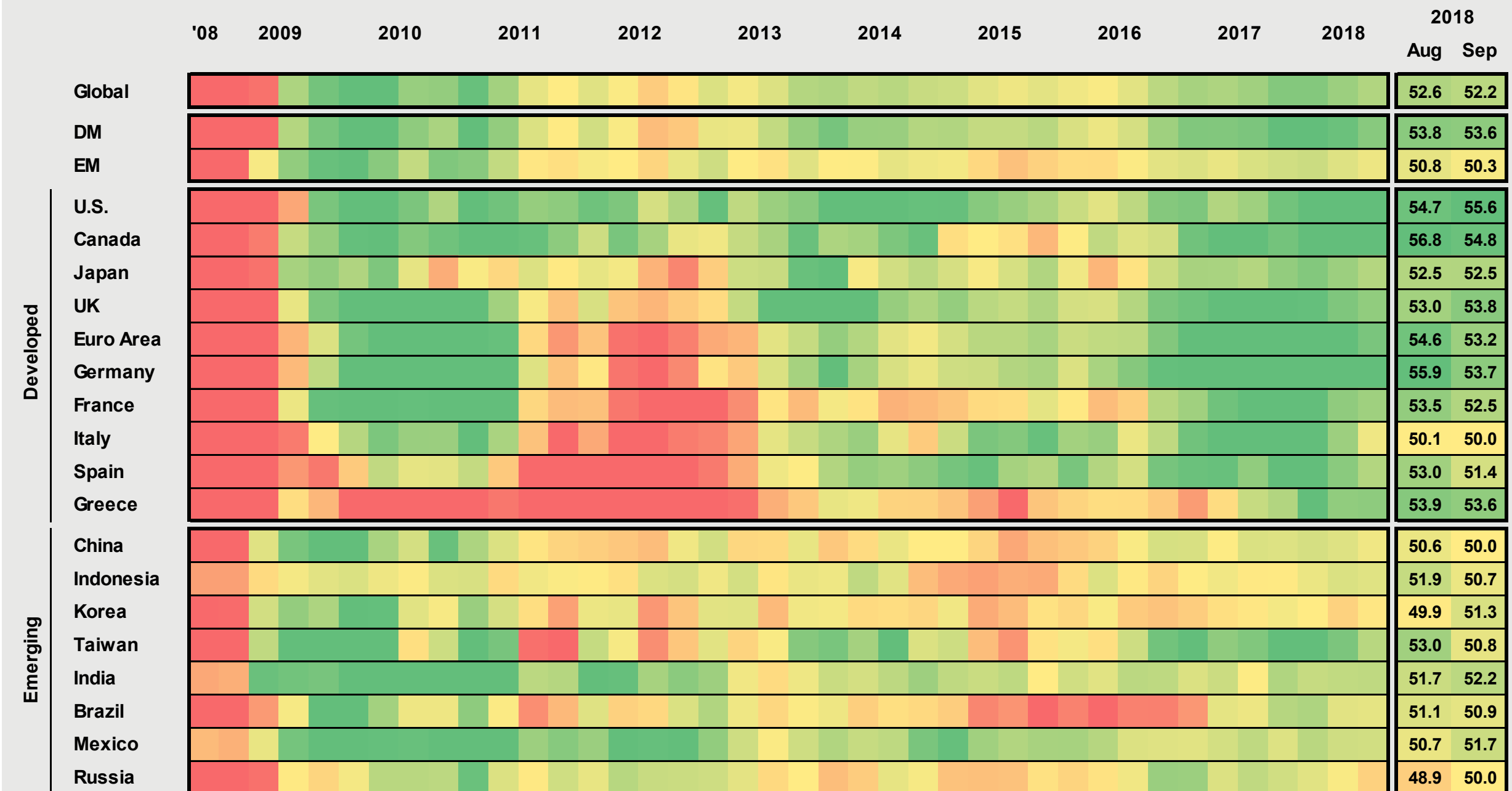
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Manufacturing momentum



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Global Purchasing Managers' Index for manufacturing, quarterly



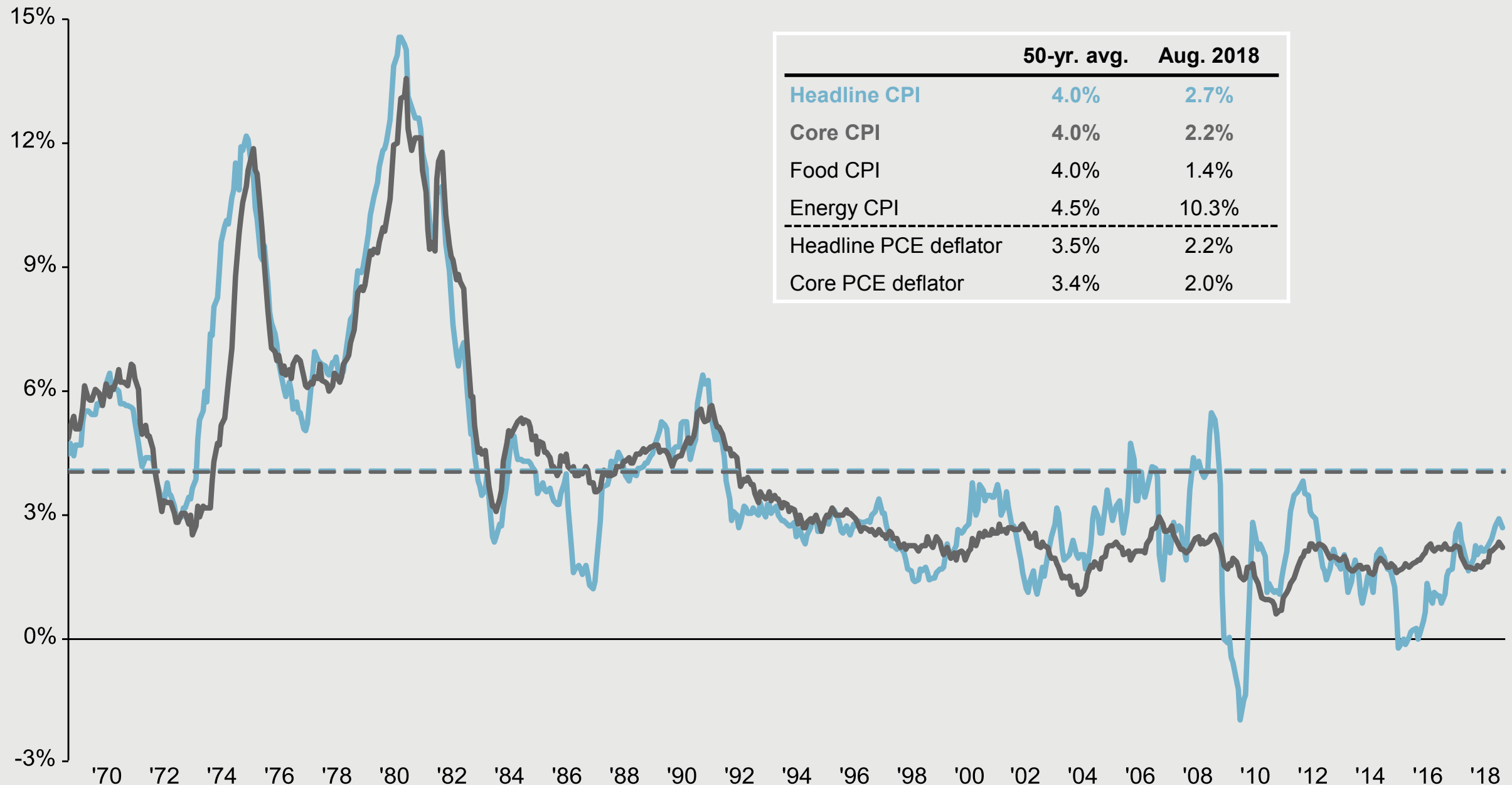
Source: Markit, J.P. Morgan Asset Management.

Heatmap colors are based on PMI relative to the 50 level, which indicates acceleration or deceleration of the sector, for the time period shown. Heatmap is based on quarterly averages, with the exception of the two most recent figures, which are single month readings. Data for Canada, Indonesia and Mexico are back-tested and filled in from December 2007 to November 2010 for Canada and May 2011 for Indonesia and Mexico due to lack of existing PMI figures for these countries. DM and EM represent developed markets and emerging markets, respectively.

Guide to the Markets – U.S. Data are as of September 30, 2018.

CPI and core CPI

% change vs. prior year, seasonally adjusted



Source: BLS, FactSet, J.P. Morgan Asset Management.

CPI used is CPI-U and values shown are % change vs. one year ago. Core CPI is defined as CPI excluding food and energy prices. The Personal Consumption Expenditure (PCE) deflator employs an evolving chain-weighted basket of consumer expenditures instead of the fixed-weight basket used in CPI calculations.

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Returns in different inflation environments – 43 years GTM – U.S. | On the Bench

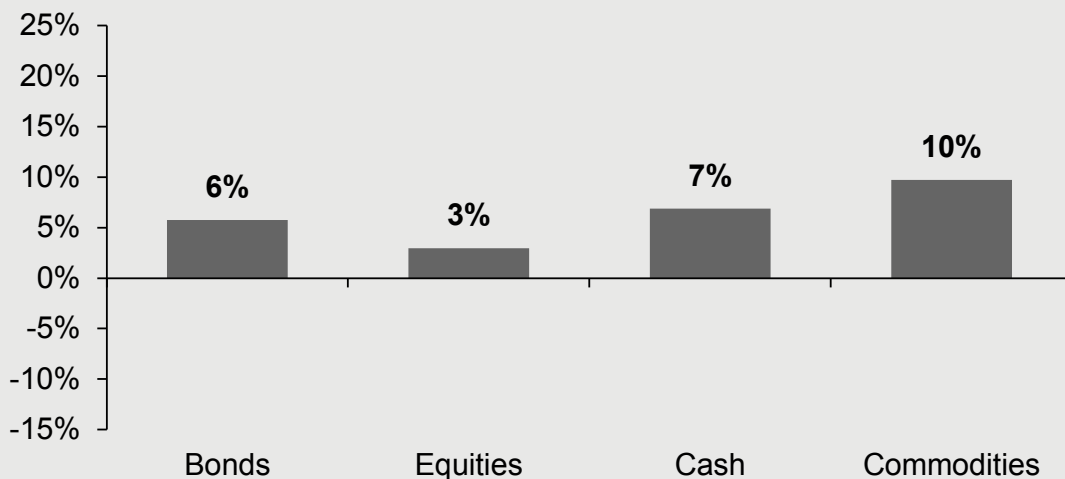
Economy

Rising inflation scenarios

Falling inflation scenarios

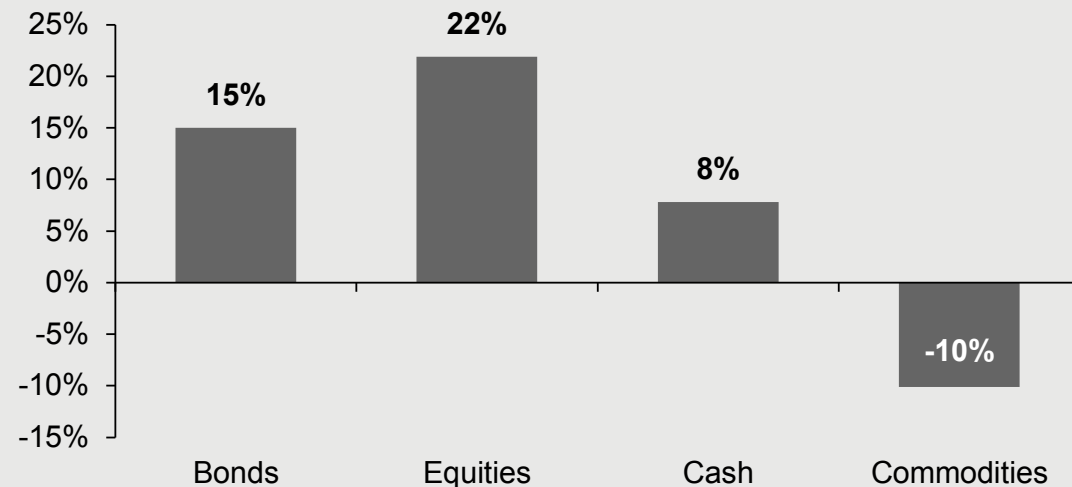
High and rising inflation

Occurred 13 times since 1974



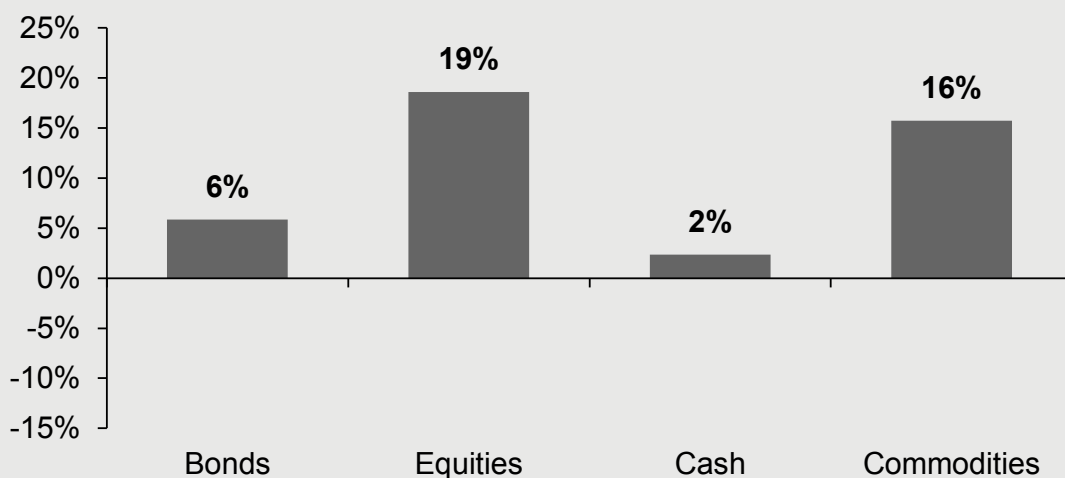
High and falling inflation

Occurred 8 times since 1974



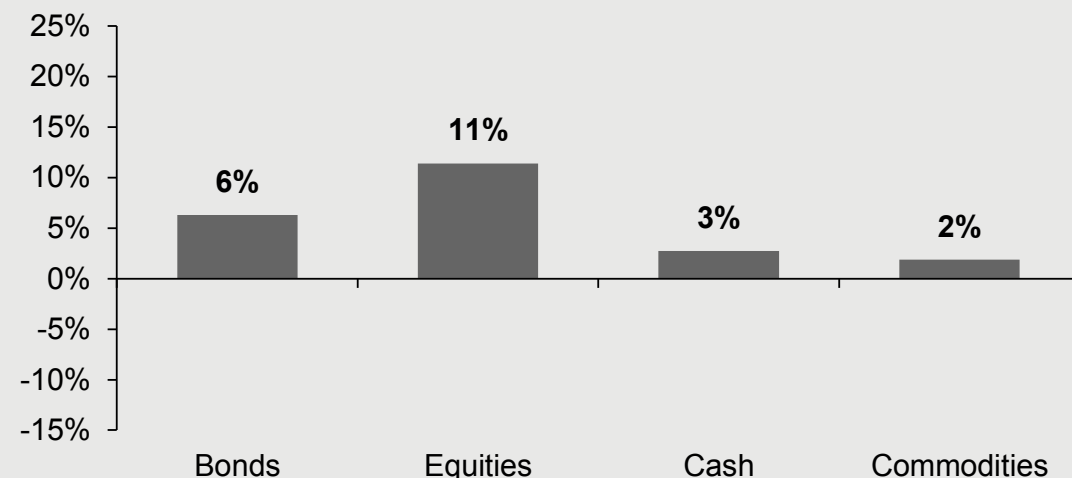
Low and rising inflation

Occurred 8 times since 1974



Low and falling inflation

Occurred 14 times since 1974



Above median

Median Inflation: 3.1%

Below median

Source: BLS, Barclays, Bloomberg, Robert Shiller, Federal Reserve, Strategas/Ibbotson, Standard & Poor's, FactSet, J.P. Morgan Asset Management. High or low inflation distinction is relative to median CPI-U inflation for the period 1974 to 2017. Rising or falling inflation distinction is relative to previous year CPI-U inflation rate. Bond returns are based on the Bloomberg Barclays U.S. Aggregate index since its inception in 1976 and a composite bond index prior to that. Equity returns based on S&P 500 price return and annual dividend yield (total return). Cash returns are based on the Bloomberg Barclays 1-3 Month T-Bill index since its inception in 1992 and 3-month T-Bill rates prior to that. Commodities returns based on S&P GSCI.

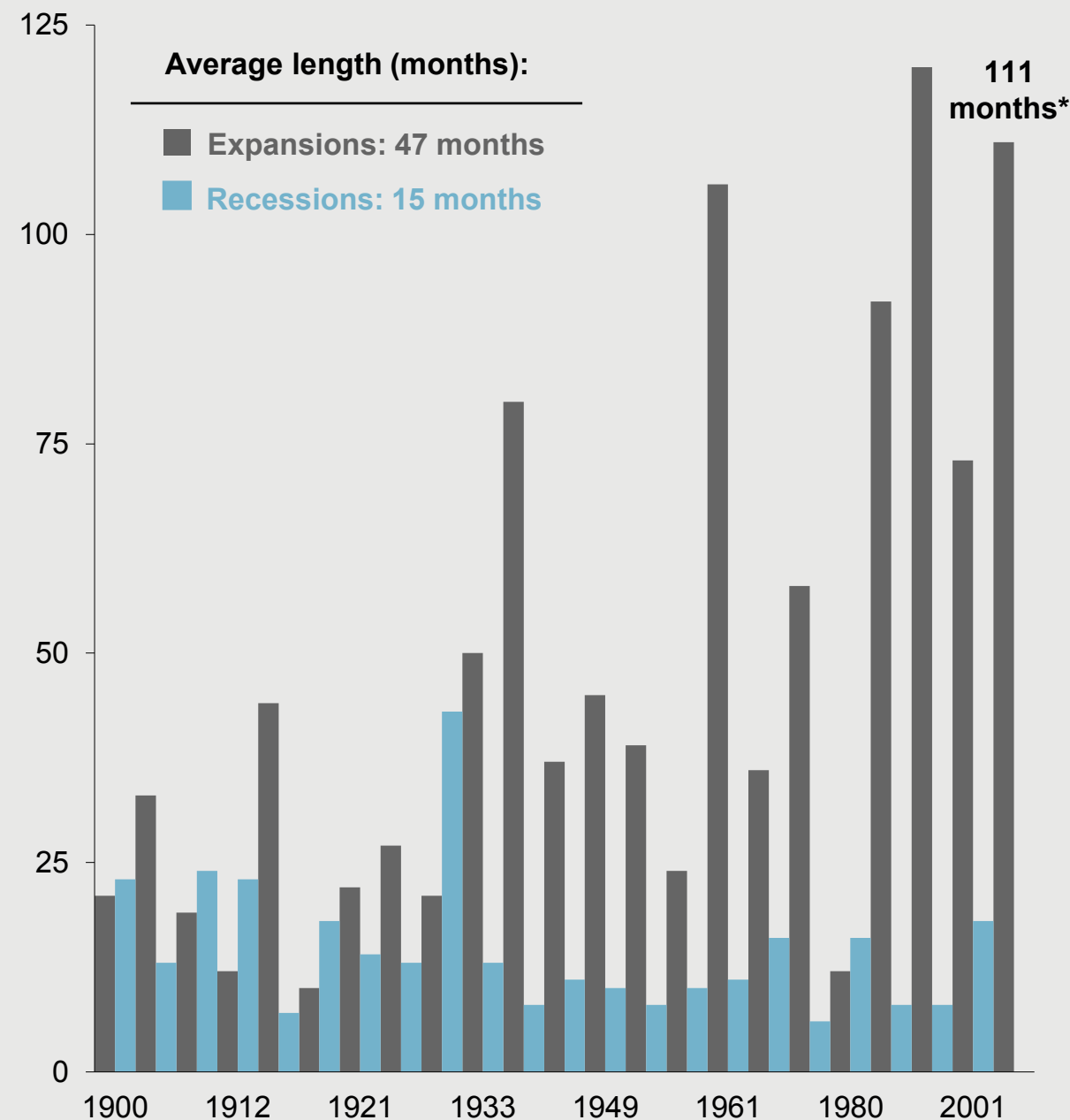
For illustrative purposes only. Past performance is not indicative of comparable future returns.
Guide to the Markets – U.S. Data are as of September 30, 2018.

The length of expansions and the depth of recessions

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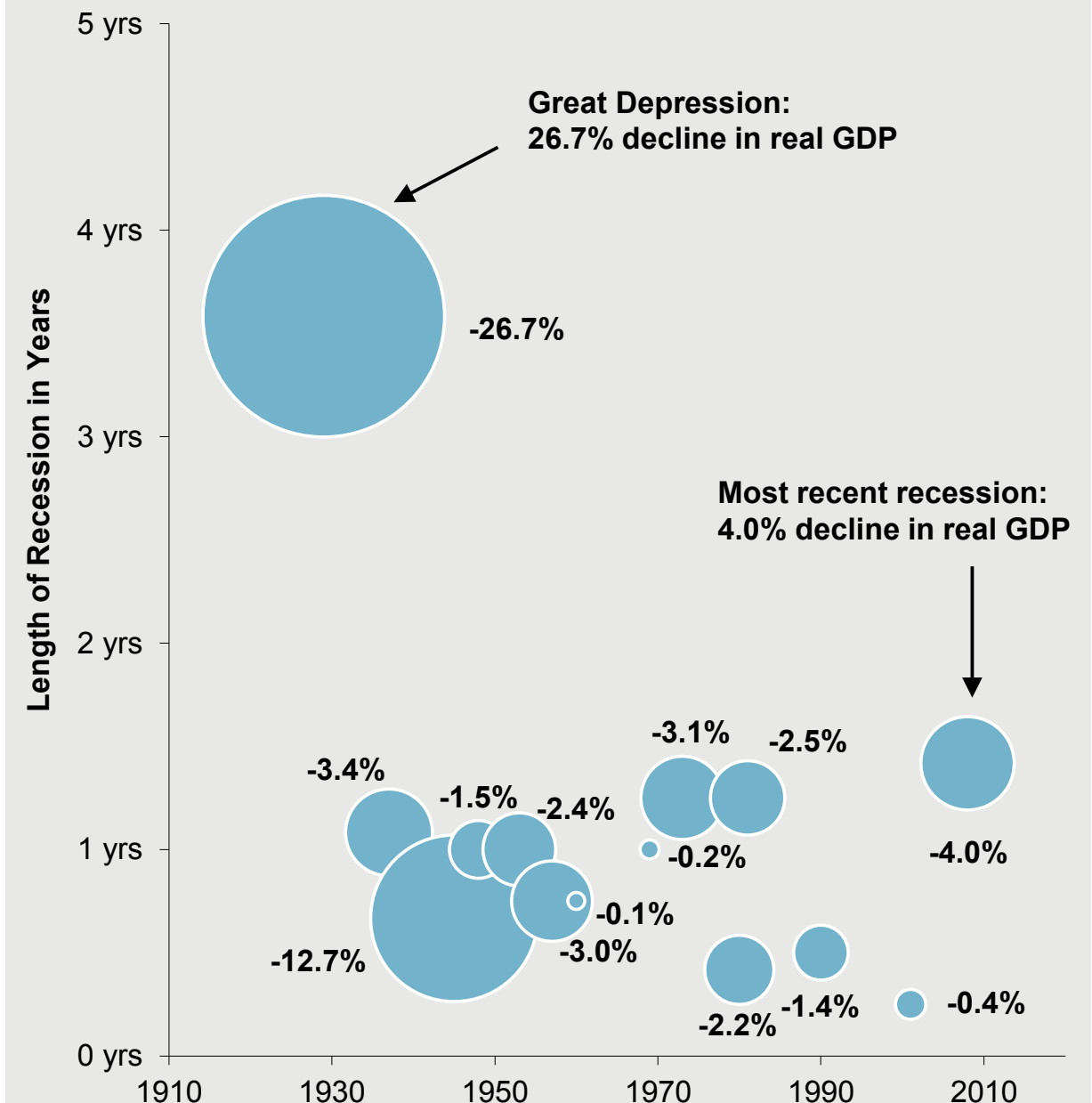
Economy

Length of economic expansions and recessions



The Great Depression and Post-war recessions

Length and severity of recession

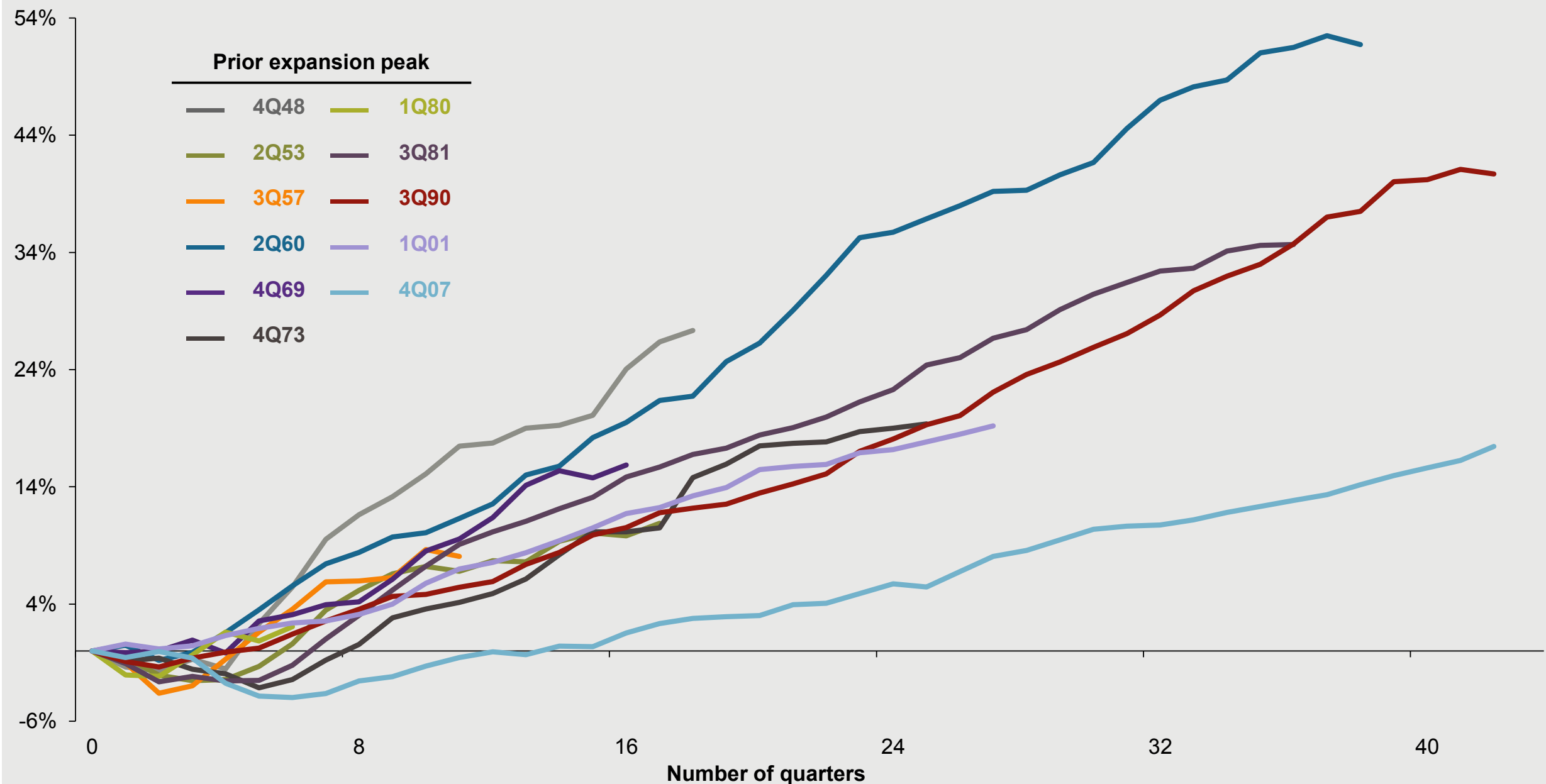


Source: BEA, NBER, J.P. Morgan Asset Management. *Chart assumes current expansion started in July 2009 and continued through September 2018, lasting 111 months so far. Data for length of economic expansions and recessions obtained from the National Bureau of Economic Research (NBER). These data can be found at www.nber.org/cycles/ and reflect information through September 2018. Bubble size reflects the severity of the recession, which is calculated as the decline in real GDP from the peak quarter to the trough quarter except in the case of the Great Depression, where it is calculated from the peak year (1929) to the trough year (1933), due to a lack of available quarterly data.

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Strength of economic expansions

Cumulative real GDP growth since prior peak, percent

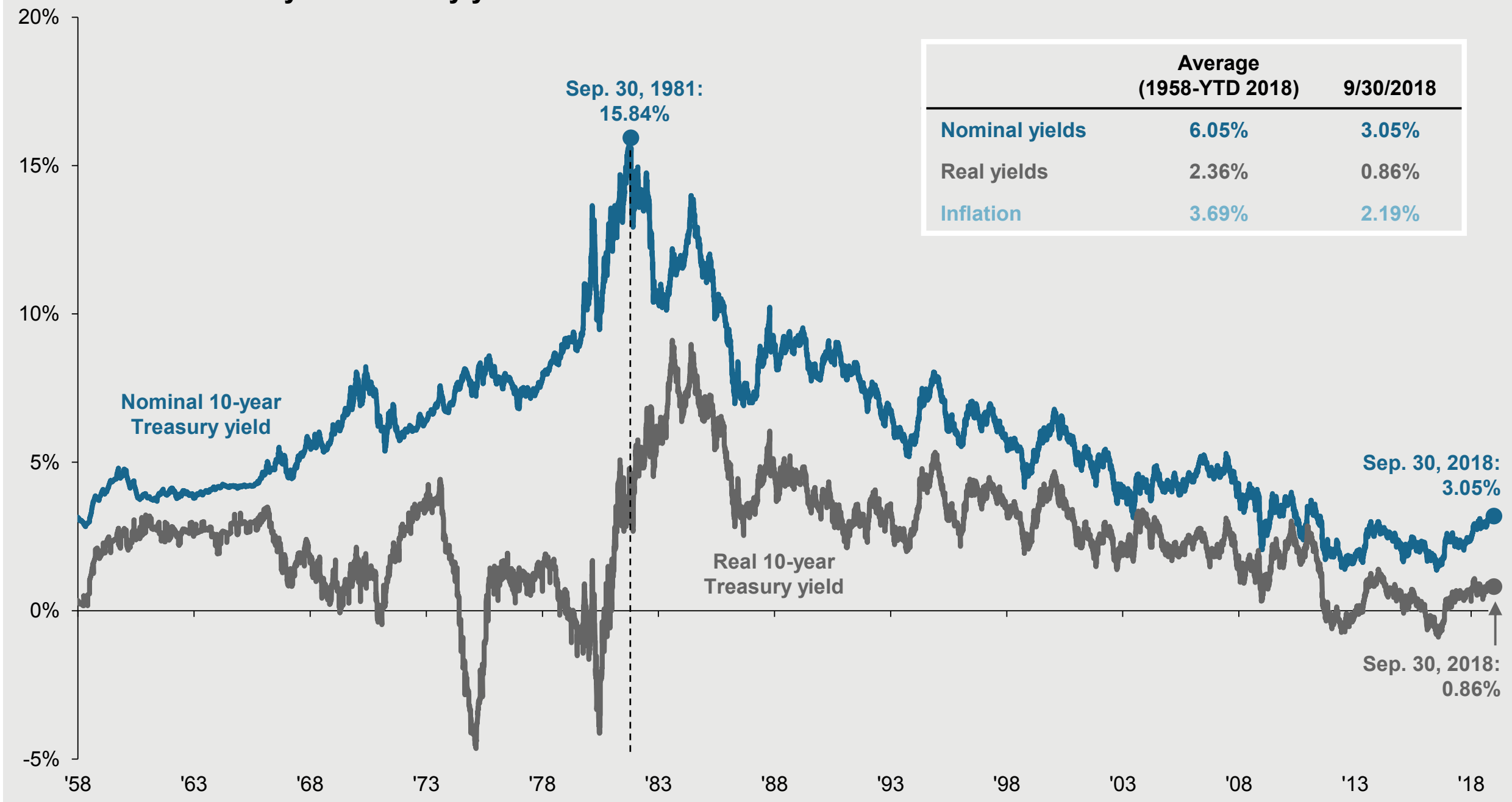


Source: BEA, NBER, J.P. Morgan Asset Management.
Guide to the Markets – U.S. Data are as of September 30, 2018.

Themes this Quarter

- Economic update
- **Interest rate update/expectations**
- Equity market assumptions
- What should investors do?

Nominal and real 10-year Treasury yields



Source: BLS, FactSet, Federal Reserve, J.P. Morgan Asset Management.

Real 10-year Treasury yields are calculated as the daily Treasury yield less year-over-year core CPI inflation for that month except for September 2018, where real yields are calculated by subtracting out August 2018 year-over-year core inflation.

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Fixed income yields and returns

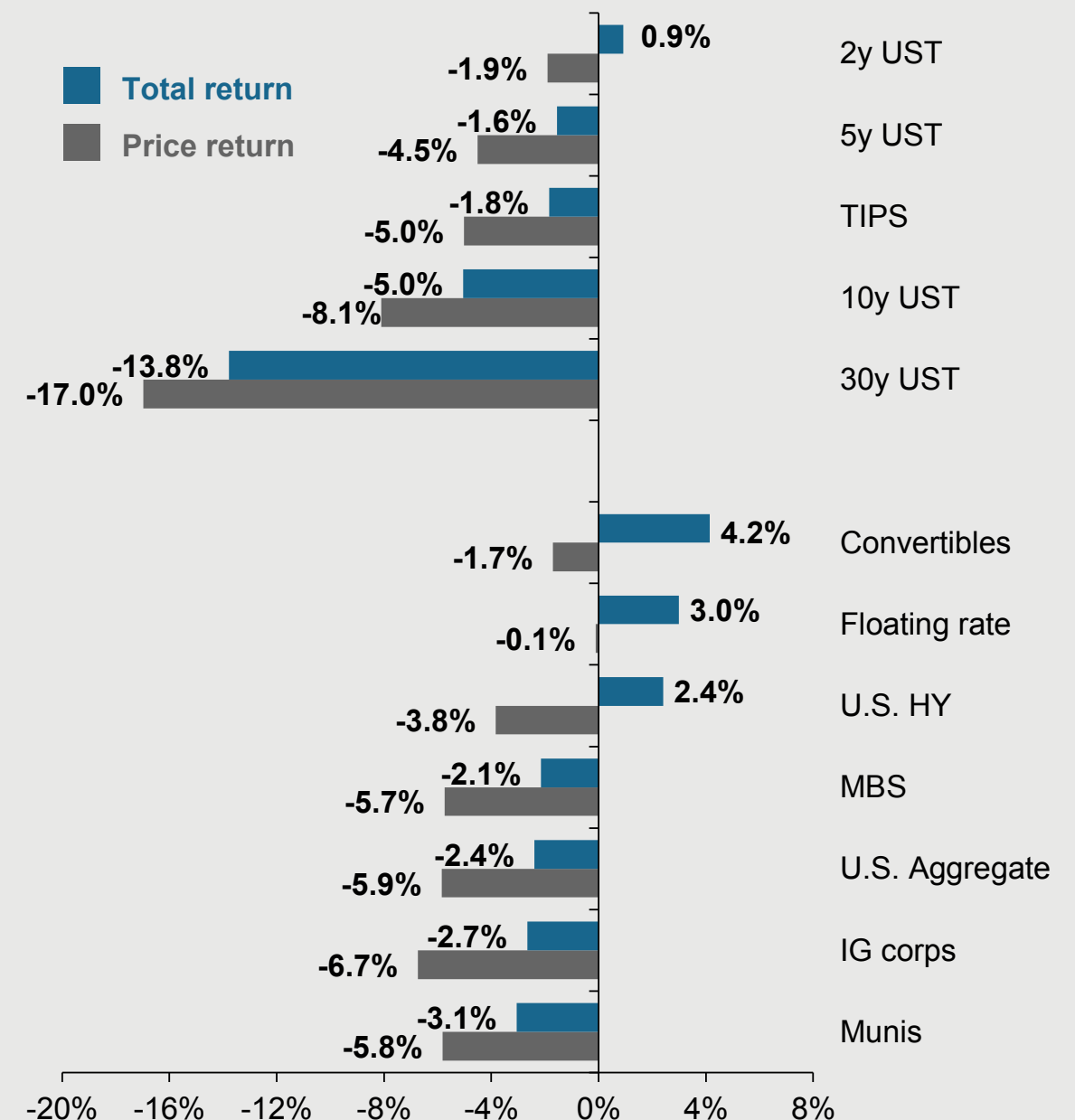
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Fixed income

U.S. Treasuries	Yield		Return			
	9/30/2018	12/31/2017	2018 YTD	Avg. Maturity	Correlation to 10-year	Correlation to S&P 500
2-Year	2.81%	1.89%	0.12%	2 years	0.71	-0.30
5-Year	2.94%	2.20%	-1.35%	5	0.92	-0.28
TIPS	0.91%	0.44%	-0.84%	10	0.56	0.23
10-Year	3.05%	2.40%	-3.73%	10	1.00	-0.29
30-Year	3.19%	2.74%	-6.55%	30	0.93	-0.31
Sector						
Convertibles	5.85%	6.35%	8.35%	-	-0.28	0.89
Floating Rate	3.10%	2.05%	2.06%	3.2	-0.33	0.38
High Yield	6.24%	5.72%	2.57%	6.0	-0.22	0.69
MBS	3.59%	2.91%	-1.07%	7.8	0.81	-0.10
Broad Market	3.46%	2.71%	-1.60%	8.4	0.87	0.02
Corporates	4.07%	3.25%	-2.33%	10.9	0.52	0.29
Municipals	2.76%	2.26%	-0.66%	9.9	0.55	-0.10

Impact of a 1% rise in interest rates

Assumes a parallel shift in the yield curve and steady spreads

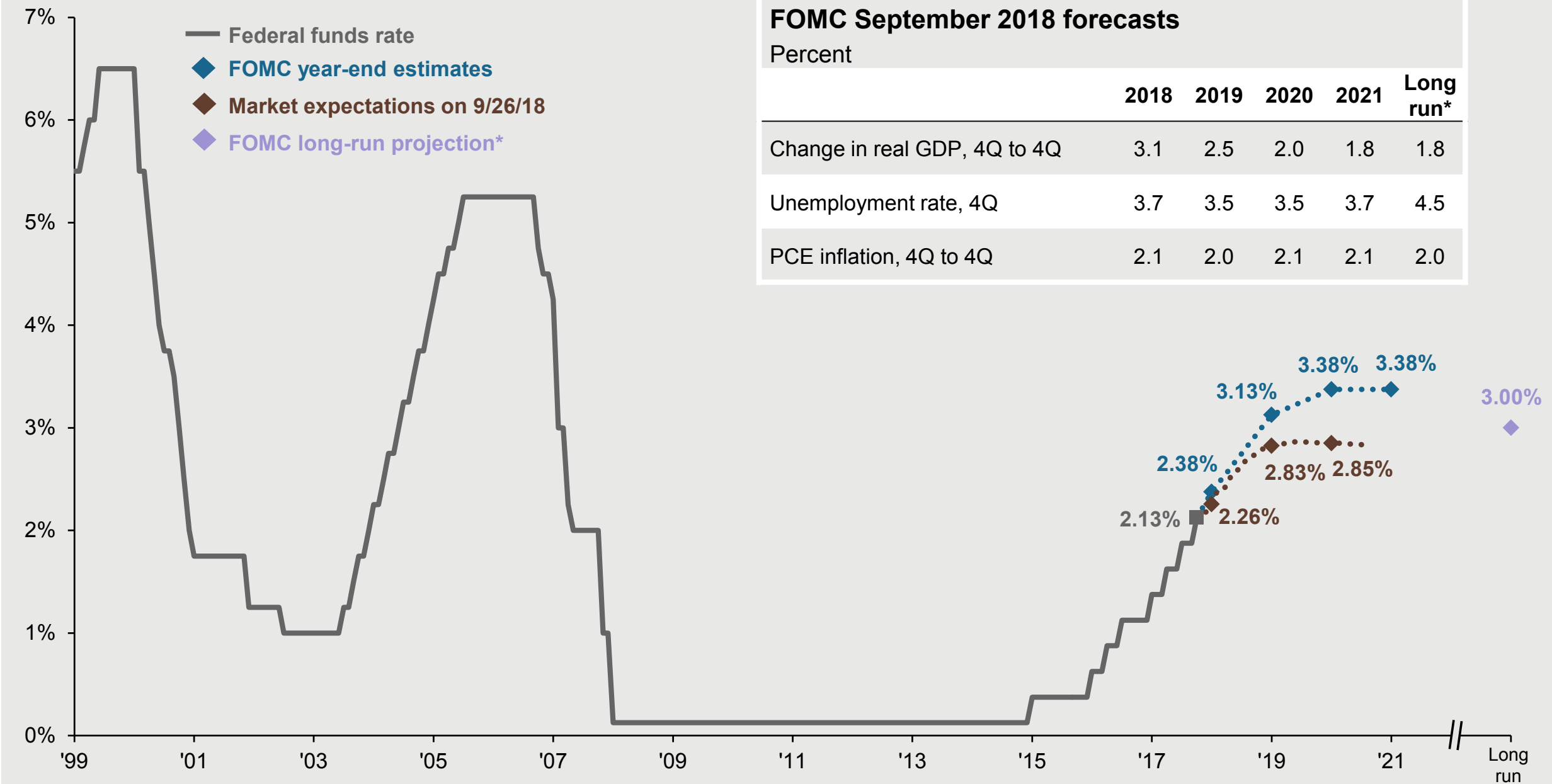


Source: Barclays, Bloomberg, FactSet, Standard & Poor's, U.S. Treasury, J.P. Morgan Asset Management. Sectors shown above are provided by Bloomberg and are represented by – Broad Market: U.S. Aggregate; MBS: U.S. Aggregate Securitized - MBS; Corporate: U.S. Corporates; Municipals: Muni Bond 10-year; High Yield: Corporate High Yield; TIPS: Treasury Inflation Protection Securities (TIPS); Floating Rate: FRN (BBB); Convertibles: U.S. Convertibles Composite. Yield and return information based on bellwethers for Treasury securities. Sector yields reflect yield to worst. Convertibles yield is based on US portion of Bloomberg Barclays Global Convertibles. Correlations are based on 10-years of monthly returns for all sectors. Change in bond price is calculated using both duration and convexity according to the following formula: New Price = (Price + (Price * - Duration * Change in Interest Rates)) + (0.5 * Price * Convexity * (Change in Interest Rates)^2). Chart is for illustrative purposes only. Past performance is not indicative of future results.

Guide to the Markets – U.S. Data are as of September 30, 2018.

Federal funds rate expectations

FOMC and market expectations for the fed funds rate



Source: Bloomberg, FactSet, Federal Reserve, J.P. Morgan Asset Management.

Market expectations are the federal funds rates priced into the fed futures market as of the date of the September 2018 FOMC meeting and are through September 2021. *Long-run projections are the rates of growth, unemployment and inflation to which a policymaker expects the economy to converge over the next five to six years in absence of further shocks and under appropriate monetary policy.

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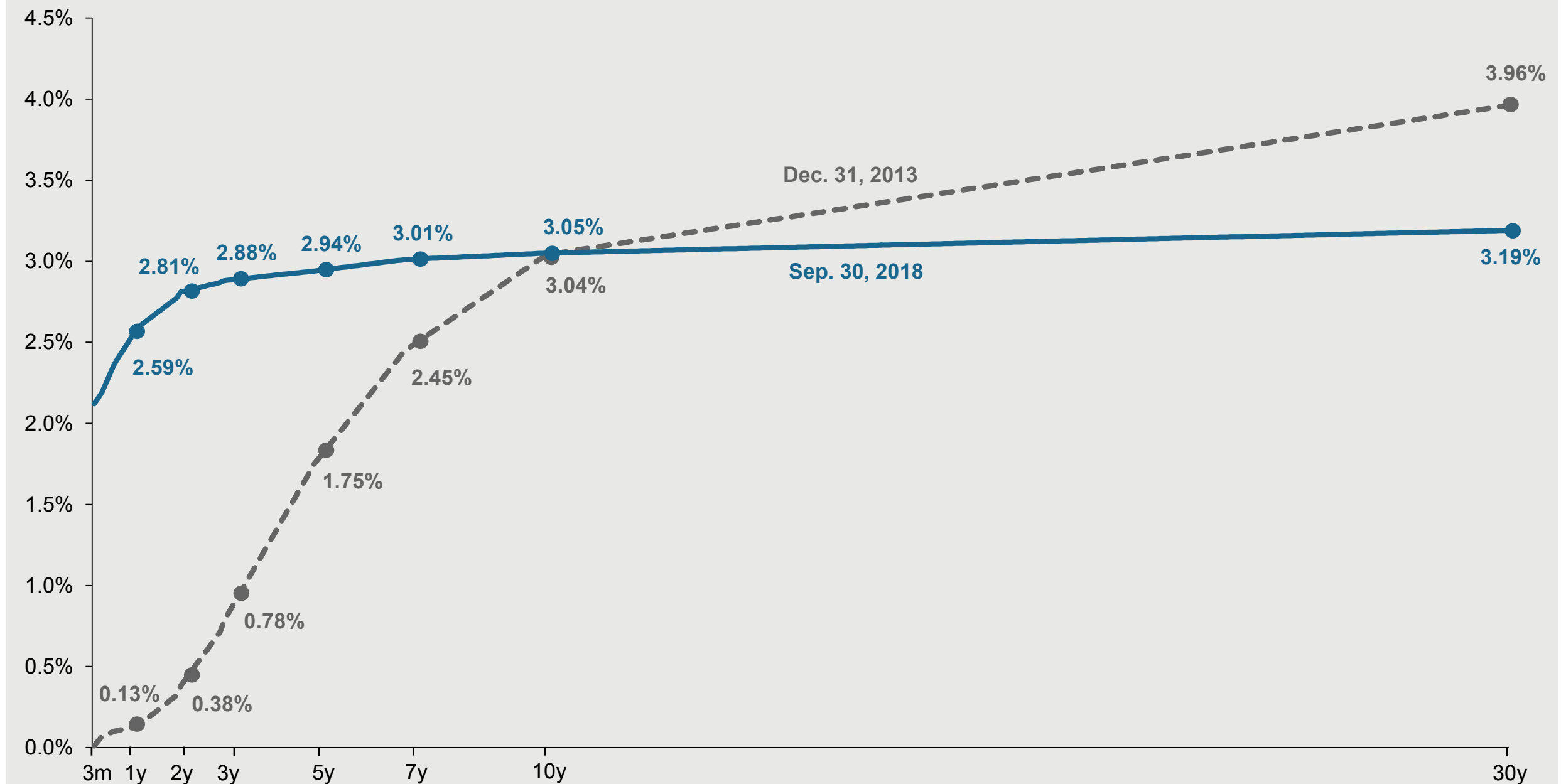
Yield curve

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Fixed income

Yield curve

U.S. Treasury yield curve



Source: FactSet, Federal Reserve, J.P. Morgan Asset Management.
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Yield curve inversion



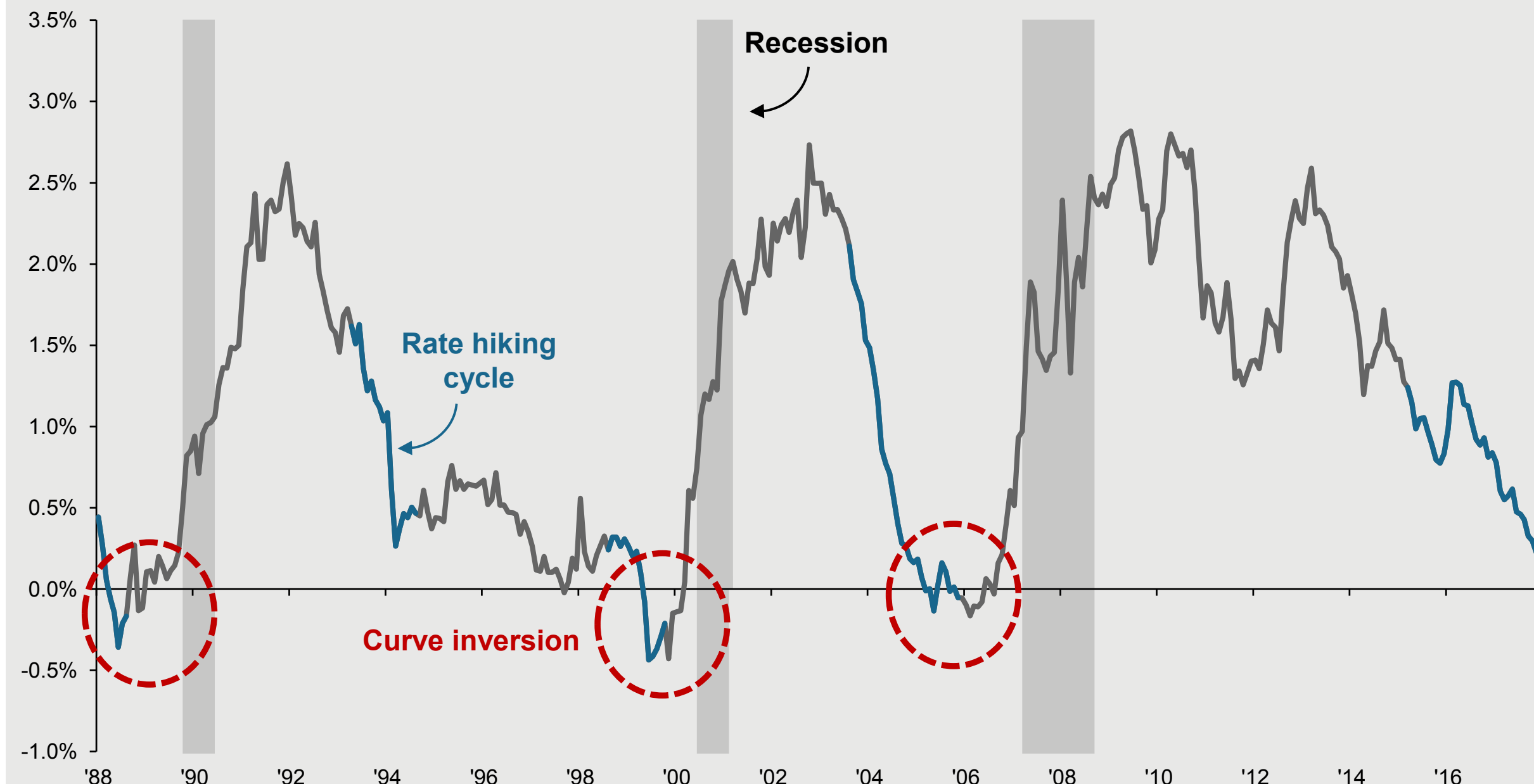
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| On the Bench

Fixed income

U.S. 10-year yield minus US 2-year yield

Spread, %



Source: Tullett Prebon, FactSet, J.P. Morgan Asset Management.
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Fund flows



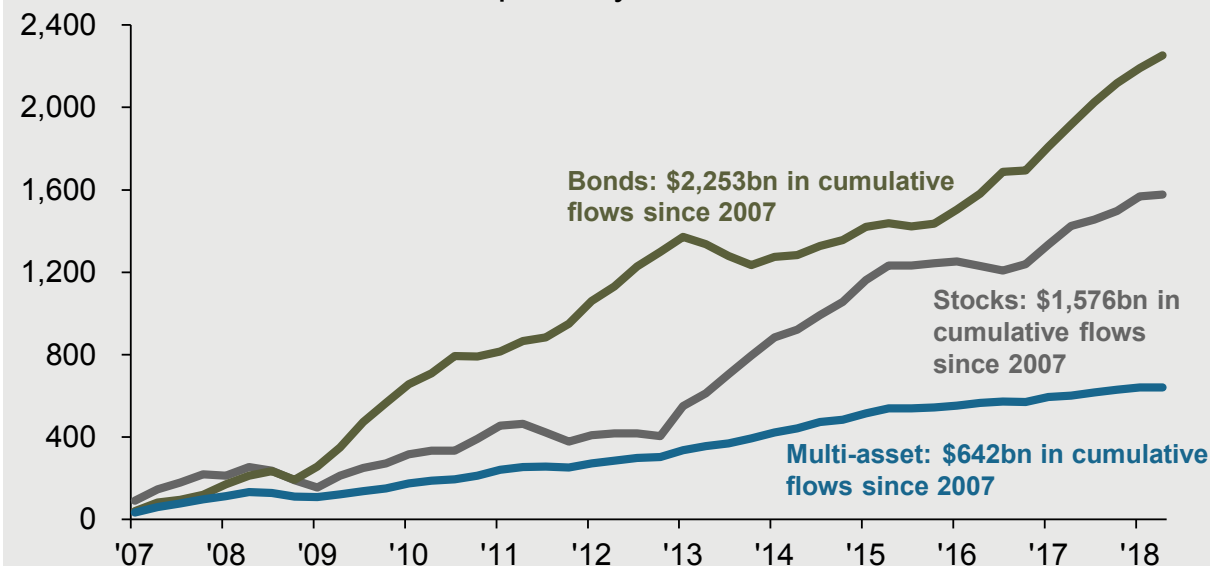
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Registered product flows

USD billions	AUM	YTD	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
U.S. equity	8,800	(3)	16	(14)	(17)	112	188	(33)	(34)	33	22	2	28	80	116	175	144	58	89
World equity	3,470	95	244	10	205	150	201	61	20	87	60	(32)	190	171	134	89	39	11	(9)
Taxable bond	3,678	169	392	227	58	89	(9)	298	165	212	302	59	107	51	46	27	45	105	59
Tax-free bond	715	16	33	31	21	33	(55)	52	(8)	14	71	12	14	17	7	(7)	(3)	12	9
Multi-asset	2,550	10	60	29	61	96	97	51	33	58	39	11	97	78	80	82	51	22	19
Liquidity	2,711	(5)	88	194	39	31	30	(1)	(52)	(348)	(259)	678	542	184	51	(53)	(91)	2	257

Cumulative flows into long-term asset products

Mutual fund and ETF flows, quarterly, USD billions



Flows into U.S. equity funds & S&P 500 performance

Mutual fund and ETF flows, price index, quarterly, USD billions



Source: Strategic Insight Simfund, J.P. Morgan Asset Management. All data include flows through July 2018 and capture all registered product flows (open-end mutual funds and ETFs). Simfund data are subject to periodic revisions. World equity flows are inclusive of emerging market, global equity and regional equity flows. Multi-asset flows include asset allocation, balanced fund, flexible portfolio and mixed income flows.

Guide to the Markets – U.S. Data are as of August 31, 2018.

The Federal Reserve balance sheet

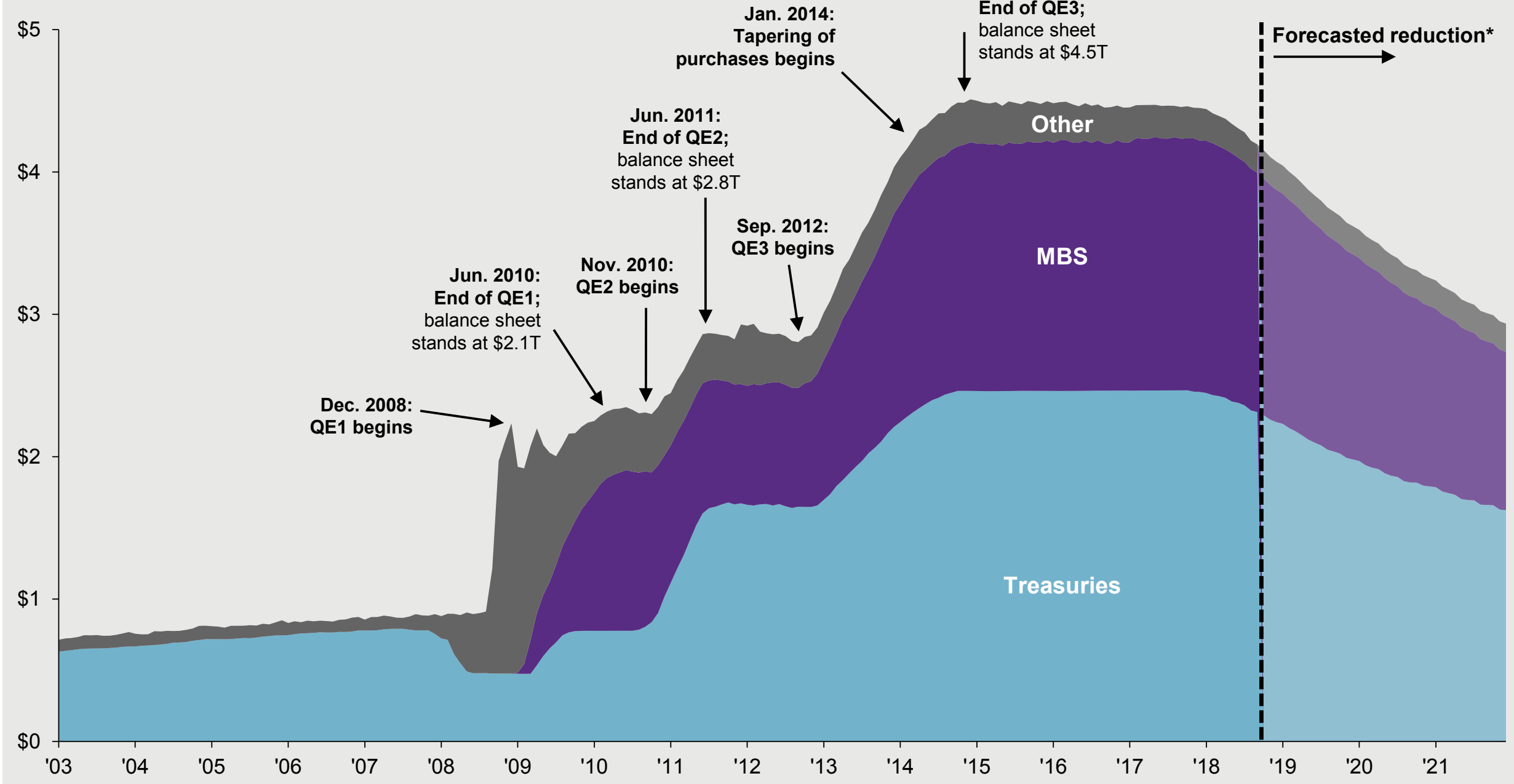


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| On the Bench

The Federal Reserve balance sheet

USD trillions



Source: FactSet, Federal Reserve, J.P. Morgan Investment Bank, J.P. Morgan Asset Management.

Currently, the balance sheet contains \$2.3 trillion in Treasuries and \$1.7 trillion in MBS. The end balance forecast is \$1.6 trillion in Treasuries and \$1.1 trillion in MBS. *Balance sheet reduction assumes reduction from current level, beginning October 2018 until December 2021. Reduction of Treasuries and MBS is per FOMC guidelines from the September 2017 meeting minutes: the cap on Treasury securities will begin at \$6 billion per month initially and reduction rate will increase in steps of \$6 billion at three-month intervals over 12 months until reaching \$30 billion per month; the MBS cap will begin at \$4 billion per month initially and will increase in steps of \$4 billion at three-month intervals over 12 months until reaching \$20 billion per month; Other assets are reduced in proportion. MBS pay down projections are J.P. Morgan Investment Bank forecasts. In those months where the amount of maturing assets do not exceed the stated cap then the balance sheet will be reduced by the total amount of maturing assets. *Guide to the Markets – U.S.* Data are as of September 30, 2018.

Themes this Quarter

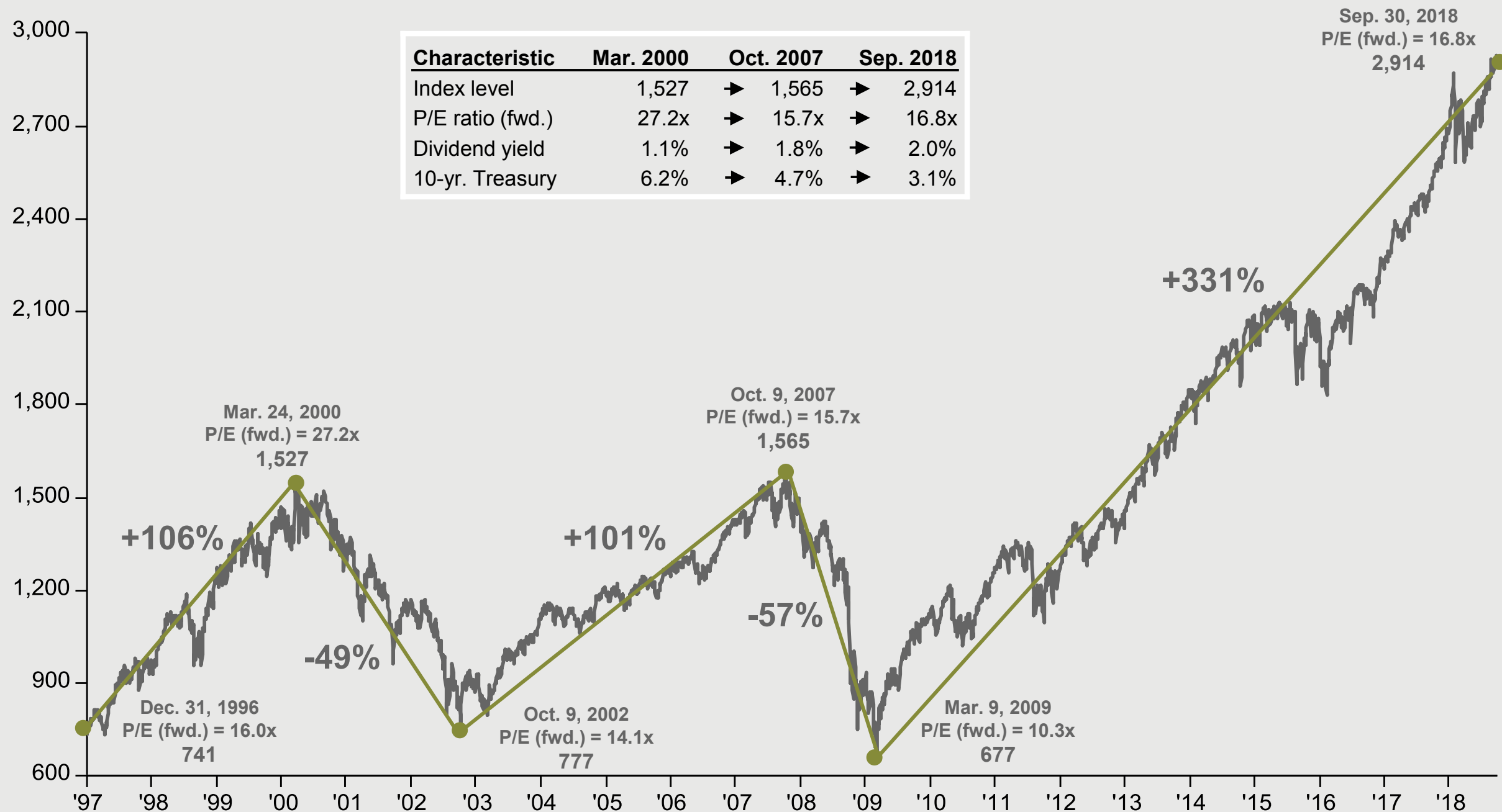
- Economic update
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S&P 500 Index at inflection points

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Equities

S&P 500 Price Index



Source: Compustat, FactSet, Federal Reserve, Standard & Poor's, J.P. Morgan Asset Management.
 Dividend yield is calculated as consensus estimates of dividends for the next 12 months, divided by most recent price, as provided by Compustat.
 Forward price to earnings ratio is a bottom-up calculation based on the most recent S&P 500 Index price, divided by consensus estimates for earnings in the next 12 months (NTM), and is provided by FactSet Market Aggregates. Returns are cumulative and based on S&P 500 Index price movement only, and do not include the reinvestment of dividends. Past performance is not indicative of future returns.
 Guide to the Markets – U.S. Data are as of September 30, 2018.

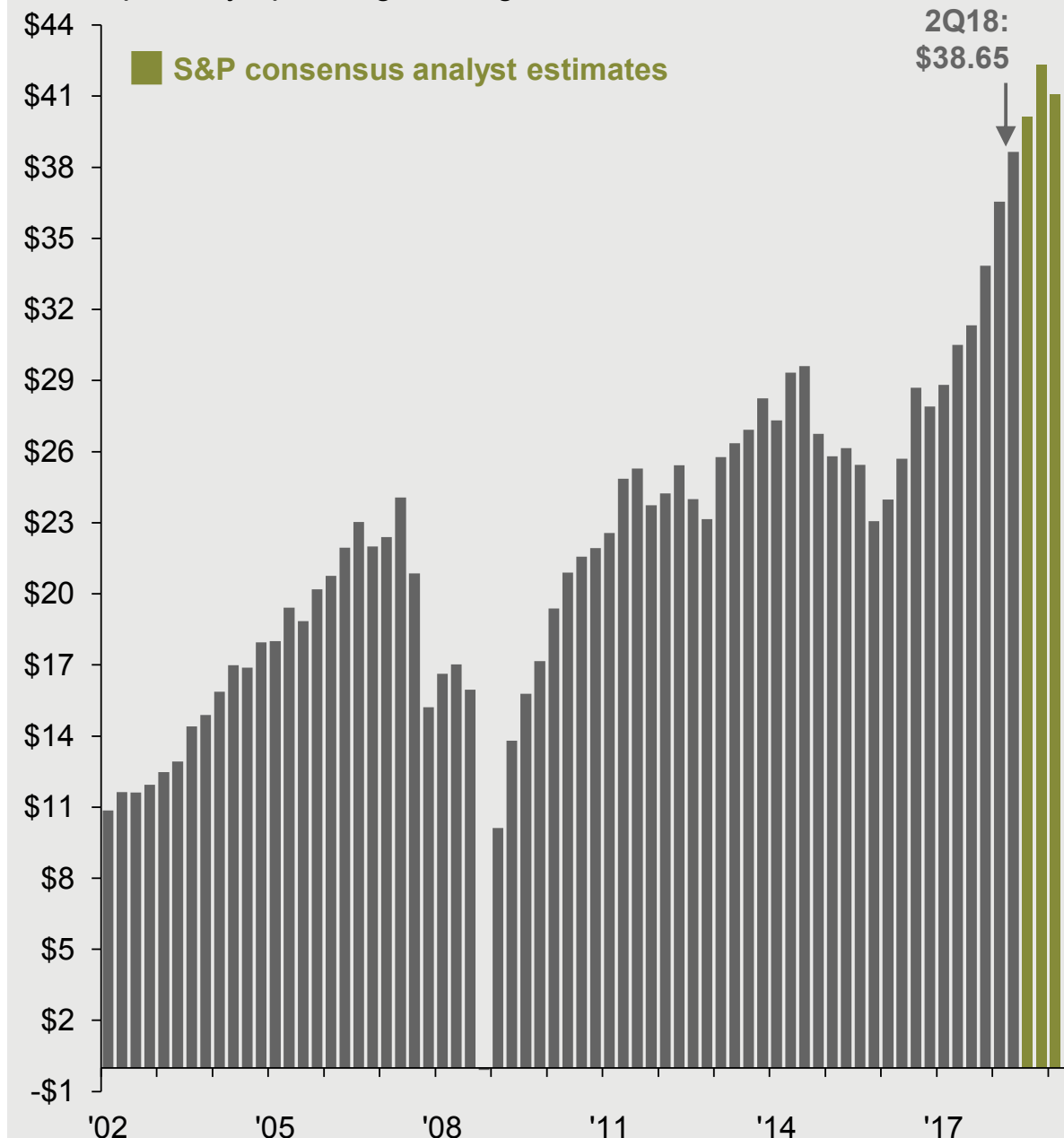
Corporate profits

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Equities

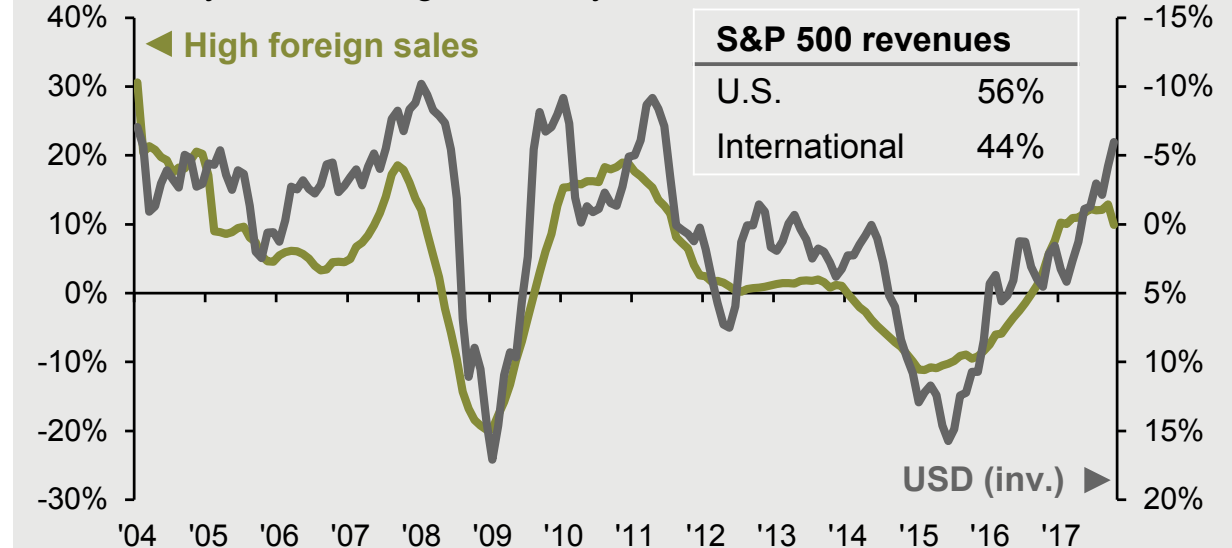
S&P 500 earnings per share

Index quarterly operating earnings



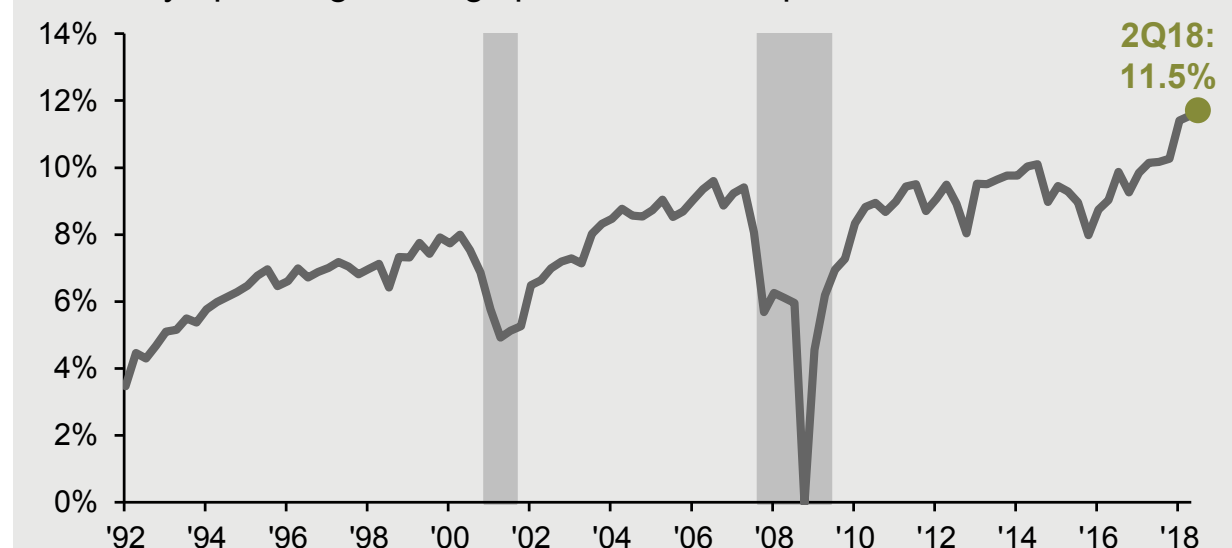
S&P 500 sales and the U.S. dollar

Year-over-year % change, monthly, USD broad currencies index



S&P 500 profit margins

Quarterly operating earnings per share/sales per share



Source: Compustat, FactSet, Standard & Poor's, J.P. Morgan Asset Management; (Top right) Federal Reserve.
 EPS levels are based on operating earnings per share. Earnings estimates are Standard & Poor's consensus analyst expectations. Past performance is not indicative of future returns. Currencies in the Trade Weighted U.S. Dollar Major Currencies Index are: Argentine peso, Australian dollar, Brazil real, British pound, Canadian dollar, Chilean peso, Chinese renminbi, Colombian peso, euro, Hong Kong dollar, Indian rupee, Indonesian rupiah, Israeli new shekel, Japanese yen, Korean won, Malaysia ringgit, Mexican peso, Philippine peso, Russian ruble, Saudi riyal, Singapore dollar, Swedish krona, Swiss franc, New Taiwan dollar, Thai baht, Venezuelan bolivar. High foreign sales is the average of the year-over-year % change in last 12 months sales of the following S&P 500 sectors: information technology, materials, energy, industrials. U.S. dollar has a 9-month lag.
 Guide to the Markets – U.S. Data are as of September 30, 2018.

Profit margins and wages



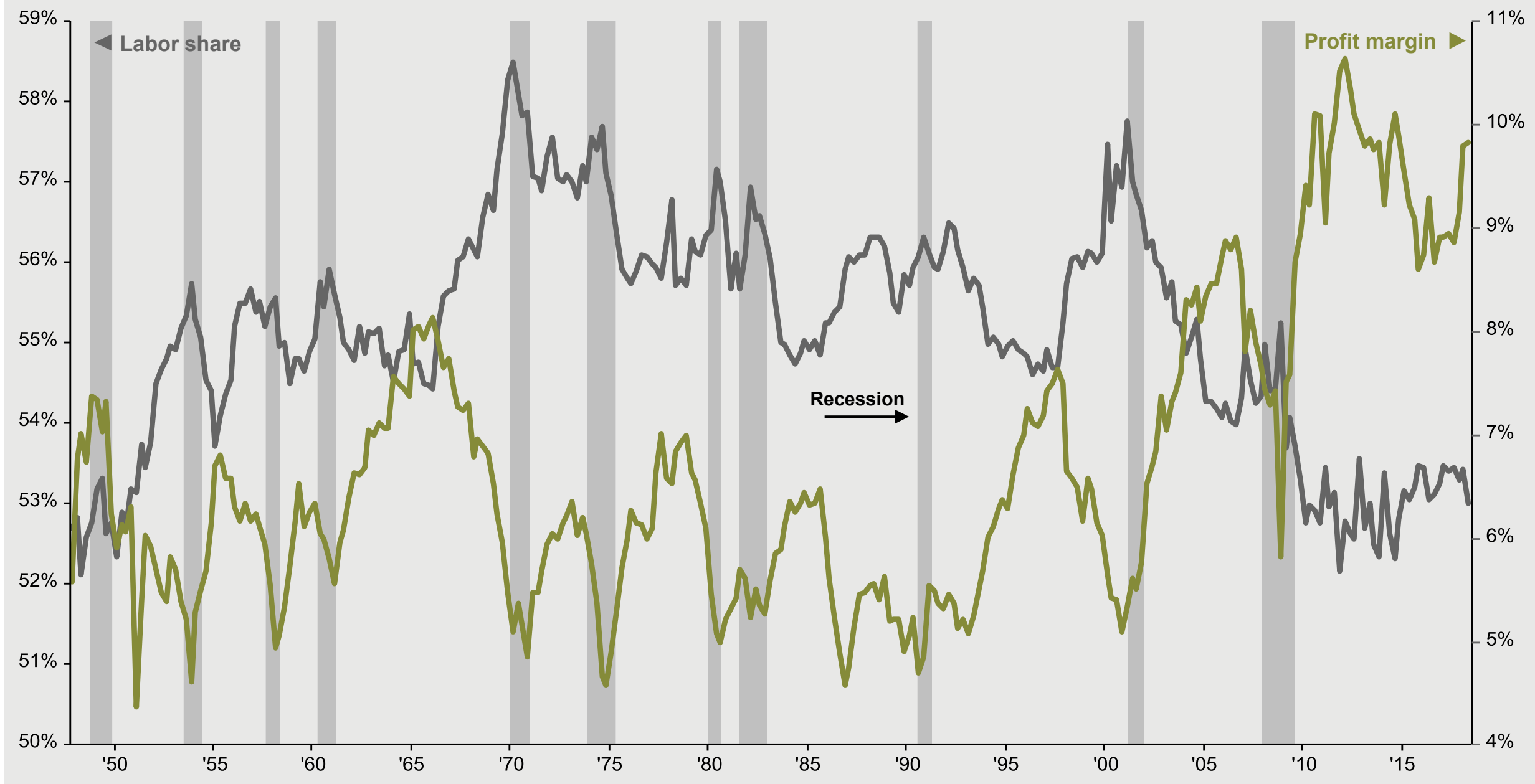
GTM - U.S.

| On the Bench

Equities

Labor share of income and profit margins

Employee compensation % nominal GDP, after-tax corporate profits with inventory & valuation adjustment % nominal GDP, SAAR



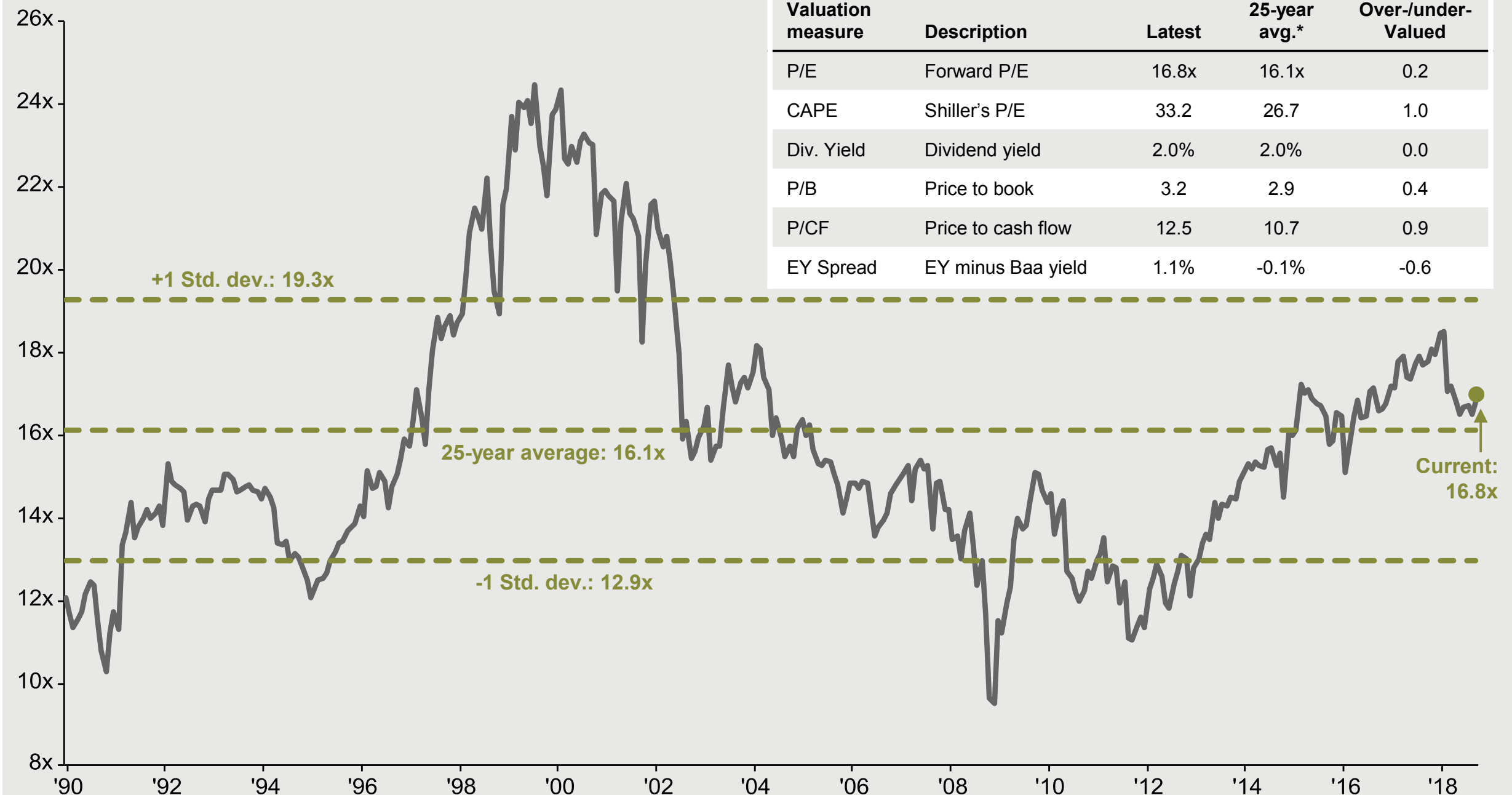
Source: BEA, FactSet, J.P. Morgan Asset Management.
Guide to the Markets – U.S. Data are as of September 30, 2018.

S&P 500 valuation measures

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Equities

S&P 500 Index: Forward P/E ratio



Source: FactSet, FRB, Robert Shiller, Standard & Poor's, Thomson Reuters, J.P. Morgan Asset Management.

Price to earnings is price divided by consensus analyst estimates of earnings per share for the next 12 months as provided by IBES since December 1989, and FactSet for September 30, 2018. Average P/E and standard deviations are calculated using 25 years of FactSet history. Shiller's P/E uses trailing 10-years of inflation-adjusted earnings as reported by companies. Dividend yield is calculated as the next 12-month consensus dividend divided by most recent price. Price to book ratio is the price divided by book value per share. Price to cash flow is price divided by NTM cash flow. EY minus Baa yield is the forward earnings yield (consensus analyst estimates of EPS over the next 12 months divided by price) minus the Moody's Baa seasoned corporate bond yield. Std. dev. over-/under-valued is calculated using the average and standard deviation over 25 years for each measure. *P/CF is a 20-year average due to cash flow data availability.

Guide to the Markets – U.S. Data are as of September 30, 2018.

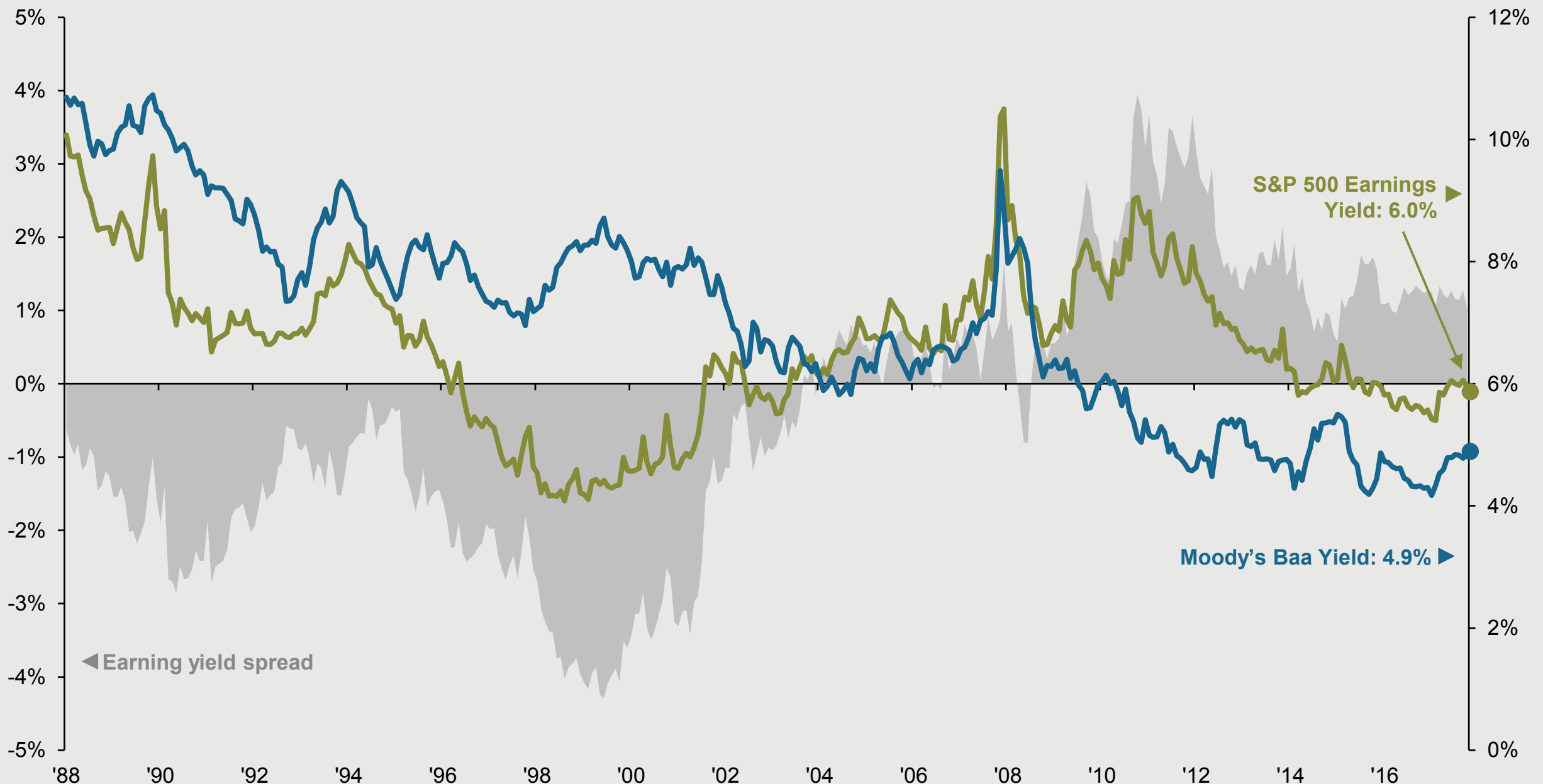
S&P 500 earnings yield vs. Baa corporate yield

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Equities

S&P 500 earnings yield vs. Baa corporate bond yields

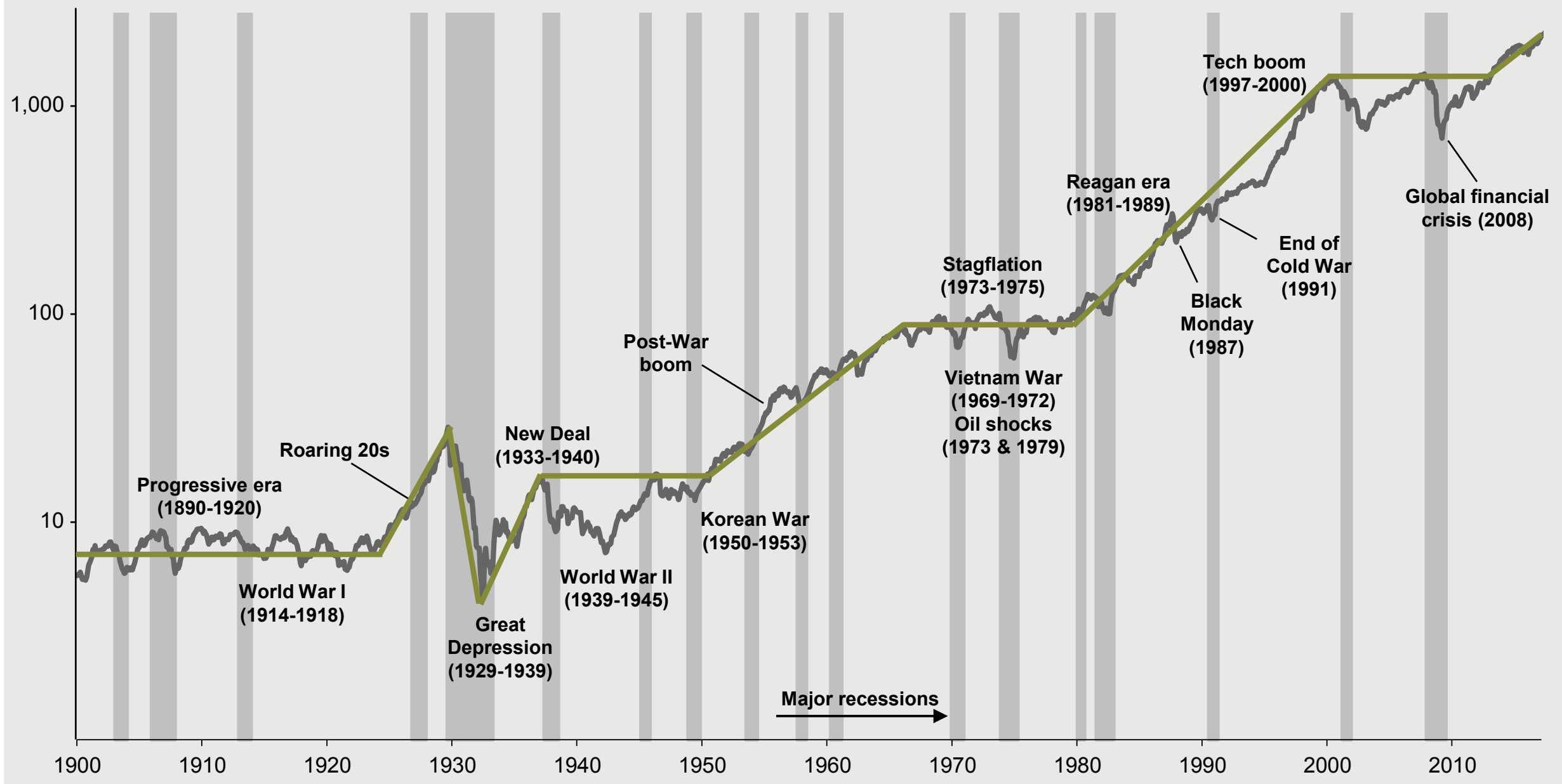
NTMA earnings estimates divided by price (inverse of fwd. P/E), Moody's Baa corporate bond yield, monthly



Source: FactSet, FRB, IBES, Standard & Poor's, J.P. Morgan Asset Management. Earnings yield is the forward earnings yield (consensus analyst estimates of EPS over the next 12 months divided by price) as provided by IBES since December 1988, and FactSet for September 30, 2018. Guide to the Markets – U.S. Data are as of September 30, 2018.

S&P Composite Index

Log scale, annual



Source: FactSet, NBER, Robert Shiller, J.P. Morgan Asset Management.

Data shown in log scale to best illustrate long-term index patterns. Past performance is not indicative of future returns. Chart is for illustrative purposes only.

Guide to the Markets – U.S. Data are as of September 30, 2018.

MSCI All Country World ex-U.S. and S&P 500 Indices

Dec. 1996 = 100, U.S. dollar, price return



Source: FactSet, MSCI, Standard & Poor's, J.P. Morgan Asset Management.

Forward price to earnings ratio is a bottom-up calculation based on the most recent index price, divided by consensus estimates for earnings in the next 12 months (NTM), and is provided by FactSet Market Aggregates. Returns are cumulative and based on price movement only, and do not include the reinvestment of dividends. Dividend yield is calculated as consensus estimates of dividends for the next 12 months, divided by most recent price, as provided by FactSet Market Aggregates. Past performance is not a reliable indicator of current and future results.

Guide to the Markets – U.S. Data are as of June 30, 2018.

Cycles of U.S. equity outperformance

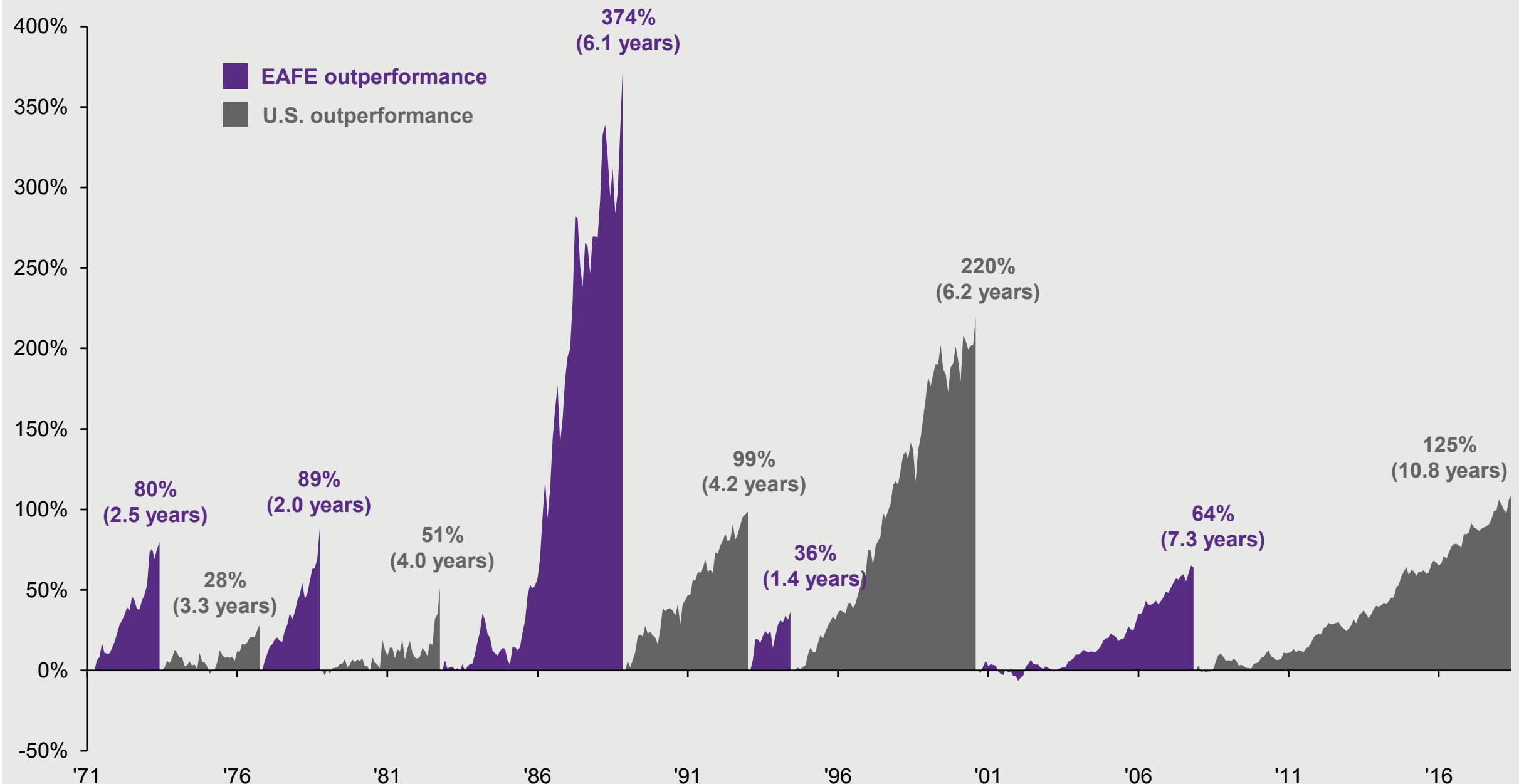


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On the Bench

MSCI EAFE and MSCI USA relative performance

U.S. dollar, total return, cumulative outperformance



International

Source: MSCI, FactSet, J.P. Morgan Asset Management.

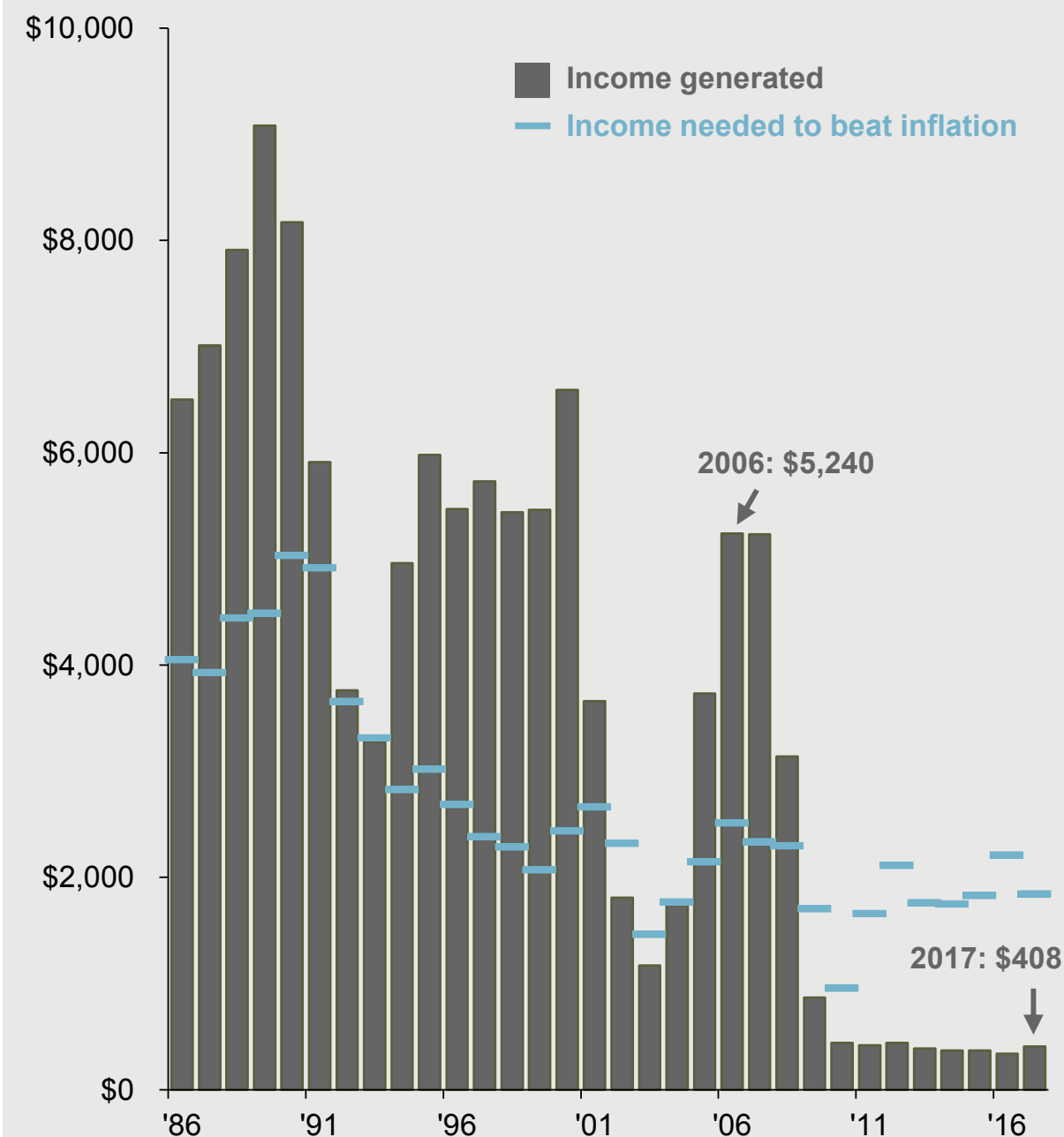
*Cycles of outperformance include a qualitative component to determine turning points in leadership.

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Themes this Quarter

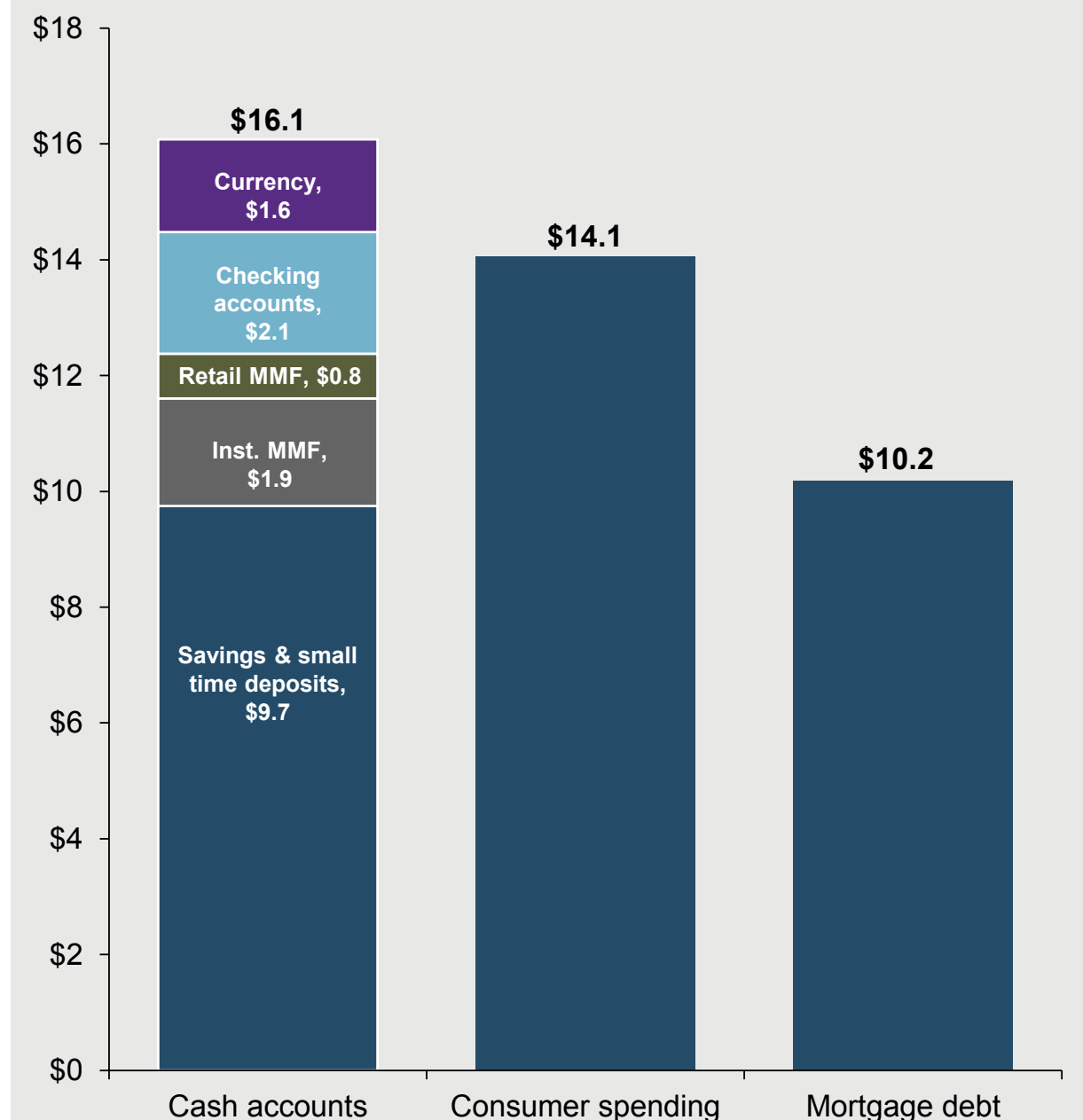
- Economic update
- Interest rate update/expectations
- Equity market assumptions
- **What should investors do?**

Income earned by \$100,000 investment in a 6-mo. CD



Cash accounts in perspective

Trillions of U.S. dollars



Source: FactSet, J.P. Morgan Asset Management; (Left) Bankrate.com; (Right) BEA, Federal Reserve System.

Cash accounts and consumer spending are as of 8/31/18 and mortgage debt is as of 6/30/18. M2 includes M1 (currency in circulation and checking accounts) plus savings deposits, small-denomination time deposits and retail money market mutual funds. Institutional money market funds are considered a memorandum item, not included in M2. Annual income is for illustrative purposes and is calculated based on the 6-month CD yield on average during each year and \$100,000 invested. Past performance is not indicative of comparable future results.

Guide to the Markets – U.S. Data are as of September 30, 2018.

Annual returns and intra-year declines

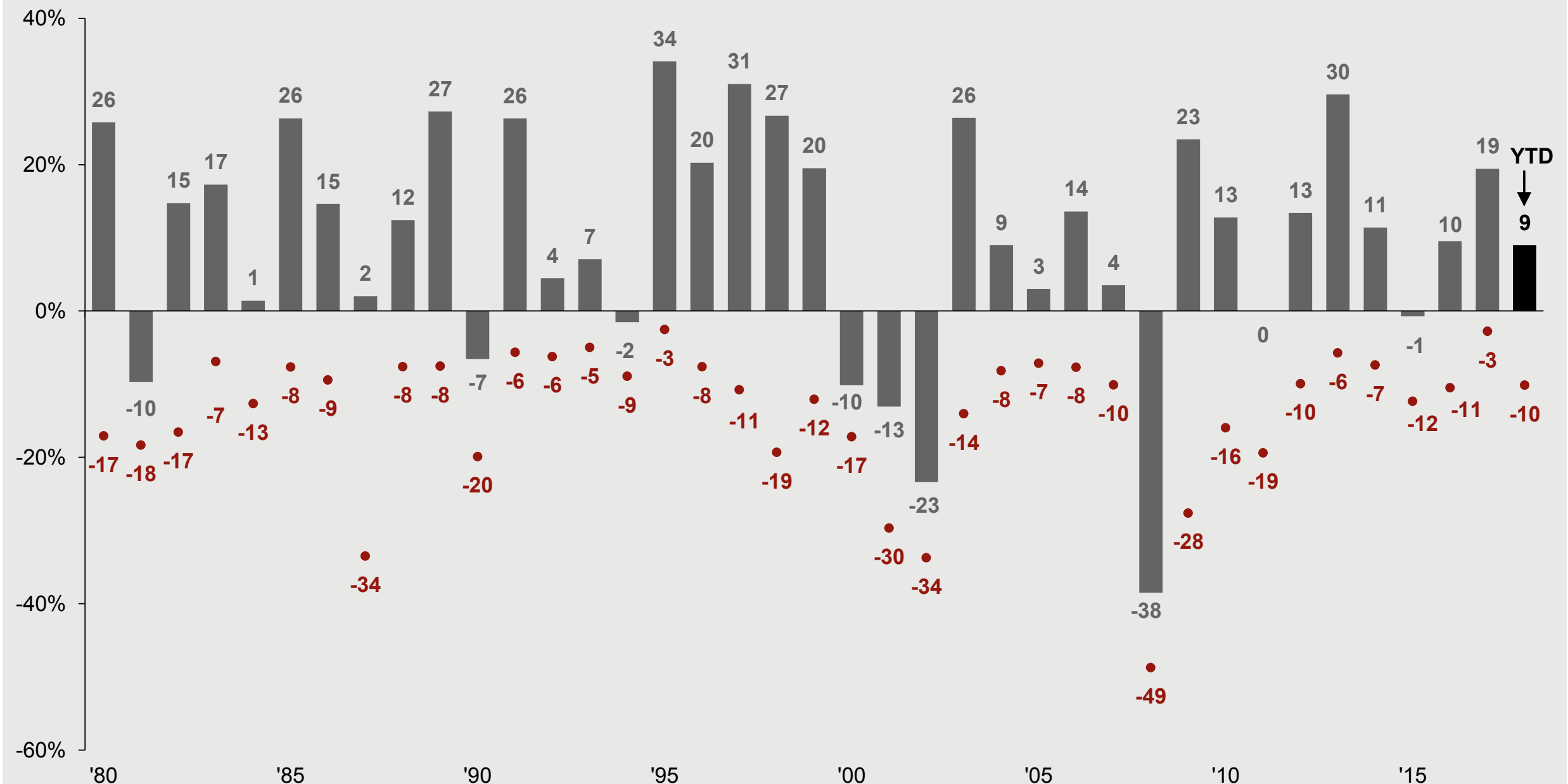


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Equities

S&P 500 intra-year declines vs. calendar year returns

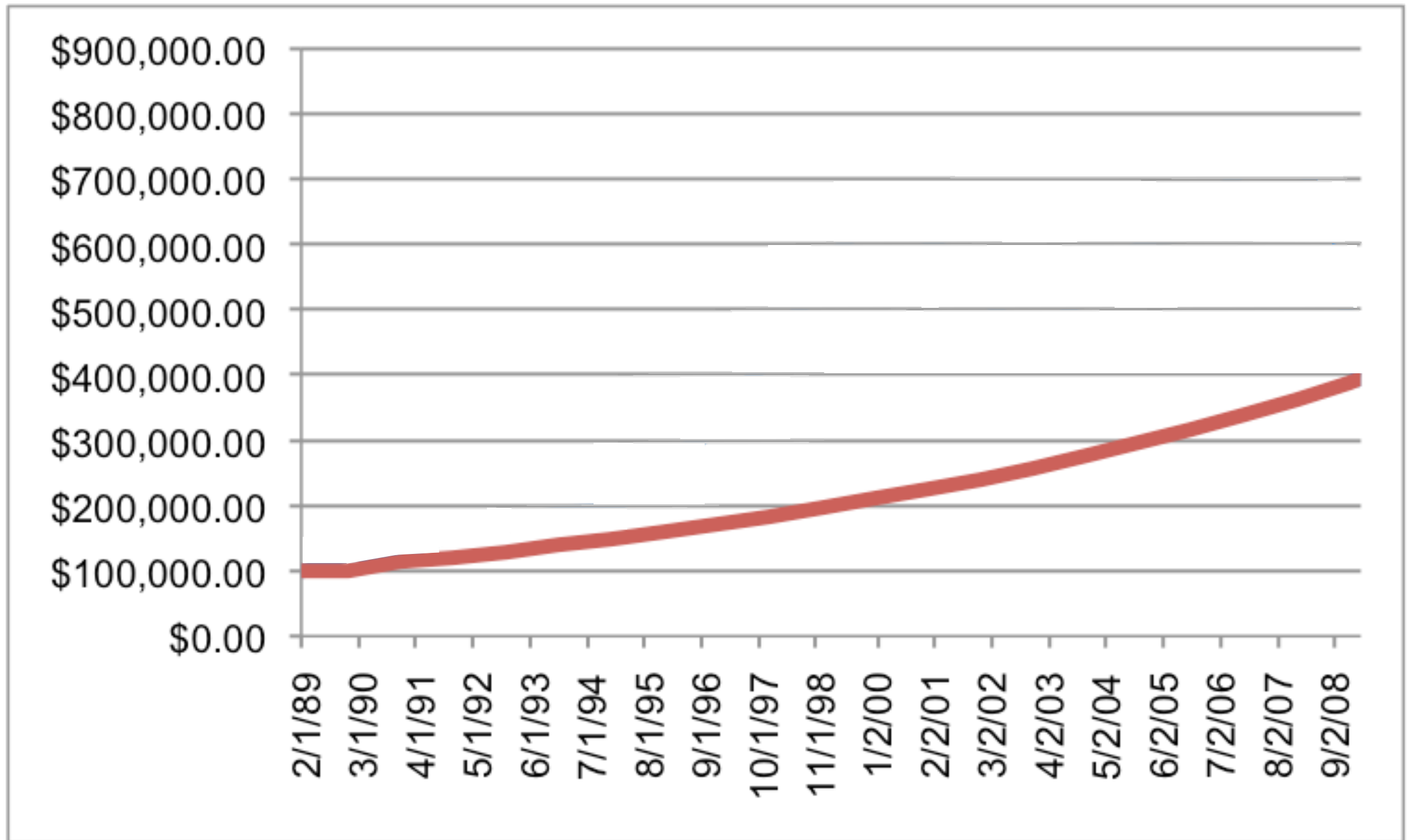
Despite average intra-year drops of 13.8%, annual returns positive in 29 of 38 years



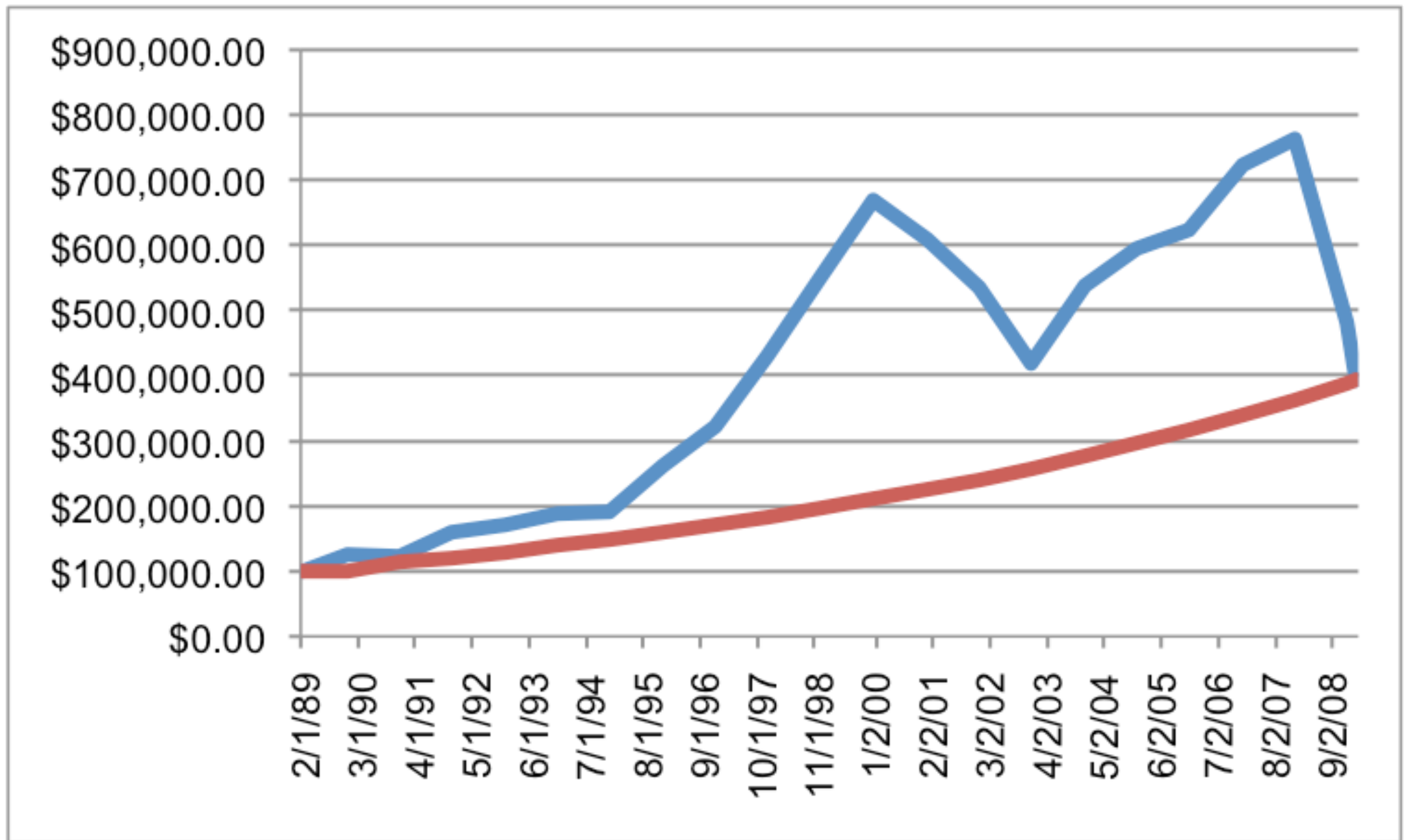
Source: FactSet, Standard & Poor's, J.P. Morgan Asset Management.

Returns are based on price index only and do not include dividends. Intra-year drops refers to the largest market drops from a peak to a trough during the year. For illustrative purposes only. Returns shown are calendar year returns from 1980 to 2017, over which time period the average annual return was 8.8%.

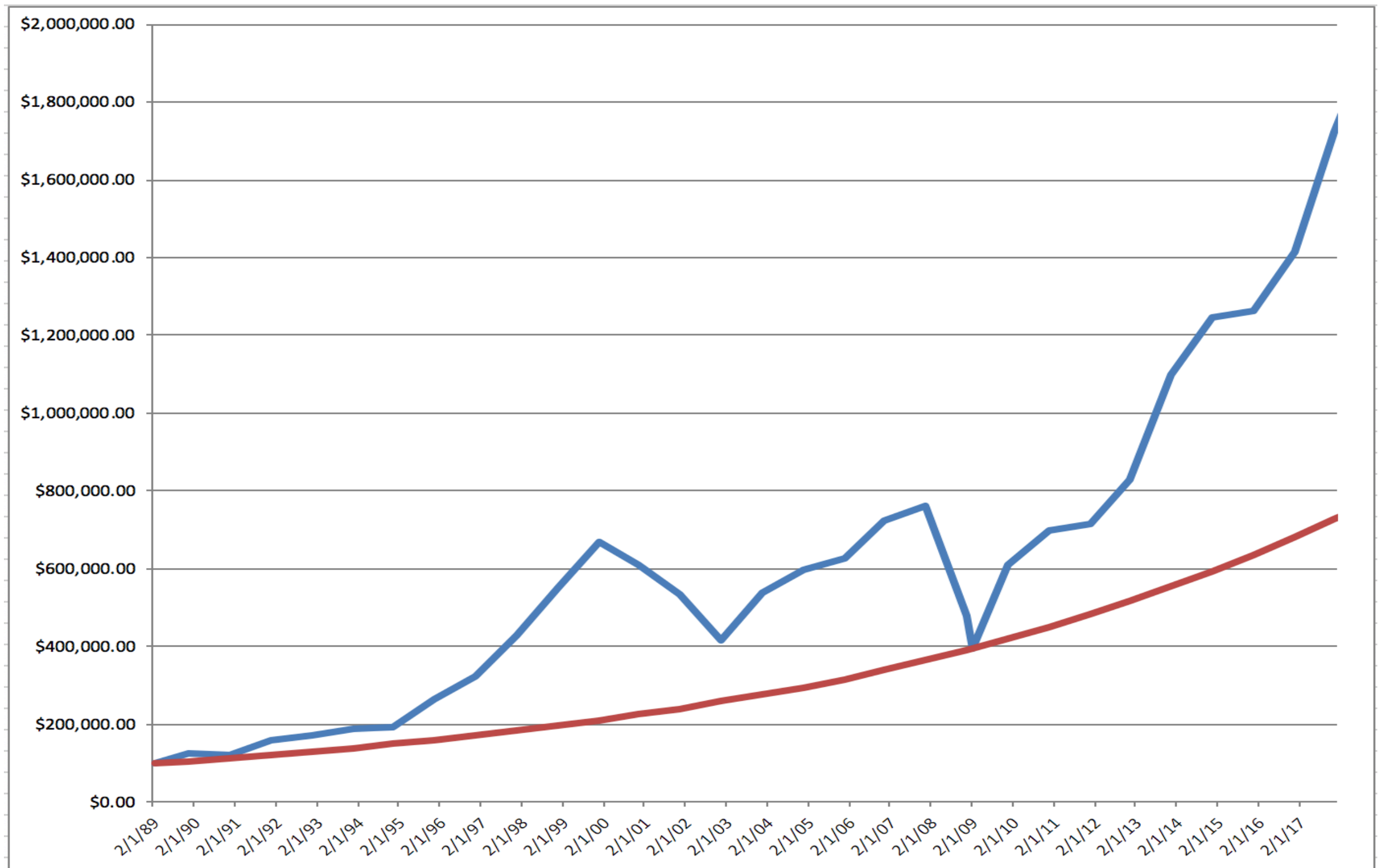
Guide to the Markets – U.S. Data are as of September 30, 2018.



Source: Hypothetical Illustration tool from <https://www.americanfunds.com/advisor/>



Source: Hypothetical Illustration tool from <https://www.americanfunds.com/advisor/>



Source: Hypothetical Illustration tool from <https://www.americanfunds.com/advisor/>

Asset class returns

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																2003 - 2017	
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	YTD	Ann.	Vol.
EM Equity 56.3%	REITs 31.6%	EM Equity 34.5%	REITs 35.1%	EM Equity 39.8%	Fixed Income 5.2%	EM Equity 79.0%	REITs 27.9%	REITs 8.3%	REITs 19.7%	Small Cap 38.8%	REITs 28.0%	REITs 2.8%	Small Cap 21.3%	EM Equity 37.8%	Small Cap 11.5%	EM Equity 12.7%	EM Equity 23.0%
Small Cap 47.3%	EM Equity 26.0%	Comdty. 21.4%	EM Equity 32.6%	Comdty. 16.2%	Cash 1.8%	High Yield 59.4%	Small Cap 26.9%	Fixed Income 7.8%	High Yield 19.6%	Large Cap 32.4%	Large Cap 13.7%	Large Cap 1.4%	High Yield 14.3%	DM Equity 25.6%	Large Cap 10.6%	Small Cap 11.2%	REITs 22.3%
DM Equity 39.2%	DM Equity 20.7%	DM Equity 14.0%	DM Equity 26.9%	DM Equity 11.6%	Asset Alloc. 25.4%	DM Equity 32.5%	EM Equity 19.2%	High Yield 3.1%	EM Equity 18.6%	DM Equity 23.3%	Fixed Income 6.0%	Fixed Income 0.5%	Large Cap 12.0%	Large Cap 21.8%	Asset Alloc. 2.9%	REITs 11.1%	Small Cap 18.8%
REITs 37.1%	Small Cap 18.3%	REITs 12.2%	Small Cap 18.4%	Asset Alloc. 7.1%	High Yield -26.9%	REITs 28.0%	Comdty. 16.8%	Large Cap 2.1%	DM Equity 17.9%	Asset Alloc. 14.9%	Asset Alloc. 5.2%	Cash 0.0%	Comdty. 11.8%	Small Cap 14.6%	REITs 1.8%	Large Cap 9.9%	Comdty. 18.8%
High Yield 32.4%	High Yield 13.2%	Asset Alloc. 8.1%	Large Cap 15.8%	Fixed Income 7.0%	Small Cap -33.8%	Small Cap 27.2%	Large Cap 15.1%	Cash 0.1%	Small Cap 16.3%	High Yield 7.3%	Small Cap 4.9%	DM Equity -0.4%	EM Equity 11.6%	Asset Alloc. 14.6%	Cash 1.3%	High Yield 9.6%	DM Equity 18.4%
Large Cap 28.7%	Asset Alloc. 12.8%	Large Cap 4.9%	Asset Alloc. 15.3%	Large Cap 5.5%	Comdty. -35.6%	Large Cap 26.5%	High Yield 14.8%	Asset Alloc. 0.7%	Large Cap 16.0%	REITs 2.9%	Cash 0.0%	Asset Alloc. -2.0%	REITs 8.6%	High Yield 10.4%	High Yield -0.6%	DM Equity 8.6%	Large Cap 14.5%
Asset Alloc. 26.3%	Large Cap 10.9%	Small Cap 4.6%	High Yield 13.7%	Cash 4.8%	Large Cap -37.0%	Asset Alloc. 25.0%	Asset Alloc. 13.3%	Small Cap -4.2%	Asset Alloc. 12.2%	Cash 0.0%	High Yield 0.0%	High Yield -2.7%	Asset Alloc. 8.3%	REITs 8.7%	DM Equity -1.0%	Asset Alloc. 8.3%	High Yield 11.3%
Comdty. 23.9%	Comdty. 9.1%	High Yield 3.6%	Cash 4.8%	High Yield 3.2%	REITs -37.7%	Comdty. 18.9%	DM Equity 8.2%	DM Equity -11.7%	Fixed Income 4.2%	Fixed Income -2.0%	EM Equity -1.8%	Small Cap -4.4%	Fixed Income 2.6%	Fixed Income 3.5%	Fixed Income -1.6%	Fixed Income 4.1%	Asset Alloc. 11.0%
Fixed Income 4.1%	Fixed Income 4.3%	Cash 3.0%	Fixed Income 4.3%	Small Cap -1.6%	DM Equity -43.1%	Fixed Income 5.9%	Fixed Income 6.5%	Comdty. -13.3%	Cash 0.1%	EM Equity -2.3%	DM Equity -4.5%	EM Equity -14.6%	DM Equity 1.5%	Comdty. 1.7%	Comdty. -2.0%	Cash 1.2%	Fixed Income 3.3%
Cash 1.0%	Cash 1.2%	Fixed Income 2.4%	Comdty. 2.1%	REITs -15.7%	EM Equity -53.2%	Cash 0.1%	Cash 0.1%	EM Equity -18.2%	Comdty. -1.1%	Comdty. -9.5%	Comdty. -17.0%	Comdty. -24.7%	Cash 0.3%	Cash 0.8%	EM Equity -7.4%	Comdty. -0.3%	Cash 0.8%

Investing principles

Source: Barclays, Bloomberg, FactSet, MSCI, NAREIT, Russell, Standard & Poor's, J.P. Morgan Asset Management.

Large cap: S&P 500, Small cap: Russell 2000, EM Equity: MSCI EME, DM Equity: MSCI EAFE, Comdty: Bloomberg Commodity Index, High Yield: Bloomberg Barclays Global HY Index, Fixed Income: Bloomberg Barclays US Aggregate, REITs: NAREIT Equity REIT Index. The "Asset Allocation" portfolio assumes the following weights: 25% in the S&P 500, 10% in the Russell 2000, 15% in the MSCI EAFE, 5% in the MSCI EME, 25% in the Bloomberg Barclays US Aggregate, 5% in the Bloomberg Barclays 1-3m Treasury, 5% in the Bloomberg Barclays Global High Yield Index, 5% in the Bloomberg Commodity Index and 5% in the NAREIT Equity REIT Index. Balanced portfolio assumes annual rebalancing. Annualized (Ann.) return and volatility (Vol.) represents period of 12/31/02 – 12/31/17. Please see disclosure page at end for index definitions. All data represents total return for stated period. Past performance is not indicative of future returns.

Guide to the Markets – U.S. Data are as of September 30, 2018.

The importance of limiting losses

■ GTM - U.S. | On the Bench

S&P 500 index and 60/40 stock and bond portfolio

Growth of \$100,000 investment starting in December 31, 1998, monthly



Source: Standard & Poor's, Barclays, Bloomberg, FactSet, J.P. Morgan Asset Management. Returns are cumulative, and are based on total return indexes. The 60/40 portfolio assumes 60% in the S&P 500 total return index and 40% in the Bloomberg Barclays US Aggregate total return index. The 60/40 portfolio is rebalanced quarterly. Past performance is not indicative of future returns. *Guide to the Markets* – U.S. Data are as of September 30, 2018.

Sector returns

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Equities

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	YTD	2008 - 2017	
												Ann.	Vol.
Cons. Staples	-15.4%	Info. Tech 61.7%	Real Estate 32.3%	Utilities 20.0%	Financials 28.8%	Cons. Disc. 43.1%	Real Estate 30.2%	Cons. Disc. 10.1%	Energy 27.4%	Info. Tech 38.8%	Cons. Disc. 20.6%	Cons. Disc. 13.5%	Financials 27.5%
Health Care	-22.8%	Materials 48.6%	Cons. Disc. 27.7%	Cons. Staples 14.0%	Cons. Disc. 23.9%	Health Care 41.5%	Utilities 29.0%	Health Care 6.9%	Telecom 23.5%	Materials 23.8%	Info. Tech 20.6%	Info. Tech 11.9%	Real Estate 26.4%
Utilities	-29.0%	Cons. Disc. 41.3%	Industrials 26.7%	Health Care 12.7%	Real Estate 19.7%	Industrials 40.7%	Health Care 25.3%	Cons. Staples 6.6%	Financials 22.8%	Cons. Disc. 23.0%	Health Care 16.6%	Health Care 11.0%	Energy 22.6%
Telecom	-30.5%	Real Estate 27.1%	Materials 22.2%	Real Estate 11.4%	Telecom 18.3%	Financials 35.6%	Info. Tech 20.1%	Info. Tech 5.9%	Industrials 18.9%	Financials 22.2%	S&P 500 10.6%	Cons. Staples 10.1%	Materials 22.4%
Cons. Disc.	-33.5%	S&P 500 26.5%	Energy 20.5%	Telecom 6.3%	Health Care 17.9%	S&P 500 32.4%	Cons. Staples 16.0%	Real Estate 4.7%	Materials 16.7%	Health Care 22.1%	Energy 7.5%	Industrials 8.6%	Industrials 20.7%
Energy	-34.9%	Industrials 20.9%	Telecom 19.0%	Cons. Disc. 6.1%	S&P 500 16.0%	Info. Tech 28.4%	Financials 15.2%	Telecom 3.4%	Utilities 16.3%	S&P 500 21.8%	Industrials 4.8%	S&P 500 8.5%	Info. Tech 19.0%
S&P 500	-37.0%	Health Care 19.7%	S&P 500 15.1%	Energy 4.7%	Industrials 15.3%	Cons. Staples 26.1%	S&P 500 13.7%	S&P 500 1.4%	Info. Tech 13.8%	Industrials 21.0%	Utilities 2.7%	Real Estate 7.5%	Cons. Disc. 17.5%
Industrials	-39.9%	Financials 17.2%	Cons. Staples 14.1%	Info. Tech 2.4%	Materials 15.0%	Materials 25.6%	Industrials 9.8%	Financials -1.5%	S&P 500 12.0%	Cons. Staples 13.5%	Real Estate 1.7%	Utilities 6.3%	S&P 500 16.3%
Real Estate	-42.3%	Cons. Staples 14.9%	Financials 12.1%	S&P 500 2.1%	Info. Tech 14.8%	Energy 25.1%	Cons. Disc. 9.7%	Industrials -2.5%	Cons. Disc. 6.0%	Utilities 12.1%	Comm. Services 0.8%	Materials 6.2%	Telecom 15.2%
Info. Tech	-43.1%	Energy 13.8%	Info. Tech 10.2%	Industrials -0.6%	Cons. Staples 10.8%	Utilities 13.2%	Materials 6.9%	Utilities -4.8%	Cons. Staples 5.4%	Real Estate 10.8%	Financials 0.1%	Telecom 5.1%	Utilities 14.8%
Materials	-45.7%	Utilities 11.9%	Utilities 5.5%	Materials -9.8%	Energy 4.6%	Telecom 11.5%	Telecom 3.0%	Materials -8.4%	Real Estate 3.4%	Energy -1.0%	Materials -2.7%	Financials 3.8%	Health Care 14.1%
Financials	-55.3%	Telecom 8.9%	Health Care 2.9%	Financials -17.1%	Utilities 1.3%	Real Estate 1.6%	Energy -7.8%	Energy -21.1%	Health Care -2.7%	Telecom -1.3%	Cons. Staples -3.3%	Energy 1.2%	Cons. Staples 11.9%

Source: FactSet, Standard & Poor's, J.P. Morgan Asset Management.

Telecommunications was renamed Communication Services at the of September 2018. All data are based on Standard & Poor's GICS indexes and represent total return for stated period. Annualized (Ann.) return and volatility (Vol.) represents period of 12/31/07 – 12/31/17. Please see disclosure page at end for index definitions. Past performance is not indicative of future returns.

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Returns and valuations by sector

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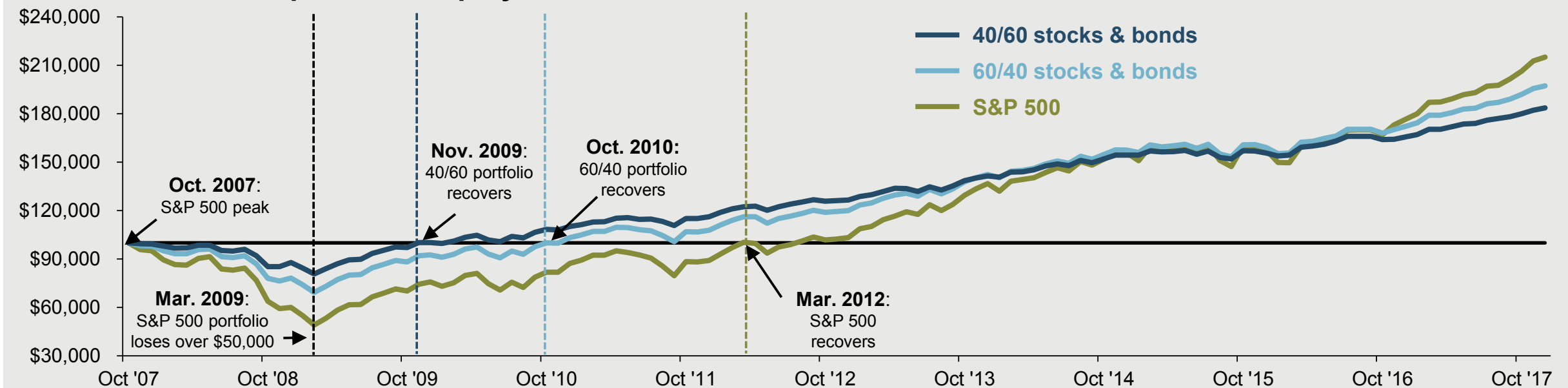
Equities

	Financials	Materials	Real Estate	Industrials	Cons. Discr.	Technology	Energy	Comm. Services*	Health Care	Cons. Staples	Utilities	S&P 500 Index	
S&P weight	13.3%	2.4%	2.7%	9.7%	10.3%	21.0%	6.0%	10.0%	15.0%	6.7%	2.8%	100.0%	Weight
Russell Growth weight	4.2%	1.7%	2.0%	12.0%	15.4%	32.6%	0.9%	12.0%	13.8%	5.4%	0.0%	100.0%	
Russell Value weight	22.8%	3.9%	4.6%	8.1%	5.3%	9.8%	10.8%	6.8%	15.2%	7.2%	5.6%	100.0%	
QTD	4.4	0.4	0.9	10.0	8.2	8.8	0.6	9.9	14.5	5.7	2.4	7.7	Return (%)
YTD	0.1	-2.7	1.7	4.8	20.6	20.6	7.5	0.8	16.6	-3.3	2.7	10.6	
Since market peak (October 2007)	18.8	71.9	70.2	124.0	273.7	260.7	25.0	55.6	223.9	161.6	96.2	135.5	
Since market low (March 2009)	548.8	309.4	531.1	515.7	765.1	655.8	128.8	197.2	422.2	266.8	243.3	426.3	
Beta to S&P 500	1.42	1.32	1.29	1.22	1.11	1.07	1.01	0.96*	0.76	0.59	0.42	1.00	β
Correl. to Treas. yields	0.64	0.34	-0.62	0.39	0.22	-0.25	0.48	-0.05	0.00	-0.35	-0.54	0.17	ρ
Foreign % of sales	31.2	52.7	-	44.6	34.1	56.9	54.1	-	38.2	32.5	41.3	43.6	%
NTM Earnings Growth	25.2%	24.0%	4.0%	19.8%	13.2%	31.1%	93.6%	14.7%	15.5%	7.2%	7.1%	22.2%	EPS
20-yr avg.	5.6%	9.3%	2.9%**	6.7%	9.6%	10.3%	12.8%	9.6%*	9.2%	5.7%	2.7%	6.4%	
Forward P/E ratio	12.2x	15.0x	17.3x	16.6x	22.4x	18.2x	16.9x	18.2x	16.7x	17.9x	16.5x	16.8x	P/E
20-yr avg.	12.8x	14.0x	15.2x	16.2x	18.0x	20.7x	17.6x	18.3x*	17.0x	16.9x	14.2x	15.9x	
Trailing P/E ratio	13.8x	20.0x	36.1x	19.8x	28.5x	27.0x	18.1x	15.7x	32.7x	21.0x	16.4x	21.3x	
20-yr avg.	15.5x	18.6x	36.1x	19.8x	18.8x	24.9x	17.4x	21.8x*	24.1x	20.7x	15.8x	19.4x	
Dividend yield	2.2%	2.1%	3.6%	2.0%	1.3%	1.5%	2.9%	1.4%	1.6%	3.2%	3.6%	2.0%	Div
20-yr avg.	2.3%	2.6%	4.4%	2.1%	1.4%	0.9%	2.3%	1.7%*	1.8%	2.7%	4.0%	2.0%	

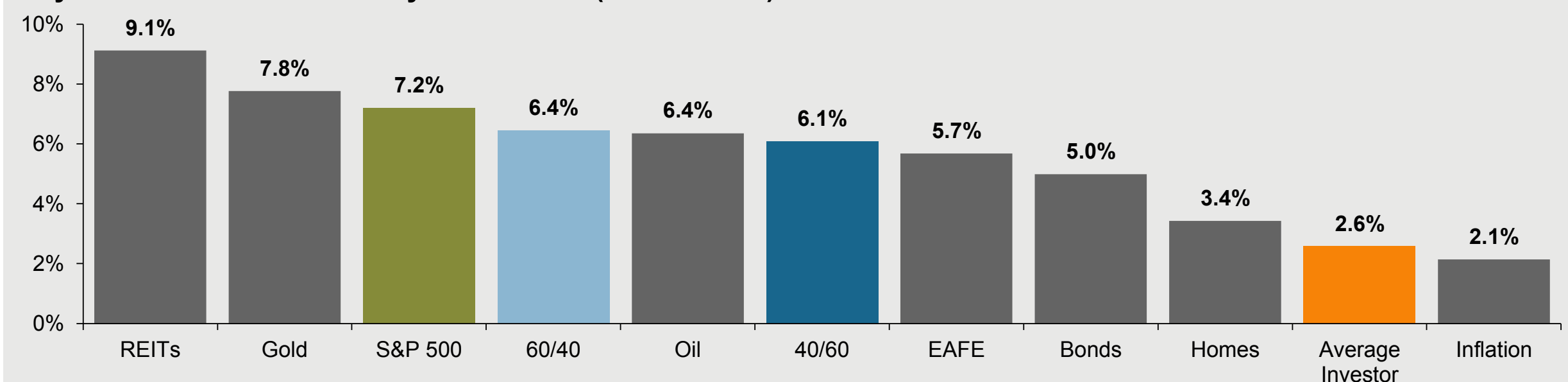
Source: FactSet, Russell Investment Group, Standard & Poor's, J.P. Morgan Asset Management. All calculations are cumulative total return, not annualized, including dividends for the stated period. Since market peak represents period 10/9/07 – 8/31/18. Since market low represents period 3/9/09 – 8/31/18. Correlation to Treasury yields are trailing 2-year monthly correlations between S&P 500 sector price returns and 10-year Treasury yield movements. Foreign percent of sales is from Standard & Poor's, S&P 500 2017: Global Sales report as of June 2018. Real Estate and Telecom foreign sales are not included due to lack of availability. NTM Earnings Growth is consensus estimates for earnings in the next 12 months compared to the consensus estimate 1 year ago. Forward P/E ratio is a bottom-up calculation based on the most recent S&P 500 Index price, divided by consensus estimates for earnings in the next 12 months (NTM), and is provided by FactSet Market Aggregates. Trailing P/E ratios are bottom-up values defined as month-end price divided by the last 12 months of available reported earnings. Historical data can change as new information becomes available. Note that P/E ratios for the S&P 500 may differ from estimates elsewhere in this book due to the use of a bottom-up calculation of constituent earnings (as described) rather than a top-down calculation. This methodology is used to allow proper comparison of sector level data to broad index level data. Dividend yield is calculated as the next 12-month consensus dividend divided by most recent price. Beta calculations are based on 10-years of monthly price returns for the S&P 500 and its sub-indices. *Communication Services (formerly Telecom) averages and beta are based on 5-years of backtested data by JPMAM. **Real estate NTM earnings growth is a 15-year average due to data availability. Past performance is not indicative of future returns.

Guide to the Markets – U.S. Data are as of September 30, 2018.

Portfolio returns: Equities vs. equity and fixed income blend



20-year annualized returns by asset class (1998 – 2017)



Source: J.P. Morgan Asset Management; (Top) Barclays, Bloomberg, FactSet, Standard & Poor's; (Bottom) Dalbar Inc.

Indices used are as follows: REITs: NAREIT Equity REIT Index, EAFE: MSCI EAFE, Oil: WTI Index, Bonds: Bloomberg Barclays U.S. Aggregate Index, Homes: median sale price of existing single-family homes, Gold: USD/troy oz., Inflation: CPI. 60/40: A balanced portfolio with 60% invested in S&P 500 Index and 40% invested in high-quality U.S. fixed income, represented by the Bloomberg Barclays U.S. Aggregate Index. The portfolio is rebalanced annually. Average asset allocation investor return is based on an analysis by Dalbar Inc., which utilizes the net of aggregate mutual fund sales, redemptions and exchanges each month as a measure of investor behavior. Returns are annualized (and total return where applicable) and represent the 20-year period ending 12/31/17 to match Dalbar's most recent analysis.

Guide to the Markets – U.S. Data are as of September 30, 2018.

All indexes are unmanaged and an individual cannot invest directly in an index. Index returns do not include fees or expenses.

Equities:

The **Dow Jones Industrial Average** is a price-weighted average of 30 actively traded blue-chip U.S. stocks.

The **MSCI ACWI (All Country World Index)** is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets.

The **MSCI EAFE Index (Europe, Australasia, Far East)** is a free float-adjusted market capitalization index that is designed to measure the equity market performance of developed markets, excluding the US & Canada.

The **MSCI Emerging Markets Index** is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets.

The **MSCI Europe Index** is a free float-adjusted market capitalization index that is designed to measure developed market equity performance in Europe.

The **MSCI Pacific Index** is a free float-adjusted market capitalization index that is designed to measure equity market performance in the Pacific region.

The **Russell 1000 Index®** measures the performance of the 1,000 largest companies in the Russell 3000.

The **Russell 1000 Growth Index®** measures the performance of those Russell 1000 companies with higher price-to-book ratios and higher forecasted growth values.

The **Russell 1000 Value Index®** measures the performance of those Russell 1000 companies with lower price-to-book ratios and lower forecasted growth values.

The **Russell 2000 Index®** measures the performance of the 2,000 smallest companies in the Russell 3000 Index.

The **Russell 2000 Growth Index®** measures the performance of those Russell 2000 companies with higher price-to-book ratios and higher forecasted growth values.

The **Russell 2000 Value Index®** measures the performance of those Russell 2000 companies with lower price-to-book ratios and lower forecasted growth values.

The **Russell 3000 Index®** measures the performance of the 3,000 largest U.S. companies based on total market capitalization.

The **Russell Midcap Index®** measures the performance of the 800 smallest companies in the Russell 1000 Index.

The **Russell Midcap Growth Index®** measures the performance of those Russell Midcap companies with higher price-to-book ratios and higher forecasted growth values. The stocks are also members of the Russell 1000 Growth index.

The **Russell Midcap Value Index®** measures the performance of those Russell Midcap companies with lower price-to-book ratios and lower forecasted growth values. The stocks are also members of the Russell 1000 Value index.

The **S&P 500 Index** is widely regarded as the best single gauge of the U.S. equities market. The index includes a representative sample of 500 leading companies in leading industries of the U.S. economy. The **S&P 500 Index** focuses on the large-cap segment of the market; however, since it includes a significant portion of the total value of the market, it also represents the market.

Fixed income:

The **Bloomberg Barclays 1-3 Month U.S. Treasury Bill Index** includes all publicly issued zero-coupon US Treasury Bills that have a remaining maturity of less than 3 months and more than 1 month, are rated investment grade, and have \$250 million or more of outstanding face value. In addition, the securities must be denominated in U.S. dollars and must be fixed rate and non convertible.

The **Bloomberg Barclays Global High Yield Index** is a multi-currency flagship measure of the global high yield debt market. The index represents the union of the US High Yield, the Pan-European High Yield, and Emerging Markets (EM) Hard Currency High Yield Indices. The high yield and emerging markets sub-components are mutually exclusive. Until January 1, 2011, the index also included CMBS high yield securities.

The **Bloomberg Barclays Municipal Index** consists of a broad selection of investment-grade general obligation and revenue bonds of maturities ranging from one year to 30 years. It is an unmanaged index representative of the tax-exempt bond market.

The **Bloomberg Barclays US Dollar Floating Rate Note (FRN) Index** provides a measure of the U.S. dollar denominated floating rate note market.

The **Bloomberg Barclays US Corporate Investment Grade Index** is an unmanaged index consisting of publicly issued US Corporate and specified foreign debentures and secured notes that are rated investment grade (Baa3/BBB or higher) by at least two ratings agencies, have at least one year to final maturity and have at least \$250 million par amount outstanding. To qualify, bonds must be SEC-registered.

The **Bloomberg Barclays US High Yield Index** covers the universe of fixed rate, non-investment grade debt. Eurobonds and debt issues from countries designated as emerging markets (sovereign rating of Baa1/BBB+/BBB+ and below using the middle of Moody's, S&P, and Fitch) are excluded, but Canadian and global bonds (SEC registered) of issuers in non-EMG countries are included.

The **Bloomberg Barclays US Mortgage Backed Securities Index** is an unmanaged index that measures the performance of investment grade fixed-rate mortgage backed pass-through securities of GNMA, FNMA and FHLMC.

The **Bloomberg Barclays US TIPS Index** consists of Inflation-Protection securities issued by the U.S. Treasury.

The **J.P. Morgan Emerging Market Bond Global Index (EMBI)** includes U.S. dollar denominated Brady bonds, Eurobonds, traded loans and local market debt instruments issued by sovereign and quasi-sovereign entities.

The **J.P. Morgan Domestic High Yield Index** is designed to mirror the investable universe of the U.S. dollar domestic high yield corporate debt market.

The **J.P. Morgan Corporate Emerging Markets Bond Index Broad Diversified (CEMBI Broad Diversified)** is an expansion of the **J.P. Morgan Corporate Emerging Markets Bond Index (CEMBI)**. The CEMBI is a market capitalization weighted index consisting of U.S. dollar denominated emerging market corporate bonds.

The **J.P. Morgan Emerging Markets Bond Index Global Diversified (EMBI Global Diversified)** tracks total returns for U.S. dollar-denominated debt instruments issued by emerging market sovereign and quasi-sovereign entities: Brady bonds, loans, Eurobonds. The index limits the exposure of some of the larger countries.

The **J.P. Morgan GBI EM Global Diversified** tracks the performance of local currency debt issued by emerging market governments, whose debt is accessible by most of the international investor base.

The **U.S. Treasury Index** is a component of the U.S. Government index.

Other asset classes:

The **Alerian MLP Index** is a composite of the 50 most prominent energy Master Limited Partnerships (MLPs) that provides investors with an unbiased, comprehensive benchmark for the asset class.

The **Bloomberg Commodity Index** and related sub-indices are composed of futures contracts on physical commodities and represents twenty two separate commodities traded on U.S. exchanges, with the exception of aluminum, nickel, and zinc

The **Cambridge Associates U.S. Global Buyout and Growth Index®** is based on data compiled from 1,768 global (U.S. & ex – U.S.) buyout and growth equity funds, including fully liquidated partnerships, formed between 1986 and 2013.

The **CS/Tremont Hedge Fund Index** is compiled by Credit Suisse Tremont Index, LLC. It is an asset-weighted hedge fund index and includes only funds, as opposed to separate accounts. The Index uses the Credit Suisse/Tremont database, which tracks over 4500 funds, and consists only of funds with a minimum of US\$50 million under management, a 12-month track record, and audited financial statements. It is calculated and rebalanced on a monthly basis, and shown net of all performance fees and expenses. It is the exclusive property of Credit Suisse Tremont Index, LLC.

The **HFRI Monthly Indices (HFRI)** are equally weighted performance indexes, utilized by numerous hedge fund managers as a benchmark for their own hedge funds. The HFRI are broken down into 4 main strategies, each with multiple sub strategies. All single-manager HFRI Index constituents are included in the HFRI Fund Weighted Composite, which accounts for over 2200 funds listed on the internal HFR Database.

The **NAREIT EQUITY REIT Index** is designed to provide the most comprehensive assessment of overall industry performance, and includes all tax-qualified real estate investment trusts (REITs) that are listed on the NYSE, the American Stock Exchange or the NASDAQ National Market List.

The **NFI-ODCE**, short for NCREIF Fund Index - Open End Diversified Core Equity, is an index of investment returns reporting on both a historical and current basis the results of 33 open-end commingled funds pursuing a core investment strategy, some of which have performance histories dating back to the 1970s. The NFI-ODCE Index is capitalization-weighted and is reported gross of fees. Measurement is time-weighted.

Definitions:

Investing in **alternative assets** involves higher risks than traditional investments and is suitable only for sophisticated investors. Alternative investments involve greater risks than traditional investments and should not be deemed a complete investment program. They are not tax efficient and an investor should consult with his/her tax advisor prior to investing. Alternative investments have higher fees than traditional investments and they may also be highly leveraged and engage in speculative investment techniques, which can magnify the potential for investment loss or gain. The value of the investment may fall as well as rise and investors may get back less than they invested.

Bonds are subject to interest rate risks. Bond prices generally fall when interest rates rise.

Investments in **commodities** may have greater volatility than investments in traditional securities, particularly if the instruments involve leverage. The value of commodity-linked derivative instruments may be affected by changes in overall market movements, commodity index volatility, changes in interest rates, or factors affecting a particular industry or commodity, such as drought, floods, weather, livestock disease, embargoes, tariffs and international economic, political and regulatory developments. Use of leveraged commodity-linked derivatives creates an opportunity for increased return but, at the same time, creates the possibility for greater loss.

Derivatives may be riskier than other types of investments because they may be more sensitive to changes in economic or market conditions than other types of investments and could result in losses that significantly exceed the original investment. The use of derivatives may not be successful, resulting in investment losses, and the cost of such strategies may reduce investment returns.

Distressed Restructuring Strategies employ an investment process focused on corporate fixed income instruments, primarily on corporate credit instruments of companies trading at significant discounts to their value at issuance or obliged (par value) at maturity as a result of either formal bankruptcy proceeding or financial market perception of near term proceedings.

Investments in **emerging markets** can be more volatile. The normal risks of investing in foreign countries are heightened when investing in emerging markets. In addition, the small size of securities markets and the low trading volume may lead to a lack of liquidity, which leads to increased volatility. Also, emerging markets may not provide adequate legal protection for private or foreign investment or private property.

The price of **equity** securities may rise, or fall because of changes in the broad market or changes in a company's financial condition, sometimes rapidly or unpredictably. These price movements may result from factors affecting individual companies, sectors or industries, or the securities market as a whole, such as changes in economic or political conditions. Equity securities are subject to "stock market risk" meaning that stock prices in general may decline over short or extended periods of time.

Equity market neutral strategies employ sophisticated quantitative techniques of analyzing price data to ascertain information about future price movement and relationships between securities, select securities for purchase and sale. Equity Market Neutral Strategies typically maintain characteristic net equity market exposure no greater than 10% long or short.

Global macro strategies trade a broad range of strategies in which the investment process is predicated on movements in underlying economic variables and the impact these have on equity, fixed income, hard currency and commodity markets.

International investing involves a greater degree of risk and increased volatility. Changes in currency exchange rates and differences in accounting and taxation policies outside the U.S. can raise or lower returns. Some overseas markets may not be as politically and economically stable as the United States and other nations.

There is no guarantee that the use of **long and short positions** will succeed in limiting an investor's exposure to domestic stock market movements, capitalization, sector swings or other risk factors. Using long and short selling strategies may have higher portfolio turnover rates. Short selling involves certain risks, including additional costs associated with covering short positions and a possibility of unlimited loss on certain short sale positions.

Merger arbitrage strategies which employ an investment process primarily focused on opportunities in equity and equity related instruments of companies which are currently engaged in a corporate transaction.

Mid-capitalization investing typically carries more risk than investing in well-established "blue-chip" companies. Historically, mid-cap companies' stock has experienced a greater degree of market volatility than the average stock.

Price to forward earnings is a measure of the price-to-earnings ratio (P/E) using forecasted earnings. **Price to book value** compares a stock's market value to its book value. **Price to cash flow** is a measure of the market's expectations of a firm's future financial health. **Price to dividends** is the ratio of the price of a share on a stock exchange to the dividends per share paid in the previous year, used as a measure of a company's potential as an investment.

Real estate investments may be subject to a higher degree of market risk because of concentration in a specific industry, sector or geographical sector. Real estate investments may be subject to risks including, but not limited to, declines in the value of real estate, risks related to general and economic conditions, changes in the value of the underlying property owned by the trust and defaults by borrower.

Relative Value Strategies maintain positions in which the investment thesis is predicated on realization of a valuation discrepancy in the relationship between multiple securities.

Small-capitalization investing typically carries more risk than investing in well-established "blue-chip" companies since smaller companies generally have a higher risk of failure. Historically, smaller companies' stock has experienced a greater degree of market volatility than the average stock.

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Unless otherwise stated, all data are as of September 30, 2018 or most recently available.

Guide to the Markets – U.S.

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CAPITAL MARKETS REVIEW

4th Quarter 2018

Reviewing the quarter ended September 30, 2018



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